

Manual Test Fixture MA 2110 with tall housing and ATS 2110

The testing demand as per specification:

The UUT (Unit under Test) consists of a PC-Mainboard and three further PC-Boards which are connected to it with ribbon cables. An SMD micro switch, which is assembled on the upper side of the PC-Board, must be activated automatically. All four PC-Boards must be contacted at the same time. Three servomotors guide sensors towards three PC-Boards. The sensors must be approached very precisely. Three additional electronic circuitries must be assembled on the under side of the Probe Plate.

The realization:

The MA 2110 Test Fixture with a tall housing was chosen, so that the extensive additional electronic circuitries on the under side of the probe plate have sufficient space. The three PC-Boards are positioned via the contour and the PC-Mainboard in the middle via tooling pins. In addition, removal-troughs are milled into the spring-loaded Mounting Plate. Three round cut-outs in the Top Plate and the Probe Plate allow the swinging in of the sensors towards the PC-Board. The micro switch is activated by means of a lifting solenoid, which is assembled in the Pressure Frame Unit.

