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FEATURES

DIGEST 11 Our monthly irreverent look at the world of electronics, featuring the return of the caption picture!

MACHINE CODE

PROGRAMMING 27 Bob Campbell continues his look at addressing modes with relative and absolute addressing, before pushing and popping the stack are dealt with.

varieties are covered this month, from passive to parametric, and shelf to slope.

CAPACITOR METER REVIEW ... 51 Capacitors are amongst the most common electronic components - but do we ever bother to test them? We do not! Now there's a new meter that could change all that.



TECH TIPS64 Wanted: a good home (or several good homes) for some good ideas. Apply page 64.

Due to pressure of space, IC Update has been held over until next month.

PROIECTS

A-TO-D BOARD 19 Don't let your analogue voltages go astray - convert them with our cover-feature project into nice, safe digital versions.

ZX-BASED ALARM 31 RAM the message home to baddies with programmed protection from this project, using either a ZX81 or a Spectrum.

44 LIGHT CHASER Forget those boring flashing-light displays, here's an EPROM con-trolled display that will put the competition in the shade!

MODULAR PREAMPLIFIER.... 55 So you don't like tone controls? You don't have to have them! So

you want two disc inputs? Easy! So you want to change your mind? That's easy too!

LAMPSAVER 69 Our final project is in the simple but ingenious category - a device to add zero-crossing switching to any light, thus extending bulb life and saving on interference to boot!



INFORMATION 9

NEXT MONTH'S ETI ETI BOOKS SERVICE 24 **BREADBOARD EXHIBITION ... 30**

ETI PCB SERVICE..

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40373 160p | CPUs | 8279 440p
8284 350p
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81LS95/96 | 6MHz UHF
375p
8MHz UHF
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| 7403
7404
7405
7406 | 25p 74279
30p 74283
90p 74285 | 55p 74LS
50p 74LS
160p 74LS

 | 92 900p
93 50p
95 70p

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74C48 120p
74C73 50p
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4099 100p
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6502 350p | 8288 E11
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9901 E10
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CRT5027 £18 | 120p
81LS97/98
120p
881 S120 250p | 450p
CRYSTALS
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7408
7409 | 90p 74286
25p 74290
25p 74293
74293 | 160p 74LS
150p 74LS
90p 74LS

 | 297 900p
298 90p
299 200p

 | 74C74 45p
74C76 50p
74C83 120p
74C85 120p
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4503 45p
4504 75p
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EF9366 £36
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9637AP 160p
7N425E-8 350p | 32_768KHz
100p
100KHz 325p
 |
| 7410
7411
7412 | 25p 74298
25p 74351
25p 74365A
74366A | 150p 74LS
150p 74LS
48p 74LS
624

 | 323 200p
324/
150p

 | 74C86 30p
74C90 70p
74C93 70p
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4507 35p
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1.0 325p
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7414
7416 | 60p 74367A
38p 74368A
38p 74376 | 48p 74LS
48p 74LS
100p 74LS

 | 348 140p
352 70p
353 70p

 | 74C95 106p
74C107 70p
74C150 300p
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4511 45p
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74C926 £5 | 8039 300p
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Z80ADART
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TMS9927 £14
TMS9928 £20 | | 1 008 275p
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2 00 250p
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| 7417
7420
7421
7422 | 25p 74390
25p 74393
30p 74490 | 90p 74LS
150p 74LS
120p 74LS

 | 356 175p
363 180p
364 180p

 | 74C151 100p
74C154 300p
74C157 150p
 | 4514 120p
4515 110p
4516 55p
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72168 £22
ZN1040 670p | 8086 £22
8088 £18
8748 £18 | 700p
280ADMA £9
280SI 0/1/2 £9
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2 5 250p
2 662 250p
3 276 150p
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| 7423
7425
7426 | 30p 74LS SI
35p 74LS00
30p 74LS01 | 20p 74LS
20p 74LS
20p 74LS

 | 365A 36p
366A 36p
367A 36p

 | 74C160 90p
74C161 90p
74C162 90p
74C163 90p
 | 4518 40p
4520 50p
4521 90p
4522 120p
 | 40103 170p
40105 110p
40106 40p
 | DIL | TMS1601 £12
TMS9980 £20
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2102-3L 120p
2111A 300p
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AD558CJ 775p
AD5611 620 | 8272 £20
FD1771 £20
FD1791 £22 | 3 5795 120p
3 686 300p
4 00 150p
 |
| 7427
7428
7430 | 30p 74LS02
30p 74LS03
25p 74LS04 | 20p 74LS
20p 74LS
20p 74LS
20p 74LS

 | 373 120p
374 120p
375 060p

 | 74C173 48p
74C174 90p
74C175 90p
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AM25LS2521
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FD1795 £28
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4 43 125
4 608 250
250
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| 7432
7433
7437
7438 | 25p 74LS05
25p 74LS08
25p 74LS09
60p 74LS10 | 20p 74LS
20p 74LS
20p 74LS

 | 377 120p
378 085p
379 120p

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74C193 115p
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WD1691 E15
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7440
7441 | 36p 74LS10
25p 74LS11
70p 74LS13 | 20p 74LS
20p 74LS
20p 74LS
28p 74LS

 | 90 075p
93 90p
95A

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74C221 150p
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DAC80 £28
DM8131 275p | CHARACTER | 6 144 150p
7 0 150p
7 168 175p
 |
| 7442A
7444
7445 | 60p 74LS14
70p 74LS15
90p 74LS20 | 45p 74LS
20p 74LS
20p 74LS

 | 999 120p
145 100p
165 120p

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74C374 160p
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DS8830 150p | RO3-2513
U C 750p
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8 86 175p
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| 7446A
7447A
7448
7450 | 90p 74LS21
75p 74LS22
90p 74LS26 | 20p 74LS4
20p 74LS4
20p 74LS4

 | 166 120p
167 120p
190 130p

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MC66760 750p
SN74S262AN | 10.5 250p
10.7 200p
12.00 150p
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7451
7453
7454 | 25p 74LS27
25p 74LS28
25p 74LS30
25p 74LS32 | 20p 74LS
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7474
7475 | 30p 74LS40
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7481
7482 | 48p 74LS48
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120p 74LS55 | 20p 74LS6
20p 74LS6
20p 74LS6

 | 250p
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74ALS20 35p
74ALS32 35p
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ULN2802 200p | 6854 700p
68854 800p
6875 570p | ROMs/
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MC3487 300p
MC3487 300p | GENERATORS
MC14411 700p
COM8116 800p | 38 6667 175
48 0 175
55 5 400
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7484A
7485 | 75p 74LS73/
90p 74LS74/
90p 74LS75 | A 20p
A 30p 74LS6
36p 74LS6

 | 250p
343 200p

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74ALS138
150p
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CA3130T 110p
CA3140E 40p
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M83730 400p
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7489
7490A | 360 74LS76/
1700 74LS83/
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300p
AY-5-1013P | CLOCK
MK3805 ETBA
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| 7492A
7493A
7494 | 50p 74LS86
45p 74LS90
90p 74LS91
90p 74LS92 | 25p 74LS6
32p
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74104
74105
74107 | 50p 74LS107
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55p 74LS112
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33p 74LS6
33p 74LS6
33p 74S

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74110
74111 | 45p 74LS114
60p 74LS122
55p 74LS123 | 32p 74S00
60p 74S00
60p 74S00

 | 30p
30p
30p

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 | ZN459 600p
ZN1034E 200p | 8 pin 9p 1 | 8 pin 16p 24 pin
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45p 7451

 | 40p

 | 4016 20p
4017 32p
 | ICM7217 750p
ICM7555 80p
ICM7556 140p
 | NE566 155p
NE567 140p
 | ZN1040E 670p
ZNA134 E23 | 14 pin 10p 2
16 pin 11p 2 | 0 pin 18p 28 pir
2 pin 22p 40 pir
 | 26p 14 pin
30p 16 pin | 42p 20 pin 6
45p 22 pin 7 | 6p 28 pin 100p
5p 40 pin 130p
 |
| 74119
74120
74121
74122
74123 | 100p 74LS126
100p 74LS132
40p 74LS133
45p 74LS136
90p 74LS136 | 45p 7451
45p 7451
42p 7452
30p 7452
30p 7452
30p 7452
42p 7453

 | 40p
50p
40p
50p
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 | 4016 20p
4017 32p
4018 45p
4019 25p
4020 48p
4021 40p
 | ICM7217 750p
ICM7555 80p
ICM7556 140p
LC7120 300p
LC7130 325p
LC7137 270p
 | NE566 155p
NE566 155p
NE567 140p
NE570 410p
NE571 400p
NE592 80p
 | 2N1040E 670p
2NA134 E23
2NA234 850p
TRANSISTORS
AD161/2 45p | 14 pin 10p 2
16 pin 11p 2
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BFY51/2 24p
BFY56 33p | 0 pin 18p 28 pin
2 pin 22p 40 pin
11P36C 150p
T1P41A 50p
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5p 40 pin 130p
TRIACS
PLASTIC
 |
| 74119
74120
74121
74122
74123
74125
74125
74126
74128 | 100p 74LS120
100p 74LS133
40p 74LS133
45p 74LS136
90p 74LS136
50p 74LS136
50p 74LS146
70p 74LS146
70p 74LS146 | 45p 7451
45p 74512
42p 74522
30p 74522
30p 74522
42p 74530
42p 74530
42p 74533
90p 74533
120p 7455

 | 40p 50p 40p 70p 70p 70p 70p 70p 70p 70p

 | 4016 20p
4017 32p
4018 45p
4019 25p
4020 48p
4021 40p
4021 40p
4023 13p
4024 32p
 | ICM/21/ 756p
ICM/2555 80p
ICM/2556 140p
LC7120 300p
LC7130 325p
LC7137 270p
LF347 150p
LF351 48p
LF353 95p
LF356P 95p
 | NE566 120p
NE566 155p
NE567 140p
NE571 400p
NE571 400p
NE5532 130p
NE5532 130p
NE5534P 110p
NE5534AP 125p
 | 2N 1040E 670p
ZNA134 E23
ZNA234 850p
TRANSISTORS
AD161/2 45p
BC107/8 13p
BC107/8 14p
BC109C 14p
BC109C 12p | 14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY56 33p
BFY90 80p
BRY39 45p
BSX19/20 24p | 0 pin 18p 28 pir
2 pin 22p 40 pir
1P41A 50p
TIP41C 55p
TIP42C 65p
TIP42C 65p
TIP54 160p
TIP54 160p
 | 26p 14 pin 30p 16 pin 2N3773 200p 2N3819 20p 2N3823 30p 2N3866 90p 2N3902 700p 2N3904 15p | 42p 20 pin 6
45p 22 pin 7
DIODES
BY127 12p
BYX36300 20p
OA47 5p
OA90/91 9p | Sp 28 pin 100p 5p 40 pin 130p TRIACS
PLASTIC 3A 400V 60p 6A 400V 60p 6A 500V 80p
 |
| 74119
74120
74121
74122
74123
74125
74126
74128
74128
74132
74132
74136
74141
74142 | 100p 74LS12
100p 74LS13
40p 74LS13
45p 74LS13
45p 74LS13
50p 74LS13
50p 74LS13
50p 74LS14
70p 74LS14
43p 74LS14
43p 74LS15
70p 74LS15 | 45p /451
45p 7451
42p 7451
30p 7452
30p 7452
30p 7452
30p 7452
30p 7452
42p 7453
90p 7453
120p 7455
120p 7458
50p 7458
50p 7458

 | 40p 50p 40p 50p 50p 50p 50p 50p 50p 50p 50p 60p 75p 75p 450p 590p 60p 75p 450p 590p 290p

 | 4016 401
4017 32p
4018 45p
4019 25p
4020 48p
4021 40p
4022 45p
4022 45p
4022 32p
4022 32p
4025 33p
4026 80p
4027 20p
 | ICM/2555 80p
ICM/2555 80p
ICM/2555 80p
ICM/2556 140p
IC7120 300p
IC7130 325p
IC7137 270p
IF347 150p
IF347 150p
IF351 45p
IF353 95p
IF356P 95p
IF356P 95p
IF356P 95p
IF3337 100p
IF13331 350p
IM10C 325p
 | NE566 155p
NE566 155p
NE571 400p
NE571 400p
NE571 400p
NE553 130p
NE5532 130p
NE5534P 110p
NE5534P 125p
PLL02A 500p
S56668 225p
 | 2N1040E 670p
ZNA134 E23
ZNA234 8500
TRAWSISTORS
AD161/2 45p
BC107/8 13p
BC109C 14p
BC169C 12p
BC172 12p
BC177/8 17p
BC177/8 17p
BC177/8 13p
BC182/3 10p | 14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY590 80p
BRY39 85p
BRY39 85p
BRY39 25p
BU104 225p
BU108 250p
BU108 250p | 0 pin 18p 28 pir
2 pin 22p 40 pir
11P33C 190p
11P41A 50p
11P41C 55p
11P42C 65p
11P42C 65p
11P42C 65p
11P54 160p
11P121 75p
11P121 75p
11P122 80p
 | 26p 14 pm
30p 16 pm
2N3773 200p
2N3819 20p
2N3866 900
2N3904 15p
2N3904 15p
2N3904 15p
2N3906 16p
2N4037 85p
2N4056 65p
2N4123/4 27p | 42p 20 pin 6
45p 22 pin 7
DIODES
BY127 12p
BYX36300 20p
OA47 8p
OA40/91 9p
OA200 9p
OA200 9p
OA202 10p | 28 pin 100p 40 pin 130p TRIACS PLASTIC 3A 400V 60p 6A 400V 70p 6A 500V 88p 8A 400V 75p 8A 500V 95p 12A 400V 85p
 |
| 74119
74120
74121
74122
74123
74125
74126
74128
74128
74132
74132
74136
74141
74142
74143
74144
74145 | 100p 741572
400p 741573
40p 741573
90p 741573
90p 741573
90p 741574
70p 741574
70p 741574
70p 741575
70p 741575
70p 741575
70p 741575
70p 741575
70p 741575
90p 741575 | 45p 7451 45p 7451 30p 7452 120p 7453 50p 7458 150p 7458 40p 7451 40p 7451 40p 7451

 | 40p 50p 50p 50p 50p 50p 50p 70p 60p 70p 90p 2 90p 14 90p 24 300p

 | 4016 20p 4017 32p 4018 45p 4019 25p 4019 25p 4019 25p 4020 48p 4021 40p 4021 40p 4022 45p 4025 13p 4026 80p 4027 20p 4027 20p 4028 40p 4029 45p 4031 125p
 | ICM/2555 80p
ICM/2555 80p
ICM/2555 80p
ICM/2555 140p
ICM/2555 140p
ICM/2552 140p
ICM/2552 1200
ICM/2552 1200
ICM/2
 | NE566 1559
NE566 1559
NE571 4009
NE571 4009
NE573 1400
NE553 1400
NE5533 1400
NE5534AP 1109
NE5534AP 1109
NE5534AP 1259
PLL02A 5009
RC4136 6009
S5668 2259
SAA1900 £16
SAD102AA
11509
SF955364 8009 | 2N1040E 6705
2NA134 E25
2NA234 8500
TRANSISTORS
AD161/2 45p
BC107/8 13p
BC109C 14p
BC169C 12p
BC177 12p
BC177 12p
BC177 18p
BC182/3 10p
BC182/3 10p
BC187 30p
BC187 30p
BC212/3 11p
 | 14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY56 33p
BFY90 80p
BFY90 80p
BSX19/20 24p
BU104 225p
BU108 250p
BU108 250p
BU108 120p
BU108 120p
BU108 120p
BU108 225p
BU128 120p | 0 pin 18p 28 pir
2 pin 22p 40 pir
11P36C 150p
11P41A 50p
11P41C 55p
11P42C 65p
11P42C 65p
11P42C 65p
11P120 75p
11P122 80p
11P122 80p
11P147 120p
11P147 120p
11P147 120p
11P1455 70p | 26p 14 pin 30p 16 pin 16 pin 16 pin 2N373 200p 2N3819 20p 2N3823 30p 2N3902 700p 2N3904 15p 2N3906 16p 2N4056 65p 2N4125/6 27p 2N4125/6 27p 2N4125/6 27p 2N4125/6 90p 2N4247 90p
 | 42p 20 pin 6 45p 22 pin 7 DIODES BY127 12p BYX36300 20p 0A47 BYA36300 20p 0A47 DA85 3p 0A202 0A202 3p 0A202 1N914 4p 1N914 1N404 4p 1N4001/2 | 28 pin 100p
40 pin 130p
70 pin |
| 74119
74120
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74128
74132
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74136
74141
74142
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74145
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74148
741510 | 100p /14572
100p /4573
45p /44533
45p /44533
45p /44533
50p /44513
50p /44513
50p /44514
70p /44514
43p /44514
43p /44515
175p /44515
200p /44515
200p /44515
120p /44516
150p /44516
15 | 45p /45 1
45p 7451
42p 7452
30p 7452
30p 7452
30p 7452
42p 7453
42p 7453
42p 7453
42p 7453
120p 7455
50p 7451
50p 7451
40p 7451
40p 7451
350 7451
350 7451
350 7451

 | 0 40p 1 50p 0 40p 1 50p 2 50p 0 40p 1 50p 0 40p 1 50p 0 40p 1 70p 0 60p 1 75p 5 450p 2 90p 13 90p 24 300p 33 60p 33 60p 38 110p 39 120p
 | 4016 2016 4016 25p 4017 35p 4018 25p 4019 25p 4019 25p 4021 40p 4022 45p 4022 45p 4023 13p 4025 80p 4028 40p 4028 40p 4028 40p 4030 15p 4031 125p 4033 125p 4034 140p 4033 15p 4033 15p 4033 15p 4033 15p 4034 140p 4035 135p 4034 140p 4035 45p

 | CCM/2555 80p
(CM/2555 80p
(CM/2 | NE566 1209
NE566 1559
NE571 4009
NE571 4009
NE572 4109
NE5532 1309
NE5534P 1109
NE5534P 1259
PLL02A 5009
NE5534P 1259
PLL02A 5009
S6668 2259
SAA1900 £16
SAD1024A
11509
SF96364 8009
SN76488 4509
SN76488 4509
SN76488 4509
 | 2N11040 2700
2N11040 2700
2NA134 2700
2NA134 2500
CTAA3557085
BC107/8 139
BC107/8 139
BC107/8 149
BC182 149
BC182 149
BC182 149
BC184 119
BC184 11 | 14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY56 33p
BFY90 80p
BKY39 45p
BKY39 45p
BU105 190p
BU105 190p
BU108 250p
BU108 250p
BU108 250p
BU128 200p
BU208 200p
BU208 200p
BU208 200p
BU208 200p
BU208 200p
 | 0 pin 18p 28 pin
2 pin 22p 40 pin
11P38C 1540
11P41A 50p
11P41C 55p
11P42A 60p
11P42A 60p
11P42C 65p
11P120 75p
11P121 75p
11P121 75p
11P121 75p
11P122 80p
11P142 120p
11P142 70
11P142 120p
11P142 70
11P142 70
10P144 | 25p 14 pin 30p 15 pin 2N3773 200p 2N3819 200p 2N3818 20p 2N3823 30p 2N3866 90p 2N3904 15p 2N3905 16p 2N4123/4 27p 2N4123/6 65p 2N4123/6 70p 2N4123/6 70p 2N4123/7 90p 2N4267 90p 2N5087 27p 2N5087 27p 2N5087 27p 2N5172 27p | 42p 20 pin 6
45p 22 pin 7
5000ES
BY127 12p
BYX36300 20p
0A47 8p
0A305 3p
0A305 3p
0A304 4p
1N816 4p
1N816 4p
1N816 4p
1N816 4p
1N816 4p
1N816 4p
1N816 4p
1N806 6p
1N4005 7 1p
 | 28 in 100p 28 in 130p TRIACS PLASTIC 3A 400V 60p 6A 400V 70p 6A 500V 70p 9A 500V 70p 12A 500V 105p 16A 400V 100p 12A 500V 105p 16A 500V 130p 71C 226D 73p 71C 226D 110p |
| 74119
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74145
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74155
74155 | 100p 741572
400p 741573
45p 741573
45p 741573
90p 741573
90p 741573
90p 741573
50p 741574
45p 741575
70p 741575
70p 741575
200p 741575
200p 741575
200p 741575
120p 741576
80p 741576
150p 741576
80p 741576 | 45p /45 1
45p 7451
42p 7452
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42p 7453
42p 7453
120p 7451
500 7458
500 7458
500 7451
40p 7451
4

 | 40p 50p
 | 4016 400 4017 32p 4018 45p 4018 45p 4012 40p 4022 40p 4022 40p 4022 40p 4022 32p 4024 32p 4025 13p 4026 13p 4028 40p 4029 45p 4028 40p 4028 40p 4028 80p 4031 125p 4033 125p 4035 45p 4035 45p 4036 275p 4037 110p 4038 110p

 | ICM/2555 80p
ICM/2555 80p
ICM/2555 80p
ICM/2555 80p
ICM/2555 80p
ICM/2556 140p
ICM/30 300p
ICM/30 300p
ICM/30 300p
ICM/30 200p
ICM/30 200p | NE566 155p
NE566 155p
NE567 140p
NE571 400p
NE571 400p
NE552 80p
NE5534P 110p
NE5534P 110p
NE5534P 110p
NE5534P 125p
PLL02A 500p
NE5534P 125p
NE5534P 125p
NE5534
 | Initiane FTRE ZNA134 223 ZNA134 223 ZNA234 850c TRANSSTORE 850c TRANSSTORE 100 BC107/8 13p BC107/8 12p BC107/8 12p BC107/8 13p BC117/8 11p BC18/2 11p BC18/2 11p BC214 12p BC327 16p BC338 16p BC347 16p BC437/8 30p | 14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY56 33p
BFY90 80p
BKY39 45p
BKY39 45p
BKY39 45p
BKY39 45p
BU105 190p
BU108 225p
BU108 225p
BU108 120p
BU108 120p
BU208 200p
BU208 20 | 0 pin 18p 28 pin
2 pin 22p 40 pin
1P38C 1940
1P41A 50p
1P41A 55p
1P41C 55p
1P42A 60p
1P42A 60p
1P42A 60p
1P42A 180p
1P42A 180p
1P424 | 26p 14 pin 30p 16 pin 2N3773 200p 2N3819 200p 2N3819 200p 2N3804 15p 2N3904 15p 2N4025 65p 2N4123/4 27p 2N4123/4 25p 2N4123/4 25p 2N4123/4 50p 2N4123/4 7p 2N4123/5 7p 2N427 50p 2N508 27p 2N5172 27p 2N5245 40p 2N5245 40p 2N5401 60p
 | 42p 20 pin 6
45p 22 pin 7
DIODES
BY127 12p
BYX36300 20p
OA47 8p
OA30/91 9p
OA30/91 9p
OA202 10p
IN914 4p
IN4001/2 5p
IN4001/2 5p
IN4001/2 12p
IN4005/7 7p
IN5403/4 14p
IN5404/5 19
IN5404/5 19
IN5404/5 19 | 28 pin 100p 40 pin 130p 40 pin 130p 40 pin 130p 40 pin 130p FLASS PLASS PLASON 80p 6A 400V 70p 8A 400V 75p 12A 500V 15p 12A 400V 95p 12A 400V 10p 12A 400V 130p 124 600V 130p 11C 226D 75p 11C 246D 110p THYHISTORS 2A 400V |
| 74119
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74159 | 100p 741572
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 | Adp Adp 50p 50p 50p 50p 2 50p 2 50p 2 70p 2 70p 2 90p 2 90p 3 90p 44 90p 33 60p 99 122 913 10p 913 10p 914 10p 915 180p 916 180p 917 250p 918 10p 919 120p 910 60p 911 180p 913 180p 913 180p 913 180p 913 10p 914 250p 913 10p 914 250p 914 250p
 | 4016 400 4017 32p 4018 45p 4019 25p 4020 48p 4022 45p 4022 45p 4022 45p 4022 45p 4026 80p 4026 80p 4026 80p 4028 40p 4028 40p 4030 15p 4033 125p 4034 125p 4035 110p 4036 275p 4038 110p 4038 1002 4034 4037 4044 40p 4044 40p

 | ICM/2555 80p
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(CM/2555 80 | NE566 1200
NE566 1559
NE567 1400
NE570 4100
NE570 4100
NE5532 300
NE55342 100
NE55342 100
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NE55342 100
NE55342 100
St666 2250
SAA1300 1150
ST76435 4000
SN76438 4500
SN76438 4500
SN76435 4000
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SN76435 500
SN7645 500
 | Thitsde E70 TNA134 223 TNA134 223 ZNA234 8500 TRANSISTORS 32 BC107/8 13p BC107/8 13p BC107/8 12p BC172 12p BC184 11p BC184 11p BC187 30p BC227 16p BC327 16p BC327 16p BC327 16p BC327 16p BC327 16p BC337 16p BC437 17p BC471 25p BC37 16p BC37 16p BC37 16p BC471 25p BC471 25p BC471 25p BC471 25p BC477 45p BC478 12p BC479 14p BC478 12p | 14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY55 33p
BFY90 80p
BHY39 45p
BKY39 45p
BKY39 45p
BU105 190p
BU105 190p
BU108 250p
BU108 250p
BU108 250p
BU128 200p
BU208 200p
BU208 200p
BU208 500p
BU208 200p
BU208 2 | 0 18p 28p 20 2 2m 22p 40 pir 11P36C 19up 19up 19up 11P31C 19up 11P31C 19up 11P41A 50p 11P41A 50p 11P41C 55p 11P42C 65p 11P12C 75p 11P122 75p 11P121 75p 11P122 80p 11P142 120p 11P142 120p 11P1425 78p 11P140 50p 11P4055 78p 11P4055 78p 11P4055 78p 11P405 12p 11P405 78p 13p 2T×452 45p 2T×502 15p 2T×502 15p 2T×502 15p 2T×502 15p 7T×552 15p 7T×552 56p
 | 26p 14 pin 30p 16 pin 16 pin 16 pin 2N3773 200p 2N3819 20p 2N3823 30p 2N3826 90p 2N3904 15p 2N3906 16p 2N4326 65p 2N44056 65p 2N44266 27p 2N44266 27p 2N4427 90p 2N5062 27p 2N5062 27p 2N5062 27p 2N5062 27p 2N5063 27p 2N5064 07p 2N5245 00p 2N5459 00p 2N5459 00p 2N5459 00p 2N5459 00p 2N5455 26p 2N5455 26p | 42p 20 pin 6
45p 22 pin 7
1000ES
BY127 12p
BY127 12 | 28 pin 100 pin 28 pin 100 pin TRIACS PLASTIC 3A 400V 60 pin 6A 500V 80 pin 9A 400V 700 pin 9A 400V 95 pin 12A 300V 95 pin 12A 400V 95 pin 12A 400V 95 pin 12A 500V 105 pin 16A 500V 105 pin 16A 500V 105 pin 11C 206D 95 pin 11C 206D 95 pin 11C 206D 95 pin 11C 206D 100 pin 100 pin |
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43p 741575
70p 741575
200p 741575
2000 741575
20000 741575
20 | 45p /45i 45p 74S1 42p 74S2 30p 74S2 120p 74S5 50p 74S8 40p 74S1 40p 74S1 35p 74S1 35p 74S1 360P 74S1 360P 74S1 140p 74S1 10p 74S1 <td>Adp Adp 50p 50p 50p 40p 50p 40p 2 50p 40p 40p 2 50p 40p 40p 40p 40p 2 50p 40p 60p 75p 44 90p 2 12 90p 12 90p 13 90p 14 90p 12 10p 13 60p 110p 180p 13 180p 13 300p 14 95p 153 180p 16 195p 17 250p 16 5 195p 3200p 194 300p</td> <td>4016 400 4017 32p 4017 32p 4018 32p 4019 25p 4019 25p 4020 40p 4021 40p 4022 40p 4024 32p 4026 80p 4027 40p 4026 80p 4027 40p 4026 80p 4028 40p 4030 15p 4033 125p 4033 125p 4033 125p 4033 110p 4038 290p 4040 4007 4044 404 4044 404 4044 404 4044 404</td> <td>ICM/2515 80p
ICM/2555 80p
ICM/2</td> <td>NE566 1209
NE566 1559
NE567 1400
NE571 4009
NE571 4009
NE552 3100
NE5534 1409
NE5534 1409
NE5534 1409
NE55347 125
PLL02A 5009
NE55347 125
NE55347 125
NE55347 125
NE55347 125
SAA 1900 £16
SAD 1024A
SAD 1024A
SAD 1024A
SAD 1024A
SAD 1024
SAD 1024A
SAD 1000
SAD 10000
S</td> <td>2n1140/e 270/e 27N4134 250/e 27N4234 850/e C102C 14/e 8C109C 14/e 8C109C 14/e 8C109C 14/e 8C172 12/e 8C172 12/e 8C172 12/e 8C172 16/e 8C184 11/e 8C187 30/e 8C237 16/e 8C337 16/e 8C431 25/e 8C441 25/e 8C477 40/e 8C548C 12/e 8C548C 12/e 8C549C 16/e 8C5578 14/e 8C570 16/e 8C470 18/e</td> <td>14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY56 33p
BFY90 80p
BFY90 80p
BU730 245p
BU105 190p
BU108 250p
BU108 250p
BU108 250p
BU108 250p
BU208 200p
BU208 500p
BU208 500p
MJ3001 2255
S90p
MJ3001 225
S90p
MJ3001 225
S90p
MJ3</td> <td>0 pin 18p 28 pin
2 pin 22p 40 pir
11P38C 1540
11P38C 1540
11P41A 50p
11P41A 50p
11P42A 60p
11P42A 60p
11P42A 60p
11P42A 60p
11P42A 60p
11P42 280p
11P121 75p
11P121 75p
11P122 80p
11P121 75p
11P122 80p
11P142 120p
11P142 120p
11P425 78p
11P425 78p
11P425 78p
11P425 78p
11P425 78p
21P456 78
21X502 15p
21X502 15p
21X502 15p
21X552 55p
21X552 55p
21X552 55p
21X552 57p
21X552 57p
21X552</td> <td>26p 14 pin 30p 16 pin 16 pin 16 pin 2N3773 200p 2N3819 20p 2N38319 20p 2N3823 30p 2N3866 90p 2N3904 15p 2N4305 16p 2N4305 16p 2N44123/4 27p 2N44123/4 27p 2N4425(6 27p 2N4425(6 27p 2N4427 90p 2N5087 27p 2N5191 90p 2N5453 30p 2N5455 30p 2N5455 30p 2N5675 250p 2N6525 30p 2N6552 30p 2N6552 30p 2N6552 30p 2N6552 30p 2N6552 30p 2N6552 325p</td> <td>42p 20 pin 6
45p 22 pin 7
DIODES
BY127 12p
BYX36300 20p
OA47 8
BYX36300 20p
OA47 8
DA200 3p
OA202 10p
IN914 4p
IN914 5p
IN4003/2 5p
IN4005 5p
IN4005 5p
IN4005 5p
IN4005 5p
IN5005 5p
IN5007 2p
IN500 5p
IN500 5p
IN500</td> <td>28 in 100p 28 in 130p TRIACS PLASTIC 3A 400V 60p 6A 500V 80p 8A 400V 70p 9A 500V 80p 12A 500V 105p 16A 500V 130p 12A 500V 130p 12A 500V 130p 12A 600V 130p 12C 26D 630p 1102p 11C 226D 75p 11C 246D 11C 240D 130p 112A<400V</td> 11C 240D 130p 112A 11C 240D 130p 112A 11C 240D 130p 112A 11C 240D 110p 112A 112A 400V 160p 15A 102V 160p 15A 102V 160p 15A 102V 180p 15A 102V 180p | Adp Adp 50p 50p 50p 40p 50p 40p 2 50p 40p 40p 2 50p 40p 40p 40p 40p 2 50p 40p 60p 75p 44 90p 2 12 90p 12 90p 13 90p 14 90p 12 10p 13 60p 110p 180p 13 180p 13 300p 14 95p 153 180p 16 195p 17 250p 16 5 195p 3200p
 194 300p
 | 4016 400 4017 32p 4017 32p 4018 32p 4019 25p 4019 25p 4020 40p 4021 40p 4022 40p 4024 32p 4026 80p 4027 40p 4026 80p 4027 40p 4026 80p 4028 40p 4030 15p 4033 125p 4033 125p 4033 125p 4033 110p 4038 290p 4040 4007 4044 404 4044 404 4044 404 4044 404

 | ICM/2515 80p
ICM/2555 80p
ICM/2 | NE566 1209
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NE571 4009
NE552 3100
NE5534 1409
NE5534 1409
NE5534 1409
NE55347 125
PLL02A 5009
NE55347 125
NE55347 125
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SAA 1900 £16
SAD 1024A
SAD 1024A
SAD 1024A
SAD 1024A
SAD 1024
SAD 1024A
SAD 1000
SAD 10000
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 | 2n1140/e 270/e 27N4134 250/e 27N4234 850/e C102C 14/e 8C109C 14/e 8C109C 14/e 8C109C 14/e 8C172 12/e 8C172 12/e 8C172 12/e 8C172 16/e 8C184 11/e 8C187 30/e 8C237 16/e 8C337 16/e 8C431 25/e 8C441 25/e 8C477 40/e 8C548C 12/e 8C548C 12/e 8C549C 16/e 8C5578 14/e 8C570 16/e 8C470 18/e | 14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY56 33p
BFY90 80p
BFY90 80p
BU730 245p
BU105 190p
BU108 250p
BU108 250p
BU108 250p
BU108 250p
BU208 200p
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MJ3001 2255
S90p
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MJ3 | 0 pin 18p 28 pin
2 pin 22p 40 pir
11P38C 1540
11P38C 1540
11P41A 50p
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11P42A 60p
11P42 280p
11P121 75p
11P121 75p
11P122 80p
11P121 75p
11P122 80p
11P142 120p
11P142 120p
11P425 78p
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21X502 15p
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21X552 57p
21X552 | 26p 14 pin 30p 16 pin 16 pin 16 pin 2N3773 200p 2N3819 20p 2N38319 20p 2N3823 30p 2N3866 90p 2N3904 15p 2N4305 16p 2N4305 16p 2N44123/4 27p 2N44123/4 27p 2N4425(6 27p 2N4425(6 27p 2N4427 90p 2N5087 27p 2N5191 90p 2N5453 30p 2N5455 30p 2N5455 30p 2N5675 250p 2N6525 30p 2N6552 30p 2N6552 30p 2N6552 30p 2N6552 30p 2N6552 30p 2N6552 325p
 | 42p 20 pin 6
45p 22 pin 7
DIODES
BY127 12p
BYX36300 20p
OA47 8
BYX36300 20p
OA47 8
DA200 3p
OA202 10p
IN914 4p
IN914 5p
IN4003/2 5p
IN4005 5p
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IN4005 5p
IN5005 5p
IN5007 2p
IN500 5p
IN500 | 28 in 100p 28 in 130p TRIACS PLASTIC 3A 400V 60p 6A 500V 80p 8A 400V 70p 9A 500V 80p 12A 500V 105p 16A 500V 130p 12A 500V 130p 12A 500V 130p 12A 600V 130p 12C 26D 630p 1102p 11C 226D 75p 11C 246D 11C 240D 130p 112A<400V |
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 | 0 40p 50p 50p 1 50p 0 40p 2 50p 0 40p 2 50p 0 40p 1 75p 3 90p 14 3 15 300p 14 3 143 300p 143 300p 151 180p 151 180p 151 180p 151 180p 153 180p 153 180p 154 250p 155 320p 153 300p 155 300p 155 300p 155 300p 156 300p 157 300p 158 300p 159 300p 160 450p

