Maintenance protocol Mechanical fixture



SERVICE PROTOCOL FOR MECHANICAL ATX FIXTURES

Please note that this protocol is only an aid to fixture maintenance, which should only be carried our by specialised personnel with the appropriate knowledge. Any guarantee or warranty claims will be invalidated if maintenance work is carried out incorrectly or not by ATX employees.

We are happy to offer you customised training on fixture maintenance.

Custom	er: Cont	act person:		
Service employee:		re identification:		
Maintenance after:strokes		Date:		
1. The fo	ollowing components must be checked and repaired/replaced if ne	cessary:	o.k	n.o.k
1.1	Check spring contact pins for damage and dirt			
1.2	Spring contact pins must be centred in relation to the hole in the	to the hole in the moving plate \Box		
1.3	Check that the needle head moulds and forces are correct \Box			
1.4	For transfers: Check the interface for cleanliness and wear $\hfill \Box$			
1.5	For exchangeable devices: Check the interface for damage and for	preign objects		
1.6	Check needle stroke with stroke measuring needles			
1.7	Check the bearing of the interface on the tester for excessive play	/		
1.8	Check the diameter of the guide pins and check whether they are spring-loaded catch pins	bent, especially check the play (wear) of		
1.9	The guide pins must be firmly seated			
1.10	The moving plate must not have any play in the guides			
1.11	Check the springs under the moving plate for wire breakage			
1.12	Check that the guide bolts and guide bushes of the top contact a	re free of play		
1.13	Check hinges/ joints/ screw connections for tight fit			
1.14	Check PCB supports and hold-down devices for presence, heigh	t and damage		
1.15	Check whether supports and hold-down devices match the curre	ent assembly (layout status, component size)		
1.16	Check that all screws are tight (especially on moving parts)			
1.17	Check the baffles on the guides for wear			
1.18	Check ball bearings for smooth running or damage			
1.19	Check the position and lateral play of the pressure bonnet (possi	bly with ATX set-up template)		
1.20	For fixtures with bonnet locking: Check the function of the lifting	magnet or cylinder		
1.21	Check gas spring for tightness and holding force/locking device	on ball head present		
1.22	Test the latching stop or spring stop for proper function			
1.23	Check the function of the stroke counter (switching pin)			
1.24	Check any existing plug masks for wear			
1.25	If a needle guide is present, check it for wear or test whether all r	needles get through		
1.26	For replacement sets, check that the cassette locking mechanism on fully	n is free of play and that the cassette is pressed		

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2. For fi	xtures with safety package:	o.k	n.o.k
2.1	Check the function of the safety switch		
2.2	For safety switches with guard locking, check the guard locking function and check that it is not set to emergency release		
2.3	Check the earthing wiring		
3. For In-Line fixtures, also check depending on the type:			n.o.k
3.1	If necessary, check the stopper function or stopper plate for shortening		
3.2	If necessary, check the probes (are they still straight, do they spring, is the GRP insulating tape still present?		
3.3	If necessary, check the function of crash switches		
3.4	If necessary, check the spring-loaded belt hold-down devices (are the springs still OK)		
4. Repla	acing the needles:		
No gene	eral recommendation can be made for replacing the needles, as a wide variety of conditions (soldering quality,		
needle s	sizes, needle strokes, vacuum fixtures, mechanical adapters, etc.) can have a serious impact.		
Basically, two versions of dealing with this problem have developed:		o.k	n.o.k
4.1	Fixed replacement intervals with individual stroke numbers - only for high-volume production		
4.2	Replacement of individual needles that cause contact problems - only for small quantities		
Please e	enter the needle material used in a separate material list		
5. Cleaning:		o.k	n.o.k
5.1	Cleaning the fixture. Do not clean Plexiglas with aggressive agents (never use spirit!)		
6. Final	test:	o.k	n.o.k
6.1	Contact test with short-circuit plate (if available)		
6.2	Short-circuit test with LP dummy (if available)		
6.3	The fixture is tested for contact on the tester with a test specimen from the series		
6.4	Checking the hit pattern with occlusion spray		

The fixture has been serviced in accordance with the above points and is fully operational. The fixture requires the following reworking: