512 kB RAM for the Panasonic FS-A1ST MSX Turbo-R

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⚠️ **Warning:**

The most important part in the computer is the printed circuit board (PCB). Parts can be replaced, but not the PCB. Do not try to unsolder the parts, but cut them loose and then remove the solder pins. The use of IC sockets is recommended.

Panasonic FS-A1ST MSX Turbo-R computer.

Requisites:

- 44C256 (2 pieces memory chips)
- SMD-capacitor 100 nF (2 pieces)
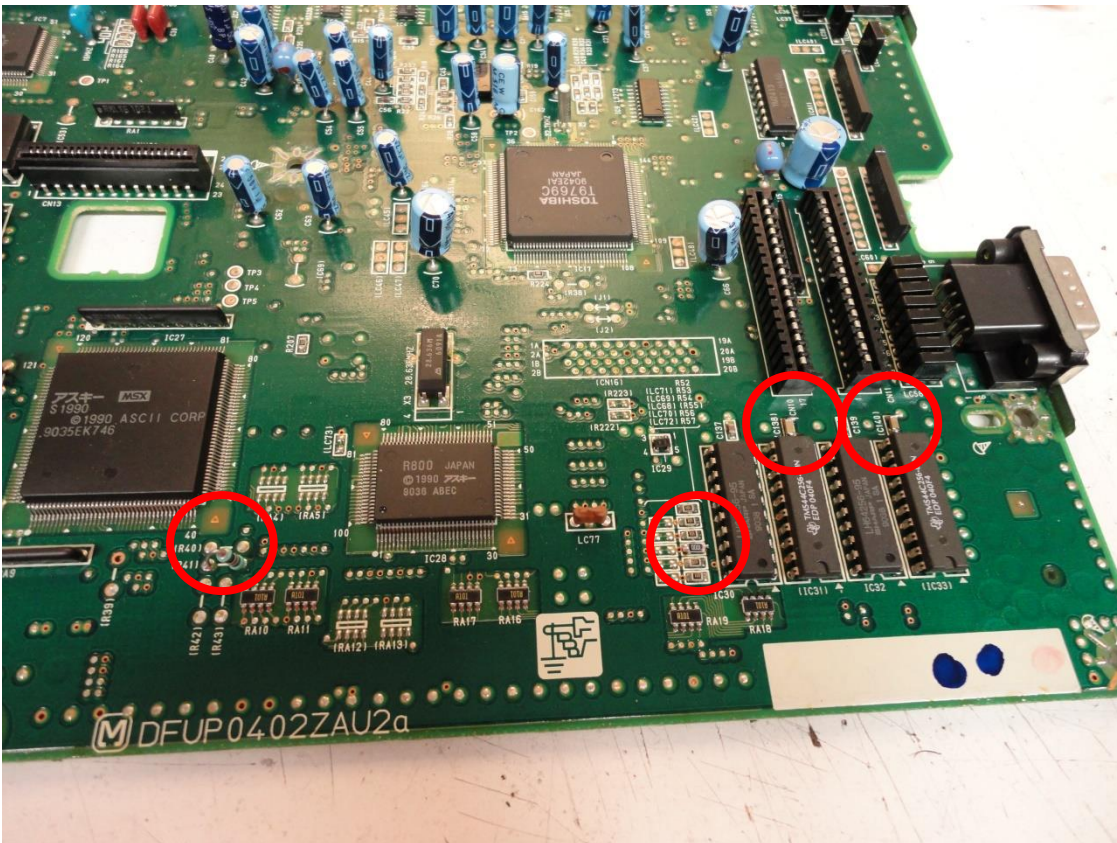- SMD-resistor 100 Ω (2 pieces)
- Resistor 10 KΩ
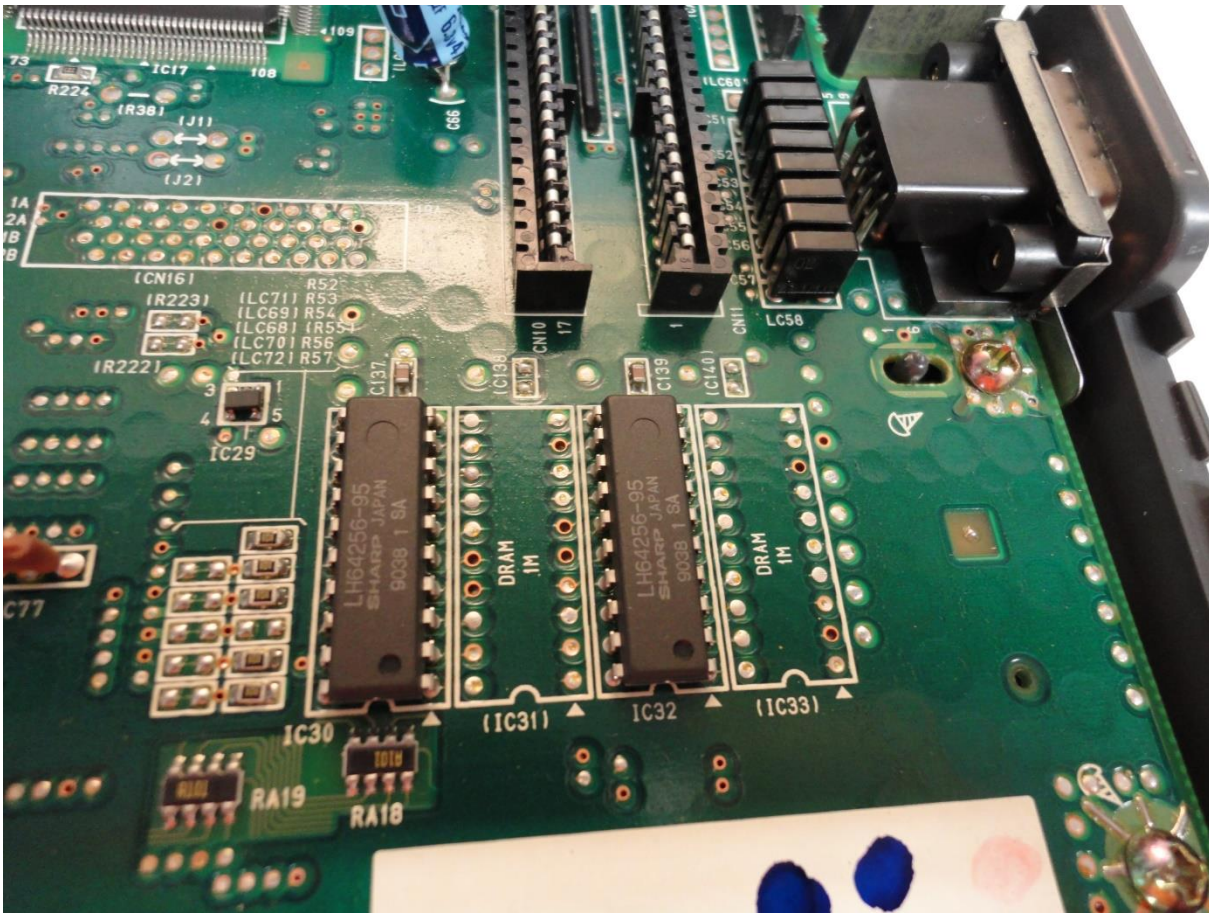
256 kB RAM memory.

