Maintenance protocol vacuum fixture ATX Hardware



SERVICE PROTOCOL FOR MECHANICAL ATX FIXTURES

Please note that this protocol is only an aid for adapter maintenance, which should only be carried out by qualified personnel with appropriate knowledge. Possible warranty or guarantee claims are void in case of improper maintenance or maintenance work not performed by ATX employees.

We are happy to offer you individual training on adapter maintenance.

Customer:		_	
Contact:			
Service contact:		_	
Adapter-ID:		_	
Maintenance after:	Heavens	Date:	

1. the following components must be checked and repaired/replaced if necessary.

		o.k	n.o.k
1.1	Check spring contact pins for damage and contamination.		
1.2	Spring contact pins must be centered in relation to the hole in the moving plate.		
1.3	Check diameter of guide pins and check whether they are bent		
1.4	The guide pins must be firmly seated		
1.5	The moving plate must not have any play in the guides		
1.6	Check hinges/ joints/ screw connections for tight fit		
1.7	Check PCB supports for presence, height and damage		
1.8	Check counterpressure springs in the vacuum chamber for tight fit and breakage		
1.9	Check seal for mechanical wear and tightness - clean if necessary		
	(not with alcohol) - Spare gasket available?		
1.10	Check adapter frame seal for mechanical wear and tightness		
1.11	Check adapter interface on contact side for cleanliness and wear		
1.12	Check adapter interface in adapter for damage and foreign bodies		
1.13	Check interface bearing on tester for excessive play		
1.14	Check needle head shapes and forces for correctness		
1.15	Check spacer plates in the vacuum chamber for "presence		

2. For fixtures with hold-down systems, vacuum hoods and adaptations on both sides, perform an additional check:

		o.k	n.o.k
2.1	Check sealing cord in vacuum hood for mechanical wear and tightness.		
2.2	Check hold-down finger for tight fit, deformation and height		
2.3	Check gas spring for tightness and retaining force/ securing device on ball head present	П	п
2.4	Check hinge for tight fit and function	-	-
2.5	Check transfer interface for contact reliability and damage		
2.6	Check guide pins and guide bushes of top contact for freedom from play		Ш

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3. For fixtures with open test, check additionally:			
		o.k	n.o.k
3.1	Check probes for mobility, position and damage (insulating layer present?)		
3.2	Check transfer interface for contact reliability and damage		
4. For	bi-level fixtures, check additionally:	o.k	nok
			n.o.k
4.1	Check smooth running of the grating		
4.2	Check spacers for presence and tight fit		
4.3	Check tight fit of eccentric and driving pin		
4.4	Observe needle lengths when replacing needles		
4.5	Check driver slot on the grating for wear		
5. In the case of fixtures with pneumatic components, perform an additional check:			
		o.k	n.o.k
5.1	Function/ tightness of the system		
5.2	Check wear of the drives		
5.3	Check positioning (starting units)		

6. Replacing the needles

No general recommendation can be made for the exchange of needles, since a wide variety of conditions (solder quality, needle sizes, needle strokes, vacuum fixtures, mechanical fixtures, etc.) can have serious effects.

Basically, two versions of dealing with this problem have developed:

		o.k	n.o.k
6.1	Fixed exchange intervals with individual stroke numbers - only for high-volume production.		
6.2	Replacement of individual needles that cause contact problems - only for low volume production		

Please enter the needle material used in the separate material list.

7. Cle	aning		
		o.k	n.o.k
7.1 CI	7.1 Cleaning the adapter. Do not clean the Plexiglas with aggressive agents (Never use methylated spirits!)		
8. fina	al test		
		o.k	n.o.k
8.1	Contact test with short-circuit plate (if available)		
8.2	Short circuit test with LP dummy (if available).		
8.3	The adapter is tested for contact on the tester with a test specimen from the series		
8.4	Perform hit pattern check with occlusion spray		
	dapter has been serviced according to the above points and is fully operational. The adapter requires the ing rework:		