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ICM/2555 80p
ICM/2555 80p
ICM/2556 140p
ICM/2557 110p
IF333 95p
IF3567 110p
IF333 150p
IM310 220p
IM310 220p
IM310 2215p
IM3310 120p
IM310 120p
IM318 150p
IM318 150p
IM328 140p
IM338 40p
IM338 40p
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27NA134 223
27NA234 8500
FRANSUTORS
AD161/2 45p
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BC107/8 13p
BC1082 12p
BC172 12p
BC172 12p
BC173 15p
BC182 11p
BC182 11p
BC182 10
BC184 11p
BC182 10
BC214 12p
BC237 16p
BC327 16p
BC338 16p
BC347 18
BC337 16p
BC347 16p
BC3 | 14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY56 33p
BFY90 80p
BFY90 80p
BU102 225p
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BU200 | 0 pin 18p 28 pin
2 pin 22p 40 pin
11P38C 1940
11P41A 50p
11P41C 55p
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11P42C 65p
11P42C 65p
11P42C 65p
11P121 75p
11P121 75p
11P122 80p
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11P122 80p
11P125 78p
11P425 78p
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21P452 55p
21X502 15p
21X502 15p
21X552 55p
21X552 55
 | 20p 14 pin 30p 16 pin 2N3773 200p 2N3819 20p 2N3819 20p 2N3823 30p 2N3826 90p 2N3904 15p 2N4035 65p 2N4036 65p 2N4036 65p 2N4036 65p 2N4036 65p 2N4036 65p 2N4036 50p 2N4037 50p 2N4037 50p 2N4037 50p 2N4037 50p 2N4037 50p 2N5087 27p 2N5172 27p 2N5172 27p 2N5459 30p 2N5245 40p 2N5375 250p 2N5027 30p 2N6558 325p 2N6524 30p 2N6525 30p 2N6524 30p 2N6525 320p | 42p 20 pin 6
45p 22 pin 7
DIODES
BY127 12p
BY127 12p
BY326300 20p
OA47 8p
OA300 3p
OA302 10p
INS16 7p
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INS16 4p
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INS067 7p
INS067 7p
INS077 7p
INS | 28 pin 100p 28 pin 100p 40 pin 130p TRIACS 2000 28 pin 100p A 400 pin 30p 84 400V 70p 6A 500V 80p 8A 400V 70p 9A 500V 85p 9A 400V 95p 12A 400V 85p 12A 400V 105p 16A 400V 100p 1102 pic 660 1102 pic 100p 1104 pic 100p 12A 400V 45p 8A 400V 160p 16A 400V 160p 16A 400V 160p 16A 400V 180p 200505 130p 2005060 32p 2005061 32p |
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2005 74657555 | 45p /45i 45p 74S1 42p 74S2 30p 74S2 50p 74S3 50p 74S1 40p 74S1 100p 74S1 100p 74S1 100p 74S1 100p 74S1

 | 0 40p 50p 50p 1 50p 2 50p 40p 40p 2 50p 40p 40p 2 50p 60p 60p 2 90p 1 75p 4 300p 22 10p 32 360p 23 60p 23 180p 23 180p 23 180p 24 300p 25 20p 33 300p 34 300p 35 300p 35 300p 36 500p 75 650p 75 60p 30p 32p 320p 55 500p 50p 75 650p 75 650p 75 650p 75 650p <td>4016 400p 4017 32p 4018 46p 4019 25p 4020 48p 4021 40p 4022 46p 4022 46p 4022 46p 4022 46p 4022 46p 4026 80p 4026 80p 4028 40p 4028 40p 4030 15p 4033 125p 4036 275p 4038 10p 4038 10p 4043 40p 4044 40p 4044 40p 4044 40p 4044 40p 4044 40p 4044 40p</td> <td>ICM/2555 80p
(CM/2555 80p)
(CM/2555 80p</td> <td>NE566 1200
NE566 1559
NE567 1400
NE570 4109
NE570 4109
NE570 4109
NE582 800
NE5833 100
NE5834 100
NE5834P 120
NE5834P 120
St668 2250
SAA1300 1150
St76438 4800
SN76438 4800
SN7648 4800
SN7648</td> <td>2n1140/e 270 2nA1134 223 2nA134 253 2nA234 8500 TRANSUCRS 32 2nA234 8500 TRANSUCRS 35 8C109C 12 8C107/8 139 8C108C 12 8C172 120 8C177 16 8C184 119 8C184 119 8C184 119 8C212/3 109 8C212/3 109 8C237 159 8C327 169 8C431 129 8C441 129 8C4542 129 8C4548 129 8C4548 129 8C4548 129 8C4548 129 8C471 2800 8C471 2800 8C471 2800 8C471 2800 8C471 2800 8C471 800</td> <td>14 pin 10p 2
16 pin 11p 2
BFY50 24p
BFY51/2 24p
BFY55 33p
BFY90 80p
BFY90 80p
BHY39 45p
BKY39 45p
BKY39 45p
BU105 190p
BU108 225p
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BU108 2250
BU109 2250
BU208 200p
BU208 200p
MJ208 20</td> <td>0 pin 18p 28 pin
2 pin 22p 40 pin
11P36C 1540
11P36C 1540
11P41A 50p
11P41A 50p
11P41A 50p
11P42A 60p
11P42A 60p
11P42C 65p
11P120 75p
11P121 75p
11P121 75p
11P121 75p
11P122 80p
11P142 120p
11P142 120p
11P142 120p
11P142 120p
11P425 70p
11P33 30p
VN86AF 90p
VN86AF 90p
VN86AF 10
27X300 13p
27X302 13p
27X303 13p
27X302 13p
27X303 13p
27X303</td> <td>20p 14 pin 30p 16 pin 16 pin 16 pin 2N3773 200p 2N3819 20p 2N38319 20p 2N3823 30p 2N3804 10p 2N3904 15p 2N3904 15p 2N4056 65p 2N4125/6 27p 2N44123/4 27p 2N4425/6 27p 2N4427 90p 2N5062 27p 2N5082 27p 2N5082 27p 2N5172 27p 2N5172 27p 2N5173 30p 2N5459 30p 2N5455 25p 2N5675 250p 2N5675 250p 2N5675 20p 2N5675 20p 2N5675 20p 2N5675 20p 2N5675 20p 2N5675 20p 2N5675 2</td> <td>42p 20 pin 6
45p 22 pin 7
DIODES
BY127 12p
BY127 12p
BY127 12p
DA45 3p
OA47 8p
OA46 3p
OA46 3p
OA46 3p
OA20 10p
1N914 4p
1N914 4p
1N914 4p
1N403/4 5p
1N4003/4 5p
1N4003/4 14p
1N5403/4 14p
1N5403/7 19p
1S920 9p</td> <td>28 pin 100 pin 28 pin 100 pin TRIACS PLASTIC 3A 400V 60p 6A 500V 80p 8A 400V 70p 9A 500V 80p 8A 400V 95p 12A 500V 105p 12A 400V 81p 12A 500V 105p 12A 400V 80p 11C 206D 75p 11C 206D 75p 11C 206D 100V 180p 16A 400V 16A 400V 180p 16A 100V 180p 16A 300V 180p 16A 500K 30p 2N5065 3</td> | 4016 400p 4017 32p 4018 46p 4019 25p 4020 48p 4021 40p 4022 46p 4022 46p 4022 46p 4022 46p 4022 46p 4026 80p 4026 80p 4028 40p 4028 40p 4030 15p 4033 125p 4036 275p 4038 10p 4038 10p 4043 40p 4044 40p 4044 40p 4044 40p 4044 40p 4044 40p 4044 40p

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21×4502 159 21×452 459 21×552 559 21×452 459 21×452 459 21×552 559 21×552 559 <td>20p 14 pin 30p 16 pin 16 pin 16 pin 2N3773 200p 2N3819 20p 2N3820 30p 2N3866 90p 2N3904 15p 2N3906 16p 2N4395 65p 2N44056 65p 2N44256 27p 2N44256 27p 2N44256 27p 2N44257 30p 2N590 2N5427 2N5425 30p 2N5459 30p 2N5658 325p 2N5658 325p 2N5658 30p 2N5658 30p 2N5658 30p 2N5659 100p 2N5658 30p 2N5658 30p 2N5657 90p 2SC2028 30p 2SC2028 30p 2SC2028 30p 2SC201869 150p 2SC201869</td> <td>42p 20 pin 6 45p 22 pin 7 Clodes 7 7 BY127 12p 8y 0A30 8p 7 OA35 9p 0A36 0A35 9p 0A320 0A31 7 10 0A320 10p 118114 1N316 7p 1184148 1N4003/4 6p 118914 1N4003/4 14p 1184003/1 1N5403/5 14p 1N5403/4 14p 1N5404/7 19p 1N5302 9p 1N5403/3 14p 1N5403/3 <</td> <td>28 pin 100 28 pin 100 28 pin 100 TRIACS PLASTIC 3A 400V 60p 6A 500V 80p 8A 400V 75p 28 adot 75p 9A 500V 85p 8A 400V 95p 12A 300V 85p 9A 500V 105p 12A 300V 105p 12A 300V 105p 12A 300V 105p 12A 500V 105p 12A 400V 100p 12A 400V 180p 12A 400V 180p</td> | 20p 14 pin 30p 16 pin 16 pin 16 pin 2N3773 200p 2N3819 20p 2N3820 30p 2N3866 90p 2N3904 15p 2N3906 16p 2N4395 65p 2N44056 65p 2N44256 27p 2N44256 27p 2N44256 27p 2N44257 30p 2N590 2N5427 2N5425 30p 2N5459 30p 2N5658 325p 2N5658 325p 2N5658 30p 2N5658 30p 2N5658 30p 2N5659 100p 2N5658 30p 2N5658 30p 2N5657 90p 2SC2028 30p 2SC2028 30p 2SC2028 30p 2SC201869 150p 2SC201869 | 42p 20 pin 6 45p 22 pin 7 Clodes 7 7 BY127 12p 8y 0A30 8p 7 OA35 9p 0A36 0A35 9p 0A320 0A31 7 10 0A320 10p 118114 1N316 7p 1184148 1N4003/4 6p 118914 1N4003/4 14p 1184003/1 1N5403/5 14p 1N5403/4 14p 1N5404/7 19p 1N5302 9p 1N5403/3 14p 1N5403/3 < | 28 pin 100 28 pin 100 28 pin 100 TRIACS PLASTIC 3A 400V 60p 6A 500V 80p 8A 400V 75p 28 adot 75p 9A 500V 85p 8A 400V 95p 12A 300V 85p 9A 500V
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 | ICM/251/756 Bop ICM/2555 80p ICM/2557 40p ICM/2577 50p ICM/3081 75p ICM/318 150p ICM/324 90p ICM/324 90p ICM/3352 40p ICM/345 120p ICM/345 120p ICM/385 90p ICM/385 120p ICM/385 100p ICM/385 100p ICM/385 100p ICM/385 100p ICM/385 100p <td>NES66 1209 NES66 1559 NES66 1559 NES67 400p NES62 800p NES52 800p NES53 400p NES53 100p NES533 100p NES5334P 110p NES534P 120p RC4136 500p RC4136 500p SK668 225p SAA1900 1150p SN76485 4800p SN76485 400p SN76485 400p SN76485 400p NA7130 150p TA7204 150p TA7205 90p TA7205 90p TA7301 150p TA2222 150p TA2303 250p TC4310 250p TC4310 250p TC4310 175p TC4310 175p TC4310 175p TC4310<td>Initiade Error ZinAlad 203 BC107/2 13p BC108/2 12p BC177/8 13p BC184 11p BC184 11p BC187 30p BC212/3 11p BC187 13p BC212/3 11p BC184 12p BC237 15p BC237 15p BC417 25p BC418 25p BC417 40p BC428 12p BC417 40p BC418 40p BC419 40p BC419 40p BC419 40p BC414 60p</td><td>14 pin 10p 23 16 pin 11p 2 16 pin 11p 2 16 pin 11p 2 BFY50 24p BFY55 33p BFY56 33p BFY56 33p BFY56 33p BFY56 33p BFY56 33p BH739 45p BU102 225p BU103 225p BU126 150p BU208 200p MJ23051 225p MJ3001 225p MJ23051 30p ML26305 30p ML26305 70p MP5A43 50p MPSA43 50p MPSA42 50p MPSA43 50p MPSA43 50p</td><td>0 115.0 28 116 2 111.2 240 111.0 111.9 15.0 40 111.0 111.9 15.0 15.0 111.0 111.9 15.0 15.0 111.0 111.9 15.0 15.0 111.0 111.9 15.0 15.0 111.0 111.1 75.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 111.1 12.0 13.0 12.1 111.0 12.1 13.0 12.1 112.1 13.0 12.0 13.0 1131.1 13.0 13.0 13.0 1131.1 13.0 13.0 13.0</td><td>26p 14 pin 30p 16 pin 16 pin 16 pin 2N3773 200p 2N3819 20p 2N38319 20p 2N3823 30p 2N3866 90p 2N3904 15p 2N3906 16p 2N3906 16p 2N4056 65p 2N4123/4 27p 2N44267 90p 2N4427 90p 2N4427 90p 2N4427 90p 2N5062 27p 2N5075 20p 2N5459 300p 2N5459 300p 2N5457 20p 2N5457 20p<!--</td--><td>42p 20 pin 6 45p 22 pin 7 DIODES By127 12p By127 12p 0A30/91 3p 0A45 5p 0A200 20p 1N916 7p 1N4148 4p 1N416 7p 1N4003/4 5p 1N4003/4 5p 1N4003/7 12p 1N4003/4 5p 1A006/7 12p 1N4003/4 14p 1N5403/4 14p 1N5403/7 12p 1N5403/4 14p 1N5403/7 12p 1N5403/7 12p 1N5403/7 12p 1N5403/7 12p 1N5403/7 14p 1N5403/7 14p 1N5403/7 14p 1N5403/7 14p 1N5403/7 19p 15920 9p 1A 100V 20p 1A 00V 20p 1A 100V 20p 1A 00V 3p 200 3p 200 3</td><td>28 pin 100 28 pin 100 TRIACS PLASTIC 3A 400V 60p 6A 500V 80p 8A 400V 95p 12A 500V 95p 12A 500V 95p 12A 500V 105p 12A 500V 180p 16A 100V 180p 2N5061 32</td></td></td> | NES66 1209 NES66 1559 NES66 1559 NES67 400p NES62 800p NES52 800p
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MULLARD SPEAKER KITS

Purposefully designed 40 watt R.M.S. and 30 watt R.M.S. 8 ohm speaker systems recently developed by MULLARD's specialist team in Belgium, Kits comprise Mullard woofer (8° or 5°) with foam surround and aluminium voice coil Mullard 3° high power domed tweeter. B.K.E. built and tested crossover based on Mullard circuit, combining low loss components, glass fibre board and recessed loudspeaker terminals. SUPERB SOUNDS AT LOW COST, Kits supplied in enclantume oacher complete with increasing in polystyrene packs complete with instructions. 8" 40W system - recommended cabinet size 240

* 40W system - reserved * 216 × 445mm Price £14,90 each + £2,00 P & P. Price £14,90 each + £2,00 P & P. 5" 30W system — recommended 160 × 175 × 295mm Price £13.90 each + £1.50 P 8 P

Designer approved flat pack cabinet kits, including grill fabric, Can be finished with iron on veneer or self adhesive vinyl etc. 8° system cabinet kit 80.00 each + £2.50 P & P. 5° system cabinet kit 67.00 each + £2.50 P & P.

STEREO CASSETTE TAPE DECK MODULE

DECK MODULE Comprising of a top panel and tape mechanism coupled of a record/byb back printed board assembly. Supplied as console of own choice. These units are brand new, ready built and tested. Features: Three digit tape counter, Autostop, Sik plano type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, rewind, fast forward, play, stop and type keys, record, regular during the play and scorest type type black and silve finst. Supplied complete with forcur diagram and scorest type transformer, bridge rectifier and smoothing capacitor 1300

LOUDSPEAKERS POWER RANGE

LOUDSPEAKERS POWER RANGE THREE QUALITY POWER LOUD-SPEAKERS (15:12" and 8" See Photo: Ideal for both Hi-Fi and Disco applica-tions, All units have attractive cast alu-ninum (ground finish taxing excutcheons Specification and Prices. 15" 100 watt R.M.S. Impedance 8 ohms. 50 oz magnet 2" aluminium voice coil Res. 57 dB Price (34:00 each + (3:00 P&P) 12" 100 watt R.M.S. Impedance 8 ohms. 50 oz magnet 2" aluminium voice coil Res. 56 dB, Freq. Resp. to 2 5KHz. Sens. 56 dB, Freq. 24:30 each + (3:00 P&P) 12" 100 watt R.M.S. Impedance 8 ohms. 50 oz magnet 1," aluminium voice coil Res. 57 dB Arter (24:50 each + (25:00 P&P) 8" 50 watt R.M.S. Impedance 8 ohms. 20 zm agnet 1," aluminium voice coil Res. 57 dB, Alex Cone, Price: (25:00 each Also ovailable with black protective grille Price: 29 99 each P&P (1:50.

carriage

TYPE C

TYPE 'E

12" 85 watt R.M.S. McKENZIE C1285GP (LEAD GUITAR, KEYBOARD, DISCO) 2' 12 By Watt R.M.S. MCKENZIE C1285GP (LEAD GUITAR, KEYBOARD, DISCO) 2 aluminium voice coil, aluminium centre dome, 8 ohm imp., Res. Freq. 45Hz., Freq. Resp. to 6.5KHz, Sens, 98dB. Price: £23.00 + £3 carriage. 12" 85 watt R.M.S. MCKENZIE C1285TC (P.A., DISCO) 2" aluminium voice coil. Twin cone 8 ohm imp., Res. Freq. 45HZ, Freq. Resp. to 14KHz. Price £23 + £3 carriage. 15" 150 watt R.M.S. MCKENZIE C15 (BASS GUITAR, P.A.) 3" aluminium voice coil. Die cast chassis. 8 ohm imp., Res. Freq. 40Hz., Freq. Resp. to 4KHz. Price: £47 + £4 carriage.

PIEZO ELECTRIC TWEETERS MOTOROLA

TYPE 'P

Join the Piezo revolution. The low dynamic mass (no voice coil) of a Piezo tweeter produces an improved transient response with a lower distortion level than ordinary dynamic tweeters. As a crossover is not required these units can be added to existing speaker systems of up to 100 watts (more if 2 put in series). FREE EXPLANATORY LEAFLETS SUPPLIED WITH EACH TWEETER.

TYPE 'D'

TYPE 'A" (KSN2036A) 3" round with protective wire mesh, ideal for bookshelf and medium sized Hi-fi speakers. Price £4,29 each. TYPE 'B' (KSN1005A) 31: " super horn For general purpose speakers, disco and P A systems etc. Price £4.99 each.

TYPE C (KSN6016A) 2th 5 wide dispersion horn. For quality Hilf systems and quality discosletc. Price £5.99 each.

TYPE 'D' (KSN1025A) 2' * 6' wide dispersion norn. Upper frequency response relained extending down to mid range (2KHz). Suitable for high quality. Hi fi systems and quality discos. Price £7,99 each.

TYPE 'E' (KSN1038A) 3% " horn tweeter with attractive silver finish trim. Suitable for H monitor systems etc. Price £4.99 each. TYPE 'F (KSN1057A) Cased version of type

'E' Free standing satellite tweeter Perfect add on tweeter for conventional loudspeaker Price f10 75 each P&P 20p ea. (or SAE for Piezo leaflets).



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Audio Equipment Test Equipment

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Thandar

and

Leader

3 watt FM

and value. Ported tuned cabinet in hard-wearing black vynide with protective corners and carry handle. Built and tested, employing 10in British driver and Piezo tweeter. Spec: 80 watts RMS; 8 ohms; 45Hz-20KHz; Size: 20in x 15in x 12in; Weight: 30 pounds.

Price: £49.00 each £90 per pair Carriage: £5 each £7 per pair

HOBBY KITS. Proven designs including glass fibre printed circuit board and high quality components complete with instructions.

FM MICROTRANSMITTER (BUG) 90/105MHz with very sensimicrophone. Range 100/300 metres. 57 x 46 x 14mm (9 volt) Price: £7.990

DIGITAL THERMOMETER -9.9°C to +99.9°C, LED display. Com-bete with sensor, 70 x 70 mm (9 volt) Price: £27.60p 3 WATT FM TRANSMITTER 3 WATT 85/115MHz varicap con-trolled professional performance. Range up to 3 miles 35 x 84 x 12

Holth Price: £12,49p SINGLE CHANNEL RADIO CONTROLLED TRANSMITTER/

RECEIVER 27MHZ Range up to 500 metres. Double coded mod-ulation. Receiver output operates relay with 2amp/240 volt contacts. Ideal for many applications. Receiver 90 x 70 x 22 mm 9/ 12 volt. Price: £16.49 Transmitter 80 x 50 x 15 mm (9/12 volt) Price £10.29 P&P All Kits +50p. S.A.E. for complete list.

BSR P256 TURNTABLE

BSR P206 TURN TABLE P256 termshie chassis © S shaped tone arm © Belli driven © Aluminium platter © Precision calibrated counter balance © Anti-skare (bias device) © Damped cuelino lever 240 yoli AC operation (Hz) © Cut-out remplate supplied © Completely manual arm and is designed primarily for disco and studio use where all the advantages of a manual arm are required

required. Price £31.35 each. £2.50 P&P



New model.

NEW OMP100 Mk. II POWER AMPLIFIER MODULE Power Amplifier Module complete with inlegral heat sink, toroidal transformer power supply and glass fibre pob. assembly. Incorporates drive circuit to power a compatible LED Vu meter. New improved specification makes this amplifier ideal for P.A. Instrumental and Hi-Fi applications. SPECIFICATION

And Hi-Fi applications SPECIFICATION Output Power:- 110 watts R.M.S. Loads:- Open and short circuit proof 4/16

ohms onms. Frequency Response:— 15Hz - 30KHz -3dB. T.H.D.:— 0,01%. S.N.R. (Unweighted):— -118dB ±3.5dB

Improved specification MOSFET versions available up to 300W. R.M.S.

HOME PROTECTION SYSTEM Better to be 'Alarmed' then terrified. Thandar's famous 'Minder' Burglar Alarm System.

Thandar's famous 'Minder' Burglar Alarm System. Superior microwave principle. Supplied as three units, complete with interconnection cable. FULLY GUARANTEED. Control Unit – Houses microwave radar unit, range up to 15 metres adjustable by sensitivity control. Three position. key operated facia switch – off – test – armed. 30 second exit and entry delay. Indoor alarm – Electronic swept freq siren. 104dB output.

104dB output. Outdoor Alarm — Electronic swept freq. siren, 98dB output. Housed in a tamper-proof heavy duty metal

case. Both the control unit and outdoor alarm contain re-chargeable batteries which provide full protection during mainstailure. Power requirement 200/260 Volt AC 50/60Hz. Expandable with door sensors, panic buttons etc. Complete with instructions SAVE £128 Usual price £228.85

BKE'S PRICE £99.p&p£4 SAE for colour brochure





MIXERS DISCO

OMP PRO MIX MONO

OMP PROMIX MONO DISCO MIXER (As illustrated), 4 Inputs: -2 Mag. Disc. 1 Aux plus Mic. with override. Active bass and treble tone cont's. Individual level controls plus master volume. Monitor output (headphone) to rail inputs. Cutput: 775mV Supply 240Vac. Size: 19" x 54" x 24" Price: £49.99 ±£2.00 P&P

ALSO Stereo Version as above price £69.99 +£2 p&p

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Rapid Electronics

MAIL ORDERS: Unit 1, Hill Farm Industrial Estate, Boxted, Colchester, Essex CO4 5RD. TELEPHONE ORDERS: Colchester (0206) 36412.

VISA

ACCESS AND BARCLAYCARD WELCOME

LINEAR LM339 40 LM3911 120 NE566 140 TL064 96 ESCMOS 80 (CL7106 680 LM377 170 LM3815 225 PNE570 300 TL071 300 ESCMOS 80 (CL7621 180 PLM380 75 MC1496 68 PRC4155 55 TL074 96 741 14 ICL7621 180 PLM382 120 PMF10CH 350 SL480 170 TL082 45 V3-3810 270 ICL7241 786 90 ML924 195 SL76018 150 LA2203 70 V3-3810 700 ICL7245 786 90 ML924 162 140 FB427 250 LL0203 70 V3-3810 700 ICL7245 786 ML924 195 SL76018 250 LL0203 70 V3-3810 270 ICL725 S60 ML927 140 TB4237 140	CABLES CABLES Capacity register and ifferent colours. 75p Standard screened
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VELLEMAN KITS	Some are easy some are hard
No Description Price K610 Mono UU using LEDS 10.05 W K1798 Stereo UU using LEDS 18.77 W K1874 Running Light Kit 14.95 W K2571 Light Computer with EPROM 38.23 W K2569 Three Tone Chime 8.57 W K2575 Microprocessor Doorbell 25 tunes 15.53 W K2544 Complex Sound Generator 10.26 K K2032 Digital Panel Meter 16.61 K K2557 Digital Thermometer 26.57 K K2555 SOH2 Crystal Time Base 12.00 K K615 High Precision Stopwatch 50.21 C CALL IN AT OUR SHOP AND SEE DISPLAYS CALL IN AT OUR SHOP AND SEE DISPLAYS C	We STOCK A WIDE ANGE OF BOXES O HOUSE THESE KITS IN. FROM VERY SMALL TO VERY LARGE 19" MAXIMUM No 11.16 K2543 Transistor Ignition 11.16 K2543 Transistor Ignition 45.40 K2565 Digital Freq Counter for Receivers 45.40 K2572 Universal Stereo Pre-Amplifier 6.56 VERY LARGE K2574 Universal 4 Digit U/D counter with memory 44,72 Y27 Electric Motor Speed Control 11.17 K2579 Universal Start/Stop Timer 7.45 NCLUDE VAT K2580 Electronic Power Suitch Dimmer 81.45 K2580 Electronic Power Switch Dimmer 12.37 K2551 Central Alarm Unit 15.48
This unit will make your TV fully remote control untra-red and onny you closer to the a this can give you full message facilities for ordering toods or sending and receiving With a microcomputer as an alternative keyboard the world is even greater ad personal computer. Even without the Prestel option, Telesoftware from the Telerext pages free! The full reatures of Teletext, incl An attractive stylish case is	amazing world of feletext. The kit can also be updated to incorporate full Prestel, and with a keyboard g messages (E.G.) Booking your Holidays! dding bulk updating to viewdata computers an receiving telesoftware for implementation to any luding subtitles are all included in the basic kit. s available to complement the finished kit. Basic Teletext Kit (no box) £130 + VAT P/P £2.50 with box £144.95 + VAT P/P £3.00 box by itself £14.95 + VAT P/P 75p
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FOR THE TRUE ELECTRONICS ENTHUSIS Cunard International Exhibition Co. November 25, 26th, 27	R Soldering Irons Iso-tip Cordless Iron 31-90+ AST XS25 25W 5.46+ CX 17W 5.30+ soldering station 13.95+ CV 15W 5.20+ Oryx50 50W temp controlled 15.50 CCN 15W 5.00+ Oryx super 30 5.90+ AST wide range of bits and elements in stock now. Soldering iron stand 2.40 All irons are 240V mains. Earth Leakage current is less than 3 ua. Tth We stock multicore solder for normal use or fine. The temperature controlled iron can be controlled within ± 2% temperature range from 200°C to 400°C.
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Z80A 3.20 Spectrum E.C. 3.78 Z80A PIO 3.20 VIC 20 E.C. 3.78 Z80A CTC 3.20 S0 Way E.C. 3.30 6800 6.50 18 Way E.C. 2.80 6810 3.00 64 Way E.C.Plug 2.50 6821 4.25 64 Way E.C. Socket 4.60 6502CPU 7.50 31 Way E.C.Plug 2.00 2114(200ns) 1.80 31 Way E.C.Socket 2.10	"New Books Please Note: Books are VAT exempt but add £1.00 to cover P/P A-Z Transistor Eduivalent book (2 Volumes) 9.50 The 9900 Family Data Book 10.00 The Opto-Electronics Data Book 4.00 The Electronics Data Book 4.50 The Interface Circuits Data Book 7.00 The Interface Circuits Data Book 8.50
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AUDIO DESIGN

This month, audio design reaches the seat of the mystique surrounding the whole topic of audio amplifiers — the design of the power section. In true ETI fashion, we intend to boldly separate fact from fiction, truth from fantasy, and infinitives from their verbs!

VECTORGRAPHICS

There is an alternative to using a raster-scanned display — that of using vectors drawn across the screen directly. Phil Walker has produced a system for experimenters to play with, using a ZX81.

EPROM PROGRAMMING

We were so overwhelmed with requests for photocopies of the assembler listing for the EPROM programmer published in our August issue that we asked Mike Bedford to produce some notes on how to interconvert the program for other home computers. We'll be published this, along with the listing for the benefit of the very few of our readers who have not already requested it from us!



CHORUS/FLANGER

This project is designed by Tim Orr — who has absented himself from our pages for a while, but has recently learned better. It's for a chorus/flanger unit that can be used with guitar, bass guitar, high-output microphone, keyboards, or, in fact, almost anything that you can attach to a jack-plug.



LOOK OUT FOR THE JANUARY ISSUE ON SALE DECEMBER 2nd

Articles described here are in an advanced state of preparation. However, circumstances may dictate changes to the final contents. ETI DECEMBER 1983

BUILD YOUR OWN 16 bit, 64K RAM colour computer

With this powerful machine (featured in Electronics Today International as a constructional project) you have access to highly advanced systems and software developed specially by MPE Ltd for the CORTEX. For business, education, R & D – or simply increasing your knowledge and understanding of computers – it beats comparably priced off-the-shelf machines

hands down!

Standard features –

- High speed 24K byte extended basic interpreter
- Powerful TMS9995 16 bit microcprocessor
- 48 bit floating point gives 11 digit accuracy
- High resolution (256 x 192) colour graphics
- Screen memory does not use up user memory space
- 16 colours available on the screen together in graphic mode
- Fast line drawing and point plotting basic commands
- High speed colour shape manipulation from basic
- Full textual error messages
- String and Array size limited only by memory size
- Real time clock included in basic
- Interval timing with 10mS resolution via TIC function
- Named load and save of basic or machine code programs
- Auto-run available for any program
- Powerful machine code monitor
- Assembler and Disassembler included as standard
- Auto line numbering facility
- Full renumber command
- Simple but powerful line editor
- Buffered i/o allows you to continue executing the program while still printing
- Flexible CALL statement allows linkage to machine code routines with up to 12 parameters
- Basic programs may contain spaces between key words to make programs readable without using more memory
- Over 34K bytes available for basic programs
- Extended basic includes IF-THEN-ELSE
- Supports up to 16 output devices: Screen and cassette interfaces included as standard
- Supports bit manipulation of variables from basic
- Error trapping to a basic routine included
- Basic supports Hexadecimal numbers
- Separate 16K video RAM for graphics

STATEMENTS PRINT MAG TOF MWD RENUM TIME WAIT SAVE GRAPH LOAD TEXT MOTOR PLOT ESCAPE UNPLOT NOESC COLOUR RANDOM CHAR SNTER SPRITE SHAPE a WAIT BASE IJ 1 OG IF ELSE ON GOTO GOSUB POP TON COMMANDS # FUNCTIONS SUR MOD DIM LET DEF BND RUN SIZE CONT 1 UNIT BAUD FNA-FNZ ABS TIC SGN OPERATORS ADR ADR ASC ATN SIN NEW CALL MON BIT OR LOR FOR NEXT DATA END DELIMITERS S READ ENTER SPAIL RESTOR LIST SHAP RETURN PURGE SPUT STOP NUMBER SGET BIT AND CRB TO TAB MEM LAND NOT LNOT LXOR ERROR MEM STEP INPUT R LEN MCH Self assembly kit F 94 89-7 Ready built £395 All prices + VAT Carriage paid onal extras **Ready built** £9.20 RS232C interface kit CORTEX B – Basic machine + RS232C £65.50 Floopy disc interface £410.00 Pair of 512" disc drives and hardware kit £365.00 CORTEX C - as above + disc drives £895.00 Full assembly instructions and 216 page user's manual. **KAN** cybernetics Portway Industrial Estate, Andover SP10 3NM. Tel: 0264 64455 To POWERTRAN CYBERNETICS, Portway Industrial Estate, Andover, Hants SP10 3NM. Please send me_ or charge to: l enclose cheque for _____ Access/ Barclaycard A/C No. Name. Address_

ETI DECEMBER 1983

Tel.

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DIGEST



ZIL-Package 64K DRAMs

Mitsubishi Electric Corpora-tion has put on the market the first 64-kilobit dynamic random access memory (DRAM) in a 16-pin, zigzag in-line (ZIL) package for high-density installation.

The plastic-mold ZIL-package 64K DRAM is available in 120ns and 150ns versions, and is designed to achieve high-density installation at prices similar to those of existing plastic mold dual in-line package chips. The ZIL package measures 20.2 mm in length, 2.8 mm in width and 8.3

mm in height. Space required for installation is 56.6mm², about 47% of the space required for the company's existing dual in-line package chip.

Mitsubishi Electric plans to sell the new 64K DRAMs to makers of high-resolution graphic displays, mainframe computers and other products requiring high-density installation of chips. Mitsubishi Electric Corporation, 18th Floor, Centre Point, 103 New Oxford Street, London W2, tel 01-379 7160.



Home Made Bread?

f you're coming to Breadboard this year (what do you mean, if? - ED.) better make sure you have a hand free. You might be the lucky person who carries off A.B. Engineering's superb tool kit.

Worth over £100, the kit is supplied in a real leather wallet and is intended to supplement rather than duplicate your existing tool kit. Thus basic tools like a soldering iron, which it is assumed most constructurs will already possess, are not included but less frequently encountered tools like a desoldering gun and cut and bend tool are. With this lot plus your regular tool kit you should be in a position to make and repair just about anything.

Visitors to the show will be invited to place their name and address on a consecutively numbered pad. On Sunday afternoon a winner will be selected using an electronic random number indicator (vicious rumours which claim that we are actually planning to use the circulation figures of rival publications are simply not true — we can't have people squabbling over the lowest numbered sheets!).

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Exhibitors at Breadboard will be showing such diverse items as electronic organs, test equip-ment, books, kits, PCBs, components and much, much more. There will be demonstrations of robots and the opportunity to try out the latest in video games consoles, the CBS Colecovision. This is the game that has taken America by storm and received rave reviews after its appearance at America's largest computer show.

If all the flitting from exciting exhibit to even more exciting exhibit wears you out, you could do worse than to pay a visit to the lecture room. There you will not only have the chance to rest your weary feet but to expand your knowledge at the same time. The complete lecture programme is given below.

Finally, a reminder that the cost of admission to Breadboard will be £2.50 (but watch out for the 50p off vouchers in our ads) and the times are as follows:-Friday 25th November 10.00-6.00 Saturday 26th November 10.00-6.00

Sunday 27th November 10.00-4 00

Lecture Programme

Friday 25th November		
11.00 Electronics in Civil Aircraft Today	—	F. Ellson-Jones
12.00 Electronic Music	_	R. Watts
13.00 Soldering — A Neglected Art?	_	R. I. Cato
14.00 Holography - Practically There		A. Pepper
15.00 Add-ons for Microcomputers	_	O. Bishop
16.00 Designing and Making Printed Circuits	-	K. E. Tippey
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Saturday 26th November		
11.00 Soldering - A Neglected Art?	_	R. I. Cato
12.00 Electronics in Civil Aircraft Today		F. Ellson-Jones
13.00 Holography — Practically There		A. Pepper
14.00 Add-ons for Microcomputers		O. Bishop
15.00 Electronic Music	_	R. Watts
16.00 Successful Project Design	_	A. Armstrong
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1.00 Gateway to Electronics	—	D. Bradshaw
2.00 Add-ons for Microcomputers	—	O. Bishop
3.00 Designing and Making Printed Circuits	-	K. E. Tippey
4.00 Electronic Music	_	R. Watts
5.00 Successful Project Design		A. Armstrong
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Autoranging DMM

The new VR-3500 series of hand-held autoranging digital multimeters from Hitachi include temperature measurement among their wide range of functions. Models VR-3510 and VR-3525 have built-in scaling and cold junction compensation for standard K type thermocouples. Surface mounting and protector tube probes working over the range -20 Cto +700 Care available from Hitachi, but any K type thermocouple can be used including low-cost bead types.

The VR-3500 series features manual or automatic range selection on voltage and resistance with manual ranging on current from 0.1uA up to 10 amps. Other facilites include a selectable continuity bleeper, a diode test range, and a data hold function. Three models are available with accuracies varying between 0.1% and 0.5%, and all share a common styling with a case which fits easily into the hand.

The Hitachi VR-3500 series is available ex-stock from Reltech Instruments and prices start at £82 plus VAT. Reltech Instruments, New Road, Stives, Cambs, tel 0480 63570.



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Molecular Electronics

Marconi Avionics Limited is to establish a Chair in Molecular Electronics, at the School of Industrial Science, Cranfield Insitute of Technology, and to support the research for five years.

Molecular Electronics, a term which was originally used to describe the development of organic materials with useful electrical properties, is now taken to cover a far wider field of materials and processes. One such organic polyvinylidene material is flouride (PVDF) which, combining the mechanical properties of a plastic and the piezo-electric properties of a crystal, can be used to great advantage in microphones and other pressure-sensitive devices. Many new potential applications for it are already beginning to appear.

Another important use of molecular material is in electrochromic displays, in which the movement of ions in an electrolyte changes the colour absorption at its surface. These can be developed for a great range of exciting new applications. One such might be as colour liquid crystal displays to replace the monochrome displays which are now in common use in digital watches.

Other fields of known interest at present include new and environmentally-stable materials for use instead of gelatin in new kinds of holographic optics, and germanium, the semi conductor material first used for making transistors and now an important part of modern thermal imaging systems.



Single-Chip CRT Controller

NCR Corporation has introduced a single-chip CRT display controller that can be mask programmed to provide a wide variety of special features and display modes.

Designated the NCR 7250 CRT Controller, it is designed to provide a well-defined interface block hetween standard microprocessors and microcomputers, and any CRT display. Mixed character and graphic modes, including mosaic and line graphics, are standard features. Nine internal registers are externally addressed to control all display features, including page scrolling, complete cursor-position control, and eight different screen attributes. These include blank screens, reverse video, video chop and enable cursor,

while field attributes include reverse video, blink, blank, video highlight graphics and underline.

The NCR 7250 can be used to display up to 80 x 25 characters with a character cell size of up to 9 x 12. All video signals and up to 240 characters are internally generated, and interleaved CPU access-cycles and auto incrementing address registers give it the ability to update or read a dedicated Video RAM at direct memory access (DMA) rates.

Designed to directly interface with a CRT monitor via the VSYNC and HSYNC outputs, an input clock signal and single RAM are all that is required to produce the video display output. NCR Limited, 206 Marylebone Road, London NW1 6LY, tel 01-388 8244.

Mini Seven-Segment Display

A new 0.3 inch (7.6 mm) sevensegment LED display available in standard red, high-efficiency red, yellow and green has been announced by Hewlett-Packard Company. Features such as bright, evenly lit segments, a low forward-drive current, a small, space-saving package and an attractive character front characterise these new HDSP Series displays.

Compared with HP's existing family of 0.3 inch LED displays, this new family requires up to 25% less current and can still be viewed at distances of up to 10 feet (3 metres). Increases of up to 50% in viewed brightness are possible when the displays are driven at typical drive currents of 5 and 10 mA, making them well suited for high ambient-light applications. The display package is 0.3 by 0.5 inches (7.62 by 12.7 mm) and is pin-for-pin compatible with Fairchild's FDN 35X/ 36X. Details from the Literature Section, Hewlett-Packard Limited, Eskdale Road, Winnersh, Wokingham, Berkshire RG11 5DZ, tel 0734 69662.

High Performance 16 bit ADC

Data Beta have announced a new high-speed analogueto-digital converter, the ZAD7402, which has a resolution of 16-bits with a relative accuracy of ± 0.0015% FSR and a typical conversion time of six microseconds (seven maximum).

Monotonicity is guaranteed and there are no missing codes over the operating temperature range of 0 to 70 C. The converter accepts inputs between +10Vand -10V or 0 and 10V and exhibits a differential linearity of ± 0.5 LSB with a temperature coefficent of only 0.8ppm/C. Offset drift is a low 1.5ppm/C and Output codes are binary, offset binary, and twos complement.

Contained in a compact 76 x 117×10 mm metal case which gives RFI shielding on six sides, the ZAD7402 runs from ± 15 V

A nower sup lack and consumes approximately 3.5W. Price for 25 off is \pounds 670 each and delivery is 4-6 weeks. Data Beta Limited, 23A Buckingham Avenue, Slough, Berkshire SL1 4QA, tel (0753) 7933/4.

250 Watt 30 MHz Transistor

Motorola has introduced the MRF448, a 250 Watt NPN transistor believed to offer the highest power currently available at this frequency. The device is intended for operation in the 30 MHz band with a 50 volt supply and features 14 dB (typ) of gain, 65% efficiency and intermodulation distortion of -33 dB (typ). It is designed primarily for high-voltage applications in high-power linear amplifiers and is said to be ideal for marine and base station equipment.

For further information readers should contact Motorola Ltd., European Literature Centre, 88 Tanners Drive, Blakelands, Milton Keynes MK145BP, tel 01-352 041 extn 34.

Long Wavelength Photo Diode

Hitachi Ltd have developed a new photo diode made of a compound of indium, gallium, arsenide and phosphorus. Employing a PIN structure, the HR1101 is sensitive to light in the wavelength range between 1.0 and 1.5 microns and has a maximum quantum efficiency of about 70%, an indication of its high sensitivity.

Reflecting recent needs for long-distance and large-volume data transmission, the technical trend has been toward the use of the 1.0 and 1.5 micron range where the transmission loss of an optical fibre is at a minimum. In this long wavelength range, the germanium avalanche photo diode has up to now been the only practical choice, but it is not sensitive or fast enough for applications which require higher performance and reliability because its dark current and noise rate are apt to be high and it requires a high supply voltage. The compound employed by Hitachi and the use of a planar structure with a window layer has made it possible to attain high quantum efficiency by protecting the electron-hole pairs generated by photons from disappearing in recombination, and to reduce the electrostatic capacitance, thus improving speed. The HR1101 has a dark current of 7 nA compared with 100-1000 nA for a germanium avalanche photo diode and operates on 5-10 V supplies compared with the germanium device's 30-40 V.

Hitachi says that these technologies help to increase not only the performance and reliability of the HR1101 but also its production yield. Hitachi Electronic Components (UK) Ltd, tel 01-861 1414.



ETI DECEMBER 1983

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Reels on Wheels

The latest thing for the 'discerning on-location recordist', so Marantz tell us, is this smart looking portable stereo cassette recorder. Designated the CP430, it and its little brother the CP230 replace the Superscope CD320 and CD330 machines which Marantz have been selling over here for some time.

The two new models are both smaller and lighter than their forbears, offer considerably in-creased battery life, and have been designed so that no knobs, switches or connectors protrude from the case, affording the maximum protection should they be accidentally dropped. They feature normal, chrome, and metal tape compatibility, fine bias control, speed variable by ± 5% memory rewind, illuminated VU meters, and the ability to monitor either channel independently through the built-in loudspeaker. Powering can be by dry batteries, an optional rechargeable battery pack, or from the mains using the adaptor supplied via the 4.5v input jack. Connecting the mains adaptor also charges the battery pack. Line input and output sockets are included so that they can be used with a domestic sound system, mixer etc.

The CP230 is a two head machine with both Dolby B and C noise reduction and costs £169.90 including VAT.

The CP430 has three heads, allowing off-tape monitoring, and has both Dolby B and dbx noise reduction. It costs £249.90 including VAT.

Optional extras include the EM 8 microphone and the RBD430 rechargeable battery pack, both at just under £30 inclusive. Both models come complete with the mains adaptor and a carrying case which incorporates a pocket for the microphone. Marantz Audio UK Ltd, 15-16 Saxon Way Industrial Estate, Moor Lane, Harmondsworth, Middlesex UB7 0LW, tel 01-897 6633.

ETI DECEMBER 1983

Hall Effect Devices

collowing our feature on Hall effect devices in the October issue, a number of companies and individuals have contacted us to ask where the ICs mentioned in the article can be obtained. The short answer is, almost nowhere. There seems to have been so little interest in Hall effect devices in the past that few suppliers have bothered stocking them at all, and those that do rarely offer more than one type. Let us hope that the interest generated by this article will improve matters advertisers please note!).

So where can you get Hall ICs? Farnell Electronic Components Limited of Canal Road, Leeds LS12 2TU, can supply the UGN3501M but they will only deal with industrial and professional customers. Watford Electronics, who advertise in our pages, can supply a device called the UGN3020T which is similar to the UGN3019T mentioned in the article and comes in the same package. Maplin stock three Hall ICs, two of them switches and one a linear device. None of them were mentioned in the article but you should find enough information in the Maplin catalogue to enable you to use them successfully.

If anyone out there knows of any other suppliers of Hall devices, especially ones who will deal directly with the public and who stock any of the devices mentioned in the article, please let us know and we will give them a mention in a future Digest.

Videotone Switch

Regular readers will remember that we reviewed the Videotone Minimax 2 speakers back in our September issue. At a press reception recently, they told us that they have already changed the speakers.

The new speakers are still called Minimax 2, although they're now produced in Hungary (the first 2s were made in the UK). The drive units are different, the material of the port is different, the connectors are different — in fact, the whole lot is made by the Videoton company in Hungary, which is a separate entity from Videotone Ltd of the UK.

Videoton claim that the two speakers are very similar indeed, and that any differences are to the favour of the newer version. They certainly sounded OK when driven by the super-fi set-up at the reception — although we didn't get a chance to compare them with the MK1 2s.

Also being launched were two new bookshelf-size speakers, imported from Hungary. The DB1312 is an even smaller two-way system, priced at £49.90 and a threeway system at £99.90 per pair.

To add to this, Videotone will be selling a new budget moving coil high-output cartridge; it's called the MC 88E and sells for £27.90. Also new, is a top-line MC cartridge with a Van den Hul stylus for £114.90, the MC87.

Videotone Ltd, 1st Floor, 55 North Street, Thame, Oxfordshire OX9 3BH; tel 0844-21 6929.



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Single gang 1K to 1M 32p each. Single gang 1K to 1M 32p each. Single gang 0p 25"x5" 110p 3.75"x37" 50p 25"x5" 110p	HARDWARE 4xT03 mounting 4xT066 mounting 5xT0126 bushes/v 10xT0220 bushes/v 10xT0220 bushes/v 20mm panel fusehc 4mm plugs 12p. 4 minals 30p. 3.5mm Phone sockets 15p. SPDT 68p. DPDT : 250V push to make switches. pcb term Slide switch 1A/250 BRAND NEV CP100 60 IC socket CP100 20 BC183/BI CP102 20 BC183/BI CP102 20 BC183/BI CP102 20 BC183/BI CP103 20 BC184/BI CP103 100 IN916 si CP105 100 IN916 si CP103 100 IN916 si CP112 100 C106D 400 CP125 5 LM317T II CP125 5 LM317T II CP125 5 LM317T II Adaption 100 for £20.3 LM317T IA/Ada, F for £21.100 for £1.00 enguire. IN914 swi 500 for £8.80.100 enguire. 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Miniature Position Sensor

and see

Honeywell has introduced a low cost version of its smallest, ceramic-packaged, Hall effect sensor. Consisting of an epoxycoated IC mounted on a 7.6 mm ceramic square, the 8SS has a temperature range from 0 to 50°C making it ideal for room temperature applications.

The 8SS has a two-state digital output and responds to variations in magnetic field, generated by approach and withdrawal of an external magnet. Small size and an operating frequency of 100 kHz make it extremely versatile. Applications include sensing of cam position, ignition timing, potentiomenters, tachometers and wherever a miniature sensor is needed. A linear output version is also available.

8SS devices are available for two voltage ranges: 4.5 to 5.5 V DC and 6 to 16 VDC, and output is either bipolar or unipolar current sink. Maximum operate magnetic field is +0.0025T Tesla, minimum release is -0.025T, and minimum differential is 0.004. Mounting and package options available include lead wires, solder pads only or variations on the standard PCB termination pins. The corners of the ceramic can be cropped to reduce the size of the package where space is at a premium.

Marconi Spins a New Yarn

M arconi Space & Defence Systems Limited has developed a novel solution to the problems traditionally encountered in producing electrical cable harnesses. Such work has previously been carried out on a peg board and has been timeconsuming and labour intensive.

The solution and the product, Marconiweave', is based on a unique adaptation of standard weaving machinery, and can meet the requirements for quality and reliability imposed by military standards. 'Marconiweave' allows a user to specify hybrid woven cables combining different types of construction - flat, multilayer and tubular - and to combine a wide range of different wire gauges and insulation factors. Many kinds of multicore cable may be specified including screened varieties, and any length can be woven into a flat cableform. The fact that 'Marconiweave, can also be woven in the form of a tube allows extra wires to pass through the centre and to accommodate other services such as small tubes carrying liquids or gases. Tubes and optical fibres can also be combined with wires in a flat ribbon and spacers can be inserted automatically to maintain a constant and controllable distance between wires.

Applications for 'Marconiweave' are foreseen in many areas of communications. especially those where the position of each wire relative to every other wire must be held constant. Further applications exist in the fields of computers, test equipment and many other installations involving large numbers of electrical connections. Marconi Space & Defence Systems Limited, West Avenue, Kidsgrove, Staffordshire, tel 07816 3501.

SHORTS

• A note of gloom to start the winter on. Business information company Dun & Bradstreet Ltd inform us that 562 electrical companies went into liquidation during the first nine months of this year, an increase of 11.5% over the same period last year. There were 72 bankruptcies in the industry in the same period and this represents a 9% increase on last year's figure.

• Have you been ripped-off? Inmac's new sprocket-hole reinforcer tape will repair damaged computer printout as well as protecting undamaged printout. Made of tough clear vinyl, it is simply cut to length and the prepunched holes aligned with those of the printout. Further information can be found in the free, full colour catalogue which is available from Inmac (UK) Ltd, Davy Road, Astmoor, Runcorn, Cheshire WA7 1QF, tel 09285 67551.

• Lloyd's Register of Shipping have produced a unique English/ Japanese dictionary of technical terms. Although aimed primarily at the shipbuilding industry, it covers a wide range with 5000 entries in 192 pages, and best of all, it's free. Lloyd's Register of Shipping, 71 Fenchurch Street, London EC3M 4BS, tel 01-709 9166.

• K.E. Developments have produced a range of printed circuit mounting DC-DC converters which offer a choice of regulated

and un-regulated fully isolated outputs from standard 5 and 12 volt inputs. the converters are available in 2.5 and 6 watt versions with efficiencies of 50% and 70% respectively and with outputs of $\pm 5v$, $\pm 12V$, $\pm 35V$, $\pm 180V$, and $\pm 240V$. K.E. Developments Ltd, The Mount, Toft, Cambridge CB3 7RL, tel 022 026 3532.

• Another useful address for everyone out there with a mutilated multimeter. Aughton Automation Ltd of 29 Woodward Road, Kirby Industrial Estate, Liverpool L337UZ, can repair and re-calibrate most electrical and electro-mechanical test equipment. Their telephone number is 051 548 6060.

Bring your Sinclair up to date with Glanmire Electronics' new Time Controller. Consisting of a battery backed up real time clock, it provides the computer with month, day, date, hours, minutes, and seconds and has eight programmable inputs and eight programmable outputs and an extension for the attachment of further peripherals. Available for the ZX81 at £34.50 and for the Spectrum at £38.50 direct from Glanmire Electronics Ltd, Westley House, Trinity Avenue, Bush Hill Park, Enfield EN1 1PH, tel 01-366 3245.

• Toolrange's Combi-Check is a hand-held combined voltage and continuity tester. It detects the presence of 6, 12, 24, 50, 110, 220, 380, and 660 V DC or up to 100 Hz AC, displaying the result on a row of LEDs, and will make

polarity and continuity tests at up to about 2M ohms. Operating from a 12V battery and with an input resistance of 660k, the Combi-Check is available from Toolrange Ltd, Upton Road, Reading, Berkshire RG3 4JA, tel 0734 29446.

• The Institution of Electrical Engineers are to hold a one-day colloquium on 'Techniques of Medical Imaging'. It will take place on Wednesday 23rd November at the IEE headquarters at Savoy Place and will cost nonmembers £33.35 plus lunch. The IEE, Savoy Place, London WC2R 0BL, tel 01-240 1871.

• Thorn EMI Electron Tubes Ltd have published a paper called "Voltage Divider Design" which deals with design of divider networks for use with photomultiplier tubes. The paper covers such requirements as linearity, scintillation counting, speed of response, etc, and is available free from Thorn EMI Electron Tubes Ltd, Bury Street, Ruislip, Middlesex HA4 7TA, tel 08956 30771.

• The PBL 3747 monolithic IC is designed to solve matching problems wherever a high impedance source must be fed into a low impedance load. Incorporated in a TO-92 plastic package, the device has an output impedance of 60 ohms, an input impedance of 66M ohms, 1% distortion at its maximum output of 200 mV, and 2.5 dB gain at 1000 HZ. Contact RIFA AB, Market Chambers, Shelton Square, Coventry, tel 0203 27259.

National Panasonic have introduced three new sizes of 3V Lithium - Polycarbonmonofluoride batteries to their range for use in memory support and longlife standby applications. New sizes are 2/3 AAA with 300 mAh capacity (10.5 mm dia x 30 mm) and A size with 1.9 Ah capacity (17 mm dia. x 41.4 mm). Cells are available with either solder tags or pins and have a shelf life in excess of 10 years. Special Batteries Division, Panasonic Industrial (UK) Ltd, 300-318 Bath Road, Slough, Berkshire SL1 6JB, tel 0753 34522.

• The Open Computing School offers courses in everything from beginners BASIC to the more sophisticated information retrieval systems. Courses are self-paced and students can choose their hours of attendance. A 15 hour BASIC course costs £45. Details from Jack Flatau, Polytechnic of the South Bank, Bortough Road, London SE1 0AA, tel 01-928 8989 extension 2468.

• Cumana have introduced a new 5¼" disc drive for the BBC and Dragon microcomputers which will be sold through High Street outlets such as W.H. Smiths. The drives have their own power supply, are available in 40 and 80 track single sided and 80 track double sided versions, and come with a 12 month guarantee. Two drive can be used simultaneously with the BBC and up to four with the Dragon.

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- OR 2 x 600W into 2 to 8 Ω
- OR 4 x 300W into 2 to 4 Ω (200W into 8 Ω)
- 1 x 600W into 2 to 8Ω OR
- (1 x 500... 1 x 300W into 2 το -τ... 1 x 150W into 4 to 8Ω

Etc. Etc.

Having been closely involved in a wide variety of OEM applications of their amp boards, Pantechnic became aware of numerous imple-mentation problems often left untackled by other amp board manufacturers. These problems specifically of size and thermal efficiency became particularly aggravated at high powers and considerably lengthened OEM product development time.

By including thermal design in the totality of board design it has been possible to reduce the size of the electronics, and increase the efficiency of the transistor to heatskink thermal circuit. The com-bined effect of this has been to dramatically increase the volumetric efficiency of the amplifier/heatsink assembly. The SYSTEM Amp offers 1 2KW of power in a space of 180mm x 102mm x 77m excluding PSU and Fan.

The basis of this considerable advance is the PANTECH 74 Heat Exchanger, newly designed and manufactured by us. By eliminating the laminar air flow found in conventional, extruded heat sinks, heat transfer to the environment is greatly enhanced

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Pantechnic offer a full range of customising options including DC coupling, ultra high slew etc. Contact Phil Rimmer on 01-800 6667 with your particular application problem.

	OTHE	R POWERF	ET AMPLIFIE	RMODULES
Model	Price	Range (RMS)	Dyn-loads	Notes
*PFA100	21 96	50-150W	4 .8	Physically small (32 x 78 x 108mm)
*PFA200	29.52	100-300W	4 Ω, 8 Ω	High watts/£ ratio
PFA/HV	36.04	200-300W	4 ,812,161	5dB dynamic headroom Drives 70V line direct,
*PFA500	45.22 55.33	250-600W	2 Ω, 4 Ω, % re 74 Heat Exchai	25A cont. output current,

*The power output of these amplifiers can be increased by approx 15% with no diminution in quality by adding PSU102 (£7.61) to your existing power supply.

Some Other Products & Components

Type 74 Heat Exchanger. Dissipates 300W (1.2KW blown) £7.50. 25A 400PIV Bridge Rect. £2.17

100,000uF 100v cptn. grade with clip £9.75 PAN20 Pre-amplifier module. Very low noise and distortion £8.48 PAX2/24 2 Way active crossover (specify frequency) £10.10 PAX3/24 3 Way active crossover (-do-) £19.50

PSU103 Powers 2 x PAN20 + 2 Xovers £6.91 PAN1397 20W power amp. (LOW THD) £5.04

PSU101 Powers 2 x PAN1397 £3.43 Transformer for 101 £4.30 (inc. postage)

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ETI DECEMBER 1983

PROJECT

16 CHANNEL A/D CONVERTER

Get your micro to do some real work with the aid of our versatile unit. Design by Bob Campbell.

Connecting one's micro to the outside world is probably one of the most rewarding and exciting computing projects that you can undertake. Not only that but it is often extremely useful — a carefully designed central heating control system could save you enough money to pay for the project itself!

To link the digital world of the micro to the real world of analogue signals an interface is required. The interface is used either to turn a digital signal into some meaningful voltage or current, or to convert a voltage into a digital signal so that the computer can interpret it. The digital to analogue converter side of things was more than adequately covered in the March issue of ETI, so this article will present the other side of the coin, the analogue to digital converter. As with the previous project, this design is based on the Tangerine Micron Microtan 65 system, but consideration has been given to the question of adapting the design to suit other systems, including Z80 based computers.

The circuit is designed around the industry standard ADC0808 or ADC0809, both of which are 8 bit, 8 channel, microprocessor compatible analogue to digital converters. The difference between the 0809 and 0808 is the accuracy, being \pm 1 LSB and \pm ½ LSB respectively. The converter is a CMOS device made by National Semiconductor amongst others, and uses a conversion technique known as successive approximation. This technique usually prowides fast conversion times, together with good overall accuracy. Other features of this converter are single supply operation, no zero or full scale adjustments required, low power, and guaranteed monotonicity. This last point can be very important, particularly in high speed closed loop feedback systems. Non-monotonicity in such situations would produce oscillation, which could be catastrophic for the system being controlled.

The main conversion elements of the 0808 are a high impedance, chopper stabilised comparator, a 256R voltage divider network and an analogue switch tree, together with the all important successive approximation register. In front of the converter is an 8 channel analogue multiplexer controlled by a 3 bit address latch, giving the converter access to any one of eight single-ended analogue signals. Figure 1 shows the internal block diagram of the converter.

The circuit is designed on the

International-size card to suit the Microtan, and includes provision for two converters giving a maximum of 16 channels. The remainder of the circuitry consists of the data bus buffers and address decoding, and IC3 which is used to convert Ø2 and the R/W line into NRS and NWS (NOT READ STROBE and NOT WRITE STROBE). Processors like the Z80 already have these as RD and WR, and thus do not require IC3 to be fitted.

The decoding section is very similar to that used in all other recent Microtan designs. IO is the only non-standard signal, and this is decoded with A3-A9 inclusive to produce 128 eight byte addresses, any 8 of the 128 being available at any one time. The remaining three address lines A0 to A2 are used to



Fig. 1 Internal block diagram of the ADC0808.

ETI DECEMBER 1983



Fig. 2 Circuit diagram of the 16 channe A/D converter.

select the input channel for the converter. Setting the address of each converter is accomplished with DIL switches SW1-4 and with links between G0-G7 and E0, E1. SW1-4 set up the overall addresses of the 8, eight byte blocks and the links are used to select the individual block of each converter within the overall address. For example, setting SW1-4 to 1, E0, to G., and E1 to G1 will give us an address block 16 bytes long, BC00 to BC07 for IC1 and BC08-BC0F for IC5 (48128 to 48135 and 48136 to 48143 inclusive.)

Construction

Before commencing construction you should decide which of the various circuit options you wish to include. IC3 may not be needed depending upon the micro-processor you are working with, and R1, R2, Q1, and Q2 will

HOW IT WORKS

Since the operation of the circuit is quite well covered in the section on programming and elsewhere, we will devote this section to the ADC0808/9 itself.

There are three main elements to the converter, the successive approximation register (SAR), the comparator and the resistor ladder-switch tree array. In addition there is a 1 of 8 analogue multiplexer to select the input signal, timing and control logic, and tristate data buffers, which as a whole form the data acquisition circuit.

The SAR is reset on the positive edge of the start conversion pulse, and if another SC signal is applied during an incompleted conversion the current conversion will be aborted in favour of the new request. Continuous conversion cycles can be obtained by tying the end of conversion (EOC) output to the SC input.

The analogue signal, 1 of 8 selected by the multiplexer, is fed through to the comparator. this comparator is responsible for the accuracy and repeatability of the converter and the 0808/9 uses a chopper stabilized technique to achieve the specified stability and accuracy. The other output to the comparator is from the switch tree and is equivalent to the previous approximation to the input signal. The comparator first converts the DC input signal to an AC signal then boosts this through a high gain AC amplifier before restoring the DC level. Thus any DC drift component of the input signal is filtered out at this stage, prior to the actual conversion taking place.

The output of the comparator is then fed to the SAR which in turn controls the next output from the switch tree. Thus on each successive iteration the output of the switch tree is fed back via the comparator to the SAR to form the next iteration. On the eighth iteration the output will be within ½ LSB of the ideal value.

Data is then available at the outputs, after taking OE low. Overall timing of the conversion is controlled directly by the clock input, which should be between a minimum of 10KHz and 1.28MHz maximum.

PROJECT : 16 Channel A/D Converter



Fig. 3 Component overlay of the PCB. The blocks marked A, B, C, D, E, and F are positions where input filter components may be inserted. If none are used, links should be inserted in positions A and B. not be needed if you plan to use interrupt driven routines. Provision has been made for the inclusion of various input filter and attenuator components on the board, and if none is used you will have to insert links in their place. The standard arrangement is a simple 1k series resistor but a number of possibilities exist and a few examples are given in Fig. 4. Since every application is different it is not possible to cover every requirement, and you may find it necessary to experiment a little here.

As with previous projects, a double sided board has been used but without plated through holes. This helps to keep the cost down, but it does mean that a lot more care has to be taken in the construction. The positions of the through board links are shown on the component overlay drawing, Fig. 3. Sockets have been specified for all the ICs and should certainly be used for the A/D converters at least because these are CMOS. The DIL switch could, of course, be replaced with wire links, and whilst the switches are preferable they are certainly not cheap.

With the assembly complete, the next stage is the programming. To initiate a conversion of a specific analogue channel a write operation on that address must be performed. This could be, for

PARTS LIST.

Resistors R1, 2	3k3 ¼W 10% (see text)
Capacitors	
C1	10u 16V radial
C2, 3, 4	100n ceramic
Semiconductors	
IC1 5	ADC0808 or ADC
101, 5	0809 (see text)
1C2	741 \$02
IC3	74LS00 (see text)
IC4	74L\$138
IC6	74LS30
1C7	74LS04
IC8	74LS245
Q1, 2	BC184, BC109 etc
	(see text)
Miscellaneous	
DIN 41612 64 way	standing of a dama second

DIN 41612 64 way indirect edge connector; 20 way male PCB header and matching IDC socket; PCB; 4 x 14 pin DIL sockets, 1 16 pin, 1 20 pin, and 2 x 28 pin sockets; DIL switch, quad SPDT; ribbon cable, input filter components, etc.

BUYLINES

Technomatic can supply the ADC0808 and the DIN indirect edge connector, and the 20 way IDC connectors are available from Ambit. Nothing else should cause any problems, and the PCB is available through our PCB service, see page 74. example, POKE 48128,0 in BASIC or STA BC00 in assembler. This latches the address and pulses the SC input via IC2 starting the con-version on that channel. Assuming for the moment that the system clock used is 750 kHz and that the EOC link has been omitted, then we must wait for 80 μ s before the converted data is available on the data bus. It is a simple matter then to read from the same address as before to obtain that data. For example DATA = PEEK (48128) or LDA BC00. The OR gate IC2 makes sure the decoded signal E0 or E1 and the NRS (RD) are both low before pulsing the OE input of the converter and enabling the tristate buffers. In fact on the authors system the time delay associated with BASIC means that **PEEKing immediately after POKE**ing the required channel address works well, eg

10 POKE AD, 0 20 DATA = PEEK (AD) 30 PRINT DA 40 GO TO 10

By connecting the EOC link the need for the time delay routine can be avoided. In this case the EOC signal is used to pull the IRQ line low on the processor causing an interupt, which must be handled in the normal manner with an interupt service routine. Such a routine is difficult to implement in BASIC but is very simple in machine code or assembler. One particular point to note if using this technique is the EOC delay time, which is the delay before EOC is

TO ADC

CURRENT



Fig. 4 Input circuit arrangements.

reset after a new SC signal is sent. It is important therefore that interupts are not enabled before this time has elapsed. Figure 5 shows the timing diagram for the converter.

Applications

The most common use of an

A/D converter is simply to measure a voltage generated or controlled by the equipment under observation. The voltage transducer may be anything from a strain gauge amplifier to something as simple as a variable resistor acting as a potential divider. This latter case is an example of a ratiometric type





Fig. 6 Ratiometric conversion

22

PROJECT : 16 Channel A/D Converter

of transducer, where the input being measured is expressed as a percentage of full scale which is not necessarily related to any absolute standard. This type of transducer has several advantages, particularly in low cost systems since the need for a highly stable and accurate reference voltage is reduced, often to the point where the supply voltage itself is more than adequate. The ratiometric conversion

technique equation is





where Vin=input voltage into the ADC0808 Vfs =full scale voltage Vz =zero voltage Dx =data point being measured Dmax = maximum data limit Dmin =minimum data limit

Applying this equation to the potentiometer example shown in Fig. 6 we get

Qout =
$$\frac{Vin}{Vref}$$
 = $\frac{Vin}{Vcc}$

where 4.75V Vcc = Vref 5.25V and the Qout is the 8 bit digital output.

The most obvious example of a use for the potentiometer as a transducer is a position encoder, which could be a joystick or a rotary shaft encoder on a robot axis motor. In fact the uses for such a transducer are almost endless and similar ratiometric transducers include thermistor bridges, pressure transducers, etc.

Some applications require the measure to be made with reference to an absolute standard voltage or current. There are two widely used methods of reference conversion, ground referenced and centre referenced. In each case there are numerous ways of producing the supply and reference voltages, and examples are shown in Figs. 7 and 8.

Z80 Conversion Notes

As mentioned in the introduction, the modifications necessary for the Z80 procesor are very straight-forward. IC3 can be omitted and the RD and WR lines directly substituted for NRS and NWS. There are no write operations involving data valid for this board, and FIR on IC9 (pin 1) should be connected to an inverted RD or taken permanently high.

A0 to A7 inclusive are identical but in the Z80 case must be used with the IOREQ line to decode an output address. The simplest way to achieve this is to substitute A0 - A7 directly, IOREQ for A8, and tie A9 and 10 permanently high. This obviously means SW4 must always be in position 2, and SW3 in position 1. The master clock, pin 10 on IC1 and IC5 should be taken to any TTL clock of a suitable frequency i.e. between 10 KHz and 1.2 MHz. A 4 MHz system clock divided by four with the aid of a 74LS74 would prove suitable.

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FEATURE

MACHINE CODE PROGRAMMING

Is relative addressing an example of keeping it in the family? This, and other questions, will be answered in the third part of our series on Machine Code Programming, written by Bob Bennett.

ast month I gave a couple of CPU addressing mode examples, but before I give any more I would like to explain a couple of things. First, whenever possible, I will give other CPU direct equivalents to the Z80 instructions, but I can't possibly mention every CPU. What I hope to do is make it possible for you to recognise your own particular CPU instructions. To help you do this, don't pay too much attention to the *name* of the addressing mode, but rather what *happens* because of the instruction; different manufacturers have, at times, used slightly different terminology to describe similar actions. The second point is that every example I will give the hex code first followed by the mnemonic thus, 00h — **NOP**.

Although machine code doesn't use line numbers, the BASIC statement GO TO 100 has a very near equivalent in machine code, but the comparison cannot be taken too literally. These equivalents are the **jump** or **branch** instructions, part of which form the relative addressing mode. In this mode the instructions are two bytes long, the first byte is the function, and the second is the offset. The Z80 instruction set the straightforward jump instruction code is 18h — **JR,e**, or jump relative by the amoung of the offset byte e. Why relative? Well, the value of the offset byte indicates a destination for the jump, relative to the current program position.

Because the offset is only one byte, the maximum jump is 255d (d = decimal) or FFh locations, but in which direction? The numbers 0 to 255d are positive, so a forward direction is indicated; this leaves the problem of going backwards. No sweat, the answer lies in the use of the 2's complement. Never heard of it? Don't worry, all will become clear.

Take the maximum range of a byte, 0 to 255d, and split it; the first section, 0 to 127d (7Fh) are the forward or positive range. The second step is where it might get confusing so watch it carefully: the numbers that are left from 128 to 255d or 80 to FFh, but, because we need a backwards, or negative, direction, the decimal numbers now range from -128 to -1.

Remember that I said you would need a knowledge of the binary system? This is where it comes in handy. The binary equivalents of the decimal numbers 0 to 127 and 128 to 255 are 0000 0000 to 0111 1111 and 1000 0000 to 1111 1111 respectively. A closer examination shows that, throughout the first set of numbers, but 7, the leftmost bit, is 0; and throughout the second set, bit 7 is 1.

This makes it possible for bit 7 to be used as a sign bit: reset, or 0, for positive; and set, or 1, for negative. To get the value of the offset byte is easy. Counting the byte after the offset byte in the program as zero, count backwards or forwards until you reach the destination for the jump, as shown in Fig. 6. Another method would be to take the destination address, and the zero address, take the lower from the higher, and add the sign accordingly.





Assume that you have counted 100 places backwards; Fig. 7 shows what happens next. Alternatively, if you subtract the backwards count from 256d, the answere is a decimal number equal to the 2s complement, which you then convert to hex.

Binary $0110\ 0100 = 100\ decimal\ (ignore\ sign)$ $1001\ 1011 = \ s\ complement\ i.e.\ change\ is\ \ s\ to\ 0\ and\ vice\ versa$ $1\ add\ 1$ $1001\ 1100 = 156\ d\ or\ 9C\ hex,\ which\ is\ the\ offset\ byte\ value$ Bit 7 is set which means a negative count

Fig. 7 2's complementing a backwards (negative) count.

Some CPUs do not have a straightforward relative jump/branch in the instruction set, but some do support the conditional relative jumps/branches. This is similar to the BASIC IF X = 0 THEN GO TO 100. The Z80 instruction 28h – JR Z,e means jump relative if the zero flag is set, by the amoung of the offset e. The 6502 code is F0h – **BEQ** which means branch when zero flag set. Usually most of the flags can be used in

the set or reset condition for relative jump or branch instructions.

Absolutely So

Although the relative jumps and branches are sometimes of great help in a program, their range is rather limited as I have shown. To get further afield requires slightly different techniques, and different instructions of course. This set of instructions require an absolute destination, or address, to be specified in the instruction. For those of you who like analogies, relative addressing is like saying 'go to the third house past the church' and the absolute equivalent is 'go to 31 Church Street'. This type of jump or branch is only a part of the absolute addressing mode instructions, but for now I'll deal with jumps.

Because, in theory, the whole of our 64K memory

FIRST STEP: divide decimal address by 16 1,875 16 [30,000] remainder $0 = 0 \times \text{units}$ SECOND STEP: divide this by 16 117 16 [1,875] remainder $3 = 3 \times 16$ THIRD STEP: divide again by 16 7 16 [117] remainder $5 = 5 \times 16$ As the result is less than 16, we stop therefore 30,000 decimal = 7530 hexadecimal

Fig. 8 One way of converting decimal to hex.

is reachable, the addresses will have to be in two bytes, so the total bytes for absolute addressing is at least three. There are special cases that require just one byte, and some that need four, but I'll cover them later. Let's assume for now that we need to jump unconditionally to address 30,000d; Fig. 8 showns how to prepare the decimal number into the two byte hex number we need.



Fig. 9 Absolute jump instructions.

