

## Repairing a Philips SBC 3810 mouse using a new joystick cable

(Also applies to Panasonic FS-JM1 & Sony MOS-1)

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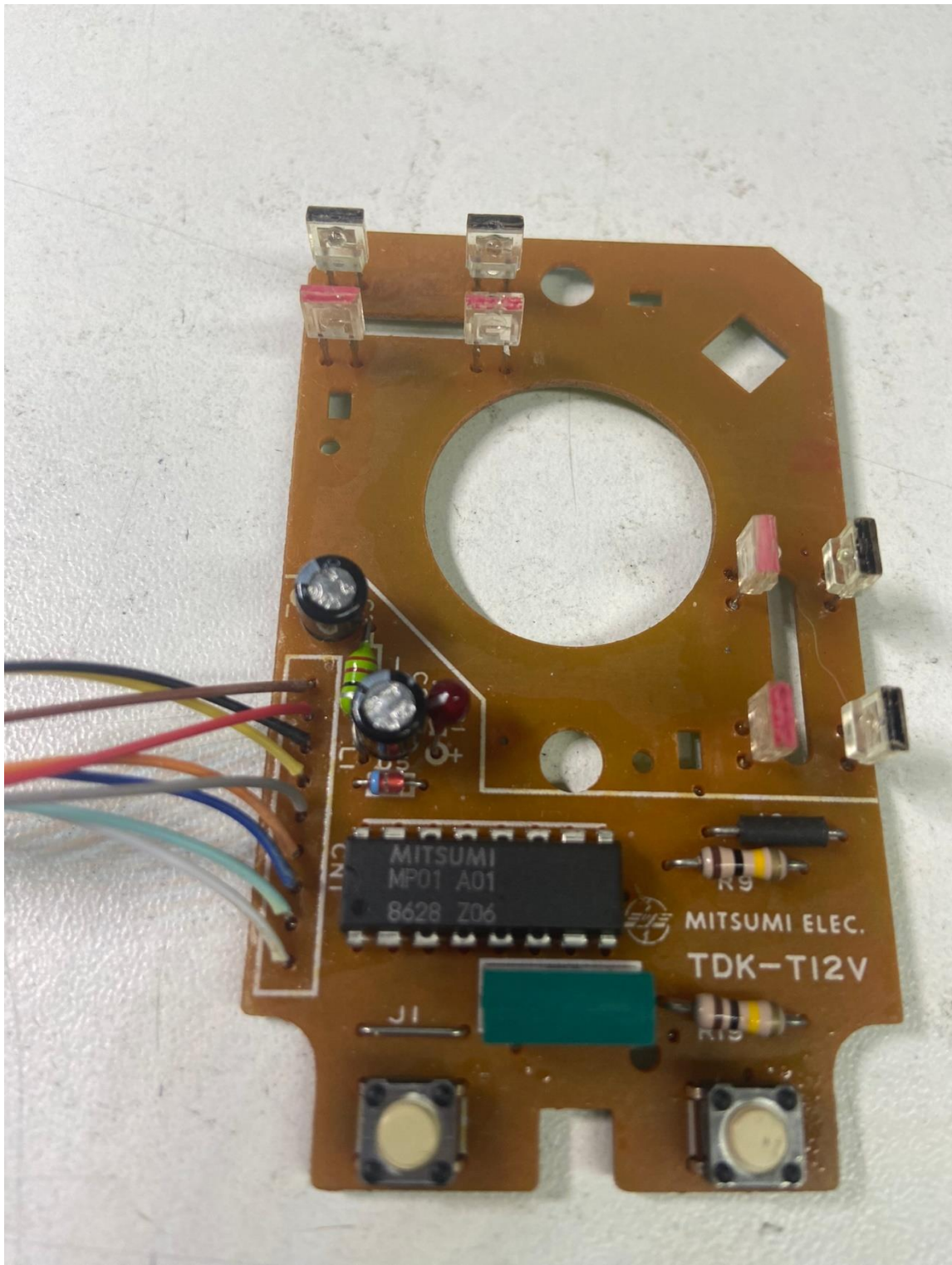


Sony MOS-1, Philips SBC 3810, Panasonic FS-JM1.

It often happens that the mouse no longer works. In most cases, cleaning the guide wheels is the solution. Cable breaks also occur regularly, but the original cables are no longer available. Instead of an original cable you can also use a 9 wire joystick cable. You can easily buy cables on a website such as AliExpress or Ebay. These are sold as Sega Joypad cables. The new cable is not provided with the right connector, but it can simply be soldered to the empty spot of the connector.

- Unscrew the mouse.
- The cable can be easily detached, because it is connected with a connector.
- Remove the PCB.
- Remove the connector.
- Solder the wires of the new cable to the places where the pins of the connector used to be. Solder them according to the diagram below. The brown wire of the Sega cable is pin 1 (+5V DC).
- Adjust the case, if necessary.

SUB-D	Original cable wire color	Internal pin	Function	Sega wire color
1	Brown	2	Up	Red
2	Red	3	Down	Black
3	Orange	5	Left	Gray
4	Yellow	6	Right	Orange
5	Green	1	5V DC	Brown
6	Blue	8	Button 1	Green
7	Gray	9	Button 2	White
8	White	7	Output	Blue
9	Black	4	Ground	Yellow



The new cable soldered to the top side of the PCB.



The new cable.



Adjusting the case for the new cable.