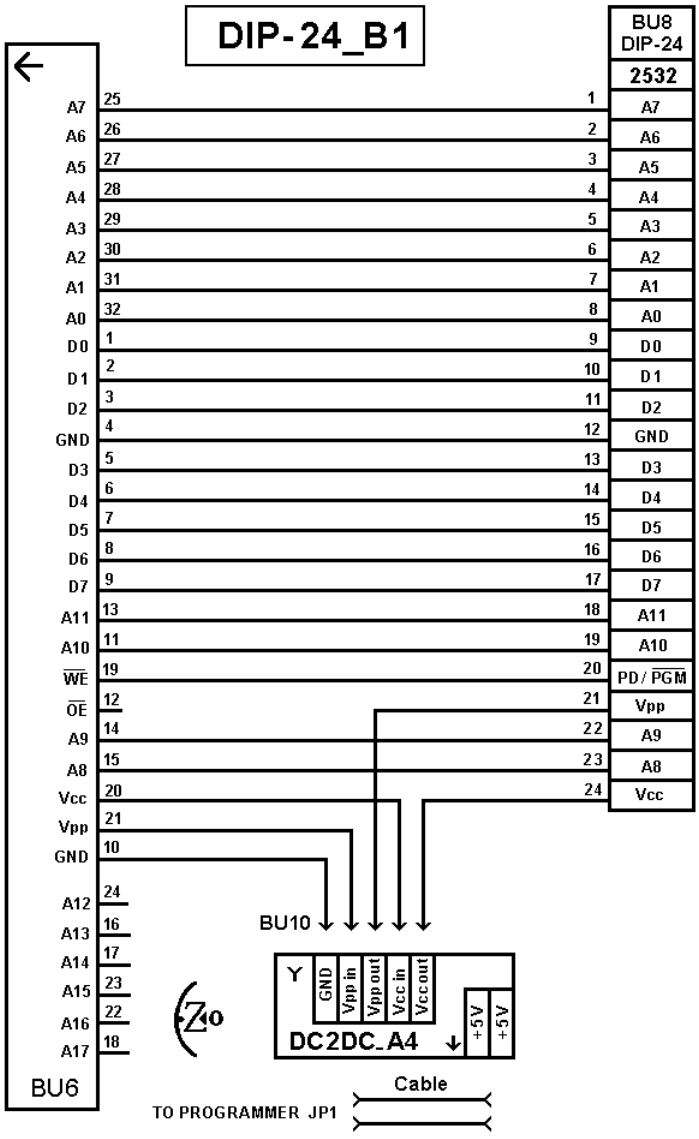
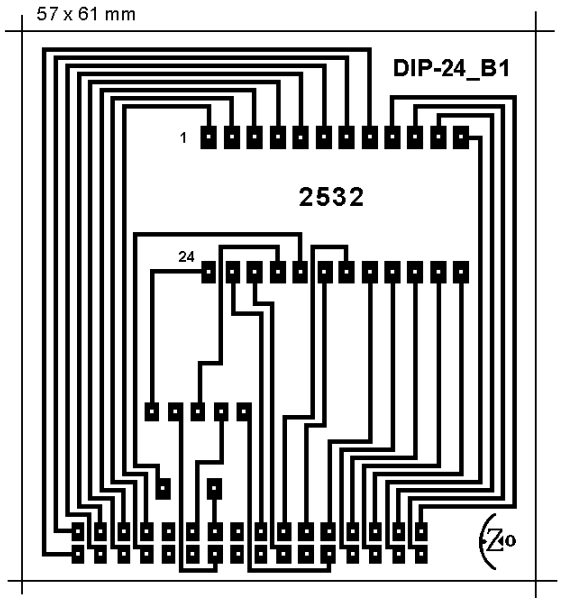
Adapter DIP-24_B1
EzoFlash+ adapter for 8 bit 32k EPROM 2532 in DIP-24W package.

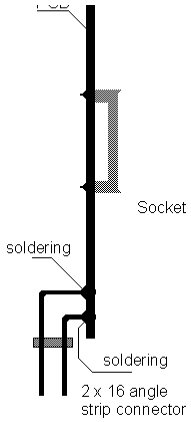
1. Part list.

BU6 – Dual angle pin-header 2x16, division 2.54
BU8 – IC Socket DIL-24
BU10 – Straight pin-header 1x5, division 2.54 / DC2DC_A4 adapter

2. Schematic, PCB and pictures







3. Settings, verified chip list and info.

Willem programmer software version 0.97ja.
Selected device EPROM > 27xxx > 2732, change default twp from 1.2ms to 10ms

Programmer jumpers - W/Jp1- wire cable to dc2dc_a4, Jp3 (+5V), Jp4 (Vpp)
dc2dc_a4 jumpers - JpS (Vcc from programmer, +5.0), JpT (Vpp=4.3V , read)
Adjust R5 - Vpp=25.8V (2532), Vpp=21.5V (2532A)

Supported chips :
Texas Instruments TMS2532, TMS2532A, **Hitachi** HN462532, **NTE** NTE2532, NTE 2532A
Motorola MCM2532.
Chips have different pinout from generic 2732: pin18 - A11, pin20 - PD/PGM#, pin 21 - Vpp.
Verified chips are underlined. Details find in chip_test.xls file

How to adjust Vpp ?
Install dc2dc_a4 and eprom adapter without target chip on ezoflash+.
Connect power supply, PC and run SW. Adjust Vpp on LM317- IN with R5

Programmer power supply schould provide 500mA current. Not recomended voltage more than +15V, regulator 7805 power dissipation is up to 4W and it will get more hot. More twp, more programming time and summary heat.

Only erased EPROM can be programmed. Initially, and after each erasure, all bits of the EPROM are in the logic high state. Run SW command Blank check to assure all bytes are 0xFF. Logic lows are programmed into desired locations. Repeat programming (check voltage, increase twp) on logic low programming failure.
Programmed logic low can be erased only by ultraviolet light (UV lamp , wavelenght 2537 Angstroms, intensity 12mW/cm2, chip window 1..2cm from UV source, exposure time 12…20 minutes)

Report problems and share your experience on Willem and EZoFlash forums.