The Z80 instruction C3 – **JP pq**, where pq are the address bytes, and the 6502 instruction, 4C - J, **MP** are both examples of jump in the absolute mode. Fig. 9 shows how both examples would be used in a program, when the destination was address 30,000d. Note that the low byte of the address goes straight after the code for jump; please accept that this is so for now, and I'll explain more later on.

In some of the instruction sets the flags status, or condition, can be used just as in the relative jumps.

Leaving the jump/branch instructions let's have a look at some more absolute instructions. The Z80 instruction 3A - LD A, (pq) means load the A register with the contents of the address pq. Note the use of brackets in the mnemonic; without them the instruction would mean: load the A register with the two byte number pq; two into one won't go! To get the

number in the A register into the address pq, the instruction in the Z80 set is 32 - LD (pq),A.

This mode of addressing need not be restricted to a single register; a Z80 example is 2A - LD HL, (pa), where the byte in pq is loaded into L and the byte in pa+1 is put into H. If you forget which byte goes where, just remember H for high (byte), and L for low; using the DE pair, the high byte will go into register D.



Fig. 10 Pushing the number 7530hex in the HL pair.

Those of you with Sinclair micros may have noticed, in the manual appendix dealing with the character set, the words 'after ED' or 'after CB' etc. This is where a four byte absolute instruction may be found, and is explained as follows. The instruction 4B in the Z80 set means LdC, E, but after ED means LD BC, (pq). Fig. 10 shows how this is used in a program. The use of ED and CB, etc., is very similar in principle to the use of shift keys, where one key with shift has a different function to the unshifted version.

A Direct Extension

This section should explain, in part at least, some of the differences in terminology that I mentioned earlier. In one book I read a few weeks ago, the author gave an example of absolute addressing, using 3A — LD A, (pq) for the Z80 set. He went on to say that this mode is sometimes called the direct or extended mode. As the 6800 set uses both of these modes I'll give a couple of examples.

In the direct mode, the instruction 96h is concerned with loading the accumulator with the byte held in an address, but there is only one byte used for the address. This is because the high byte of the address is supplied by the computer automatically, and the byte is 00. So, when the computer meets the instruction 96,FF, it interprets it as meaning Ld A, (pq), where pq is 00FF. An example of the extended form from the 6800 set is 87 - LD (pq),A where the two bytes pq must be put in by the programmer. As a last example, I'll use the 8085 set; in that set 3A - LdA, (pq) is considered as being in the direct mode.

Now for a little bit more explanation of terminology. That 6800 direct mode example I gave above is sometimes called **zero page addressing**, or sometimes, **abbreviated absolute form**. No matter what it is called, it still works in the manner that I have described. Those of you with a 6502 can use zero page addressing, which simply means the first page (of RAM) runs from addresses 0000 to 00FF. All you have to do as a programmer is specify the low byte of the address from 00 to FF, and the computer adds the 00 automatically, as already explained. Now you can see that it does help to known how your computer has its memory mapped out. A computer that has ROM starting at address 0000 cannot use zero page addressing in the form **Ld** (**pq**),**A**, because you cannot write to ROM.

Pop Goes The Weasel

In the instructions that I've already covered, the two bytes, pq, have been used as an address. Later on I will be giving addressing mode using pq as numbers, but for now more explanations. These explanations concern not only what has gone before, but what is yet to come. Firstly, let us recall the stack pointer register, SP, as we'll be looking at this in rather more detail.

As you will recall, the stack is a portion of RAM which the computer reserves for its own use, and, like the variables area, the size can fluctuate. The stack is used to store two byte addresses or numbers, either at the command of the programmer, or as part of a computer controlled sequence. Curiously, the stack is sort of upside down, with the latest piece of information going on top of the one before, which makes for a last in, first out, situation.

To help you understand the stack, and the manipulation of pq, I am going to use two single-byte instructions. These are the **PUSH** and **POP**, or **PUSH** and **PULL** instructions. Because pq takes up two bytes push and pop concern register pairs. The Z80 set allows the push and pop of every register pair (see part one of this series) and also allows the A register to be paired with the flags register, F, for this purpose. Don't be misled, though: the use of the AF pair allows only A to be loaded (with any number up to FFh), but you can't load the F register. Using the HL pair to make things clearer, the Z80 instruciton EF — **PUSH HL** will store the contents of HL on the stack. See Fig. 10 while following the explanation. Supposing HL contained the number or address 30,000d or 7530h before the instruction E5 — **PUSH HL** was encountered by the program. On reaching E5 the stack pointer will be pointing to the next empty address available on the stack. First the low byte in L is copied into that address. The stack pointer, sp, is then decremented (by one) and the high byte in H is copied into the new address pointed to by SP. The register is decremented again so that it is now pointing to the next available address.

The reverse happens on the pop instruction which, in the Z80 set is E1 — **POP HL**. This instruction will increment SP (by 1), the byte in the new address is copied into H; SP is incremented again, and the next byte goes into L. Now SP is pointing to the next available address on the stack.

The 6502 set allows the pushing and popping of only two single registers onto the stack. These are the accumultor and the status register; for example, 48 — PHA copies the contents of the accumulator onto the stack. Notice that I keep saying copies onto the stack: this is to emphasise the fact that pushing does not destroy the contents of registers.

The final couple of points will be of interest to Z80 users mainly. If you have pushed a sequence of register pairs onto the stack, before popping them off again remember the last in, first out rule. Having said that, what happens if you push HL then pop DE? With that question, we'll leave you pondering until ETI pops through your letter box next month ...

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PROJECT

ZX BURGLAR ALARM Why let intruders POKE around at your ADDE

Why let intruders POKE around at your ADDRESS when you could get them on the RUN with this natty little unit? Designed by Declan Ciaran McMahon.

his microprocessor controlled security system will monitor up to eight remote switch positions each of which can be either normally open or normally closed, allowing you to use any combination of pressure mats, combination of pressure mats, magnetic catches, window foil or other devices as the sensors. When triggered, it immediately sounds an alarm and then displays the number of the affected input on a seven-segment LED. It can be used with either the ZX81 or the Spectrum and quite aside from its value as an intruder alarm it provides a useful introduction to the techniques of microprocessor interfacing using machine code and the

Z80 Parallel Input/Output Controller.

The Z80 PIO consists of two groups of eight lines, port A and port B, and each line can act as eigher a data input or output. If the IN instruction is used, the data on those lines defined as inputs is loaded into the accumulator. If the OUT instruction is used, data on the accumulator is latched onto the output lines. The PIO can be programmed to act in any one of four modes:

Mode 0 — Output mode Mode 1 — Input mode Mode 2 — Bidirectional mode Mode 3 — Control mode

The first three modes require use of the handshaking the facilites and so for this design the much simpler control mode has been used, allowing easy input and output of data to and from both eight bit ports on the PIO. Port A provides the eight inputs from the sensing switches while port B is split into four inputs and four outputs, the inputs being used to enter data while the outputs feed the seven segment display. An eight bit word is entered via port B into the register which tells the microcomputer which of the input lines should be high and which low (corresponding to normally open and normally closed





Fig. 2 Overlay diagram of the PCB.

switches respectively). The contents of this register are then continuously compared with the inputs to port A and if any discrepancy is discovered a '9' is sent out to the display. A timing loop, formed by loading a high number into the registers H, L, and then successively subtracting one until the result is zero, ensures that the nine is displayed for at least a second or so, after which the number of the affected input is displayed. An AND gate monitors the A and D data lines into the display driver and thus goes high when the 9 is output, the delay ensuring that it remains high long enough to latch the relay and thus sound the alarm.

Construction

Most of the components, including the relay and the transformer, are mounted on the PCB, the only off board components being the switches, the LED display, the edge connector to suit either ZX81 or Spectrum, and the siren or other output transducer. Make sure that all four ICs are inserted the right way around, and similarly check the electrolytic capacitors C1, C4, and C7, and the diodes. Provision has been made for the use of connectors for the LED display and the input lines but if you prefer you can, of course, solder directly to the board. It is intended that the relay should switch a siren or similar device which draws its power from an



Fig. 3 Pin connections of the ZX81 and Spectrum expansion ports.

PARTS LIST

Resistors (all ¼W,	5%)
R1	4k7
R2, 4, 5, 6,	470R
7, 8, 9, 10	
R3	330R
R11, 12, 13, 14,	10k
15, 16, 17, 18,	
19, 20, 21, 22,	
23.24	
Constant	
Capacitors	1000 101
CI	1000u 16V
	electrolytic
C2, 3	100n
C4	22u 16V
	electrolytic
C5, 6	10n ceramic
C7	100u 10V tantalum
Semiconductors	
IC1	7805
IC2	7408
IC3	7447
IC4	780A PIO
01	BD131
D1.2	1N4001
D3	1N4148
DISP1	Common anode
	7-segment
	display
Minaullanaana	
Miscellaneous	
	9-0-9V 6VA PCB
	mounting
C14/4 0 0 4	transformer
SVV1, 2, 3, 4	momentary action,
DLAI	push-to-make
KLAI	12V DC 400R
DCD I	miniature relay
PCB: edge connec	ctor to suit ZX81 or
Spectrum: 10-way	0.1" pitch PCB plug

Spectrum; 10-way 0.1" pitch PCB plug and socket — 2 off each; case, etc to suit

BUYLINES

All of the semiconductors, including the Z80A P1O, are readily available from a number of our regular advertisers, as are suitable transformers, ZX81 and Spectrum edge connectors, 7-segment LEDs and the switches. A suitable relay is sold by both Maplin (code YX97F) and Ambit (type OUD), both of whom also supply PCB connectors. The PCB is available through our PCB services, for which see page 74.

external source, eg the mains, but if your particular application does not specifically demand an eardrum piercing, complaint eliciting siren, you might prefer to use an audible warning device of some sort instead. Providing this does not draw more than 100 mA or so and will run from 17V or less, you can connect it directly in the collector circuit of Q1 and dispense with the relay entirely. The edge connector you use to connect the unit to the micro will depend on whether you plan to use a ZX81 or a Spectrum, and should be wired in accordance with Fig. 3.

The choice of case is left entirely to the constructor, but since there is mains on the board it is advisable to have some sort of enclosure. Mounting the switches should present no problems but the LED display is not so easy. If you're after a particularly neat appearance you would perhaps do best to go for an easily cut plastic case, and to cut out an aperture for the LED and then mount it flush in Araldite. The input lines, mains input, and connections to the microcomputer could either be taken through grommets or, if you're really fussy, through appropriate connectors, although it is probably most convenient to use a connector only for the input lines.

Programming

The Z80 PIO ahas six control lines, three of which (MI, IORQ, and RD) can be connected directly to their counterparts on the Spectrum or ZX81 edge connector. The remaining three, B/A SEL (select port A or B), C/D SEL (select either control or data carried on bus), and CE (chip enable) must be connected to the address bus. The Spectrum manual tells us that A0, A1, A2, A3, and A4 are all normally high (they are used to



Table 1 Examples of eight bit PIO address words.

BIT output mode input mode bidirectional	7 0 0 1	6 0 1 0	5	4	3 1	2 1	1 1	0 1
control	1	1						

Table 2 Format of the operation control word.

ETI DECEMBER 1983

PROJECT : ZX Burglar Alarm

control printer, loudspeaker, etc), so we can leave these high and connect B/A SEL, C/D SEL, and CE to the remaining three lines, A5, A6, and A7 respectively. A5 low selects port A, A5 high selects port B; A6 low selects data (input and output) and A6 high selects control (programming information). A7, the chip enable, is always held low. The resulting eight bit words are shown in Table 1 and their decimal values are 31, 93, 63, and 127 respectively.

We must next initialise the PIO by sending two control words to each port. The first defines which mode and, as we are using mode three, a second must be sent to define which of the eight lines are inputs and which outputs. The format of the operation control word is shown in Table 2, and it will be seen that the relevant control word for ports A and B is 11111111, that is, decimal 255.

The second control word also consists of eight bits, each one corresponding to the I/O line with the same number, ie, bit 0 corresonds to PA (or PB) 0, bit 1 corresponds



Fig. 4 Flow chart of the burglar alarm program.

10	Clear 32500
15	For $n = 0$ to 107 : read b
20	Poke 32500 + n , b
25	Next n
30	DATA 62, 255, 211, 93, 211, 93,
	211, 127, 62, 240, 211, 127, 219, 63,
	203, 111, 40, -6, 6, 8, 62, 0, 30, 0,
	60, 211, 63, 219, 63, 203, 119, 40, 5,
	203, 127, 32, -10, 28, 219, 63,
	203, 111, 32, -6, 203, 11, 16, -24, 62, 0,
	211, 63, 219, 63, 203, 103, 40, -46, 219,
	31, 171, 6, 8, 203, 23, 56, 4, 16, -6,
	24, -19, 197, 62, 9, 211, 63, 6, 10,
in a	17, 1, 0, 33, 222, 57, 237, 82, 32, -4,
	16, -9, 193, 120, 211, 63, 219, 63,
	203, 111, 32, -6, 219, 63, 203, 103, 32,
	-6, 24, -96
40	PRINT USR 32500

Table 3 The Spectrum program.

to PA1, etc. Setting the bit high defines the associated I/O line as an input, while setting it low defines it as an output. Since port A consists of the eight input lines from the various sensing switches, its control word will be 11111111, again, decimal 255. Port B has lines 0, 1, 2, 3 outputting data to the LED display and lines 4, 5, 6, and 7 accepting input data from the push button switches, so its control word will be 11110000, that is, decimal 240.

The first six instructions of the program therefore consist of loading the relevant control word into the accumulator and outputting it to either address 93 or address 127 (see Table 5 and the flow chart, Fig. 4).

The program can be entered directly into the Spectrum, but if you are using a ZX81 you will need to reserve space for the 108 bytes of machine code by moving RAM-TOP. To do this type in:

POKE 16388,147 POKE 16389,67 NFW

and follow each statement with the Newline command. To check that RAMTOP has been moved, type in:

PRINT 256*PEEK 16389+PEEK 16388

and you should get 17299.

The ZX81 is also unable to deal directly with the negative numbers used in the jump statements. The

62, 255, 211, 93, 211, 93, 211, 127, 62, 240,
211, 127, 219, 63, 203, 111, 40, 250, 6, 8,
62, 0, 30, 0, 60, 211, 63, 219, 63, 203, 119,
40, 5, 203, 127, 32, 246, 28, 219, 63, 203,
111, 32, 250, 203, 11, 16, 232, 62, 0, 211,
63, 219, 63, 203, 103, 40, 210, 219, 31, 171,
6, 8, 203, 23, 56, 4, 16, 250, 24, 237, 197,
62, 9, 211, 63, 6, 10, 17, 1, 0, 33, 222, 57,
237, 82, 32, 252, 16, 247, 193, 120, 211, 63,
219, 63, 203, 111, 32, 250, 219, 63, 203, 103,
32, 250, 24, 160

Table 4 (Above) The ZX81 data.

Table 5 (Right) Assembler listing of the burglar alarm program.

computer recognises a negative number by checking to see if the most significant bit of the jump operand is high. If so, then this bit represents -128, all other bits retaining their normal values. For example, suppose we wish to enter -6. This becomes -128+122, or in binary 11111010 (the first digit representing -128 and the remaining seven representing +122). This is the decimal number 250. This can also be calculated from the two's complement rule: the number (6) in binary

00000110

change 0 to 1, 1 to 0

11111001

add 1

11111010

which is again decimal 250. Thus, any number having the form -Xcan be entered by using the formula 128 + (128-X) which is, of course, simply 256-X.

Having reserved the 108 bytes after RAMTOP in the ZX81, type in:

10 FOR N=0 to 107

20 INPUTX

30 POKE 17299+N,X

40 NEXT N 50 PRINT USR 17299

then RUN. The computer will then wait for you to type in the 108 numbers given in Table 4. Note that these are the same numbers as those in the Spectrum program except that all the negative numbers have been replaced with their

LD A	255	62,	255	
out A	93	211,	93	
out A	93	211,	93	
out A	127	211,	127	1
LD A	240	62,	240	
out A	127	211.	127	
TN	63	219.	63	
BIT 5	00	203	111	
ID7	-6	40	-6	
JRZ	-0	-+0, 	0	
LD B	0	0,		
LD A	U	6Z,	0	
LDE	0	30,	U	
INC A		60,		
out A		211,	63	
IN	63	219,	63	- 1
BIT 6		203,	119	
JRZ	5	40,	5	
BIT 7		203,	127	
JRNZ	-10	32,	-10	
INC E		28,		
IN	63	219,	63	
BIT 5A		203,	111	
JRNZ	-6	32.	-6	
RRE		203.	111	
D INZ	- 24	16.	-24	
	0	62	0	
ant u	63	211	63	- 3
TN	63	219	63	
IN DIT (0.5	203	103	
D11 4	1.6	40	-46	
JKL	-40	210	31	
10	21	217,	1	
XOR E		1/1,		
LO B	8	203	23	1.1
in a s		205,	4	-
3.0 +		16	4	- 8
DONZ	~ 10	10,	-0	
DUCUL	-19	24,	~19	
PUSH B	0	197	0	
LD A	9	62,	9	
out	63	211,	10	
LD B	10	6,	10	
LD DE	1	17,	1,	C
LD HL	14814	33,	222,	57
SBC HL,	DE	237,	82	
JRNZ	-4	32,	- 4	
DJNZ	-9	16,	- 9	
POP B		193		
LD A, B		120		
out 63		211,	63	
IN 63		219,	63	
BIT 5		203,	111	
JR NZ	-6	32,	- 6	
IN 63		219,	63	
BIT 4		203.	103	
IRN7	- 6	32	-6	

-96

24.

-96

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PROJECT : ZX Burglar Alarm

HOW IT WORKS

intruder detecting The various switches are connected between earth and the eight lines of port A on the PIO. Each of the eight lines is connected to the +5V line through a pull-up resistor, so that when the associated switch is open a logic high level will appear on the input, and when the switch is closed the line will be pulled down to logical low. The latter four lines on port B are similarly connected so that pushing any of switches 1 to 4 takes the associated line low. The first four lines on port B are used for the display output and carry a four bit binary code. This is fed directly to the decoder/driver 7447 and thence to the seven segment display.

When the program is started up it puts out a '1' and then waits for the line to be defined. Taking either line 6 or line 7 on port B low enters a 0 to 1 as desired into register E. Subsequently taking line 5 low initiates a rotate right instruction which moves the entered data one place to the right so that the register is ready to receive the next bit. The microprocessor then outputs a '2' and the process is repeated until register E is full.

The microprocessor then goes into a continuous loop, using the XOR function to simultaneously compare each input line with the corresponding bit in register E. If both bits are at the same level, either both high or both low, the XOR function will produce a 0 output, but if the two bits are at different logic levels the XOR will give a 1. The RLA instruction is used to shift each bit into the carry flag and test for a 1 and if no carry is detected the microprocessor carries on testing the lines.

When a 1 is detected, a nine is briefly sent out via port B to the display. At the same time, a large number is loaded into registers H and L and 1 is successively subtracted until the result is zero. A total of 148,140 machine cycles are needed for this, and the nine is therefore displayed for a full second or so before the microprocessor removes it and displays instead the number of the failed line. The AND gate IC2b has its inputs connected to the A and D lines from port B, and will therefore go high only when a nine is put out. Its output is connected to IC2a, another AND gate, which is wired as a latch. IC2a drives the transistor Q1 which turns on the relay. The other input of IC2a is connected to line 5 of port B, and if SW2 is pressed this line will go low, unlatching the gate and thus turning off the relay.

two's complement.

From here on the procedure is the same whichever microcom-puter you are using. When the programming has been completed, a 1 should appear on the LED display. This refers to the first line on port A, and you must now tell the computer whether this line is to be high or low, according to what type of sensing switch you plan to use on it. To do this you first press either switch SW3 (LOW) if the line is to be nomally closed or SW4 (HIGH) if the line is to be normally open, and then press the ENTER switch SW2. The LED should now display a 2, and you repeat the procedure with this and each of the subsequent lines.

When all eight lines have been entered and the register is full, the microprocessor goes into a continuous loop, checking each line against its corresponding bit in the register. Should you wish to redefine the normal state of the lines, pressing SW1 empties the register and thus stops the program. If the alarm is triggered, it can be reset by pressing first SW2 and then SW1.





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FEATURE

AUDIO DESIGN Whether or not a preamplifier needs tone controls is controversial; however, what is beyond dispute is that

controversial; however, what is beyond dispute is that a competent audio engineer needs to know how to design them. John Linsley Hood shows the way.

With the exception of the response curve corrections needed for the proper replay of gramophone records recorded to the RIAA characteristic, so far I have looked mainly at linear amplifier systems, such as the low distortion gain block and the moving coil head amplifier circuits shown in the previous part of this series. What if one wants deliberately to enhance part of the audio spectrum? How does one do it? Well, doing it is easy, but there are some snags, and I think it would be useful to look at these first.

Once upon a time, all proper hi-fi amplifiers had tone controls. Now, most of the very up-market ones don't. Why is that? Being somewhat cynical about the hi-fi scene (and close acquaintance with this field tends rather to encourage this sort of response to the claims, beliefs and motives of those within it), the most immediate answer might be that what you don't put in won't go wrong, nor does the manufacturer have to pay for the bits that haven't been used. A second, less cynical though perhaps more naive thought could be that if you have very up-market gear, the frequency response of all your bits will be so good that any tinkering with the frequency response will be quite unnecessary. The truth, which could include parts of both of the above, would also recognise that one gets nothing for free, and that a beneficial change in the frequency response might also cause problems elsewhere.

Consider first the question of harmonic distortion. As we have seen, this is due to the presence of unwanted harmonics of the signal frequency, so that a 300 Hz signal will be accompanied by unwanted signals at 600, 900, 1200, 1500 Hz, and so on, representing the 2nd, 3rd, 4th and 5th harmonics of the incoming signal. If we give the signal a little treble boost, say +6dB at 1500 Hz, we would have doubled the amount of 5th harmonic present — and this is an unpleasant one, which is quite discordant — as well as increasing the amount of the others present, to greater or lesser degrees. True, the converse also applies. A treble cut will reduce the amount of harmonic distortion, so that, for example, the purity of the sinewave output from an audio signal generator can be improved just by putting a few RC filter elements after its output. Those of us who are old enough will remember the old trick of putting a 0.02μ F across the primary of the speaker transformer winding to lessen the amount of third harmonic in the old pentode valve output stages

At the other end of the frequency spectrum, while a bit of bass boost may help to give a punchy quality to a drum or string bass, or impress your friends by making your doors rattle on an organ pedal note, the penalty could be an enhanced response to mains hum, or rumble from the gramophone turntable or record. More subtly, the penalty might be just that the low frequency signals, because they occur at frequencies where our ears are not very sensitive, tend to be rather large in amplitude, so that a bit of bass boost might make them so big that they actually overload our amplifiers or LS systems. This last is very likely, since LS driver cones tend to move in and out quite a bit at LF anyway, because of the very limited air loading at these frequencies.

So, how about filtering the signal to remove the turntable rumble, or other very low frequency signals for which the LS will tend to flap its cone, before applying the bass boost? Yes, this would be better, but even filtration has snags, tonally. These come about because rates of change of signal amplitude with frequency greater than -6dB/octave (where the signal amplitude halves as the frequency is halved — or doubled) occur very rarely indeed in nature, so our ears respond to higher rates of change as an 'unnatural' sound, or a' colouration'. As an example of this, if we take a wide band 'white' noise signal, and we modify the amplifier frequency response by a filter having a -6dB/octave characteristic, as shown in Fig 1a, the 'hiss' will sound a bit different, and a bit quieter, but it will still sound uncoloured.

If we increase the filter slopes, as in 1b, and 1c, to -12dB and -18dB/octave, the sound of the hiss will change, and begin to take on a somewhat'tuned' quality, characteristic of the turn-over frequency The steeper the filter slope, the worse this will be. This is a criticism which has been levelled at the digital recording systems, where the very steep cut, 'brick wall', anti-aliasing, filters needed for this technique, will introduce very heavy colouration. Fortunately, the steep cut filter frequency is sufficiently high that the 'whistly' quality of the sound will be noticeable only to those with young ears.

The moral of this is, I think, that we should use bass or treble boost with discretion, and never more than we need. Similarly, where possible, we should avoid filters having very steep slopes unless these slopes are variable so we can adjust them to give an aurally acceptable result.

Such steep-cut AF filters, used with 'bi-amped' and 'tri-amped' hi-fi LS systems, where the crossover



Fig. 1 Effect of different filter slopes.

37

between wooter, mid-range and tweeter units is accomplished electronically at the input to separate LF, mid-range and HF power amplifier units, can give results which are a lot less good than expected, simply because of the phase changes of the signal and the colouration of the final result. The actual crossover networks in the better commercial LS multi-driver systems tend to owe as much to listening tests and small adjustments to the component values as they do to the initial calculations. These are the snags: now for the circuitry.

Tone Controls

These come in five basic types, each representing an attempt to avoid problems or give better results. These I shall call conventional, shelf, slope, graphic equaliser and parametric types.



Fig. 2 A very simple treble cut tone control

Conventional Tone Controls

As we have seen, the impedance of a capacitor is related to frequency by the equation $Z_c = \frac{1}{2}\pi f_c$. This means that the simple RC circuit of Fig. 2a would, if driven by a sufficiently low source impedance and loaded by a sufficiently high output impedance, have an output at (1) as shown in 2b (flat with frequency) and an output at (2) which falls at 6dB/octave with increasing frequency, as shown also in 2b. If R is a potentiometer, the gradient of the slope can be varied according to whereabouts one taps off the output. This will give a simple treble cut 'tone control'. If one modifies the circuit a little, as shown in Fig. 3a, to include a resistor R2, to limit the attenuation when the impedence of C has fallen to a very low value, and if one makes C a lot bigger in value, the output at (2) will rise below a certain frequency, dependent on the component values, to give the frequency response shown in Fig. 3b. This could be made





Fig. 4 A simple treble boost (or bass cut) circuit.

into a variable bass boost control by the circuit layout of Fig. 3c.

A similar sort of exercise can be done to make passive (ie, built entirely from Rs and Cs, with no amplifying elements) bass cut and treble lift arrangements, as shown in Fig. 4. Inevitably we will need to work out some means of interconnecting these so that they don't interact, and several such circuits, as for example in Fig. 5, have been worked out, and were popular in the USA. The question is really whether it is worth the bother, when the excellent arrangement first proposed by Mr. P. Baxandall, shown in Fig. 6, will do all that is needed just as well and more neatly.



Fig. 5 Typical (commercial) passive tone control circuit.

The big advantage supposedly conferred by passive tone control circuits is that because they only contain Rs and Cs they won't distort the signal. however, they will attenuate the signal — since they only work by selective attenuation, a 20dB 'lift' at one frequency is simply a 20dB attenuation everywhere else in the spectrum. Therefore it is necessary to amplify it by 10 (=20dB) either before or after the passive tone control stage, and this amplifier may distort.

Also, there is the question of where this amplifying stage should be put. If this TC stage has an attenuation of 20dB, and 1 V RMS output is needed from it, a 10 V RMS input signal (at least) is needed for its input — and this is a pretty big signal for a preamp. So — what if the amplifier is put so that it follows the TC stage? Then it only has an output of 1 V RMS, so it will have a reasonably low distortion, but there will be a lot of Rs and Cs connected to its input, which is now at only the 100 mV level, and which makes the task of getting a god S/N ratio, and low background hum level, just that much more difficult.

The Baxandall circuit avoids this difficulty, since, in the flat frequency response position of the controls, it will normally have unity gain, so 1 V out requires 1 V in, which presents few problems in S/N ratio or hum pickup. The way this circuit works is best explained by the simplified circuit of Fig7, which is a straightforward negative feedback inverting amplifier, whose gain is Rb/Ra. If Rb = 10Ra, then the gain is 10. If Rb = Ra, the gain is 1. If

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Fig. 6 Typical negative feedback tone control circuit of the Baxandall type.





Fig. 8 Behaviour of negative feedback tone control (overlap effects exaggerated).

 $R_a = 10$ Rb, then the gain is 0.1, and so on. Referring back now to Fig 6, C1+R1 and C2+R2 are RC combinations whose impedance decreases with frequency. if the setting of RV1 is such that 'Ra' is largely due to C1+R1, then the amplifier will follow the gain curve (m) in Fig 8. If the slider on RV1 is moved to the other end of its travel, so that it is now R2+C2 which is equivalent to 'Rb', then the gain curve will follow the form (n) in Fig. 8.

R3+C3 in Fig 6, is a network whose impedance increases as the frequency decreases, so that, by a similar argument, the curves (p) and (q) of Fig 8 can be



Fig. 9 Sequential two-stage tone control which avoids interaction between controls (component numbering of Fig. 8 retained except for new components R6 and R7 needed for DC feedback, and absence of R5).

selected by appropriately positioning the slider on RV2. The intermediate curves p', q', m' and n' can be selected at intermediate positions of the sliders on RV1 and RV2, with a flat frequency response being obtained, if the components are closely matched, when the sliders of the pots are exactly in the middle of their travel. The resistor R5 serves to help isolate the operation of the 'bass' and 'treble' sections of the tone control. This isolation is, however, always a bit less than perfect, so the perfectionist might prefer to separate out the two halves in two successive stages, as shown in Fig9, using two halves of a dual op-amp. the limit resistors R1, r*, R3 and R4 in both cases serve to prevent the circuit from trying to give an infinite gain or a zero gain at the extreme potentiometer slider positions.

Shelf-Type Tone Controls

This is a compromise between the Baxandall and Graphic Equaliser type tone control systems, in which a series of RC networks are arranged so that they can give separate 6dB shelves in the frequency response, which can be added (or subtracted) at will, at octave elements in the audio pass band. This gives a very similar type of response correction to that of the graphic equaliser (though more limited in amplitude) but without the snag of the very uneven frequency response which the graphic equaliser will give at max. or min. settings. Provided that only relatively small amounts of correction are needed, this arrangement allows for separate octave band portions of the frequency response to be raised or lowered independently. Typical possible frequency response curves are shown in Fig. 10, and a circuit for this type of tone control is shown in Fig 11.

Fig. 10 (LH corner) Typical frequency response curves for twostage shelf control (desired frequency response can follow any one of these patterns).



Fig. 11 Circuit layout for two-step shelf-type tone control.

Slope Controls

The realisation that, with good quality audio equipment and good programme sources, the major requirement of the normal user would be to alter the general slope of the amplifier frequency response, to correct a somewhat over dull or over shrill quality in the input signal (the preferences of the original sound engineer may differ from ones own or from any other engineer), led the Acoustical Manufacturing Co., in their Quad 44 preamp., to provide for the skewing of the frequency response, to give an overall upward or downward slope to the response curve, of the type shown in Fig. 12. A typical circuit for this, due to Quad, is shown in Fig. 13.



Fig. 12 Slope type tone control.





Graphic Equaliser Systems

The basic idea behind this development was a good one, and the scheme enjoyed a considerable popularity when it was first introduced in the early 1970s. In essence, the idea is that in a normal listening room environment, and with normal LS and gramophone PU units, the frequency response of the system - at the ears of the listener — will contain a number of humps and troughs, most of which will probably be guite localised. Therefore, if one could divide up the acoustic spectrum into eight, single-octave chunks — which would cover the range from 60Hz to 15.3KHz - and if some provision were made for adjusting the gain of the preamp, upwards or downwards, in each of these sections, it should be possible to make a pretty fair job of organising a flat frequency response, as actually presented to the listener

Well, by and large, the system works. The first snags are the obvious ones — that nature does not often oblige by putting its humps or troughs in the frequency response just at the centre frequency points (90, 180, 360, 720, 1440, 2880Hz, and so on) which such an eight octave equaliser would offer, they are just as likely to occur at the interface frequencies where we could do nothing about them. the other snags are those which arise from the nature of the corrected frequency respon-



Fig. 14 Response of a graphic equaliser tone control system



Fig. 15 Circuit arrangement of a graphic equaliser.

se, of which the possibilities are shown in Fig. 14. These are: with all the controls set to their mid-point positions the frequency response tends to have a corrugated iron appearance; furthermore, if all controls are set to either max. or min. positions, this irregularity is much exaggerated; and all rapid changes in gain vs. frequency are accompanied by very large phase shifts. The sound of a transient (percussive) event is very dependent on the relative phase (= time of arrival) of the sound components which go to make up this event; if one churns up the phase components, one gets some strange effects.

So, with a little regret, the consensus of opinion is that such tone correction systems, unless used very judiciously, tend to diminish the realism of the reproduced sound. However, for those who would use such systems judiciously, the circuitry needed is shown in Fig 15. This operates by utilising the characteristic of a series

This operates by utilising the characteristic of a series resonant LC circuit, such as L1/C1, to provide a very low impedance path at its resonant frequency. Left to itself, the op amp, IC1, with R100 and R101, would be a unity gain inverting amplifier. If RV1 is large in relation to the other circuit resistors (R1a, R1b), when the slider of RV1 is at its left hand end, the gain of the circuit (at the frequency at which L1/C1 has a nominal zero (impedance) will be given by: Ein/Eout =R101/(R1a/R100) ("//" means "in parallel with"), which will be higher than unity gain.

If, on the other hand, the slider of RV1 is at its right hand end the gain of the circuit (at resonance of L1/C1) will be Ein/Eout = (r101//R1b)/R100, which could be a good bit less than unity. So, this gives a means of adjusting the gain up or down at specific frequencies determined by the resonant frequency of the LC series network. Other series resonant limbs, L2/C2, L3/C3 etc., can be connected, in parallel, as shown, with little interaction.

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The actual resonant frequency of this network can be calculated from the equation $F = 1/(2\pi)LC$, which can be rearranged conveniently as $L = 1/(2\pi F)^2C$, where F is in Hz, C is in farads, and L is in henries. This gives values for L and C for 90 Hz as 3.1 H and 1µF, for 720 Hz as 500 mH and 100nF and so on. The actual value shown on the circuit diagram will give about 12 dB lift and cut; more than this would be unwise.



Parametric Equaliser Type

This has similarities to that of the graphic equaliser system, but is more modest in its intended scope. In this arrangement, a correction is applied to a single point in the frequency passband (although, in principle, more could be used), and provision is made not only for modifying the amplitude from peak to notch, but also for movingit up and down the frequency spectrum, so that it could be positioned precisely at the point at which a tonal correction is required. Such a system could be made by taking a single section of the circuit of Fig. 15, and altering its operating frequency by adjustments to L1 or C1 by switching, though in the rather complex published circuits the resonant frequency is usually generated by the use of gyrators, which are electronically simulated inductors. The frequency response is shown in Fig. 16.

Impedance Matching

In general, all of these tone control circuits, and most of the other preamp circuits will operate at their best if they are driven from a very low impedance, and loaded with a very high impedance. Most op amps, or gain blocks connected in this manner, will have a low output impedance, due to the operation of the negative feedback system. If they are connected as non-inverting amplifiers they will generally have a high input impedance. If they are connected as inverting stages, the input impedance will be that of the circuit elements connected between the input and the - input connection to the op amp. This will not normally be very high, but will usually be a lot higher than that of an op amp direct output connection. If a tone control circuit is driven from too high an input impedance, the maximum lift available will be lowered, and the interaction between the treble and bass controls will be increased. If an 'active' filter is driven from too high a source impedance it may be unstable.

ETI DECEMBER 1983

Filters

All of the RC tone control circuits described above will give a maximum lift or attenuation characteristic of 6dB/octave — associated with a maximum phase shift of 90° beginning at the octave below a treble lift or cut, or at one octave above a bass turn-over point. (this phase shift is not particularly important in tone control systems, but should be remembered as an unavoidable accompaniment of any frequency response adjustment mechanism.) If a greater rate of attenuation is needed, for example for HF whistle removal or for rumble filtering, a wide variety of steep cut filter circuits are available.



Fig. 17 LC low-pass filter system.

Of these, the simplest is the LC system shown in Fig. 17a. This is quite often used in treble filter circuits, and the arrangement shown in Fig. 17b is the threefrequency variable slope filter of the Quad 33 preamp. Although one could also use this arrangement as a rumble filter, this is not commonly employed mainly because the large values of inductance required would lead to a proneness to hum pick up. To get a good rate of LF attenuation, the Q of the LC network would need to be high. This is determined by the ratio L/CR (where R is the winding resistance of the choke, and its associated core losses), which means that L has to be high, so that the required low frequencies cannot be obtained simply by using a big C.



