PA48-40-1TS Data Sheet
48 pin TSOP socket/40 pin DIP 0.6" plug

Supported Device/Footprints

The PA48-40-1TS adapter converts the pinout of Intel E28F200CV/400CV flash memories in 48 pin TSOP packages to a 40 pin DIP footprint for use on several programmers.

	Socket		Footprint	
Manufacturer	Device	Package	Device	Plug
Intel	E28F200CR/ V	TSOP	E28F200CR/ V	40DIP
"	E28F400CR/ V	"	E28F400CR/ V	"
"	E28F800CR/ V	"	E28F800CR/ V	"

The adapter is an alternative for the following part numbers:

ET:	AS-48-40-01TS-6WEL-S
CIC:	CIC-48TS-40D-A6-WEL-S

The adapter is intended for use with the following programmers:

Advin Systems:	Pilot-L84/10, 14S/4
BP Microsystems:	BP1148
DATA I/O:	Chiplab 48 Unisite(Sersite)
Emulation Technology:	ET-PIC 4000/48
Logical Devices:	Allpro-40, Chipmaster3000, Gangpro-513
SMS:	Sprint Plus48/Optima/Expert/MultiSync
Stag:	Quasar-1040/1084
System General:	Multi-Apro, Apro Turpro-F-1FX/840

The adapter accepts packages with the dimensions listed below:
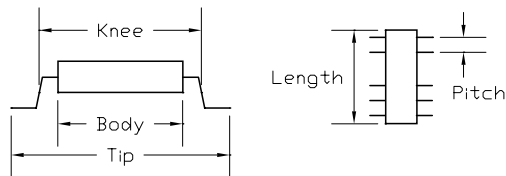
Body	Knee	Tip	Pitch	Length
18.4 mm typ	18.8 mm	20.0 mm	0.50 mm	12.0 mm typ

Adapter Dimensions
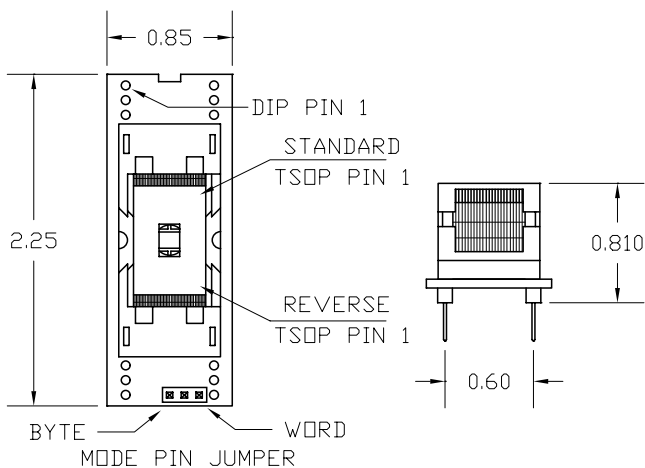
Adapter Construction

The adapter is made up of 2 sub-assemblies. They assemble via connectors making the adapter modular. This way the sub-assemblies can be replaced when they wear out.

When disassembling the adapter take care not to bend the pins. When reassembling the adapter note the pin 1 indicators to align the parts correctly.

Test Socket & Adapter Shim
TSOP Auto-eject Test Socket:
    Wells Part #: 648-0482211-A01   LSC Part #: 48TSJ-W20
Removable Adapter Shim:
    Wells Part #: 648-48-01   LSC Part #: 48TS20-S

48TS40-1
Accepts the socket and remaps the pins to the DIP plug.

Adapter Wiring

The following chart shows the connections from the TSOP device to the adapter's DIP plug.

TSOP	SIGNAL	DIP	DIP	SIGNAL	TSOP
1	A15	37	38	A16	48
2	A14	36	JMP***	-BYTE	47
3	A13	35	30*	VSS	46
4	A12	34	3	DQ15/A1	45
5	A11	33	12	DQ7	44
6	A10	32	4	DQ14	43
7	A9	31	13	DQ6	42
8	A8	29	5	DQ13	41
9	NC	-	14	DQ5	40
10	NC	-	6	DQ12	39
11	-WE	39	15	DQ4	38
12	-RP	1	40**	VCC	37
13	VPP	1	7	DQ11	36
14	-WP	40**	16	DQ3	35
15	NC	-	8	DQ10	34
16	NC/A18	-	17	DQ2	33
17	NC/A17	2	9	DQ9	32
18	A7	28	18	DQ1	31
19	A6	27	10	DQ8	30
20	A5	26	19	DQ0	29
21	A4	25	20	-OE	28
22	A3	24	11*	VSS	27
23	A2	23	11*	-CE	26
24	A1	22	21	A0	25

* GND Plane
** VCC Plane
*** JUMPER Can be tied to either plane (see drawing).
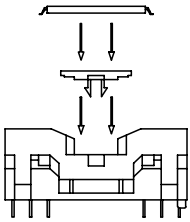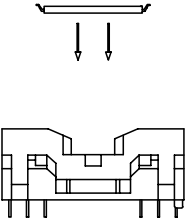
Using Live/Dead-Bug Adapter

Which To Use:
Standard and reverse pinout devices are supported by this adapter. Standard pinout devices are inserted live bug and Reverse pinout devices are inserted dead bug.

The socket on this adapter accomodates both orientations using a removable shim. The following chart shows how to set up and use the adapter for each.

Note: Pin 1 of the TSOP is in the upper right corner of the adapter for standard pinouts, in the lower right corner for reverse pinouts (see the Adapter Dimensions section).

Pinout:	Sandard	Reverse
Insert Device:	Live Bug	Dead Bug
Shim:	Installed	Removed

Package Codes:
Standard and Reverse packaging for these AMD products is denoted in the following manner:
    Am40-1x00x-xxExx for Standard pinout
    Am40-1x00x-xxFxx for Reverse pinout

How To Insert the Shim:
Depress the rim of the socket to the open position. Insert shim with the clips downward, and push the clips through the hole in the socket. Push the shim as far down as it will go. When seated properly, the shim is entirely below the rim of the closed socket.

How To Remove the Shim:
Depress the rim of the socket so that it is open, and the notch in the side of the shim is visible (see picture below). Insert a small-bladed screwdriver (or other small tool) into the notch, and pry the shim out. This should be possible with a minimum of force.

Shim
Notch
Socket rim fully depressed