Installation:

- Take the main PCB out of the case.
- Remove the solder to open the pin holes of IC31 and IC32.
- Place a 44C256 in the empty place of IC31.
- Place a 44C256 in the empty place of IC33.
- Place an SMD-capacitor of 100 nF in the empty place of C138.
- Place an SMD-capacitor of 100 nF in the empty place of C140.
- Place an SMD-resistor of 100 Ω in the empty place of R55.
- Place a resistor of 10 KΩ in the empty place of R41.
- Place an SMD-resistor of 100 Ω in the empty place of R229. This can be found at the bottom side of the main PCB.

Solder removal.

The memory has been added and C138 and C140 are being placed.
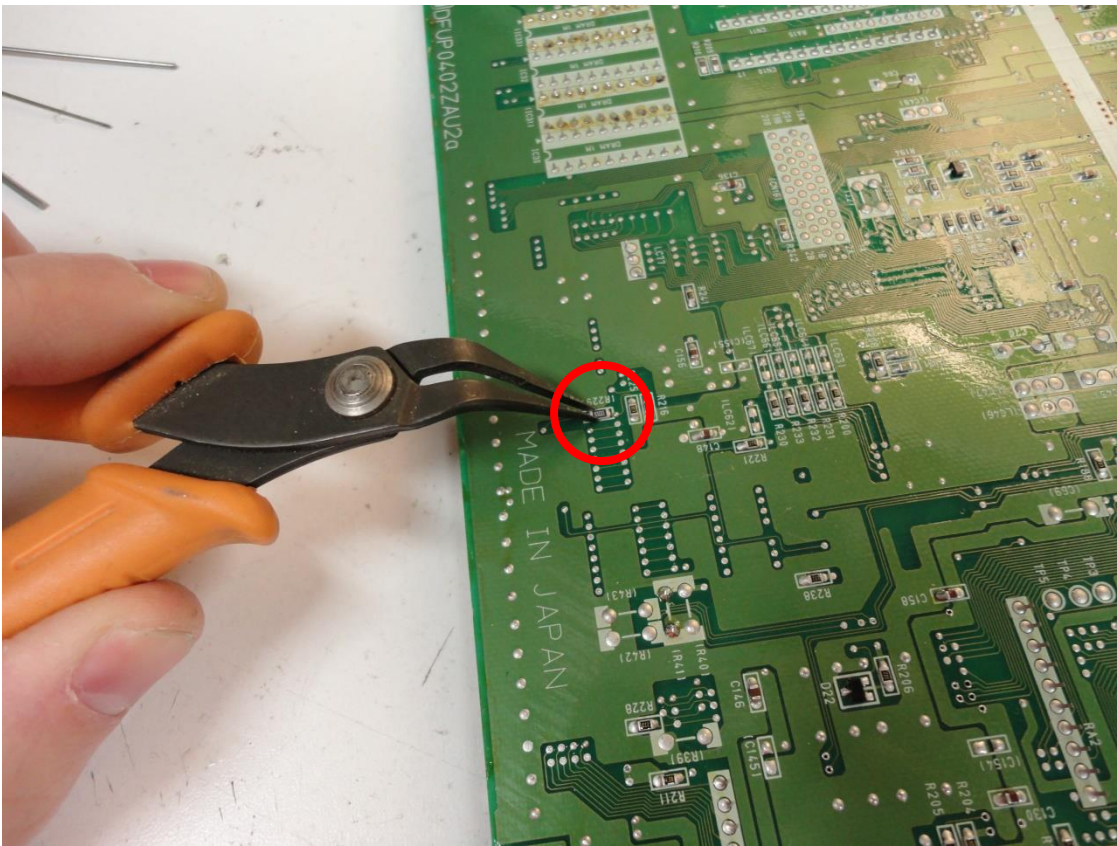
Adding R229 (PCB bottom side).

All parts are in place and 512 kB RAM is present.

When everything is properly soldered, the startup screen will show a message that 512 kB of RAM is present.