Fig. 18 Sallen and Key active filter circuits: (a) high pass (30 Hz) -12dB per octave; (b) low pass (1 kHz) -12dB per octave.

FEATURE : Audio Design



Fig. 19 Bootstrap or H filters: (a) high pass (30 Hz) - 20 dB per octave; (b) low pass (nominally 1 kHz, actually 1145 Hz) -20 dB per octave.

More conveniently, active filter arrangements can be used, based on some power amplifying element, such as an op amp, and a group of Cs and Rs. The circuits for active filter arrangements are very numerous, but two of the most useful, which can be built around any suitable op-amp, or even an emitter follower, are the Sallen and Key and the 'Bootstrap' circuits, which I have shown in Figs. 18 and 19 in their respective high-pass and low-pass versions, together with appropriate circuit values for 1 kHz (low-pass) and 30 Hz (high-pass).

This latter value is conveniently placed for a preamp rumble filter, but all of the filter turn-over frequency



Fig. 20 Filter slopes given by treble and bass filters of Figs. 18 and 19.

points can be scaled up or down by proportional adjustments to the values of the resistors **or** the capacitors. One can check the correctness of ones choice from the formula $F_t = 1/2\pi\sqrt{R1R2C1C2}$. As shown, the Sallen and Key circuits of Fig. 18 will

As shown, the Sallen and Key circuits of Fig. 18 will give a -20dB/octave attenuation rate, because they have a three section structure, and one can push the Q up a bit higher. (Other things being equal they would have given -18dB/octave). The slopes obtainable are shown in Fig. 20.

The analysis of these circuits, and the method of calculating their performance is a little beyond the scope of this part of this series, but I will explore this field later, when I take alook at the use of complex numbers in calculating the impedance and phase shifts caused by reactive components in passive and active networks.

In the next part of this series I propose to take a look at audio power amplifiers, to see how these may be designed, and to try to assess the present state of development of these, and how much of the myth has a foundation.

A wide range of high performance instruments, at prices that are hard to beat, puts professional test capability on your bench. Z 900 COUNTERS – TF200 10Hz to 200MHz; TF040 10Hz to 40MHz; PFM200A 20Hz to 200MHz (hand-held model); TP600 prescales to 600MHz; TP1000 Prescales to 1GHz. O MÜLTIMETERS – TM351 0.1% 3½ digit LCD; TM353 0.25% 3½ digit LCD; TM355 0.25% 3½ digit LCD; TM354 0.75% 3½ digit LCD (hand-held model); TM451 0.03% 4½ digit with autoranging and sample hold. OSCILLOSCOPE - SC110A 10MHz, 10mV sensitivity, 40mm CRT with 6mm graticule divisions. THERMOMETERS – TH301 – 50°C to +750°C, 1° resolution; TH302 – 40°C to +1100°C and – 40°F to +2000°F, 0.1° and 1° resolution. Both accept any type K thermocouple. GENERATORS – TG100 1Hz to 100kHz Function, Sine, Square, Triangle Wave; TG102 0.2Hz to 2MHz Function, Sine, Square, Triangle Wave; TG105 5Hz to 5MHz Pulse, Free Run, Gated or Triggered Modes. LOGIC ANALYSERS - TA2080 8 channel 20MHz; TA2160 16 channel 20MHz. ACCESSORIES - Bench rack, test leads, carrying cases, mains adaptors, probes, Send for our latest catalogue and price list. Thandar Electronics Ltd. London Road, St. Ives, Huntingdon, Cambridgeshire PE174HJ. Telephone (0480) 64646. Telex 32250. CARDON CONTRACTOR THIL TRONICS LIMITED PUTTING THE BEST WITHIN YOUR GRASP



FINESSE LIGHT CHASER/SEQUENCER

Bored with lights that just flash on and off? Get them to chase around in pretty patterns and mesmerise your friends with the ETI Finesse Light Chaser unit. Design by Ian Benton.

he electronics controlling a disco lightshow is increasing rapidly in sophistication - so here's my attempt to do for the light chaser what ETI's "Spectracolumn" did for the sound to light unit last December. Here's the Finesse Light Sequencer.

This design uses only a similar number of components to the average light controller but provides many more functions, coming a close second in versatility to a fully microprocesor controlled light system. It provides not only the chase/invert/all-flash patterns that are available on the simplest controllers and the forwardreverse chase patterns that appear

on some of the more upmarket versions, but a selection of forty different sequences including 10 chase patterns (chase up, chase down, alternate forward reverse, chase in twos, chase in fours etc.) eight flash patterns (all flash, a short strobe-type flash, left & right alternate flashing, centre & outside alternate flashing), and 20 other sequences including chasing from both sides to the centre, etc. and two test sequences (all on and all off). In addition, the unit has both sound-chase and auto-chase facilities so the lights can be set to change in time to the music or at a constant rate determined by a front-panel mounted potentiometer.

The unit can be used to drive all manner of light boxes - certain sequences appear more impressive on different types of display up to a maximum of 375 watts per channel - any more than that and the mains fuse blows when all 8 lights turn on together the prototype drives a long box with eight spotlights plus two square boxes with eight lamps arranged in a radial pattern.

The various sequences are stored in an EPROM with one byte (8 bits) determining the state of each of eight lamps, and 16 bytes in each sequence so that the display steps through 16 changes of



PROJECT

lights before it repeats again. The sequences are selected using a 40way (CB rig type) switch. This produces a BCD output which is connected to address lines A4-A9 (A10 is not used), and a two digit seven segment output which drives a front panel display. As the switch has BCD outputs the addresses from A to F (hex) cannot be used, which limits the system to 40 sequences out of the possible 64.

A 2716 (16K) EPROM was chosen as the data storage device. Although only half the available memory is used it has an advantage of cost over the 8K (2758) EPROM which is now not easily obtainable, and of ease of use over the 2708 which requires in addition a -5V and +12V power supply.

Bipolar (Schottky) PROMs were considered as they are completely non volatile (an EPROM may suffer data loss it gets too close to the disco UVs without an opaque sticky label) but these are far more expensive than the EPROM (£11 for a Schottky PROM compared to about £2,25 for an EPROM) and cannot be erased if you make a mistake during programming you have to throw it away and start again with a new one. However, it is possible to use a Schottky PROM with a slight change to the PCB: see Modifications section.

The circuit also includes an optional LED display which shows what should be happening at the front. It was decided not to include bulb failure detection as the prototype drives three bulbs in parallel and so would only show a failure if all three bulbs blew which is fairly unlikely.

The completed circuit is split into three sections. The transformer, rectifiers, and reservoir capactor were mounted separately as they were common to another controller which was mounted in the same box as the prototype. Note that no PCB has been given for this

ETI DECEMBER 1983

section, as it is much cheaper to mount these components separately, either using a piece of Veroboard or point-to-point wiring. Do remember that **all** the PSU components are at mains potential. The sound chase board was kept separate to place the microphone behind the front panel and keep the wires between the speed control potentiometer and the oscillator circuit to a minimum to avoid pickup of unwanted signals causing spurious output pulses.

The sound chase circuit features automatic level control which eliminates the need to adjust a level control. It gives a genuine sound-chase which changes the lights on the beat instead of just varying the speed according to the volume of sound. The circuit has a fast attack and fairly slow decay so it is quite effective at picking out drum beats or cymbals. The circuit includes its own crystal microphone which is of sufficiently high quality for this application as only the general sound level needs to be detected. If you're very fussy, you could use an electret condenser microphone if you can find a 1.5V power supply for its internal JFET amplifier. The sound chase and oscillator circuits are implemented using a TL064 IC (this is the guad lowvoltage low-power version of the familiar TL071).

No connection should be made to the disco sound equipment unless it is done through an isolating transformer or optoisolator as the entire sequencer circuit is at mains live potential.

As an added bonus the circuit features zero-crossing control of the triacs — this eliminates radio frequency interference which is generated if a triac turns on in the middle of a half-cycle and also reduces the current required to trigger the triacs as they are only triggered at the beginning of each half cycle.

The overall cost of the circuit



compares very favourably to a commercial unit and even to some of the simplest three channel controllers; the major part of the cost will probably be in the bulbs, bulbholders and connectors.

Construction

Be especially careful when soldering on the PCB as the tracks are very close together in places and both mains live and neutral appear on the same board. Use a good quality socket for the EPROM as you may need to remove it; the other ICs can be soldered directly if you feel confident enough, otherwise use sockets. Take care to get the tantalum capacitors the right way round (they smell terrible when they blow up) as well as the ICs and diodes.

The actual transitor types used are not critical, but the PCB is laid out for the types specified, and you will have to make sure that the right leads go down the right holes.

HOW IT WORKS

The audio signal is picked up by the crystal microphone and amplified by IC1a which has a high gain. IC1b along with D1,R5 and C1 form a peak detector which has a fast atack and slow decay. R6 and C2 follow the peak with a delay, IC1c compares the peak signal with the delayed signal and therefore produces a pulse corresponding to any sudden increase in volume.

IC1d along with R7,R8,R9,R10,C3 and RV1 form a conventional Schmidt trigger oscillator with a speed variable from 0.5Hz to 10Hz. Switch SW1 switches between the Sound and Auto inputs.

1C2 is a four-bit binary counter which counts the input pulses and steps the four low-order address lines of the EPROM though the 16 bytes of the sequence.

SW2 provides the high order address lines and also drives a 7 seg display. The switches are connected between the input and ground to maintain compatibility with bipolar PROMS which require a higher pull-down current which is thus provided through the switch and not the resistors.

D2 and D3 clip the mains 50Hz sinewave and IC3a produces a square wave. This is doubled by IC3b, buffered by IC3c and inverted by IC3d to produce a positive going and a negative going pulse; these are used to enable the EPROM outputs at the beginning of each half cycle and to latch the data into the LED driver (IC5). Q3 to Q10 produce a 50mA pulse to trigger the triacs (SCR1 to SCR8) which turn the lamps on.

The power supply is fairly conventional with a transformer, rectifier diodes, reservoir capacitor and threeterminal regulator. The 5V output is connected to mains live. C6 is a decoupling capacitor for the EPROM supply.



Fig. 3 Overlay diagram for the main board and the sound board (on left).

In particular, note that the pin-out of the BC184L is different from that of the BC184. Note also that IC2 and IC3 face in different directions. All the ICs apart from the TL064 and 74LS373 are MOS so require handling carefully — don't touch the pins more than you have to and make sure that your soldering iron has an earthed bit. The TL064 is JFET and LS373 is bipolar and you can touch them as much as you like!

If your crystal mic is mounted a hole in the front panel, make sure that you use a plastic-bodied type as the metal body is connected to one terminal which will therefore be at live potential.

The TL064 op-amp must not be re-placed by a TL074 or TL084 even though these types are cheaper. The 74/84 only works down to 6V whereas the 64 will operate at the 5V supply used by the rest of the circuit. The EPROM can be the cheapest type available (try Rapid Electronics); this will also be the slowest, but 450ns is still plenty fast enough as the inputs are changing no faster than 20Hz and any access time better than 1 ms is good enough. If you're using your own PCB design or Veroboard (??) then don't swap MT1 and MT2 on the triacs even though it simplifies PCB layout. These are not interchangeable and the circuit won't work with them connected the other way round (I tried it!)

A transformer is recommended for the power supply — even if you omit the LEDs you would still need a very hot resistor or hefty capacitor to provide the 70mA that the EPROM needs.

The triacs are driven by PNP emitter followers; while this simplifies board layout (as no base resistors are required), it confuses things slightly as the triacs are then switched on by a zero output from the EPROM. This isn't such a bad thing as erased EPROMs are full of FFs (all outputs high) so this means that an unprogrammed location turns all the lights off.

The triacs are triggered by a negative gate pulse. In this way less current is required to trigger them on (5mA as opposed to 10mA for a positive going gate pulse). The triggering current is actually 50mA; this is to ensure that the triacs turn on fully as quickly as possible. This is fairly important as lamps can have a turn on surge current of up to 10 times the normal running current and the triac will only cope with this if it is fully turned on.

Connections are made to the main board using "Wafercon" terminals for the mains outputs and Minicon connectors and ribbon cable for the switch and LEDs. ' These are more reliable than soldering to the PCB as movement can easily break a solder joint. (Minicon & Wafercons are from MAPLIN).

The seven segment displays can be either common anode or cathode. The circuit diagram shows the common anode variety with the common display terminal connected to 5V and the switch common to 0V. For common cathode displays simply reverse these two connections.

The CB rig switch (SW2) comes from Ambit, their catalogue shows two types along with a connection diagram. One type produces a BCD output which is one less than the number displayed on the 7 segment displays — for this application, this is immaterial. The displays were mounted on a scrap

PROJECT : Light Chaser

PARTS LIST

RESISTORS (all 1/4	W 5% except as
indicated)	
R1, R2	22k
R3,R12	47k
R4 D5	2M2
DC NO	
07 D9 D0 D29	60K
R10	100K
R11	150k 1/3 M/
R13	150k
R14.R15	15k
R16-R29.R47-R54	330R (22 off)
R30-R37	22k x 8 SII
	resistor
R39-R46	100R (8 off)
RV1	500k log
	0
CAPACITORS	
C1	3µ3F 6V3 tant
C2,C3	1μF 6V3 tant
C4	10nF Siemens PCB
	polyester
	2200μF 10V
61	Electrolytic
Co	10µF 6V3 Tantalum
SEMICONDUCTO	DC
IC1	K5 T1064
102	4520
103	4070
1C4	2716 450ns
	FPROM
IC5	74LS373
IC6	7805 1A 5V
	regulator
D1	1N4148
D2, D3, D4, D5	1N4001
Q1,Q2	BC184L
Q3-Q10	2N3702 (8 off)
SCR1-SCR8	TIC206D (8 off)
LED1,2	Seven segment
	LED displays (see
LED2 10	text)
1103-10	single LEDs to
	choice
MISCELLANEOUS	
T1	6-0.6 V 6VA
SW1	SPDT switch
SW2	Rig Switch - see
	text
FS1	13A fuse & holder
PCBs; lightholders:	connectors to suit:
IC sockets as requir	red: crystal micro-
phone	

piece of veroboard which was fixed to the front panel, and the interwiring between the displays and the switch was done using the 330 R resistors and insulating sleeves. The switch is intended to be PCB mounting but was used mounted on the front panel and connections were made by soldering wires to the tags.

The rectifier diodes and capacitor were mounted on another piece of veroboard fixed next to the transformer.

Both outputs from the soundchase/oscillator board are taken to an SPDT switch, from which the common terminal goes to the clock input on the main PCB. 5V and 0V power supply wires are taken from the main PCB to the sound-chase/oscillator board. All

SEQUENCE	ADDRESS							COD	E	1									
40	1460	FF	FF	FF	FF	FF	FF	FF	FF	Fr	FT	ΞŦ	17	FF	EF	72	ΞĒ.		
39	1470	00	00	00	00	00	00	00	00	00	00	00	-00	.00	00	00	00		
38	1480	00	FF	00	FF	00	FF	00	FF	00	FF	00	-77	00	EP.	80	FF.		
37	1490	FF	00	FF	00	FF	00	FF	00	FF	00	FF	00	FF	00	EE.	00		
36	14A0	\mathbf{FF}	FF	FF	00	FF	FF	FF	00	FF	FF	FF	00	FF	FF	FF	00		
35	14B0	FO	OF	FO	0F	FO	0F	FO	0F	FO	OF	FO	0F	FO	0F	FD	05		
34	14C0	FO	FF	0F	FF	FO	FF	0F	FF	FO	FF	0F	FF	FO	म	OF	EE.		
33	14D0	С3	3C	C3	3C	C3	3C	C3	3C	C3	3C	C3	3C	C3	30	03	30		
32	14E0	AA	55	AA	55	AA	55	AA	55	AA	55	AA	55	AA	55	ÅÅ.	55		
31	14F0	AA	FF	55	FF	AA	FF	55	FF	AA	FF	55	FF	AA	FF	55	FF		
	1500	- 15	6F	FF															
30	1560	75	DF	BF	FF	DF	F7	FF	TP	E7	ED	ED	PE	00		00	-		

1570 7F 5F 57 55 54 50 40 00 80 A0 A8 AA AB AF BF FF 29 1580 7F DF F7 FD FE FB EF BF 7F DF F7 FD FE FB EF BF 28 27 1590 7F 5F 57 55 45 05 04 00 80 A0 A8 AA BA FA FB FF 26 15A0 7F DF F7 FD BF EF FB FE 7F DF F7 FD BF EF FB FE 25 15B0 FC F3 CF BF 00 FF 00 FF 3F CF F3 FC 00 FF 00 FF 24 15C0 E7 C3 81 00 18 3C 7E FF E7 C3 81 00 18 3C 7E FF 15D0 E7 C3 81 00 81 C3 E7 FF E7 C3 81 00 81 C3 E7 FF 23 22 15E0 E7 C3 81 00 18 3C 7E EE 7E 3C 18 00 81 C3 E7 FF 21 15FO 7E BD DB E7 E7 DB BD 7E 7E BD DB E7 E7 DB BD 7E

1660 7E BD DB E7 7E BD D8 E7 7E BD D8 E7 7E BD D8 E7 20 1670 FO OF F1 8F F3 CF F7 EF F0 OF F8 1F F0 3F FE 7F 19 1680 7F FE BF FD DF F8 EF F7 7F FE BF FD DF F8 EF F7 18 17 1690 7F FE BF FD OF FB EF F7 7F FE EF FD 100 16 16A0 OF 87 C3 E1 F0 E1 C3 87 OF 87 C3 E1 F0 E1 C3 87 1680 3F OF 03 00 00 FO FC FF 3F 0F 03 00 00 FD FC FF 15 14 16C0 3F CF F3 FC 3F CF F3 FC 3F CF F3 FC 3F CF F3 FC 13 16D0 FC F3 GF 3F FC F3 GF 3F FC F3 GF 3F FC F3 GF 3F 16E0 77 BB DD EE 77 BB DD EE 77 BB DD EE 77 12 88 00 FE 11 16F0 EE 00 58 77 EE 00 88 77 EE 00 55 77 EE 10 88 77 1700 - 175E FF 1760 TF FT SF FB IF FD EF FE FF FF DF FD EF FE 10 1770 7F 3F 1F OF 07 03 01 00 80 D0 E0 F0 F8 FC FE FP 8 1780 FE FC F8 F0 ED C0 80 00 01 03 07 OF 1F 3F 7P FF 1790 TF 32 1F 0F 07 03 01 00 FF 7E 3F 1F 0F 07 03 01 FE FC F8 F0 E0 C0 80 00 FF FE FC F8 F0 E0 80 A0 8 1780 TF SF DF EF F7 FB FD FE FE FD FB F7 EF DF BE 7F 1700 FC F9 F3 E7 CF 9F 3F 7E FC F9 F3 E7 CF 9F 3F 7E 1 2 1700 TE FE FC FD F9 FB F3 F7 E7 EF CF DF 9F BF 3F 7E 2 17ED 7F BF DF EF F7 FB FD FE 7F BF DF EF F7 FB FD FE 17F0 FE FD FB F7 EF DF BF 7F FE FD FB F7 EF DF BF 7F

Table 1 Suggested EPROM contents.

the inter-PCB connections are shown on the diagram. The use of D-type sockets to connect the lights to the controller box is not recommended — you may get a nice display of pyrotechnics as the wires touch together but the triacs will blow faster than any fuse in the circuit and remove the tracks from the PCB. Use larger sockets as the McMurdo types which also have a retaining clip.

ALL REMAINING LOCATIONS - FF

1600 - 165F FF

Setting-up

There are no adjustments to be made to the circuit — just connect to the mains (carefully), stand well back and switch on. If you get a flash of light from the PCB then you had a short circuit and now your probably haven't much of a PCB left. On the other hand, if nothing happens first check that the switch is not set to 40 (this is all light off). If there are still no lights, check that there is 5V on

BUYLINES.

The rig switch is available from Ambit; the suggested connectors are available from Maplin (although substitute types could be used); shop around for the EPROM and buy the cheapest you can find — Rapid should be worth a look; and the PCB is available from our very own service. the ICs — pins 24 and 12 on the EPROM 16 and 8 on the 4520, 14 and 7 on the 4070 or 4 and 11 on the TL064. If not suspect a bad connection or faulty voltage regulator. Check also that there is a 50Hz high mark/space ratio waveform on pins 18 and 20 of the EPROM — if not check round the 4070.

When all is working, play a record with a strong beat and check that when the SPDT switch is on 'sound' the lights change with the beat and that the lights change at a constant rate adjustable by RV1 when the SPDT switch is set to 'auto'.

When poking around with your 'scope/multimeter, don't forget that the circuit is at live potential, better still, use an isolating transformer. (It's a good idea to keep one hand behind your back all the time — this considerably lessens the likelihood of receiving a fatal shock).

Make sure that you don't put the sequence switch too close to the microphone otherwise the unit will respond to the clicks made by the switch when you change the sequence, and, as these are quite loud the unit will take a couple of seconds before it starts soundchasing again — this is due to the slow decay on the soundchase circuit.

EPROM Programming

Each sequence lasts for 16 bytes, a zero corresponds to on and 1 to off hence EC (hex) = 11101100 (binary) = lights 1,2 and 5 on, lights 3,4,7 and 8 off.

The starting address is 16 times the 1s complement of the output from the switch (see PROM dump if confused). This is because the switch is connected between the address line and 0V with a pull-up to 5V so that the output of the switch is inverted. This is to maintain compatibility with Schottky PROMS on which the address lines can be pulled up to 5V with a much higher value/resistor than down to 0V.

Modifications

Here is a list of possible enhancements:

1. Using a Schottky (fusible link) **PROM.** The type required is

875191. A slight modification has to be made to the PCB. Cut the track that connects pin 18 to pin 20 on the EPROM and connect pin 18 to pin 19 (a good big blob of solder will do).

Using the rest of the memory. Address line A10 is normally tied to 5V. This means that only the top 1024 bytes of memory are used (from 400 hex to 7FF hex). To use the other 1024 bytes cut the track between pins 19 and 21 on the EPROM and connect pin 19 to a SPDT switch which can connect pin 19 to either 0V or 5V (don't leave it floating). This is slightly more tricky on the bipolar PROM as A10 is pin 21. Cut the track at both sides of pin 21 and connect pins 18/19 (you connected them together above) to 5V. Connect the switch (as above) to pin 21. 3. If you want to use more than 375 Watts per channel: (a) Use heatsinks for the triacs, or if you are using spotlamps, use TIC226D instead; (b) Reprogram the EPROM so that the number of lights on at any one time cannot exceed 3000W (otherwise you'll blow the mains fuse). ETI

WRONG TIME?

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ELECTROVALUE THE E.T.I. October 1983 ENTHUSIAST'S Product List ECTROVATO **BUYING GUIDE** It's amazing what you'll find in the pages of our current Autumn price list, be you beginner expert or professional. The list below gives some idea of the enormous stocks we carry and our service is just everything you look for and is backed by nearly 20 years of specialised experience. Write, Phone or call for our Autumn price list now! It's FREE! Good Bargains Please mention Good choice this journal when Prompt mail order service applying 'Access' facilities Connectors Lamps Switches Aerosols Batteries Discounts Meters Solder tools Opto-electrncs **E**lectrolytics Tools Boxes Ferrites Quantity prices Transformers Breadboards Grommets Vero products Visa'facilities Quartz crystals Computers & Hardware Rsistors equipmnt. I.Cs. Relavs Zeners Semi-conductrs Capacitors Knobs ELECTROVALUE LTD. 28 St, Jude's Rd., Englefield Green, Egham, Surrey TW20 0HB. Phone — (0784) 33603 Telex: 264475: Northern Shop 680 Burnage Lane, Manchester (Callers Only) EV (061-432 4945) Computing shop 700 Burnäge Lane M/c. (061-431 4866).

T.V. SOUND TUNER BUILT AND TESTED

In the cut-throat world of consumer electronics, one of the questions designers apparently ponder over apparently ponder over is "Will anyone notice if we save money by chopp-ing this out?" In the domestic TV set, one of the first casualities seems to be the sound quality. Small speakers and no tone controls are common and all this ir really outle said, set



COMPLETE WITH CASE

£24.95 + £2.00p&p and no tone controls are common for the set of the set

E.T.I. kit version of above without chassis, case and hardware. £12,95 plus £1.50 p&p

PRACTICAL ELECTRONICS SPECIAL OFFERI STEREO CASSETTE RECORDER KIT COMPLETE

ONLY £31.00 plus £2.75 p&p.

* NOISE REDUCTION SYSTEM, + AUTO STOP, + TAPE COUNTER, + SWITCHABLE E.Q. + INDEPENDENT LEVEL CONTROLS + WIN VU, METER, + WOW & FLUTTER 0,1%, • RECORD/PLAYBACK LC, WITH ELECTRONIC SWITCHING, + FULLY VARIABLE RECORDING BIAS FOR ACCURATE MATCHING OF ALL TYPES.

Kit includes tape transport mechanism, ready punched and back printed quality circuit board and all electronic parts, i.e. semiconductors, resistors, capacitors, hardware, top cover, printed scale and mains transformer. You only supply solder & hook-up wire, Featured in April P.E., reprint 50p, Free with kit.

DECK

Stereo cassette

tape deck trans port with elect-Manufacturer's surplus – brand new and operat-

ional – sold without warranty,

STEREO TUNER KIT easy to build 3 band stereo AM/ FM tuner kit

FM tuner kit is designed in conjunction with P,E.(July '81), For ease of construction and alignment it incorporates three Mullard modules and an

I.L. IF System

FEATURES: VHF, MW, LW Bands, Interstat-ion muting and AFC on VHF, Tuning meter. Two back printed PCB's, Ready made chassis and scale, Aerial: AM-ferrite rod, FM-75 or and scale, Aerial: AM-ferrite rod, FM-75 or 300 ohms, Stabilised power supply with 'C' core mains transformer, All components supp-lied are to P, E, strict specification, Front scale size 10%" x 2%" approx. Complete with dia-gram and instructions.

SPECIAL OFFER! f13 95 +f2 50 n&n

125W HIGH POWER AMP MODULES

The power amp kit is a module for high power applications - disco units, guitar amplif-iers, public address systems and even high power domestic systems. The unit is protected against short circuiting of the load and is safe in an open circuit condition. A large safety margin exists by use of generously rated com-ponents, result, a high powered rugged unit. The PC board is back printed, etched and ready to drill for ease of construction and the aluminium chassis is preformed and ready to use. Supplied with all parts, circuit diagrams and instructions. The power amp kit is a module for high

ACCESSORIES: Stereo/mono mains power su kit with transformer: £10,50 plus £2,00 p&p. supply



Note Goods despatched to U.K. postal addresses only. All items subject to availability. Prices correct at 31.5/83 and subject to change without notice. Prease allow 14 working days from receipt of order for despatch. RTVC Limited reserve the right to up-set their products without notice. All enquiries send S.A.E. Telephone or mail orders by ACCESS welcome.

ETI DECEMBER 1983



STEREO CASSETTE



SPECIFICATIONS: Max, output power (RMS): 125 W, Operating voltage (DC): 50 - 80 max, Loads: 4 - 16 ohm. Frequency response measured @ 100 warts: 25Hz - 20KHz, Sensitivity for 100w: 400mV @ 47K, Typical T.H.D. @ 50 watts. 4 ohms: 0.1%, Dimensions: 205x90 and 190x36mm.

KIT £10.50 BUILT £14.25 -£1.15 p&p





Positronics leads the field in providing an inexpensive range of professional specification power supply units, to industry and the enthusiast. Their features and performance being worthy of instruments twice their price, such as visual LED indication of mode, either constant current or constant voltage, ripple less than 1 my, voltage regulation better than 0,01%, load regulation better than 0.01% oilus overload protected.

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POSITRONICS

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- O 1 amp output continuous
 Integral 6 range meter giving.

8-100 mA

- 10 v 0-300 mA 1 A 0.30

In Kit £37.90

Built & Tested £49.90

PSU 301 5

- 0 30 volt output
- 0 1.5 amp output continuous
- 0 1.5 amp output communues 1 integral 6 range meter giving, 0 3 v 0 100 mA 0 10 v 0 500 mA 0 30 v 0 1.5 A

- In Kit £46.90
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From kit or built and tested you will have a highly controlable power source of

exacting design, engineering and quality. All prices inclusive of VAT_P&P £2.90. Please allow 21 days delivery.

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- * 0 -3 amp output continuous
- * 0 3 amp output continuous * Integral 6 range meter giving, 0 3 v 0 100 mA 0 10 v 0 500 mA 0 30 v 0 3 A

4

- Performance light weight toroidal transformer. DVS Dual Voltage Switched
- Designed by Positronics this allows the unit to deliver twice the current of conventional variable power supply units.
- In KI: £58.90 Built & Tested £74.80



BUILD A BETTER AMPLIFIER!



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PRICES

PRICES CK1010 - STEREO PRE-AMPLIFIER (moving magnet, tape, tuner input) takes power from any CK power amp or separate p.s.u. type £92.00

P.S.K. £92.00 CK1040 — STEREO POWER-AMPLIFIER 40 watts R.M.S./Chanel £121.00 CK1080 — STEREO POWER-AMPLIFIER 80 watts R.M.S./Chanel £134.00 CK1100 — STEREO POWER-AMPLIFIER 100 watts R.M.S./Chanel £134.00 CK12K — Moving coil add on kit for CK1010 P.S.K. — power supply for CK1010 (if not used with a CK power amp) £25.00 £20.00 CRIMSON also supply power amp, pre amp and electronic crossover modules, power supplies and hardware — too much to list here — but on receipt of an S.A.E. we will be happy to supply full details.

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REVIEW : ALTAI CAPACITANCE METER

Do you ever need to check capacitance? Vivian Capel reviews a meter that takes the misery out of measurement

ho wants to measure capacitors? Many amateur electronic enthusiasts and some professional technicians too, go through life without making a single measurement of capacitance and seem little the worse for it. After all, if you suspect a capacitor in a circuit, you just change it, if the fault clears well and good, if it doesn't you look elsewhere.

Capacitors can be the most troublesome of the passive elements in any circuit — surpassed only by connectors and dry joints as a source for trouble. You may even find it well worthwhile to check all new capacitors as a matter of routine — particularly when prototyping, when it is important to rule out possible sources of malfunction at an early stage.

There are many other situations where capacitance measurement can be very helpful, if only it was as quick and straightforward as measuring resistance. The answer is to invest in a direct reading capacitance meter. There are a few models about, although they are not as common as the bridge. One of the latest to appear is the ALTAI DM-6013, supplied by Semiconductor Supplies International Ltd., 128/130 Carshalton Road, Sutton, Surrey, at a cost of £49.50 plus VAT.

A Closer Look

The Instrument is housed in a plastic case sized 7x3¼x1½ inches, which feels sturdy to handle, not like some instrument cases. It can be supported on the workbench at an angle by means of a pull-down stand at the back.

It doesn't take that close a look to see that the display is a digital LCD read-out giving half-inch high figures. Now I am not over-enthusiastic about LCD displays in spite of their power economy, as the readability is not always what it should be. I have no grumbles with this one though, the 3½-digit read-out comes with bold black figures against a silver-grey background. I found it readable from most angles and in poor light.

A striking feature of the meter is its range. It will measure from 0.1 pF up to 2000μ F, which when you think about it is a staggering ratio of $1:2^{10}$. The low end of this range does permit some interesting experiments in circuit stray-capacity.

The eight individual ranges are selected by interlocking push-buttons arranged down the left-hand side of the instrument. These advance in value in increments of ten, from the lowest at 200 pF to the highest 2000μ F. Resolution is from 0.1 pF at the lowest range to 1μ F at the highest.

Specified accuracy is 0.5% on all ranges except the highest for which it is 1.0%. If at any time the accuracy falls outside of those tolerances, the instrument can be recalibrated by the user by means of an internal preset and a capacitor of known value, preferably a large value near the maximum for the particular range.

The instruction booklet describes how to do this, but

owing to the inherent stability of the LSI circuitry it should rarely be necessary. If much hard use is envisaged though, it might be prudent to anticipate recalibration, by selecting a suitable capacitor with a low temperature coefficient and recording its measured value with the new instrument. This could subsequently be used as the standard for accuracy checks and recalibration.

Apart from the range switches the only other controls are the on/off switch and a set-zero knob. This latter was the cause of some initial disappointment as I imagined having to fiddle with it each time a range was changed or a measurement made. I was relieved to find I was wrong, as this would have been as irksome as finding the null on a bridge. The control has an adjustment range of ± 20 pF and therefore is significant only on the bottom two ranges, especially the lowest. Its purpose is to cancel the capacitance of the test leads when making low capacitance measurements.

The instrument applies a small excitation voltage of 2.8V maximum to the capacitor under test. The bottom five ranges function on a fequency of 800 Hz, but for the



____ FEATURE : Review

higher ranges, the frequency is lowered to 80 Hz (200μ F range) or 8 Hz (2000 μ F). Sampling of the capacitance takes place every half-second, so any variations change the read-out at this rate.

Polarity of electrolytic and tantalum capacitors must be observed, this being indicated by the colour of the leads and sockets (red and black). It is essential to discharge any capacitor before connecting it to the meter, otherwise damage could be caused: there is a 200 mA fuse at the input, but it is wise not to rely on this.

Powering is by a PP3 battery which lasts for 100 hours operation or 200 hours in the case of an alkaline type. When the battery voltage falls to 6.7-7.0V, the legend "LOBAT" appears in the top left-hand corner of the LCD display. When this happens there is still some 20% of the battery life left and several hours use, so this is in the nature of an early warning rather than an instruction for immediate replacement. It shouls not be used for too long beyond this though, otherwise the accuracy will fail with subsequently falling voltage.

In Use

How then did it perform? A good capacitor gave a stable reading within a couple of seconds of being connected. The zero setting on the lowest range was rather touchy, but this is to be expected when dealing in tenths of a picofarad. Movement of the test lead or even one's hand can give a change of capacitance.

On my first introduction to the instrument I felt it was a pity not to have included a leakage test. However, after using it to measure quite a number of capacitors of various types and sizes I found that there is, in fact, a way of testing for leakage. Digit rounding apart, leaky capacitors will give higher readings on the higher range(s) than on the lower. Large leakages (and dead shorts) will return the over-range "1" reading on all ranges.

I also noticed that some capacitors did not give a stable reading, usually yielding a slowly increasing one. Whilst this is not that bad a behaviour for an electrolytic (typical tolerance - 50% or + 100%), it is bad news for an unpolarised type, and resulted in a fair number of my stock capacitors being consigned to the bin! Also ditched was a smaller number that gave a continual up and down variation.

Lead Testing

A job that I discovered I could do with the test meter was to find the approximate position of an open circuit in a faulty audio lead, so easing the job of repair (OK, I know that if it's gone O/C once, it's likely to go again some-where else, and the best thing to do is to dump it, but there are occasions when this isn't possible . . .)

When a connecting lead goes O/C, it is almost always near the connector, because there is more flexing there. But at which end? Well it's easy enough to tell with the meter — simply check the inter-conductor capacitances at both ends (ie. centre to screen); the end with the lower capacitance is the one with the fault near it. In the rare event of a break near the midle, this will show up as approximately equal to the ratio of the two lengths to the break.

Conclusion

This is an excellent instrument which does its job well, and which you tend to use more and more until you wonder how you managed without it. It is accompanied by a well-written and informative instruction booklet that contains much useful data including a table listing the various types of capacitor and their characteristics. ETI 9" MONITOR in altractive case. Non Standard Input With Info 225 each. Carr 97. Matching ACSIL coded Querty Keyboard with Numeric Keypad and 27 Function Keys 225 each P&P 15. The Pair 240.

Carr C7 12***MONITOR: Cased: Non Standard Input: With Infor E20 apch: Carr C7 With Matching ASCI coded Querty Keyboard with Numeric Padand 24 Function Keys C2 St Ne Pair: Carr C7 AZTEC 20: black & white monitor. Video in E50,Tt Style 20: Monitors E30

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 VARIAC 2 amp Ex-eq. Good condition £12 ea.

P3P £4 LED type TIL209 Red with holder - 8p ea. 10 off 70p I C. SOCKET 16 pin - 8p ea. 100 off £6.

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Amp, orange, 60p such, 10 off 14, JOYSTICK SWITCH 4 directions, C3 each, PGP 22, PCB KEYBOARD PAD, 10 push contacts, 0-9; A-F plus 3 optional, 61,60 aach, 10 off 612, KEYBOARD PAD, 12 Almas Read Switches, push to make, 0-9; *; 6 Blank, alw 3 x 2; x 2" high, 24 each, 10 off 151, PGP 42, EPROM 2716 Single rail, 61,80 each, 2564 63 SPECTRAL RELIANCE TEN TURN POR, 100 ohm ± 10°, 8 mind new, 75p each 10 off 90, 200K or 24, 35p each, 10 off 12, PANEL MOUNTING FUES HOLDER for 1 ½" fue, 25p each, 10 off 12, PANEL MOUNTING FUES HOLDER for 1 ½" fue, 25p each, 10 off 12, PANEL MOUNTING FUES HOLDER for 1 ½" fue, 25p each, 10 off 12, BELLING LEE CHASSIS MOUNTING FUES HOLDER for 1 ½" fues, 15p each, 10 off 61, LEC, MANS LEAD, 2 matrix length, heavy duty, 60p each, 10 off 63, 4 CORE CURLY WIRE extending to 2 matres, 20p each, 10 off 61, 80. MICROPHONE/EARPIECE INSERTS, 6 rand new, 75p each, 10 off 63, 4 CORE CURLY WIRE extending to 2 matres, 20p each, 10 off 61, 80. MICROPHONE/EARPIECE INSERTS, 6 rand new, 75p each, 10 off 63, 4 CORE CURLY WIRE extending to 2 matres, 20p each, 10 off 61, 80. MICROPHONE/EARPIECE INSERTS, 6 rand new, 75p each, 10 off 63, 4 CORE CURLY WIRE EXTURE 2400 AC MOTOR, Size 827, 75 x 78mm, Shalf 43 x 4mm dia, 51, 50 ea P&P 22; TRANSFORMER I input 0-220-240V Sec 0-12; 0-24V 1 Amp, 52 each.

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STEWART OF READING

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Where have all the constructors gone? All the people who some

Where have all the constructors gone? All the people who some years ago would have been building their own low distortion amplifiers, their own synthesisers, speaker cabinets, digital alarm clocks and so on?
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 Do they make solution, specification, price lists

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PROJECT

MODULAR PREAMPLIFIER

If walls had ears... they'd certainly appreciate ETI's audio building blocks. Barry Porter surveys the ground and comes up with a few plans.

Pre-amplifiers come in all shapes and sizes, yet all are designed to perform the same basic function — to select the output of a given signal source and apply it to a power amplifier at a level that can be adjusted to give the required power output.

It is evident that no pre-amplifier on the market satisifies everyones requirements. Some people must have tone controls while others will not entertain them at any price. Some want moving coil cartridge inputs, others do not . . . What is really required is a pre-amplifier that can be constructed to suit individual needs — a sort of audio Lego kit!

After much deliberation it was decided to design just such a unit, using a mother board system with the active circuitry on individual plug-in boards. This makes it possible to build a pre-amplifier to virtually any configuration by just changing the mother board, which consists primarily of busses and interconnections between the boards carrying the signal circuits.

To make this system as flexibile as possible, the individual building blocks have been broken down into the following categories:-

- 1. Disc amplifier (Moving coil or magnet)
- 2. Unbalanced output stage (With provision for active balance control)
- 3. Balanced output stage
- 4. Tone Controls
- 5. Headphone Amplifier
- 6. Muting Relay Control
- 7. Power Supply

ETI DECEMBER 1983

The first pre-amplifier to be described will use units 1, 2, 6 and 7, so a description of these circuits will be given first, followed by details of how to link them together to make a pre-amplifier that will out-perform many manufactured units that cost the proverbial arm and a leg.

It will be noticed that all signal circuitry is based on the use of operational amplifiers, and as this may raise a few eybrows, a short sermon in defence of this practice is called for. . . In the eary days of integrated circuits, there was created a device known as the 741. Although this humble chip performed well at low frequencies, its limitations at the upper end of the audio spectrum rightfully gained it a reputation for sonic nastiness. Fortunately, progress and evolution have been quite active, and about five years ago a far superior device emerged. Called the 5534, this quickly became the standard IC of the professional audio industry, which consumed them in great quantities. So it is safe

to assume that any recent recording has passed through quite a number of these devices — as many as two or three hundred in the case of a multitracked original — so no excuses are offered for using a few more in the reproduction chain.

Perhaps comment should be passed on one or two other practices. Following a recent discussion with Martin Colloms, the author carried out some tests which showed that certain types of capacitor can degrade the sound of audio circuits. In particular, the common polyester types proved to be un-satisfactory, as did the standard type of aluminium electrolytic, especially when used without a defined polarizing voltage. For this reason, all small value capacitors should be polystyrene or polycareither bonate (polypropylene are marginally better than polycarbonate, but are difficult to obtain, expensive and very large in size) and the interstage and feedback shunting electolytics should be of non-polarized



Fig. 1 Block diagram of the basic preamplifier.

construction and should be paralleled with a smaller value polycarbonate, which helps to flatten the high frequency impedance curve.

With that little lecture out of the way, we come to the design of the pre-amplifier, shown in block diagram form in Figure 1. It consists of a disc amplifier stage which may be for moving coil or moving magnet cartridges, input selector switch, level control, active balance control stage and muting circuit. A switch marked 'Direct' may be used to bypass the balance stage, so that if a source with sufficient output capability, such as a Compact Disc player, is connected to an auxiliary input, it may be routed to the power amplifier with only the ganged level control in it's path. When the balance stage is in circuit, the input sensitivity of the tuner and auxiliary inputs is 200 mV for 1.0 V output. The input sensitivity of the disc amplifier can be set to match the cartridge in use, and the input loading may be set to any suitable value of resistance and capacitance. The overload margin of the disc stage is 32dB at all frequencies which should be ample, even with the hot cuts that are sent to annoy us. On tuner and auxiliary there will be no overload problems, as the level control is placed in front of the active circuitry. A note of warning here though — it has been found that the best value of level control is 10k ohms, as this is not likely to cause problems when the direct path is used. Unfortunately, some equipment requires a greater load than this for correct operation, so the choice of level control value should be made with

due consideration to this.

Now to the individual circuits that are to be used, starting with the most critical which, of course, is also the most difficult to design and engineer.

Disc Amplifier Stage

In simple terms, this circuit has to amplify the output of a pick-up cartridge to a higher, more manageable level, and at the same time apply equalisation to the RIAA standard, this being defined by three time constants: 3180 μ s and 75 μ s (corresponding to 50.05 Hz, 500.5 Hz and 2.122 kHz).

The amount of amplification will depend upon the output voltage of the cartridge in use, moving coil types typically requiring some 20-25 dB more gain than moving mag-To give some idea of the nets magnitude of the problem, a moving coil cartridge with a nominal output of 0.2 mV at 1 kHz requires amplification by more than 9000 at 20 Hz to give 200 mV at the amplifier output. The RIAA equalisation curve which, relative to 1 kHz, rises to +19.27 dB at 20 Hz and drops to -19.62 dB at 20 kHz, may be obtained in a number of ways. Active feedback around a single amplifier stage is the most popular possibly because it gives a good specification on paper, particularly in respect of overload margin, which is constant with frequency. This configuration has some drawbacks, usually caused by the amplifier output stage having to drive the very capacitive feedback network. Another type of circuit that has become quite popular uses a passive network between two stages of amplification. Subjectively, this method proved quite successful, but it suffers from inferior noise performance and greatly reduced high frequency overload characteristics.

The circuit to be described may be termed a 'hybrid', in that it has part active and part passive networks. In order to keep noise to a minimum when using a moving coil cartridge, the technique of forming the input stage from several transistors in parallel has been employed. The LM394 integrated circuit contains 100 individual devices divided into two sets of 50 each. By joining the connecting leads of each set together, all 100 transistors are used. When the circuit is operated with a moving magnet cartridge, the LM394 can be replaced by a similar dual device containing a pair of normal, bi-polar transistors. Not only does this help the economics, it should also be quieter as a better impedance match is likely.

Figure 2 shows the complete disc input circuit, and Table 1 gives the component changes necessary in order to adjust the input sensitivity to allow operation with a wide range of cartridges. The input components, R1 and C1, should be chosen to accurately load the cartridge in use, but as a general rule should be 100R and 22n for moving coil cartridges and 47k and 220 pf for moving magnets.

The operation of this circuit is quite straightforward. The LM394 is set at 2mA collector current, which causes the inverting input of IC2 to be at 6.3V. The non-inverting input is therefore biased to be at the same voltage. Feedback is applied to the



Fig. 2 Circuit diagram of the disc preamplifier stage.

PROJECT : Modular Preamplifier

emitter of the LM394 by R9, which, together with the 100 ohm shunt resistor R4, sets the gain of the first stage. This may be calculated from:

$$A(dB) = 20 \log (1 + \frac{R9}{100})$$

An important consideration at this point is signal overload. This is measured by applying a range of frequencies that have been subjected to inverse RIAA equalisation, and is stated as the amount that the input level can be increased above its nominal rating before the output signal is clipped or severely distorted. As the rated output of the disc amplifier is 200 mV and clipping occurs at about 8.0 V, the overload margin should be:

$$20 \log \left(\frac{8}{0.2}\right) = 32 dB$$

at all frequencies. As no equalisation takes place in the first stage, care has to be taken to ensure that high frequency overload does not occur remember that the 20 kHz input level will be at +19.62 dB — which means that the rated input level multiplied by the first stage gain must not exceed (19.62+32.0) = 51.62 dB below 8.0 V, or about 21.0 mV. A quick calculation based on the gain settings given in Table 1 shows this to be the case, and consequently a full 32.0 dB overload margin will be maintained throughout the audio spectrum.

Following the input stage, a

passive network provides the $75\mu s$ time constant $(3400 \times 22 n = 74.8 \mu s)$ and a network in the feedback circuit of IC3 gives the 3180µs and 318 μ s breakpoints. The 36n capacitor, C11, with R15+R16 fix the first point (36nx(84.5k+43.83k) = 3179.88µs), and the same capcitor together with the series-parallel combination of R13, 14, 15 and 16 fix the second. Table 2 gives details of the RIAA characteristic over a range of frequencies so that performance of the disc stage may be checked for accuracy, which, with the specified components will typically be to within 0.1 dB between 20 Hz and 20 kHz. Stray capacitance may affect the extreme high frequency response, but the prototype

	Input		1st Stag Gain	ge	R9	R11	R12	R13	R14	
	0.1 mV)		41.0 d	B	11k0	5361	R 21R5	8k87	412R	
	0.2 mV (M	oving	35.0 d	В	5k6	5361	R 21R5	8k87	412R	
	0.3 mv (co	il	31.48 d	B	3k6.	5 5361	R 21R5	8k87	412R	
	0.5 mV)		27.0 d	B	2k1.	5 5361	R 21R5	8k87	412R	
	2.0 mV)		20.0 d	iB	887 F	R 9091	R 82R5	8k06	806 R	
	3.0 mV (M	oving	16.48 c	IB	562F	R 9091	R 82R5	8k06	806 R	1
	5.0 mV (m	agnet	12.0 c	1B	301F	R 9091	R 82R5	8k06	806R	
	8.0 mV)	U.	7.96 c	B	150F	R 9091	R 82R5	8k06	806 R	
abl	e 1 Compor	nent va	lues for	the di	sc an	nplifier st	age.			
	f(Hz)	dl	B	f(Hz)		dB	f(F	lz)	dB	
	0	+19.	911	100		+13.088	10)k	-13.734	
	5	+10	868	200		+8.219	15	12	-17 157	
	5	1.1.7.	000	200		10.217		N N	• / • • • • /	
	10	+19.	743	500		+2.648	20	k	-19.620	
	10 20k	+19.	743 274	500 1k		+2.648 0 (Ref)	20 30	k Ik	-19.620 -23.117	
	3 10 20k 30	+19. +19. +19. +18.	743 274 593	500 1k 2k		+2.648 0 (Ref) -2.589	20 30 50	k Ik Ik	-19.620 -23.117 -27.541	

-8.210

Table 2 RIAA equalisation characteristics of the disc amplifier.

5k

+16.946

50



Fig 3 Component overlay of the disc amplifier PCB. ETI DECEMBER 1983

PA	R	L	S	LI	S	L	,
				_			1

Disc Amplifier (one channel only)				
Resistors (all 1%)	metal glaze or			
metal film)				
R1	see text			
R2	4k32			
R3	7k15			
R4, 7	100R			
R5	5K6			
R6	13k7			
R8	1M0			
R9	see text			
R10	3k4			
R11, 12, 13, 14	see text			
R15	84k5			
	3K83			
KI/ D10 10	4/k			
кта, т9	33K			
Capacitors				
C1	see text			
C2	470u 6V3 radial			
62.0.42	electrolytic			
C3,9, 13	100n 250v			
64.44.45	polycarbonate			
C4, 14, 15	2200 25 V radial			
CT	electrolytic			
65	10pt 160V 21/2%			
C(10	polystyrene			
Co, 10	22pt 160V 2 1/2 %			
67	polystyrene			
C/	220 03 V 1%			
<u>C</u> 9	220. 1CV			
Co				
	non-polarised			
C11	26 n 62 V 1W			
CH	DOILOS V 170			
C12	22 16V			
012	non-nolarised			
	electrolytic			
C16 17	100n 100V			
c10, 17	nolvester			
	polyester			
Semiconductors				
	LM394			
102, 3	NE5534			
Miscellaneous				
SK1	6 way PCB socket			
SK2	8 way PCB socket			
PCB:				

was still accurate to within 0.5 dB at 100 kHz, which should not cause undue concern. There is no particular merit in having equalisation this precise, but as the network design is so simple, there seems no point in not keeping things as tidy as possible. (For anyone interested, the author can provide a T159 programme that calculates the RIAA deviation, at any frequency, to an accuracy of 8 decimal places!)

Unbalanced Output Stage

This stage, which incorporates an active balance control, is placed immediately after the main level control. The same circuit is used, without the balance facility, as a tape recorder output buffer. As shown in Figure 4, it has been designed to allow a limited amount of imbalance between channels - a maximum of 10 dB — with sufficient gain to raise the 200 mV input signals to the 1.0 V rated output of the pre-amplifier. The balance control operates by changing the amount of feedback around the amplifier stage. This method preserves a good signal to noise ratio and overload margin while giving a well controlled image shift. Table 3 shows the amount of imbalance between channels at different positions of the control, and it will be seen that the calibrations are typically accurate to within 0.5dB.

Note that the output capacitor of the stage is within the main feedback loop of the amplifier. This is done for two reasons - it helps to counteract any effects introduced by the capacitor, and it avoids the danger of any DC voltage appearing on the control potentiometer which would introduce noise whenever the control was operated. There have recently been some suggestions that all passive components, such as switches, connectors and potentiometers should be provided with a DC bias voltage, as this helps to provide clean contacts for improved signal transmission. The theory behind this may be well founded, but long experience with recording studio mixing consoles, where it is quite common for DC to appear in all sorts of unwanted places, has shown that the working life of components subjected to this treatment is drastically reduced, so they need replacing much earlier than similar ones that have remained free of DC voltages.

The same stage is also used as a tape recorder buffer, with points A and B linked together and changed values for R4, R6 and C2. R4 should



Table 3 Characteristics of the balance control

Record Output Level	Gain	R6	R4	C2
499.5 mV	7.95 dB	1k50	1k	100u
1.0 V	13.99 dB	4k02	1k	100u
1.2 V (0 VU)	15.72 dB	5k11	1k	100u

Table 4 Component values for the tape output buffer.



Fig. 4 Circuit diagram of the unbalanced output stage.



Fig. 5 Component overlay of the unbalanced output stage PCB. Note that this board is for stereo operation and therefore carries two complete output stages.

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become 1k ohm, C2 should be changed to 100μ 16V non-polarized and R6 chosen to give the required output level according to Table 4.

The importance of buffering the tape recorder output, as shown in



Fig. 6 Balance control connections and calibration.

PARTS LIST_

Unbalanced Output Stage					
Resistors (all 1% metal glaze or					
metal film)	1110				
K1, 5, 8, 12	110				
R2, 9	TKU				
R3, 10	330k				
R4, 11	191R				
R6, 13	270R				
R7, 14	47k				
R15, 16	33R				
Capacitors					
C1, 8	330n 250V				
	polycarbonate				
C2, 9	470u 6V3				
	non-polarised				
	electrolytic				
C3, 7, 10, 14	100n 250V				
	polycarbonate				
C4, 11	22pf 160V 2½%				
,	polystyrene				
C5. 12	10pf 160V 2½%				
	polystyrene				
C6. 13	22u 16V				
	non-polarised				
	electrolytic				
C15. 16	220u 25V radial				
	electrolytic				
C17.18	100n 100V				
0.7.10	polvester				
	polyester				
Semiconductors					
IC1, 2	NE5534				
Miscellaneous					
SK1.2	10 way PCB sockets				
PCB	to may rep sockets				

Figure 1, must be stressed. Without the buffer stage, the recorder input would be connected directly to the main signal path of the pre-amplifier. There is nothing wrong with that, provided the recorder is switched on, but some recorder input circuitry can appear very nonlinear when it is not powered, and this could introduce high levels of distortion into the pre-amplifier. The buffer stage also presents the opportunity to introduce gain into the record chain, and avoids the danger of a recorder with a low input impedance loading the output of any other piece of equipment that is connected to the pre-amplifier.

The output levels given in Table 4 should be suitable for most applications, but any other gain setting can be used, calculating R6 from:

R6 = 1000(G-1).

Muting Relay Control

Although not absolutely essential, this simple circuit will more than pay for itself the first time you switch your equipment on in the wrong sequence and it saves your speakers, eardrums or central nervous system from instant destruction. The circuit (Fig. 7) controls a relay which, in its relaxed state, shorts the main signal outputs to earth via R4 and R5. This means that the signal does not normally pass through the relay contacts, and is therefore unaffected by their presence. When power is applied to the pre-amplifier, the relay remains relaxed until the voltage on the base of Q1 has risen to 0.6V when Q1 and Q2 turn on, opening the relay contacts that are shorting the signal to earth. The 560 ohm resistors are in series with the output signal to prevent the output amplifier stages from being overstressed by the short circuit condition. Note that power to the relay is supplied from both rails, so that if one rail is not present, the output will remain muted. This eliminates a situation where, if the negative rail has failed, a 5534 will sometimes oscillate at a frequency approaching that of Heathrow Air Traffic Control, causing havoc to tweeter voice coils, bats and Boeing 747s.

The 6.8 V zener diode ZD1 will normally be connected to earth at a convenient point but, if headphone amplifiers are to be fitted, it may be earthed via the break contacts on the phones jack socket. Insertion of a jack plug will then de-energise the relay so that the main outputs are muted, and also apply power to the headphone amplifiers so that the programme is played only through the headphones. The relay is also used to provide remote switching for use with active speakers and other ancillaries.

Power Supply

This is based on IC Regulator types 7815 and 7915 (Fig. 8).Ideally, these should be mounted within the pre-amplifier with the transformer and main smoothing capacitors separately housed and placed some distance away to minimize the danger of hum pick-up. If the complete supply is contained within the pre-amplifier case, it is essential that a toroidal mains transformer is used, as the problems of screening will be considerably reduced.

Although the power supply appears simple, one or two tips may be in order. The 0.1μ f capacitors, C4,5,8 and 9, should be mounted as close to the regulators as possible, and care should be taken to establish a single earth path from the transformer centre tap to the OV output. Contact suppressors should be connected across the mains switch as shown. The power 'On'



Fig. 7 Circuit diagram of the muting relay control.

LED is connected between both stabilized rails so that it acts as an indicator that all is well in the power supply department. The regulators do not require heatsinks when only the basic unit is constructed, but if headphone amplifiers are included, IC1 and IC2 should be mounted on standard T0220 finned heatsinks, or attached to the metal chassis using the insulating washers supplied with the devices.

Construction

The individual 'building block' circuit boards should be fitted with interconnecting sockets which mate with matching plugs on the mother board. The contacts of the recommended connectors are on a 0.1" pitch so that if necessary, Vero board can be used for the mother board, and indeed, for the plug-in boards as well if you do not want to go to the expense of obtaining proper printed circuit boards.

Suitable cabinets are available from such suppliers as West Hyde

Developments and Maplin, who can also provide the front panel controls There are no special requirements for these except that they are of a reasonable audio grade. The input selector switch, which needs to be a 2 pole 4 position type, should be purchased as a 4 pole variety so that each contact can be doubled up for reliability. It is not necessary that the switch contacts are gold plated, providing they have a good, firm wiping action, so any build-up of deposits is removed with each The potentiometers operation. should be good quality carbon or cermet types with multi-contact wipers. If they can be obtained, the special audio controls from the larger Japanese suppliers, such as Alps, are of very high quality, and are not expensive. It has already been suggested that the best value for the level potentiometer is 10k ohms, although if this is likely to cause loading problems, 25k is acceptable. It is worth remembering that the Japanese D law is preferable to

the usual logarithmic law, as it gives a much smoother control of the output. To avoid the image shifting with different settings of the level control, the two sections should be matched to within 1dB over most of their travel. The balance control should not suffer from this shortcoming, as linear potentiomenters are normally made to tighter tolerances, but as a general rule, the better quality the component, the greater is the chance of accuracy.

If lever or toggle switches are used for the tape monitor and direct functions, these should have contacts that are suitable for low level audio use, and again, suppliers such as Alps seem to have got the problem licked. Phone sockets used for signal connections should preferably be gold plated, and must be isolated from the chassis. This can prove difficult if the rear panel is thicker than about 1.0 mm, as most available sockets do not have sufficient length of threaded bush to pass through a thick panel as well as the insulating



Fig 8. Circuit diagram of the power supply.



Fig. 9 Component overlay of the power supply and muting relay control PCB.

PAR	TS LIST
Power Supply and	Muting Circuit
Resistors	
R1	680R 5%
R2	100k 5%
R3	390R 1W 5%
R4, 5	560R 1% metal glaze
	or metal film
R6, 7	1k2 5%
C 11	
Capacitors	400 05 11
G	100u 25v radial
C2 2	
(2, 5	2200 35 V radial
64 5 8 9	100n 100V
c1, 5, 6, 5	polvester
C6, 7	220u 25V radial
	electrolytic
Semiconductors	
IC1	7815
IC2	7815
Q1	BC184
Q2	2N3053
D1, 2	1N4148
ZD1	6V8 400 mW zener
	10.00
Miscellaneous	
SK1,3	10 way PCB sockets
SK2 PCP, heateinlis	6 way PCB sockets
suite (see toxt).	12V 185P 4 polo
changeover really	continental series
changeover realy, t	continental series.

washers. One solution is to mount the connectors onto a piece of fibreglass circuit board material and drill clearance holes in the panel.

The internal construction is quite straightforward. Vertical guides should be mounted on the mother board to locate and support the individual circuit board, and care should be taken to ensure that the signal earth is not connected to the chassis at any point — for example, chassis mounted power supply capacitors should be checked to make certain that their cans are not earthed by their mounting clips.

Individual screened wires should be used to connect the rear panel sockets to the mother board, with twisted lenghts of 16/02 stranded wire carrying the DC supplies. If a separate power supply unit is used, a 7 pin DIN socket should be employed to connect this to the preamplifier, but be sure to use the heavy, cast type, as the common lightweight ones can easily be plugged together upside-down, with obvious consequences.

A major problem with home con-

structed equipment is usually caused by the earthing techniques employed. There is no secret path to success - just use the same method that manufacturers use - its called trial and error! There are one or two rules to follow, such as making the earth follow the signal and separating the signal output and power supply earths, but once the unit is working, the best earthing arrangement is usually found by ear. Figure 11 shows, in very simplified form, an earthing arrangement that was successful in the prototype. The most difficult job was to prevent the unit from being extremely sensitive to external hum fields, such as those generated by the mains transformer in a typical power amplifier. Eventually a cure was found by breaking the rule that the signal earth connects to the chassis at the input of the most sensitive circuit. For instance, the most satisfactory arrangement was to connect the earth at the output of the disc amplifier stage to chassis. This eliminated all traces of hum pick-up, but turned the preamplifier into a very good radio



Fig. 10 Suggested circuit to feed the regulated power supply.



Fig. 11 A possible earthing arrangement. ETI DECEMBER 1983

mother board without the individual boards present. Providing all is well, the power supply regulator board should be plugged in and the busses checked to ensure that the 15-0-15 V supplies are operating correctly, which means that each rail should measure between 14.5 and 15.5V with respect to earth. The muting circuit should next be tested — correct operation being indicated by the relay operating about 5 seconds after power is applied. The remaining circuit boards

Naughty

receiver. This was cured by connect-

ing a 1000pf ceramic capacitor be-

tween the shell of the disc input

sockets and the chassis (and in

doing so, losing avery interesting CB

Once construction is complete, power should be applied to the

conversation between

Nora and The Cannonball!).

may now be plugged in and the complete signal path checked. If the unit appears to be working correctly, leave it switched on for ten to fifteen minutes, then place a finger tip on each IC in turn. None should be more than warm to the touch, including the supply regulators. If any device is hot, this is a sign that excess current is being drawn, so start a systematic search for a wrong component or assembly fault. If any of the 5534 ICs are not working, check the DC voltages on the connecting pins. Pin 7 should be at +15 V and Pin 4 at -15 V. If these are correct, Pins 2, 3 and 6 should all be approximately at 0 V, and if this is not the case, the IC may be suspect. The easiest way to proceed is to change the device for a new one, but if this does not bring about a cure, the fault is likely to be with one of the associated passive components - for example, the small value polystyrene capacitors can be prone to shorting if too much heat is applied during soldering. Should the one between Pins 5 and 8 of a 5534 become shorted, the IC will not work, and will give every indiction that it is faulty.

Once all is working, the unit should be connected to a power amplifier and speakers and the system checked for excess hum. The chances are that there will be plenty of this in evidence, so the trial and error procedure must be adopted until it is elminated. Try earthing different parts of the pre-amplifer signal earth path to the chassis with a short length of thick wire. Once the position that gives minimum hum has been found, short out the disc input sockets and check that the hum output has not increased. If it has, continue with the trial and error

PROJECT : Modular Preamplifier

exercise until optimum earthing has been achieved, then install permanent wiring where necessary.

Once it's working, what can you expect? It is nice to report that the performance of the prototype was well up to expectation. Distortion was virtually unmeasurable, being equal to the test equipment residual on the auxiliary inputs (0.0018%), and well down into the noise on the moving coil inputs. Signal to noise of the moving coil stage was better than -75dB (A weighted, 0.5 mV input, 0.5 V output). The RIAA equalisation curve was within 0.15 dB between 20 Hz and 20 kHz, and crosstalk was better than –65 dB at 20 kHz and –83 dB at 1 kHz.

Subjectively, the unit sounds clean and analytical. Hum and noise never intrude and dynamics are handled with an ease that leads the listener to believe that it will never overload; in fact it is all that a good pre-amplifier should be, in that it is the quality of the source material that decides the quality of sound coming from the speakers.

BUYLINES

The PCB plugs and sockets are available from both Maplin and Ambit, although neither carries a full range so you might have to buy from both. The relay is available from Watford Electronics. Note that no provision has been made for the use of a relay socket, so if you prefer to use one you will have to adjust the pads on the PCB. You could, of course, use any other four pole relay with a coil operating voltage of 30V or less by adjusting the layout and the value of R3. Several different types of heatsink would be suitable or if you prefer, you could make your own quite simply. Some of the 1% tolerance resistances are in the E24 range which is widely available but others are in the E96 range which is not. If all else fails, most of the values

can be produced by placing two E24 values in series, and doing so will neither compromise the tolerance figure nor introduce extra noise. Maplin and Electrovalue supply nonpolarised electrolytics but in axial, not radial, form, and again you might have to do a little juggling to get the right values. We are hoping to make a complete kit of parts for this project available, but were unable to make the arrangements in time for details to appear in this issue. Meanwhile, if any one out there can supply the 1% resistors and non-polarised capacitors, let us know and we'll give you a mention.

Note that the PCBs for this project will NOT be available through our PCB service.

The second part of this article in next month's ETI will contain details of the

mother board and the three remaining modules.

ETI

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B ELECTRO

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input size approx 61/2"x23/4"x31/2" weight 1 kilo £25 p/p £3. MAINS FILTER8 amp 250 vac 21/4"x21/2"x31/4" with built in IEC mains plug £3.50 p/p £1.50. PRESTEL monitors 6" green phosphor screen 12 digit keyboard

printer port, cassette port, keyboard port (for full gwerty keyboard) Brand new and boxed £175 + VAT.

At the time of going to press we are attempting to modify these units into a computer terminal with built in modem. Please phone for details

DISC DRIVE BONANZA TEAC FD-55F 1/2 Height DSD 80 track/

40 track selectable at our new low price £199 + VAT PAPST 3" Box Fan 220 volts 50hz require 1 uf capacitor

£7.95 p/n £1.00

Just arrived full gwerty keyboard plus numeric pad completely cased (x equipment) believed to be RS232 £16.95 (callers only)

25 WAY 'D' Types, plugs £1.85, sockets £1.85 (solder tail) p&p 30p. Telephone for bulk prices.

Brand New Vero Card racks 3u 24 slot £12.00 (callers only).

Twin 5" Cabinets with power supply £40.00 + VAT (providing a disc drive is purchased from us, if drives purchased elsewhere £50.00 + VAT)

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Brand New 13" Colour monitor fully cased. Full warranty 540 x 236 pixel. RGB TTL Input plus apple Input £220 + VAT (carriage at cost).

BNC Lead Bonanza coax lead with BNC plug at one end, 2 metres plus £1.00 p&p 30p and 10 metres plus £2.50 p&p 75p







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 KEY PAD

MODEL CONTROLLER



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Simple programmes are included to get you started but of course the more experienced programmer can have hours of fun writing complex programmes. Please state computer when ordering.

Order ref HB/2000 "EASY ADD-ONS" BOOK

+ DECODER KIT	£24.00
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BBC MICRO INTERFACE

Initially designed to interface the acorn BBC Micro with turtle type s this unit, supplied in kit form, provides 8 control outputs roboti and 4 Data inputs providing a useful interface to operate numerous control applications. Order ref HB 2030 **£26.50**

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QTY	REF	DESCRIPTION		PRICE	TOTAL
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Full Ca	atalogu	e (see above)		£1.50	
Oversea	s custome	ers please add extra post & packa	ging.	encometa:	
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complete P.C.B. workshop





TECH TIPS

Latching Switches

Clive Pantrey, Farnborough.

This circuit allows individual, momentary-action, push to make switches to be used in a ganged, latching mode for logic or low level audio signals.

When a switch is pressed the common reset line of all the latches sees a momentary ground, through C1 and its associated diode, this resets the previous selection and allows the selected output to latch.

A number of different devices could be connected to the latch outputs to provide various types of switches, bi-lateral switches are shown on the circuit. Further stages can be added to the bank as required, by connecting to points A and B.



Linear to Log Convertor

D. R. Fowness Wolverhampton

This logarithmic generator utilises the inherent antilogarithmic transconductance of the transistor function, and works around a feedback circuit that balances the input current.

The input amplifier, ICI, ensures that the collector current of Q1 is equal to the input current. The reference current will be equal to the collector current of Q2. Transistors Q1 and Q2 should be a matched pair, and be mounted in thermal contact.

The voltage at the non-inverting input of IC2 will be:

but

$$V \text{beQ1} = \frac{kT}{q} \times \log \left(\frac{lc}{lo} \right)$$

and

$$V_{beQ2} = \frac{kT}{q} \times \log\left(\frac{lr}{lo}\right)$$

so that the voltage at IC2 noninverting input will be:

$$\frac{kT}{q}\log\left(\frac{lr}{l_c}\right)$$

where

- $I_c = input current$
- $I_r = reference current$
- $I_0 =$ reverse saturation current
- T = temperature
- k = Boltzman's constant
- q = charge on an electron

At room temperature, kT/q is approximately 0.26 mV.

The scaling factor of amplifier IC2

(ie the gain) is given by (R1+R2)/R1. The scaling factor is equal to the number of output volts corresponding to one decade change of the ratio. R1 is the thermistor which should be chosen to compensate for any change in temperature and so maintain a constant gain.

The output voltage will be given by

$$\frac{(R1+R2)}{R1} \times 0.26 \log \left(\frac{l_c}{l_r}\right)$$

Note that all the logarithms are in base e, and not base 10!



FEATURE



Car Fan Control

J. N. Swanson, Sheffield.

If, like me, you own an old car with a conventional fan, driven from the engine, a worthwhile improvement can be obtained by fitting an electric fan in its place. These can readily be bought for about £5 from a scrap yard. The advantages gained are better fuel consumption and lower engine noise particularly at high revs.

A problem arises in finding a suitable switch to operate the fan at the required temperature. Most of the

ETI DECEMBER 1983

switches fitted to the cars are fitted in a threaded hole in the side of the radiator which means that most scrap yards are unwilling to separate the two. For this reason I have designed a circuit to switch on the fan using the existing temperature sensor for the temperature guage.

The voltage regulator on the car usually works by interupting the supply so as to provide an average level of about 10V. Because of this, a fair bit of smoothing is required in order to stop the fan switching on and off with the regulator. A zenner diode provides a 10V supply for the op-amp and the reference voltage.

De-Luxe AB Box

Marcus Valentine, Stafford.

This Audio line signal routing device was designed for one of those guitarists who feel in-

secure unless they are surrounded by numerous effects boxes, but who wish to have more control over them collectively. It has two modes: single and dual.

In the single mode, depression of the footswitch noislessly reroutes the signal path from going through chain A, to chain B, a chain being either a straight jack to jack lead, an effect, or a series of effects.

In the dual mode, the signal is rerouted through chain A followed by chain B, and on depression of the footswitch (here's the clever bit) is re-routed to chain B followed by chain A.

The two LEDs indicate the chain selected in the single mode, and in the dual mode the first chain.

The flip-flop built around N1 and N2 ensures that the bilateral switches used change state cleanly and quickly, and more importantly, at the same time.

Current consumption, which is set mainly by the LEDs, is low enough to allow a PP3 to be used as power. The LEDs were considered essential for ease of use.

The device can be conveniently constructed in an aluminium box measuring 10x10x4 cm, with the input socket arranged so that the input plug connects the negative supply.

By using various combinations of sockets, the device can be utilised in many more audio signal rerouting applications, eg, by using the A and B return stockets and output only, (with a dummy plug inserted into the input socket to provide power) the box can be used as a single selector.

The 470k and 100k resistors provide a certain amount of hysteresis and the two diodes prevent the transistor turning on due to offset of the op-amp. The fan may run for a few seconds when the ignition is initially turned on. This may be prevented by increasing the 100uF capacitor to a few thousand uF, but I find this useful as otherwise in winter the fan may not run for weeks on end.

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RESISTORS					

 | 250VAC

 | 100/3V 32p

 | 375 × 17 3.85

 | D CONNECTORS

 | R4 11×6×3 | 1%" Slow Fast

 | Chargers | 2N2907 250

 | 2014.400 | 45 |
 | |
 | 1 |
 | | | | | | | | |
 | | | | | | | |
| CARBON FILM

 | IDEAL AS MAINS

 | MANY MORE

 | 4 79 4 17 4 93

 | Male

 | R5 11x7'5x3'5 | 100mA
19n 15r

 | TYPEH | 2N2907A 26p

 | 2N4401 | 27p | 3N200
3N201
 | 6 93 B | C174A
C174B
 | 24p 8C548A | 13p
 | | | | | | | | |
 | | | | | | | |
| HI STAB 1012 TO

 | 10nF 28p

 | IN STOCK:

 | Dip Board 390

 | 9 way 80 p
15 way 103

 | 4.75
B6 13 x 8 x 4 5 | 250mA

 | any HP type | 2N2920 925
2N2923 25p

 | 2N4402
2N4403 | 30p | 3N211
 | 3.35 B | C175
 | 75p BC5486 | 14p
 | | | | | | | | |
 | | | | | | | |
| 16WE24 20

 | 15nF 22nF 35p
47nF 39p

 | PLS PHONE

 | Track Cutter 1.48
Pip Insertor 1.79

 | 25 way 160

 | 7 35 | 315mA

 | Above £15.59 | 2N2924 15p
2N2925 15p

 | 2N4409 | 36p | 40360
 | 60p B | C177A
 | 25p BC5498 | 13p
 | | | | | | | | |
 | | | | | | | |
| WE24 2%p

 | 100nF 43p

 | TRANS-

 | 100Pins 55p

 | Female

 | 7 75 | 17p -

 | As above but | 2N2926 10p

 | 2N4410
2N4416 | 42p
1.50 | 40361
 | 67p B | C177B
C178
 | 26p BC549C | 15p
 | | | | | | | | |
 | | | | | | | |
| 2WE24 12p

 | 220nF 55p

 | PORMERS

 | Verobloc 3.99

 | 9 way 99p

 | VEROROVES | 17p 10p

 | 4AH E25.95 | 2N3010 75p
2N3011 65p

 | 2N4427 | 79p | 40363
 | 2.95 B | C178A
 | 24p 8C550C | 15p
25p
 | | | | | | | | |
 | | | | | | | |
| METAL FUMERA

 | 10000/00

 | 606V.909V

 | Vero Wiring

 | 25 way 2.05

 | Black Plastic | 500mA

 | TYPE P | 2N3019 50p

 | 2N4870 | 80p | 40364
 | 3.25 B0 | C178B
 | 25p BC556B | 15p
 | | | | | | | | |
 | | | | | | | |
| ULTRA HI

 | PLASTIC

 | 12 0 12V

 | Pen + Spool 3.35
Spare Spool 75

 | 37 way 3 30
Angled PCB

 | V1 3×2×1* 55p | B00mA

 | TYPEA | 2N3053 27p
2N3054 56n

 | 2N4871
2N4888 | 55p | 40373
 | 2 60 80 | C179A
 | 25p BC557A | 15p
16p
 | | | | | | | | |
 | | | | | | | |
| STAB ULTRA

 | 10F. 2n2 26p

 | 15 0 15 950

 | Combs 6p

 | 25w Male 2.45

 | 35mm 90p | 17p 10p

 | HP7 (Up to 4 at a | 2N3055 60p

 | 2N4898 | 1.29 | 40374 40406
 | 2 84 B0 | C179B
C179C
 | 25p 8C 5578 | 16p
 | | | | | | | | |
 | | | | | | | |
| 0.4W 100 TO

 | 10H/ 31p

 | BVA

 |

 | 25w Female 2.90

 | V3 180×110×55 | 15A 17p 10p

 | time) £5,85 | 2N3055RCA 95p
2N3055H 1.20

 | 2N4901
2N4902 | 1.69 | 40407
 | 75p 80 | C182
 | 10p 8C558A | 14p
15p
 | | | | | | | | |
 | | | | | | | |
| 2% F24 5m

 | 220F 33nF 37p

 | 012 012V

 | SWITCHES

 | savedi sap

 | | 2A 17p 10p
3A 17p 10p

 | IN CONTRACTOR | 2N3107 46p

 | 2N4903 | 1.98 | 40408
 | 1_59 BC | C182A
 | 12p BC 558B | 16p
 | | | | | | | | |
 | | | | | | | |
| 1%E24 6p

 | 100nF 45p

 | 2.95

 | DU SPET

 | EURO

 | SLOPING FRONT | 4A - 10p

 | CLIPON | 2N3109 48p
2N3232 1.50

 | 2N4904
2N4905 | 2.15 | 40410
 | 1.80 BC | C182L
 | 10p 8C5598 | 15p
16n
 | | | | | | | | |
 | | | | | | | |
| LOW OHMIC

 | 220nF 79p
470oF 125

 | 2 95

 | 4 way 671

 | Male

 | V5220×174× | 6A - 10p

 | T01 (AC128) 180 | 2N3250 36p

 | 2N4906 | 2.99 | 40411
 | 2.85 BC
90p BC | C182LA
C182LB
 | 13p BC559C | 17p
 | | | | | | | | |
 | | | | | | | |
| GLAZE E12

 | 1.20

 | 0 20 + 0 20V

 | 6 way 82p

 | 31 way 1.75

 | 100mm 10.40
V6121x121x | 10A - 10p

 | TOS IBFY 511 18p | 2N3439 98p

 | 2N4907
2N4908 | 3.20 | 40422
 | 2 95 BC | 0183
 | 10p 8C560 | 32p
25p
 | | | | | | | | |
 | | | | | | | |
| 0.2222 to 8 2011

 | CERMIC

 | 2,35

 | 10 way 140

 | Straight 2.25

 | 75mm 5.65 | 20A - 10p

 | 1018 (80 109) | 2N3440 80p

 | 2N4909 | 2 90 | 40467A
40513
 | 1 29 80 | C183A
C183B
 | 11p BC560C | 25p
 | | | | | | | | |
 | | | | | | | |
| WIRE-WOUND

 | 100pF 1KV 25p

 | 30VA

 | TOGGLE IMINU

 | 64w A + 8

 | CONTROL | 1.000

 | T0220(T#29) | 2N3441 1.25
2N3442 1.35

 | 2N4910
2N4913 | 1.95 | 40537
 | 96p BC | 183C
 | 3p 8C651 | 45p
46p
 | | | | | | | | |
 | | | | | | | |
| 2 to 3W 0.229

 | 100pF 2KV 30p
100oF 3KV 33p

 | (total 30V 1A)

 | SPST 49p

 | 64w A + B

 | (Handheid) BOX | FUSES

 | 360 | 2N3444 1.70

 | 2N4914 | 2 69 | 40595
 | 99p 80 | 2183LA
 | 0p BCY 70
30 BCY 71 | 16p
 | | | | | | | | |
 | | | | | | | |
| to 3300 28p

 | 100pF 4KV 37p

 | 4.95

 | DPDT 69p

 | Straight 2.40

 | White 89p | In Packs of 4

 | URLE MOD | 2N3446 6.09

 | 2N4915
2N4916 | 2 95
48p | 40600
 | 2 58 80 | C183L8
 | 3p BCY72 | 19p
 | | | | | | | | |
 | | | | | | | |
| to 6K8 33p

 | 470pF 2KV 39p

 | 50VA

 | DPDTCOFF 79p

 | Angled 2.95

 | CODY DES | 3 amp 59p

 | Aster SML | 2N3447 5.72
2N3448 6.56

 | 2N4917 | 47p | 40602
 | 1 68 BC | C184
 | 10p BCY77 | 34p
22p
 | | | | | | | | |
 | | | | | | | |
| 10 to 11W 10

 | 470pf 6KV 48p

 | 5.25

 | All types of

 | Female
31 way 175

 | KNOBS | 5 amp 59p

 | Wideband 4.50 | 2N3512 1.06

 | 2N4919 | 75p | 40603
 | 1 09 BC | C1848
 | 12p BCY 79 | 22p
 | | | | | | | | |
 | | | | | | | |
| POTSE

 | InF BKV 44p

 | 1001/01

 | biased toggles in

 | 64w A + 8

 | SIFAM | 13 amp 59p

 | | 2N3553 2.65
2N3563 20n

 | 2N4920
2N4921 | 85p | 40608
 | 2.44 80 | 184L
 | Op 8CY88 | 6.60
 | | | | | | | | |
 | | | | | | | |
| PRESETS

 | 2n2 2KV 44p
2n2 5KV 44p

 | 0-12 - 0-12V

 | Please phone

 | 64w A + B

 | PROFESSIONAL | PANEL

 | BOOKS | 2N3564 25p

 | 2N4922 | 69p | 40631
 | 1.35 BC | 184L8
184LC
 | 3p BCY89 | 4 10
 | | | | | | | | |
 | | | | | | | |
| LOW NOISE E3

 | 3n3 2KV 47p

 | 9.50

 | PUSH BUTTON

 | Angled 2.95

 | All fit is spindles | FUSEHOLDERS

 | THE CONTRACTOR | 2N3566 20p
2N3566 50p

 | 2N4923
2N4924 | 99p | 40637
 | 2 00 BC | 186
 | 4p BD116 | 2.50
 | | | | | | | | |
 | | | | | | | |
| ROTARY POTS

 | dn3 4KV 52p
4=7 4KV 52n

 | TOROIDALS

 | Non Latching

 | Straight 295

 | Black (suffix B) | 20mm 36p

 | UK Cheaper to | 2N3567 55p

 | 2N4926 | 95p | 40643
 | 700 80 | 204
 | 4p BD 121 | 95p
 | | | | | | | | |
 | | | | | | | |
| SPINDLES

 | 10nF 2KV 57p

 | stock

 | Push to Make
18p

 | 64w A + C
Appled 3.35

 | 15mm Shart |

 | Callets
Towner Transisters | 2N3569 50p

 | 2N4927
2N4928 | 95p
1.59 | 40822
 | 1 80 BC | 205
 | 9p | 2 28
 | | | | | | | | |
 | | | | | | | |
| LIN 40p

 | FEEDTHRO' CAP

 | Please Phone

 | Push to Break

 | Aligieu 3.35

 | S1508 plan 56p | QUARTZ

 | Manual (Bible) | 2N3570 695
2N3571 573

 | 2N4964 | 27p | 40872
 | 79p BC | 200
 | 9p BD131 | 44p
 | | | | | | | | |
 | | | | | | | |
| LOG 40p

 | InF 600V 7p

 | Please add

 | 280

 | IDC

 | S1500 plain 56p
S1558 - Los 64p | CHISTALS

 | Elektor 301 | 2N3572 4.95

 | 2N4966 | 25p
25p | AC125
AC126
 | 49p 8C | 208
 | 9p BD135 | 35p
 | | | | | | | | |
 | | | | | | | |
| DP Mains Switch

 | TRIMMERS MINI

 | adequate P&P

 | KEY-SWITCH

 | CONNECTORS
PCB Male - Latch

 | 5151G+)ine 64p | Please enquire

 | Circuite 6.50 | 2N3584 2.76
2N3585 2.99

 | 2N4967 | 25p | AC127
 | 32p BC | 203
 | 0p 6D136 | 35p
37p
 | | | | | | | | |
 | | | | | | | |
| As above stored

 | FILMIMULLARDI

 | Bre heavy!

 | Mains 4 amps

 | Straight

 | 15mm Standard | abt listed

 | lexat 11L Data
10.50 | 2N3632 9.88

 | 2N4969 | 31p | AC128
AC132
 | 35p BC
68n BC | 212A
2128
 | 2p BD138 | 37p
 | | | | | | | | |
 | | | | | | | |
| ing switchi 1.00

 | 1p4 to 5pF

 | WIRE & CABLE

 | DPST withdraw

 | 16 way 129

 | K1508 plain 57p
K1509 mlain 57p | 32 768K Hz 95p

 | Toxas Op to: 5.18 | 2N3638A 70p

 | 2N5010
2N5011 | 12 75 | AC151
 | 51p BC | 212L
 | Op BD140 | 38p
38p
 | | | | | | | | |
 | | | | | | | |
| DUSTPROOF

 | (800MHz) 23p
2pF to 10eF

 | PRICES PER

 | postions (inc. 2

 | 20 way 1 45

 | K1518+Lme 66p | 200K Hz 2 65

 | Memory, 4.95 | 2N3639 65p

 | 2N5030 | 44p | AC152
AC153
 | 45p BC | 212LA
 | 3p BD142 | 2 40
 | | | | | | | | |
 | | | | | | | |
| PRESETS E3

 | (600MHz) 27p

 | METRE
Solid Hook up

 | keys) 3.95

 | 34 way 199

 | A-1210.+30#-86p. | 2 00MHz 2 89

 | Texastunear | 2N3642 50p

 | 2N5033
2N5036 | 48p
1.60 | AC153K
 | 64p BC | 213
 | 0p 80155 | 1 20
 | | | | | | | | |
 | | | | | | | |
| Mini Vert. 150

 | 1400MHz1 290

 | Any Colour 5p

 | FOOTSWITCH

 | 40 way 2 25

 | 15mm Winged | 2 097152MHz

 | National 4.95 | 2N3643 30p

 | 2N5039 | 1 90 | AC176K
 | 37p 8C | 213B
 | 2p 80158 | 54p
 | | | | | | | | |
 | | | | | | | |
| Mini Horiz 15p

 | 5p5 to 65pF

 | MAINS!

 | buttons

 | PCB Male - Latch

 | W15(E) 740 | 3 2768MHz 1 49

 | National Second | 2N3645 66p

 | 2N5086 | 36p
39p | AC 187
AC 1876
 | 25p BC
28p BC | 213C
 | 3p BD160 | 3.80
 | | | | | | | | |
 | | | | | | | |
| JBa

 | 1200ivit21 36p

 | SPEAKER

 | SPDT 185

 | 10 way asp

 | Zimm Show | 4 00MHz 1.49

 | Function 2.95 | 2N3646 28p
2N3662 15p

 | 2N5088
2N5089 | 37p | AC 188
 | 25p 8C | 213LB
 | 3p 80181 | 2 50
 | | | | | | | | |
 | | | | | | | |
| Standard Horiz

 | ELECTROLYTICS

 | Twin 1 Amp 14p

 | 275

 | 16 way 147

 | \$2108 plain 69p | 1 99

 | Conversion 2.94 | 2N3663 16p

 | 2N5172 | 15p | ACY17
 | 40p BC
1.50 BC | 213LC 1
 | 4p BD 183 | 2 70
 | | | | | | | | |
 | | | | | | | |
| Thumbwheel or

 | or Matsushita

 | 16p

 | ROTARY
Main DR 4 amon

 | 20 Ma 100

 | S2118 - Ime 754 | 4 433619MHz

 | Toshiba CMOS | 2N3702 10p
2N3703 10p

 | 2N5175
2N5179 | 58p
39p | ACY20
 | 75p BC | 214B
 | 2p BD 201 | 1 30
 | | | | | | | | |
 | | | | | | | |
| Standard Turner

 | INat. Panasonic)

 | 18p

 | with 's spindle

 | 34 Mai 2 40

 | S211G-1m# 75p | 5.00MHZ 1.50

 | Hitachi Micro | 2N3704 10p

 | 2N5180 | 43p | ACY22
 | 75p BC
75p BC | 214C 1
214L 1
 | 00 8D202 | 1 39
 | | | | | | | | |
 | | | | | | | |
| only 8p

 | 47 63 8p

 | 3 Core 6 Amp

 | 65p

 | 50 AB 2.75

 | 21mm Standard | 6 00MHz 1 39
5 9375MHz 3 50

 | piocessor 9.00 | 2N3706 10p

 | 2N5183
2N5184 | 1 00 | ACY28
 | 75p BC | 214LB
 | 30 BD220 | 1.00
 | | | | | | | | |
 | | | | | | | |
| %" CERMET 20

 | 47 100 9p
47 350 300

 | 3 Core 13 Amp

 | Stop Type

 | Female Header

 | K210Eplan 68p | 8 00MHz 1 49

 | 8.50 | 2N3707 10p

 | 2N5188 | 1 15 | AD136
 | 6 75 BC | 214LC
237
 | P BD221 | 95p
 | | | | | | | | |
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| TURN PRESETS

 | 1 63 8p

 | 56p

 | 10 1 to 12 May 555

 | 15 way 1.07

 | 4,2518 + Ine 78p | 16.00MHz 1.75
15.00MHz 1.79

 | Hitachi Powerfet | 2N3709 10p

 | 2N5189
2N5190 | 1.00
68n | AD 149
 | 79p BC. | 237A
 | 6p BD224 | 95p
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 | | | | | | | |
| 2000, 5000, 1K

 | 1 500 9p

 | SCREENED

 | 20 2 to 6 Ma

 | 20 NS 125

 | K2110+Ine 78p | 20 00MHz 1.99

 | 6.50 | 2N3710 10p

 | 2N5191 | 70p | AD 161
 | 39p BC | 237C
 | BP BD232 | 1_11
 | | | | | | | | |
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| 2K. 5K. 10K.

 | 2.2 25 Bp

 | Single 14p
Staren 27p

 | 30 3 10 4 13

 | 34 way 1.75

 | 25mm Winged | 48.00MHz 1.69

 | TEXAS | 2N3712 2.00

 | 2N5193 | 79p | AD162
AE106
 | 39p BC | 238
 | 40 BD234 | 72p
 | | | | | | | | |
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| 200K 500K

 | 2.2 100 11p

 | Mini Single 12p

 | 55p

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 | W2105 86p
W2105 86p | 100.00MHz 2.95

 | STANDING | 2N3713 1.38

 | 2N5195 | 99p | AF109
 | 75p BC | 238B
 | 60 BD237 | 98p
98p
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| each 89p

 | 2.2 360 30p

 | 4 Core 4 Screeps

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 | K2808 88p |

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 | Screen 54p

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 | 3.290G 88p | TOOLS

 | Security Elect |

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| PLEASE PHONE

 | 4.7 25 9p

 | 5 Core 61p

 | Please Phone:

 | 5 pin 180 12p

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| CERAMIC

 | 47 40 11p

 | Heavy Duty

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 | SOCKETS

 | 21mm plain 5p | Nose Pliers 5 2

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 | 22 25 11p

 | 759 VHF 28p

 | DIL SOCKETS

 | 2 pin 9p

 | 21mm plain 5p
21mm + dot 8p | Nose Pliers 5 2
10,35

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| SIEMENS 63V
MONOLYTHIC

 | 22 25 11p
22 40 14p
22 63 16p

 | 75Ω VHF 28p
300Ω Flat 14p

 | DIL SOCKETS

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 180 %

 | 21mm plain Sp
21mm - dot Bp
21mm + line Bp
29mm (ffed Bik. | Nose Pliers 5 2
10.35
L870. Snipe
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| SIEMENS 63V
MONOLYTHIC
MINI CERAMIC

 | 22 25 11p
22 40 14p
22 63 16p
22 100 21p

 | 75Ω VHF 28p
300Ω Flat 14p
RAINBOW

 | DIL SOCKETS
Lo-
Pins prof WWp
8 8p 25p

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 10p 5 pin 10p 5 pin 10p 5 pin 240°

 | 21mm plain Sp
21mm + dot Bp
21mm + line Bp
29mm (fied, Bik,
Grey only) Bp | Nose Pliers 5 2
10,35
L870, Snipe
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Pliers 4, 7, 10,35

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C240 (15W) 4 95 |

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| SIEMENS 63V
MONOLYTHIC
MINI CERAMIC
10nF, 22nF 10p
33nF, 47nF 10p

 | 22 25 11p
22 40 14p
22 63 16p
22 100 21p
47 25 14p
47 40 17p

 | 75Ω VHF 28p
300Ω Flat 14p
RAINBOW
RIBBON
Prices per foot

 | DIL SOCKETS
Lo-
Pins prol WWp
B Bp 25p
14 9p 35p

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 100 5 pin 200 6 pin 20p 7 pin 25p

 | 21mm plain Sp
21mm + dot Bp
21mm + line Bp
29mm (Hed Bik,
Grey only) Bp
Nat Covers | Nose Pliers 5 2
10.35
L870, Snipe
Nose
Pliers 4 7 10.35
L160, Long Nose
Pliers 14,95

 | SOLDER
Antex Irons
C240 (15W) 4.95
X5240 (25W) |

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| SIEMENS 63V
MONOLYTHIC
MINI CERAMIC
10nF, 22nF 10p
33nF, 47nF 10p
68nF, 14p

 | 22 25 11p 22 40 14p 22 63 16p 22 63 16p 24 100 21p 47 25 14p 47 40 17p 47 63 26p

 | 75Ω VHF 28p
300Ω Flat 14p
RAINBOW
RIBBON
Prices per foot
8 way 25p
10 way 25p

 | DIL SOCKETS
Lo-
Pins prol WWp
8 8p 25p
14 9p 35p
16 10p 40p
18 16p 50p

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 180° 10p 10p 5 pin 240° 6 pin 20p 7 pin 25p

 | 21mm alam Sp
21mm + dot Bp
21mm + line 8p
29mm (Hed Bik
Grey only) Bp
Nut Covers
15mm | Nose Pliers 5.2
10.35
L870, Snipe
Nose
Pliers 4.7 10.35
L160, Long Nose
Pliers 14.95

 | SOLDER
Antex Irons
C240 (15W) 4 95
XS240 (25W)
5 25
Iron Stand 1 75 |

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| SIEMENS 63V
MONOLYTHIC
MINI CERAMIC
10nF, 22nF 10p
33nF, 47nF 10p
68nF 14p
100nF 14p

 | 22 28 11p
22 40 14p
22 63 16p
22 100 21p
47 25 14p
47 63 26p
47 10 28p
47 10 28p
100 16 14e

 | 75Ω VHF 28p
300Ω Flat 14p
RAINBOW
RIBBON
Prices per foot
8 way 25p
10 way 25p
16 way 39p

 | DIL SOCKETS
Lo-
Pins prof WWp
8 8p 25p
14 9p 35p
16 10p 40p
18 16p 50p
20 20p -

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 100 5 pin 20p 7 pin 20p 7 pin 20p DIN LINE DIN LINE

 | 21mm Idan Sp
21mm Idan Bp
21mm Ida Bp
29mm (Hed, Bk,
Greyonly) Bp
Nut Covers
15mm
Colours as
above Bp | Nose Pliers 5.2
10.35
L870 Shipe
Nose
Pliers 4.7 10.35
L160 Long Nose
Pliers 14.95
CK TOOLS
C60 4.4 " Side

 | SOLDER
Antex krons
C240 115W1 4,95
XS240 (25W)
5 25
Iron Stand 1,75
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| SIEMENS 63V MONOLYTHIC MINI CERAMIC 10nF, 22nF 33nF, 47nF 10nF 14p 100nF 14p 100nF 14p 100nF 14p

 | 22 28 11p
22 40 14a
22 83 16p
22 100 21p
47 25 14a
47 63 26p
47 63 26p
47 10 28a
100 25 16p

 | 750 VHF 28p
3000 Flat 14p
RAINBOW
RIBBOW
Prices per foot
8 way 25p
10 way 25p
10 way 39p
20 way 48p
24 way 62p

 | DIL SOCKETS
Lo-
Pins prof WWp
8 8p 25p
14 9p 35p
16 10p 40p
18 16p 50p
20 20p -
22 22p -
24 24p 70p

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 100 5 pin 20p 7 pin 20p 7 pin 25p DIN LINE SOCKETS 2 pin 10p

 | 21mm alian Sp
21mm + dot Bp
22mm + line Bp
22mm (fied; Bk,
Greyonly) Bp
Nut Covers
15mm
Coldors as
above Bp | Nose Pliers 5.2
10,35
L870, Snipe
Nose
Pliers 4.7 10,35
L160, Long Nose
Pliers 14.95
CK TOOLS
C80.4% " Side
Cutter 10.02
C73.4% Side

 | Solder
Antax Irons
240 115W 4 95
525 125W 5 25
Iron Stand 1 75
Elements
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C240 Bits |

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| SIEMENS 63V MONOLYTHIC MINI CERAMIC 10nF, 22nF 10p 33nF, 47nF 10p 68nF 14p 100nF 14p 8ARRIER LAYER CERAMIC DISC 220nF, 25V 15p

 | 22 28 11p
22 40 14p
22 60 16p
22 100 21p
47 40 17p
47 40 17p
47 63 26p
47 100 28p
100 16 14p
100 25 16p
100 40 22p

 | 750 VHF 28p
3000 Flat 14p
RAINBOW
RIBBON
Prices per foot
8 way 25p
10 way 25p
10 way 25p
16 way 39p
24 way 62p
30 way 75p

 | DIL SOCKETS
Lo-
Pins prof WWp
B 8p 25p
14 9p 35p
16 10p 40p
18 16p 50p
20 20p -
22 22p -
24 24p 70p
28 28p 70p
29 20p 70p

 | SOCKETS 9p 3 pm 10p 5 pm 10p 5 pm 20p 7 pm 20p 7 pm 20p 7 pm 20p 7 pm 25p DIN LINE SOCKETS 2 pin 10p 3 pin 10p

 | 21mm silain Sp
21mm + do Bp
21mm + line Bp
29mm (Heid Bit,
Grey only) Bp
Nut Covers
15mm
Colour as
above Bp
POINTERS
15mm | Nose Pliers 5.2
10,35
L870, Snipe
Nose
Pliers 4.7 10,35
L160, Long Nose
Pliers 14,95
CK TOOLS
C80.4 ½ ~ Side
Cutter 10.02
C73.4 ½ ~ Side
Cutter 9.28

 | SOLDER
Antex Irons
(240 15W1 4.95
XS240 (25W1)
5 25
Iron Stand 1.75
Elements
(State Iron) 2.05
C240 Bits
No. 2 (Small) B5p |

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| SIEMENS 63V
MONOLYTHIC
MINICERAMIC
10nF, 22nF 10p
33nF, 4 YnF 10p
68nF 14p
100nF 14p
BARRIER LAYER
CERAMIC DISC
220nF, 25V 15p
BOLYESTVERM

 | 22 28 11p 22 40 16p 22 100 21p 47 25 14p 47 63 26p 47 100 28p 47 53 26p 100 16 14p 100 25 16p 100 63 25p 100 63 25p 100 63 25p 100 100 32p

 | 750 VHF 289
3000 Flat 140
RAINBOW
RIBBON
Prices per foot
8 way 25p
16 way 39p
20 way 48p
24 way 62p
30 way 75p
30 way 82p

 | DIL SOCKETS Lo Pins prof WWp B 8p 25p 14 9p 35p 16 10p 40p 18 16p 50p 20 20p - 22 22p - 24 24p 70p 28 20p 99p

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 100 5 pin 120° 6 pin 20p 7 pin 25p DIN LINE SOCKETS 2 pin 10p 3 pin use 5p 180° 180° 15p

 | 21mm datan 5p
21mm datan 5p
21mm data 8p
21mm data 8p
29mm filed Bla.
Grey only1 Bp
Nut Covers
15mm
Colouri as
above 8p
POINTERS
15mm
or 21mm | Nose Piers 5.2
10.35
L870, Snipe
Nose
Piers 4.7 - 10.35
L160, Long Nose
Piers 14.95
CK TOOLS
C80.4 % "Side
Cutter 10.02
C73.4 % 'Side
Cutter 9.28
C72.4 % Piers
Snipel 7.2 %

 | SollDer Antex Irons C240 (15W) 4 495 X5240 (25W) 5:25 Iron Stand 175 Elements IState Ironi 2.05 C240 Bits No. 3 (Med.) 83p No. 6 (Miccan 83p |

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| SIEMENS B3V MINI CERAMIC 10n5, 22nF 10p 33nF, 47nF 10p 68nF 14p 100nF 14p BARRIER LAYER CERAMIC DISC 220nF, 25V 15p POLYSTYRENE 160v

 | 22 28 11p 22 40 14p 28 63 16p 27 100 21p 47 63 28p 40 17p 25 100 16 14p 100 25 15p 100 63 25p 100 63 25p 100 10 30p 220 10 10p

 | 7550 VHF 28p
3002 Flat 14p
RAINBOW
RIBBON
Prices per loct
8 way 25p
10 way 25p
10 way 25p
10 way 39p
20 way 48p
30 way 75p
30 way 75p
40 way 88p

 | DIL SOCKETS
Lo-
Pins prof WWp
H 9p 25p
14 9p 35p
16 10p 40p
20 20p -
22 22p -
24 24p 70p
28 28p 79p
40 30p 99p
ZERO INSERTION

 | SOCKETS 9p 2 pin 10p 5 pin 100 100 5 pin 100 100 6 pin 20p 7 pin 20p 8 OCKETS 20in 2 pin 10p 3 pin 100 100 3 pin 100 100 3 pin 100 100 180° 5 pin 10p

 | 21mm dalam Sp
21mm dalam Sp
21mm time Bp
29mm (Hea Bis,
Grey only) Bp
Nat Govers
15mm
colours as
above Bp
POINTERS
15mm
or 21mm
Colours as
above Bp | Nose Pliers 5 2
10.35
L870, Snipe
Nose
Pliers 4,7 10.35
L160, Long Nose
Pliers 14,95
CK TOOLS
C80 4,4" Side
Cutter 10.02
C73 4,4" Side
Cutter 9,28
Citter 9,28
Ci

 | Soldber Antax Irons C240 (15W) (4 95) X5240 (25W) 5 25 Iron Stand (255) C240 (26W) State Iron (2 05) C240 Bits No. 3 (Med.) 85p No. 3 (Med.) 85p No. 4 (Med.) 85p No. 4 (Med.) 85p No. 4 (Med.) 85p No. 4 (Med.) 85p No. 20 (Med.) 85p No. 4 (Med.) 85p No. 20 (Med.) 85p No. 20 (Med.) 85p No. 3 (Med.) 85p No. 4 (Med.) 85p No. 5 (Med.) 85p No. 6 (Med.) 85p No. 7 (Med.) 85p No. 8 (Med.) 85p |

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| SIEMENS B3V
MONOLYTHIC
MINI GERAMIC
JORF, 22/m 10p
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000/m 14p
BARRIER LAYER
CERAMIC DISC
22/0/m 25V
15p
90/m 5%
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 | 22 26 116 22 40 14p 22 80 16p 22 100 21p 47 25 14p 47 63 26p 100 25 15p 100 25 15p 100 25 15p 100 30p 100 2200 16 17p 2200 16 75p

 | 7550 VHF 28 p
3002 Flat 14 p
RAINBOW
RIBBON
Prices per lont
8 way 25 p
10 way 25 p
10 way 25 p
10 way 25 p
20 way 48 p
24 way 62 p
30 way 75 p
32 way 82 p
40 way 88 p

 | DIL SOCKETS Lo- Lo- Pins prol WMn B Pins Pins <td>SOCKETS 2 pin 9p 3 pin 10p 5 pin 100° 6 pin 20p 7 pin 20p 7 pin 20p 2 pin 10p 2 pin 20p 7 pin 20p 3 pin use 5p 13p 5 pin 15p PHONO PLUGS 20p Matul 20p</td> <td>21mm dalam Sp
21mm dot Bp
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Did4 5, 15mm</td> <td>Nose Pliers 5 2
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L870, Snipe
Nose
Pliers 4.7 - 10.35
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Pliers 14.95
CK TOOLS
C80 4 % "Side
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DE-SOLDERING
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 | 756 V+HF 28 pr 3000 F lat 14p RAINBOW RIBBOW RBBON 8 way 25 pr 16 way 20 way 25 pr 16 way 25 pr 20 way 48 pr 20 way 48 pr 20 way 48 pr 20 way 82 pr 40 way 85 pr 20 way 82 pr 40 way 88 pr PCB MAT

 | DIL SOCKETS Lo- Pins prof WWp. B 8p 25p Pins prof WWp. B 9p 35p 16 10p 40p 20p - 22 22 22p - 24 24p 70p 20 30p 99- 2CRO INSERTION FORCE DIL SOCKETS 240 pin 4, 25

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 100 5 pin 100 5 pin 201 16 pin 20p 7 pin 25p Din Line SOCKETS 2 pin 10p 3 pin use 5p 180° 180° 15p PHONO PLUGS Metal Plastic: Red, 20p

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 | DIL SOCKETS Lo- Lo- Pins prof WWp, B 8p 16 00 18 16p 90 20p - 22 22p - 24 24p 40 30p SOCKETS 24pin 24pin 4.25 40pin 5.25

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 | DIL SOCKETS Lo- Lo- B By Z5p 14 9p 35p 15 100+40p 40p 20 22p 24 24p 24 24p 70p 28 28p 40 30p 99p ZERO INSERTION FORCE DIL SOCKETS 24.0pm 5.25 Z4pm 4.25 UHF FLZ59 TYPES Y Y Y

 | SOCKETS
 2 pin 9p 3 pin 10p 5 pin 120 6 pin 20p 7 pin 20p 9 pin use 5p 10p 180° 5 pin 5 pin 15p PHONO PLUGS 20p Plastic: Red. 20p Plack 15p

 | 2 Inm Jaim Sp
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C806 4% "Side
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C734 4% Side
Cutter 10.02
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Cutter 9.28
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 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 10p 5 pin 10p 6 pin 20p 7 pin 25p SOCKETS 3pin 9 pin 10p 3 pin 10p 3 pin 10p 5 pin 15p PHONO PLUGS Metal Veillow, Green 15p Platic: 15p PHONO CHAS 15p

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 | DIL SOCKETS
Dis prof WWp,
B 8p 25p
4 10 340p
18 16p 50p
20 20p -
22 22p -
24 24p 70p
28 26p 73p
FORCEDIL
SOCKETS
24 pin 4.25
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UHF FL28
Low loss,
superor quality
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 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 10p 6 pin 10p 6 pin 20p 7 pin 20p 7 pin 20p 7 pin 25p 10N LINE SOCKETS 2 pin 10p 3 pin use 5p 180° 4 pin use 5p 15p PHONO PLUGS Metal Metal 15p PHONC CHAS. SOCKETS Single 16p

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 | SOLDER
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 | 750 Virit 250 Virit 250 Virit 9300 Fiat 14p RAINBOW Risborn Prices perforts 250 10 way 250 20 way 820 PCB MAAT BRADE ONE 1500 420 × 128 mm 1.95 20 × 245 mm 2.95 FERRIC CHLORIDE PELETS Ouck dissolving Ouck dissolving 1.20 TCH ASESIST PEN 1.20 TCH HASEST 1.20 TCH HASEST Tmolines

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 | SOCKETS 2 pin 9p 3 pin 10p 9 pin 100 9 pin 100 9 pin 100 9 pin 100 9 pin 20p 9 pin 20p 9 pin 25p 9 pin 10p 3 pin use 5p 1160° 180° 15p Phono CHAS 50CKETS 5 mole 120p Phono CHAS 50CKETS 5 mole 120p Phono CHAS 50CKETS 50042 25p 80xter 12p Convectors 25p 80xtor 4HP7 25p 80xtor 4HP7 23p 80xtor 4HP7 33p 7ANSISTOR 30p

 | 2 Inm Jaim 5p
2 Inm - dor 9p
2 Inm - dor 9p
2 Inm - leng Bo
Grey only 1 Bp
Mut Covers
1 Smm
Colours as
above 8p
DIALS 15mm
or 21mm
Colours as
above 8p
DIALS 15mm
Red + Point 26p
Bis + Point 26p
Dias 1 to 10 26p
Dias 1 to 10 26p
Dias 2 20m
DIALS 21mm
Red + Point 28p
Dias 2 10 to 220
Dias 1 to 10 28p
Dias 2 20m
DIALS 21mm
Red + Point 28p
Dias 2 20m
DIALS 21mm
Red + Point 28p
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| SIEMENN 6 23U MONOLYTER MONOLYTER MONOLYTER MONOLYTER MONOLYTER Barrier 100nf 220nf 220nf 220nf 220nf 220nf 33pri 30pri 100pri 100pri <t< td=""><td>22 28 116 22 40 142 22 40 142 22 40 142 24 102 116 24 102 121 47 40 216 47 100 128 1000 161 149 1000 100 255 1000 160 220 2200 16 172 2200 16 220 2200 16 339 1000 162 220 2200 16 339 1000 162 220 1000 163 339 10000 25 339 10000 25 339 10000 25 339 10000 25 339 10000 25 339 10000 25 339 10000 25 339</td><td>750 Virit 250 Virit 250 Virit 9500 Fisit 14p 8000 Fisit 14p 8180 W Prices period 900 Fisit 14p 8 way 25p 10 way 25p 10 way 25p 10 way 25p 20 way 82p 40 way 82p 420 × 136m 1.95 420 × 245mm 1.95 Petters 0uck disolviring Childholp Petters Ouck disolviring 1.20 Nubi 1.20 Nubi 1.20 1 Then Innes 1.7 holines 2 Theckines 1.7 holines</td><td>DIL SOCKETS
Pins prof WX50
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Pins prof Pins Pins
Pins Pins Pins Pins Pins Pins Pins Pins</td><td>SOCKETS 2 pin 9p 3 pin 10p 5 pin 10p 9 pin 200 9 pin 200 9 pin 200 9 pin 200 9 pin 25p 9 pin 10p 9 pin 25p 9 pin 10p 9 pin 10p<</td><td>2 Inm Jaim Sp
2 Inm - dor Bp
2 Inm - long Bp
Clear Sp
Cloar as a
above Bp
DIALS ISmm
ext - Point Sp
Bis - Point Sp
Dial S ISmm
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Clear Taper 280
Dial S ISmm
All Ora-
Bis - Point Sp
Dial S ISmm
Bis - Point Sp
Dial S ISmm
Bis - Point Sp
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Bis - Point Sp
Dial S ISmm
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Dial S ISmm
His - Spint Sp
Dial S ISm
All S - mail Sp
Dial S - mail S - mail Sp
Dial S - mail S - mail S - mail Sp
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Antax tons
(220115W14 49
Stand) 1200
Elements
(State from) 2.05
C240 Bis
No 2 (Small Bas)
No 3 (Med) 88
No 3 (Med) 88
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 | 22 28 116 22 40 142 22 40 142 22 40 142 24 102 116 24 102 121 47 40 216 47 100 128 1000 161 149 1000 100 255 1000 160 220 2200 16 172 2200 16 220 2200 16 339 1000 162 220 2200 16 339 1000 162 220 1000 163 339 10000 25 339 10000 25 339 10000 25 339 10000 25 339 10000 25 339 10000 25 339 10000 25 339

 | 750 Virit 250 Virit 250 Virit 9500 Fisit 14p 8000 Fisit 14p 8180 W Prices period 900 Fisit 14p 8 way 25p 10 way 25p 10 way 25p 10 way 25p 20 way 82p 40 way 82p 420 × 136m 1.95 420 × 245mm 1.95 Petters 0uck disolviring Childholp Petters Ouck disolviring 1.20 Nubi 1.20 Nubi 1.20 1 Then Innes 1.7 holines 2 Theckines 1.7 holines

 | DIL SOCKETS
Pins prof WX50
Pins prof WX50
Pins prof WX50
Pins prof WX50
Pins prof WX50
Pins prof WX50
Pins prof Pins Pins
Pins Pins Pins Pins Pins Pins Pins Pins

 | SOCKETS 2 pin 9p 3 pin 10p 5 pin 10p 9 pin 200 9 pin 200 9 pin 200 9 pin 200 9 pin 25p 9 pin 10p 9 pin 25p 9 pin 10p 9 pin 10p<

 | 2 Inm Jaim Sp
2 Inm - dor Bp
2 Inm - long Bp
Clear Sp
Cloar as a
above Bp
DIALS ISmm
ext - Point Sp
Bis - Point Sp
Dial S ISmm
Fait - Point Sp
Dial S ISmm
Fait - Point Sp
Dial S ISmm
Bis - Point Sp
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Dial S - mail S - mail Sp
Dial S - mail S - mail S - mail Sp
Dial S - mail S | Nose Piers 5.2 Nose Piers 5.2 Nose Diast Nose Construction Nose Piers 1.4.95 CK TOOLS CB0 4.4' Side CC72 4's '' Side C272 4's '' Side C72 4's '' Piers C72 4's '' Piers Cart To '' Piers Cart To '' Piers Construction

 | SOLDER
Antax tons
(220115W14 49
Stand) 1200
Elements
(State from) 2.05
C240 Bis
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CRICKLEWOOD ELECTRONICS LTD

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BF246B	510	M/2500 2 19	ZTX108 100	BRIDGE	2.5 Watt	CANDA 5-19	LM1305 3:10	TAA522 2.47	1477	I STOCKATOR	7415300 1 56	T and the	Landara aar
BF247A	54p	MJ2501 2.25	2TX105 12p 2TX300 13e	Tamptice	E24 Seties	C43038 2 65	LM1301 2.75 LM1310N 1.45	TAA550 73p TAA560 2.35	7400 160	746500 150	74LS445 99p	4017 32p	7415289 3.25
BF254	39p	MJ3000 2 19	Z1X301 150	W02 2001 26p	1.573Y 1110	CA3041 347	LM1030N 2.25	TAA570 2.35	7401 16p	74LS01 15p 74LS02 15p	74L5540 89p	4018 45p 4019 24p	74(5288 2.25
BF256A	42p 35p	MJ4032 3.25	ZTX303 230	W04(200) 280 W08(800) 405	tollowing	C43042 3.47 C43043 2.75	LM1496 75p	TAA661A 2.50	7403 16p	74LS03 15p	74LS541 79p 74LS640 99p	4020 42p 4021 39o	LOG. IC'S
BF2560 BF256C	45p 62p	MJ4035 3.65 MJ4502 3.99	ZTX304 15p ZTX310 35p	There is a local of	VIII ADAR CONV 2013 2014 (4013)	CA3046 69p	LM1800 3.24 LM1801 2.99	TAA6618 2.50 TAA700 2.60	7404 16p 7405 16p	74LS04 15p 74LS05 15p	74LS641 99p 74LS643 99p	4022 390	inc COMP
8F257 8F258	30p	MJ15003 4,85	2TX311 328 2TX312 250	Sputte with hole	4V7.5V6.7V6	CA3048 2.15	LM1812 8.00 LM1818 4.00	TAA930A 2.50 TAA930B 2.63	7408 14p 7409 14p	74LS08 15p 74LS10 15p	74LS644 99p	4024 32p	ADC0504 4 40
8F259	35p	MJ15015 2 45	21X3T3 36p 21X3T3 36p	502/200 40p	10V 12V 20V	CA3050 4 11	LM1820 2.15 LM1828 4.79	TAA970 2:45 TRA120AS 590	7410 14p	74LS11 15p 74LS12 15p	74LS670 1.19	4026 790	ADC0816 14 95
BF263	90p	MJE340 53p	27×320 350	508 (#00) 40p	58V 1.25	CA3052 2.92	LM1930 2.44	TBA500 2 97	7412 18p	74L513 15p 74L514 24m	74LS674 9.99	4027 28p 4028 39p	AY5 1013A 3 00
BF270 BF271	65p 68p	MJE370 97p MJE371 99p	Z1X341 28p	Samplupe	20W, Pits Stud	CA3053 1.00 CA3054 1.86	LM1848 2.89	IBA510 2.95	7414 18p	74LS15 15p	74LS688 1.19	4029 43p 4030 19p	INS1671 20.00
BF336	38p 36p	MJE520 92p MJE521 94p	21X501 14p	Southe with trate PW01 (100) 506	(BZY93 series) E24 values	CA3059 2.80 CA3060 4.09	LM1871 3.25	TBA520 2.57	7417 19p	74L521 15p	24500 28p	4031 1.19 4032 79p	MC1466L 6.95
8F337 8F338	28p 48p	MJE2955 99p MJE3055 69p	21X502 14p 21X503 17p	PW02 (200) 78p PW04 (400) 85p	705-750 2.10	CA3062 13.84 CA30655 4.62	LM1877 3.95	18A5200 2.75 18A530 2.55	7420 15p 7421 19p	74LS22 15p	74S02 28p 74S04 28p	4033 1 19	MC1488 55p MC1489 55p
BF355 BF362	60p 85p	MP8111 1.20 MP8112 1.68	21X510 24p	FW06 (600) 90p	OPTO	CA3068 4.23 CA3070 3.20	LM1889 3.77	TBA5300 2.76 TBA540 2.72	7422 19p 7423 19p	74LS28 15p	74508 58p 74520 38p	4035 44p	MC4024 3 25 MC4044 3 25
8F363 8F457	85p 46p	MP8121 1.62 MP8122 1.68	27X530 24p 27X531 25p	25 amp type Marel clark with	A = Red	CA3071 3.30 CA3075 2.10	LM2907N 2.75 LM2907N5 2.60	1845400 2.74 184550 3.25	7426 19p 7428 19p	74L532 15p	74530 90p 74532 70p	4037 1.13	MK50250 10.00 MK50398 6.35
8F458 8F459	56p 62p	MP8512 1.89 MPF102 390	27X650 45p	nole.	Y = Yellow	CA3076 3 42 CA3078T 2 25	LM2917N 1 89 LM2917N6 1 89	TBA5600 3.27 TBA560C 2.87	7427 19p 7428 26p	74LS37 15p	74540 1.45 74564 1.02	4039 2.45	MM5303 6:26 MM5307 12:75
BF469 BF470	86p	MPE103 29p MPE104 79p	IVIANY	K02 200 2.30	1+50+	CA3080 1.89	LM3301 1.60 LM3302 74p	TBAS70 2.37 TBAS700 2.48	7430 19p 7432 22p	74LS38 15p 74LS40 15p	74565 1.02	4041 39p	MM5357 22.50 MM5710514:00
BF494 BF494	29p	MPE 105 29p	I MORE	K06 (600) 3.40	650 15p 12p	CA3080E 70p	LM3401 65p LM3404 75e	TBA581 3.11 TBA541 2.80	7433 22p 7437 25p	74LS42 28p 24LS47 35p	74585 2.99	4043 39p	MM5710912.00 MM5716012.00
BF 900	1,09	MPF121 1.69	TRANS-	35A 400V 3.95	Y50 15p 12p	CA3085 1.35	LM3405 145 LM3524 677	184651 1.90 184673 4.15	7438 21p 7440 19p	74LS51 14p 74LS54 14p	74S112 75p	4045 990	MM5716112.00 MM5817411.80
BFR40 BER41	22p	MPS8530 45p	ISTOPS	Proprietory	R2D 8p 6p	CA3089E 1.95	LM3900 48p	TBA700 2.38	7441 55p 7447 32p	74LS55 14p 74LS73 28p	745124 2.95	4040 44p 4047 69p	R02513LC 7.50
BFR79	22p	MP56562 450	131003	840C1500 1 20	G20 12p 10p Y20 12p 10p	CA3130E 87p	LM3908 79p	TBA720A0 2.60	7443 B9p	74LS74 28p 74LS75 28e	74S133 60p	4048 39p 4049 22p	SAA5000 3.00
BFR81	220	MPSA06 25p	IN	880C1700 1.80 8¥164 55p	Micro 0 1 810 25p 22p	CA3140E 39p	LM3914 2.50	TBA7500 2.46	7445 49p	74L576 28p 74L578 28n	745139 1.10	4050 23p 4051 44p	SAA5012 7.10
BFS28	2.95	MPSA12 29p	SIUCK	89179 92p	G1D 27p 25p Y1D 27p 25p	CA3160AE 99p	EM3916 2.60	TBA800 78p	7447 39p	74LS83 36p 74LS85 43p	745153 7.95	4052 58p 4053 49p	SAA5030 9.00
BFS98	1.10	MPSA13 48p MPSA14 46p	DIODES	88100 25p	Lage clear	CA3161E 1.59 CA3162E 4.49	M250N 2.38	TBA820 75p	7450 15p	74LS86 16p	745167 2.20 745163 3.00	4054 79p 4055 83p	5AA5041 15 00
BFT66	2.48	MPSA18 65p	1N34A 30p 1N821 70p	ALEY AUST CORST	85C 12p 10p 65C 17p 13s	HA1388W 2.40	M83712 2.18	TBA920 1.95	7453 15p	74LS92 29p	745175 3.20	4056 83p 4059 4 35	5445050 8 50 5445052 8 50
BPW 11	1.48	MPSA42 49p	1N823 92p 1N914 4p	Sensitive Gate Small Suppal	Y5C 17p 13p	HA368 2.54 ICL3106 6.85	M68719 7.95	TBA950 1.97	7460 15p	74LS95 39p	745188 1.40	4060 42p 4063 79p	TM56011 3.65
BFX 29 BFX 30	26p 27p	MPSA43 49p MPSA55 28p	1N916 6p 1N1184 2.95	2N5060 30p	Super bright	ICL7107 9.50 ICL8038 2.99	ME 1304 2.50	TBA990 2.65 TBA9900 2.74	7470 34p 7472 25p	74L5107 35p	745194 1.90 745200 4.60	4066 22p 4067 2 39	8126 95p 8128 1.20
BFX 34 BFX 37	1.00 70p	MPSA55 30p MPSA65 40p	1N1190 1.47 1N1192 1.75	2N5062 35p	Efficiency At	ICM7555 BOp LC7120 3 30	MC1305 3.10 MC1307 2.75	TCA105 3.00 TCA160C 2.67	7473 55p 7474 55p	74LS112 22p	745201 2 40 745225 2 40	4068 19p	8195 85p 8197 85p
BEX43 BEX84	70p 27p	MPSA56 47p MPSA70 45p	1N1194 1 65	2N5064 40p	brighter then	LC7130 3.40	MC1310 1.45 MC1330 2.25	TCA210 2.75 TCA220 3.44	7476 55p 7476 55p	7455113 19p 7455114 22p	745261 3.00 745262 8.60	4070 190	81L595 80p 81L596 85p
BFX85 BFX86	28p 28p	MPSA92 39p MPSA93 39p	1N1196A 2.41	BR103 69p	for the same	15347 1.50 15351 47n	MC1352 2.25 MC1456 2.25	TCA270 2.44 TCA440 2.69	7480 49p 7481 1,19	74LS122 3Zp 74LS123 36p	745287 2.19 745288 1.99	4072 19p	81LS97 90p 81LS98 85p
BFX87 BFX88	25p	MPSL01 46p	1N1201A 97p	BRY39 60p BRY55-100 60p	R5U 38p 29p	LF353 92p	MC1458 44p MC1466L 6.95	TCA450 2.65	7482 64p 7483 38c	74LS124 89p 24LS125 24p	745289 1.57	4078 19p	6522 3.19 6522a 4.00
BFX89 BFX19	1.75	MPSU01 84p	1N1206 1.20	BRY55 300 67p BRY56 50p	Y5U 42p 34p	17356 920	MC1468L 4 30 MC1495 4 90	1CA730 4.80	7484 69p 7485 590	74US126 25p 74US132 29p	745470 3.25	4077 19p	6532 5.70 6821 1.09
BFY37 BEV50	1.20	MPSU05 55p	1N4002 4%p	TIC44 35p TIC47 50p	RECTANGULAR	LF387 4.62	MC1496 75p MC3302 1.00	TCA750 4.85	7486 19p	74LS136 24p 74LS138 39p	745473 12 50	4061 19p	6845 6.50
BFY51	23p	MPSU07 75p	1N4003 5p 1N4004 5%p	4.8-8-12.Amps	LEDs Stackable End	UF13331 3.30	MC3340 1.20	TCA800 3.50	7490 19p	74LS139 28p 74LS145 99n	745476 7.96	4082 19p 4085 49p	6850 1.10
BFY 53	31p	MPSU55 58p	1N4005 6p 1N4006 6%p	Texas T0220 Suffoc A = 100V	to End HSR 57p	LF13741N 59p	MC3401 65p	TEA8305 1 90	7492 25p	74LS147 99p 74LS148 75c	745573 9.00	4086 60p 4089 1.23	6875 485
BFY56A	68p	MPSU57 1 20	1N4007 7p 1N4009 20p	8 200V Ch 300V	GSR 18p YSR 18p	EMITICH 4.50	MC3404 75p	TCA940 1.69	7494 36p	74LS151 37p	74 CMOS/	4093 19p 4094 69p	8154 9.00
BLY83	79p 11.60	MRF475 6 50 OC20 2 30	1N4148 3p 1N4150 18p	0 - 400V M - 5000	RECTANGINAR	LM314 7.50 LM301AH 950	MC3446 3.25	TDA1002 3.39 TDA1003 3.94	7496 36p	74LS154 78p	74C00 37p	4095 71p 4096 69p	8212 1.10
BSV81 BSX19	1.95 24p	0C22 2.00 0C23 2.00	1N4448 22p 1N5400 12p	TIC 106A 46p	LEDS WITH	LM301AN 19p LM305AH 2.90	MC4044 3.25	TDA1004 3.94 TDA1005 3.94	74100 79p	74L5156 36p	74C02 37p 74C04 37p	4097 2.88 4098 74n	8216 99p 8223 1.80
BSX20 BSX21	24p 40p	OC25 2.50 OC28 1.70	1N5401 13p 1N5402 14p	TIC: OHC 48p	ITombesonel 21-	LM305H 88p LM307H 69p	MM5387 9.95	TDA1006 3.94 TDA1008 2.99	74104 49p 74105 55p	74LS168 29p	74C08 37p 74C10 37p	4099 89 p	8224 1.10 8226 2.50
BSX27 B5X28	78p 66p	OC29 2.95 OC35 2.35	1N5404 16p 1N5404 18p	TIC 1060 49p	G58 22p	LM307N 45p LM308AH 3.15	NE529 2.25	TDA1010 1.79	74109 25p	74LS161 35p	74014 37p 74020 37p	45 CMOS	8228 2.19 8238 6.75
BSX29 BSY95A	34p 25p	0E41 80p 0E43 70p	1N5407 190 1N5409 20e	10.100 000	MISC OPTO	LM308AN 2.14 LM308H 95p	NE531N 1,36 NE540L 4,95	TDA1024 1.14 TDA1170 3.10	74110 35p 74116 49p	74LS162 35p 74LS163 35p	74030 37p 74032 37p	4502 55p 4503 39p	8243 2.60 8250 8.40
BU104 BU105	2 22	0C44 82p 0C70 50p	1844 10p	TIC1158 68p	2N5777 45p	LM308N BBp LM309K 1.35	NE543N 2.50 NE544N 1.95	TDA2002 3.25 TDA2003 3.25	74118 55p 74119 59p	7415164 40p 7415165 48p	74042 1.25	4507 33p 4508 1.28	8251 2.50 8253 3.95
80108 80109	3.95	0C11 50p 0C72 50p	18134 560	1151165 21#	2965779 700	LM310H 1.95	NE556 18p NE556 45p	TDA2020 2.99 TDA2030 2.85	74120 59p 74121 25p	74LS168 84p 74LS169 85p	74073 990	4510 44p	8254 10.00 8255 2.19
8U126 8U204	1.47	0C82 50p 0C820 70p	BA102 250	10116M 60p	41427 74p	LM311H 1.04	NE558 1.89 NE560 3.25	TDA2522 4.20 TDA2523 4.95	74122 35p 74123 35p	74LS170 69p 74LS173 49p	74C76 78p	4512 48p	8257 4 00 8259 3.82
BU205 BU205	1.75	0C83 75p	84133 40p	11C1264 72p	SP104 1.00	LM317K 2.80	NE565 1.1B NE566 1.49	TDA2530 3.30 TDA2532 4.85	74125 35p 74126 34n	74LS174 34p 74LS175 34p	74085 1.60	4515 1.13	8279 375 8601 120
BU208 BU226	1.98	R20088 2.14	64142 20p	1027298 72#	3PW34 1.43 3PX25 2.47	LM318H 2.40	NES67 1.37 NES70 4.07	TDA2540 4.10	74128 35p 74132 29n	74LS181 88p 74LS183 1.05	24089 4 75	4518 39p	9062 2.20 260ACTC 2.60
8U3265 8U406	2.35	TIP29A 29p	8A155 15p	71C126C 73p TIC126D 77p	89X48 6.76	LM319H 2.48	NE571 3.99 NE592 1.95	TDA2560 4.10	74136 27p 74141 55c	74LS190 60p 24LS191 60p	74093 1 36	4520 48p	ZBDADART 5.60
BU407 BU408	1.45	TIP30A 35p	8A182 40p	TICTIEM 96p	32×X60 4.75 3≥X61 3.48	LM324N 39p	NE5534A 1 25p 0M335 7 20	TDA2581 3.75	74142 1.73	74LS192 80p 74LS193 80p	740107 95p	4520 68p	280A0MA 6.70 280A00 2.20
80409 80500	1.25	TIP31A 330	BA202 250	SCRS TRIACS	52X6J 2.93 6.74 55p	LM337K 4.39	PLL02A 4.95 PLL03A 12.75	TDA2590 5.20 TDA2591 4.73	74144 2.08	74LS194 32p 74LS195 32p	740154 3.50	4528 74p	ZN425E8 3 39 ZN426E8 2 97
BUV20	11.00	TIP32A 38p	84317 250	81101 5006	4.D74 95p 4.D74 1.99	LM337T 1.75	RC4136 59p RC4194 3.95	TDA2593 3.15 TDA2500 5.95	74147 74p 74148 586	74LS198 45p 74LS197 45p	740160 1.50	4534 3.95	ZN427E8 5.99 ZN428E8 4.05
BUV23 BUV24	13.60	TIP33A 65p	8AV10 15p	81106 2.25	1027 40p 10461 25p	LM339N 44p	RC4195 2.95 S5568 2.59	1DA2610 3.90 TDA2611A 2.50	74150 49p 74151 38e	74LS221 95p 74LS240 95p	740162 1.50	45.38 78p	VIREAS
BUV25 BUW81A	15.00	TIP34A 74p	GAVIO 15g	hichtem	1.45	LM348N 62p	SAA1024 4.99 SA63209 3.99	TDA2640 3.84 TDA3000 2.76	74153 39p 74154 53p	74LS241 95p 74LS242 95p	740164 1 50	4543 68p 4553 2.25	(See also
BUX20	17 00	TIP35A 1.09	BAX13 10p	5t+20 2.27	LO476 1.20	LM350K 4.60	SAB3210 3.18 SAS560 2.59	TDA3300 15.60	74155 39p 74155 39p	7415243 95p 7415244 95c	74C173 65p	4555 35p	- Positive -
E430	5.95	TIP36A 1 29	BAY35 20p	2.22	1.0479 1.65	LM380N 3.88	SAS570 2.59 SAS580 2.95	TL062 60p	74157 29p 74159 75p	74LS245 95p 74LS247 95a	74C175 1 50	4560 1.49	100 mA 78L05A 29n
J310 ME0401	53p	TIP41A 49p	BAY93 10p	Trail 400%	10486 1.25	LM377N 1.69	SAS590 2.95 SFF96364 7.99	TL071 34p	74160 59p 74161 48p	74LS248 95p 74LS249 85p	74C193 1.50 74C194 4.50	4569 1.65	78L12A 29p 78L15A 29p
MED402 MED404	30p 25p	TIP42A 55p	881048 80p	TIC2060 44 66p	10489 1.69	LM3795 4.50	SL470 3.47 SL490 3.47	TL074 89p	74162 38p 74163 39p	7415251 29p 7415253 32p	74C195 1.50 74C200 1.50	4585 59p	781.24A 29p
MEG411 MEG411	35p.	TIP49 1.20	88105 52p	10.2250 SA 88p	MOCIO20 1.49	LMISONE 150	SL610C 4.00 SL611C 4.00	TL082 45p	74164 39p 74165 49p	74LS257 29p 74LS258 35p	74C221 1.95	COMPIC'S	7805M 55p
MED413 MED414	35p	TIP53 1.67	881058 58p	1.15	71.32 71p	LM381N 140	SL612C 4.00 SL620C 6.00	TL084 890 TL170 400	74166 48p 74170 1.25	74LS259 55p 74LS261 99p	74C902 90p	CPUs	7815M 55p
ME0461	45p	TIP110 74p	BY125 11p	1.22	78.78 80p	LM383T 3.40	SL521C 6.00 SL523C 10.00	TL430 69p	74172 2.49	74LS266 18p 74LS273 54p	740904 90p	6502 3.24	1 Amp TO220
ME1001	45p	TIP115 81p	BY134 5Zp	1.90	1 8 100 72p	LM386N1 88p	SL630C 6.00 SL540C 6.00	UAA180 1.69	74174 54p 74175 49p	74LS275 1.25 74LS279 29p	74C907 90p	6802 2.40	7805T 39p 7812T 39p
ME 1075	45p	TIP120 69p	By188A 65p	140.2630-25A1 2.11	TL:38 2.40	LM388N 2.43	SL641C 6.00 SN76008 3.90	UPC 575C2 2.00	74176 39p 74177 45p	74LS280 89p 74LS283 39p	740911 9.95	6809 6.20 8035 3.49	7815T 39p 7824T 39p
ME 120	48p	TIP125 84p	8Y207 36p	116263N (254 800V)	16.129 Z.40 16.209 9p	LM391N60 1 70	SN76018 3 90 SN76003N 2 95	UPC 1025H 3.95	74178 79p 74180 40p	74L9289 4.70 74L9290 395	740814 1.50	8080A 2.50 8085A 3.49	1.5 Amp T003
ME4001	45p	TIP130 93p	BY297 48p	2.46	14p	LM392N 76p	SN76013N 2.95 SN76023N 2.95	UPC1035C 2 95	74181 1.15 74182 80c	74L8293 39p 74L5295 74p	740918 1.90	8900 57.75 9900 19.95	7812K 1.39
ME4003	450	TIP135 99p	BYX10 36p	2N5766 (T05)	TE313 1.02	LM394H 3.80	SN26033N 2.95 SN26477 4 20	UPC1158H 99p	74184 89p	74.5298 79p 74.5299 1.49	740922 5.75	SCMP1 20:00 280A 2.98	7824K 1.39
ME4102	25p	TIP140 104	67X71 3601 10	256070 1.00	TL403 3.80	LM709N8 64p	SN76550 80p SN76568 2 90	UPC1182H 3.75	74185 4.69	74LS323 1.59 74LS324 1.45	740925 6.80	2808 8.60	- Negative -
ME4104	26p	TIP145 1 15	ITT44 10p	2N6165(TD127) 3.39	TL 722A 490	LM210CH 89p	SO41P 1.95 SO42P 1.95	UPC1185H 6.45	74190 48p	74LS325 2.96 74LS326 2.39	740928 7.50	2102AL2 1.35	79L05 49p
MEGOOZ	25p	fiP162 4 95	11921 10p 111923 15p	40432 (Quadrac) 2.23	LINIC'S	LM711CH 1.38	TA/066 4.49	UPC1188H 4.50	74192 45p	74LS327 2.39 74LS347 95-	740930 5.50	2111-1 3.00 2114(200mi)996	79L15 49p
ME6101	25p 29p	TIP3055 70p	MZ2361 1 80	40486(T05)1.65 40512 2.78	ATT 5050 95p	1M723CH 95p	1A7073 4.25	UPC1212C 1.60	74194 39p	74LS348 89p	740932 2.45	2532 2.98 2564 5.99	500 mA T0202 7905M 65n
ME6102 ME8001	28p 47p	11543 40p 11545 45p	0A10 70µ 0A47 20p	40576/1066	AV3 #912 4.40	LM725CH 3.40	TA7130 1.75	UPC1228H 1.37	74196 45p	74LS353 61p	4000 160	2708 2.95 2715 (5v) 2.50	7912M 65p 7915M 65p
ME8002 ME8003	62p 50p	1(546 45p 1(547 49p	0A90 10p 0A91 10p	40842 1 92 B1139 600 1 95	CA3018 75p	LM/25CN 3 19 LM/232CN 69p	1A7203 4 99	UPC1470H 1.29	7418E 79p	74LS365 29p	4001 16p 4002 16p	2764 3.95 4027 3.00	7924M 65p
ME9001 ME9002	56p 56p	TISB8A 62p	0A95 20p 0A200 20p	A CONTRACTOR	CA3020 199 CA30204 3.90	LM741CH 96p LM741CN T8p	TA7205 1.20	UPC 2002H 2.95	74221 53p	74LS367 29p	4006 49p 4007 19p	4060 9.50	79057 44p
MJ481 MJ491	1.69	11590 28p T1591 30p	0A202 20p SPD9000 75p	400 500mW	GA3022 3 12	LM747CN1480p LM747CN 69p	TA7222 1.75	XR2206 2.92 XR2207 4.00	TTL &	74LS373 55p	4008 32p 4009 24p	4118-3 3.25 4164 4.26	7915T 44p
M3802 M3900	3.99 2.90	1/592 30p 1/593 54p	SP09002 95p	2 4 479 7p	CA2028 95p	LM748CH 1.00 LM748Ch 35p	TA7227 5.82	2N409 2.25	Pis phone	74LS386 1.14 74LS386 4.14	4010 24p 4011 16p	5204 7.50 5115P3 3.95	1.5 Amp TO3
MU1000	2.50	VNTOKM 60p VN46AF 84p	PROCESSOR	1 D Watt	CA30288 1.99 CA3029 1.44	LM1011 8.60	TAA263 3.88	ZN1034 1.99	for latest	74LS393 42p	4012 19p 4013 19p	6514 3.30 6810 1.16	7905K 1.99 7912K 1.99
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PROJECT

LIGHTSAVER

Here's a nifty little circuit that should be of universal applicability, wherever there are lightbulbs that get switched on and off a fair amount. Circuit by Kevin Jones.

ncandescent lamps almost invariably 'blow' when they are first switched on. The reason for this is that the cold resistance of the filament is very much lower than the hot resistance, with the result that a very large current can flow at switch on while the filament is heating up.

Filaments are, obviously, designed to withstand this surge, otherwise incandescent lights would not exist. However, part of the art of the manufacturer is not to 'over-engineer' a project (or, to the cynical, not to make products that last too long). This means that the average domestic light bulb can stand this sort of treatment for only so long before sucumbing.

There is a way of reducing the stress on the filament, however, and this is by implementing zerocrossing switching. In this, the initial current into the filament is allowed to flow only when the instantaneous voltage of the AC mains is well away from the peak voltage. In the circuit given here, the maximum voltage at turn-on will be 80 volts.

Looking at Fig. 1, we can see the effects of this. In the worst case, the light switch might close at or just before point B or B', with the result that the filament will have 80 volts applied to it immediately, and the voltage will then rise steadily to the peak voltage of 339 volts; this worstcase example is rather better than the normal possible worst case of the filament having 339 volts applied to it when it is cold.

However, most of the time, the switch-on will occur somewhere between B and A' or B' and A, with the result that no current will flow until A' or A. The lamp will then be subject to an extra warm-up period of A' to X' or A to X before commencing the first full halfcycle at zero volts.

Construction And Testing

Firstly, and most importantly, we must point out that this circuit deals with mains voltages and should be treated with all due



Fig. 1 (top) Switching waveforms for 'zero-crossing' switching.

Fig. 2 (above) diagram of the Lightsaver.

respect — we want to keep our readers. In particular, it should either be mounted in a plastic box using nylon screws or in an earthed metal box. The terminals specified are not designed to take a mechanical pull from the leads, so you must arrange for the cable or flex connecting to the unit to be firmly anchored by some other means.

With regard to assembling the PCB itself, note that the centre leads of the SCRs should be cut; the metal tab should be secured to the PCB using a metal screw (M3.5 or similar size) to complete the circuit, as the tabs are joined to the SCR anodes. If you use alternative SCRs to the type specified, check the pin-out.

HOW IT WORKS

Up to about 80V, R1 and R2 cause there to be less than 0.4V between the base and emitter of Q1. This is too small to switch the transistor on, so the current flowing through R3 is directed to SCR1.

Above 80V or so, Q1 conducts and the gate of the thyristor is held low. This prevents it from switching on; if the lamp switch is flicked on at this moment, the circuit will wait for the mains voltage to fall again before switching the SCR on.

It was considered that the easiest way of maintaining operation during the negative half-cycle was to duplicate the circuit the other way round; hence R4-6, Q2 and SCR2.

R1 and R2 must be selected so that the voltage across R2 never exceeds the maximum VEBO of the transistor, and the value of R3 must be sufficiently high for it to be able to cope with the power it will dissipate when Q1 is conducting and the resistor is effectively clamped across the mains.

PROJECT : Lightsaver

RESISTORS

R1,4

R2,5

R3,6

PARTS LIST.

220k,½W

470k,1/2W

ETI

1k0,14W



If you want to check the action of the lightsaver, then you can use the circuit shown in Fig. 4, in which a dimmer is used to pick out those sections of the waveform in which the Lightsaver should be operating. The bulb attached to the Lightsaver should be on for very low and very high settings of the dimmer and should have approximately the same brightness as the other bulb (if the two wattages are the same).

Some flickering in the transition regions between on and off as the dimmer is varied is normal, and is due to (inevitable) discrepancies in the turn-on point for the two polarities of the mains waveform. With some dimmers the bulb controlled by the Lightsaver may not come on for one of either the low or high settings (possibly even both), and this will probably be due to a rather limited range of phase-angle being available from the dimmer.

AE

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Fig. 4 Method of verifying circuit action.







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November 81

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May 82

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July 82

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OOPS!

We have in the past published small corrections to projects on the letters page, and major corrections separately. From now on corrections will appear on this page, and will be repeated for several months (just to increase our embarrassment). If a correction is too large to fit on here, we will publish it just once, but will note the fact that a correction does exist, and that copies of it can be obtained from us provided you send in an SAE. But please - request copies only if you really do need them; if this service is abused, we may be forced to withdraw it.

Programmable Power Supply (January 1983)

Lascar Electronics have now moved to Module House, White Parish, Salisbury, Wiltshire SP5 2SJ.

Flash Sequencer (July '83) Q1 should be BC184L; Q2-5 should be BC182L.

Telescope (August 1983)

We had a shower of annotation falling off our diagrams! On Fig. 1, C19 (below IC14) was not labelled nor was Q2 (above R11), and there were two C23s — one should be IC22 and it doesn't matter which. In Fig. 5, IC12 was not labelled. Unfortunately, there was a mistake in the correction (blush!): C14 is the 22s tant on the $\leq 5/4$ line. 22μ tant on the -5 V line.

Graphic Equaliser (August 1983)

D2 and D3 are shown the wrong way round in the power supply circuit diagram on page

Universal EPROM Programmer (August 1983)

Quite a few sillies here! On the circuit diagram (page 46), C6 is 100u and C9 is 100n, not the other way round as given. Some bars were omitted from note three of Some bars were omitted from note three of Table 1 on page 48: it should have read "CE/PGM (27 series) is equivalent to PD/PGM) (25 series)." The penultimate sentence of the first paragraph on page 50 should read "……adjust RV1 for a potential of +25 V at *IC10* output." On the overlay, IC7 is between SK2 and SK1, IC6 is between SK1 and C10, IC11 is between R7 and R10, R3 is between R2 and Q2, and Q7 is between IC7 and SK1, and the unidentified pins at the right hand end of SK3 are the pins at the right hand end of SK3 are the + 5V line. Finally, C10 appears twice in the parts list but only the first entry is correct, and the second DIL socket should, of course, be 8, not 80, way.

Z80 Controller Computer (August 1983) On the overlay, SW1 is the rectangle beside ICs 5 and 6, C6 should be shown between ICs 3 and 7, and a link through has been missed — to the right of pin 18, IC11.

Typewriter Interface (October 1983) There are two errors in Table 1 on page 24: location 3C should contain E7 and location 3F should contain 5F

Car Alarm (October 1983)

In the semiconductors section of the parts list, Q1, 2, 5, and 7 should be BC212L, Q3 should be BC182L, and Q4, 6 should be TIP31 or BD131. There was also another (inconsequential) silly but we bet you've already spotted that one!

Tech Tips (October 1983)

Ramped Pulse Generator For Stepper Motors – pin 1 of IC2 should be grounded, the Ramp Up and Ramp Down inputs accept negative, not positive, going pulses and IC7 should be a 4011 rather than a 4001.
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PCB FOIL PATTERNS



The Lightsaver

16 Channel A to D Board

Note that we have reproduced here only the underside pattern of the double sided board. The upper side pattern consists only of links, and it should be possible to produce this from reference to the overlay diagram, Fig. 3 on page 21. At a pinch, you could even use fine wire links as shown in the picture of our prototype on the cover. Just to keep everyone happy though, we will try and find space for the other foil pattern in a future issue.





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ADVERTISERS INDEX

Ambit International1	2
Audio Electronics	3
Bicc Vero	3
Bimsales	5
B K Electronics	6
Black Star	5
B.N.R&E.S	4
Bradley Marshall	8
Cambridge Kits	8
Comtech Electronics1	6
Concept Electronics	8
Cricklewood Electronics	7
Crimson Elektrik	Ο
Crofton Electronics7	0
Display Electronics	8
Electronize Design7	1
Electrovalue	8
Flight Electronics	5
Glanmire	0
Greenbank	3
Greenweld	3
G.S.C	.9
Happy Memories	8
ICS	8
ILP	6
Kelan Engineering	3
L B Electronics	2
Magenta Electronics	5
MaplinOB	С
Mawson Assocs	8
Microtanic	:6
Midwich	8
MJL Systems	2
Pantechnic	8
Parndon Electronics4	8
Positronics	.9
PowertranIFC,10,IB	C
Rapid Electronics	.7
Riscomp	3
R.T.V.C	.9
Sparkrite	'5
Spectre	0
Stewarts of Reading5	52
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