



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 probes for damage and dirt.	<input type="checkbox"/>	<input type="checkbox"/>
1.2 Spring contact probes must be centered on the hole in the moving plate	<input type="checkbox"/>	<input type="checkbox"/>
1.3 Check needle head shapes and forces for correctness	<input type="checkbox"/>	<input type="checkbox"/>
1.4 During transfers: Check interface for cleanliness and wear	<input type="checkbox"/>	<input type="checkbox"/>
1.5 For exchange units: Check the interface for damage and foreign bodies	<input type="checkbox"/>	<input type="checkbox"/>
1.6 Check needle stroke with stroke measuring needles	<input type="checkbox"/>	<input type="checkbox"/>
1.7 Check interface bearing on tester for excessive play	<input type="checkbox"/>	<input type="checkbox"/>
1.8 Check diameter of guide pins and check if they are bent, especially check the play (wear) of spring-loaded catch pins.	<input type="checkbox"/>	<input type="checkbox"/>
1.9 The guide pins must be firmly seated	<input type="checkbox"/>	<input type="checkbox"/>
1.10 The moving plate must not have any play in the guides	<input type="checkbox"/>	<input type="checkbox"/>
1.11 Check springs under the moving plate for wire breakage	<input type="checkbox"/>	<input type="checkbox"/>
1.12 Check guide pins and guide bushes of the top contact for freedom from play	<input type="checkbox"/>	<input type="checkbox"/>
1.13 Check hinges/ joints/ screw connections for tight fit	<input type="checkbox"/>	<input type="checkbox"/>
1.14 Check PCB supports and hold-downs for presence, height and damage	<input type="checkbox"/>	<input type="checkbox"/>
1.15 Check if supports and hold-downs fit to the current assembly (layout status, component size)	<input type="checkbox"/>	<input type="checkbox"/>
1.16 Check all screws for tightness (especially on moving parts)	<input type="checkbox"/>	<input type="checkbox"/>
1.17 Check the baffles on the guides for wear	<input type="checkbox"/>	<input type="checkbox"/>
1.18 Check ball bearings for smooth running or damage	<input type="checkbox"/>	<input type="checkbox"/>
1.19 Inspect the pressure hood (possibly with ATX setup template) for position or lateral play.	<input type="checkbox"/>	<input type="checkbox"/>
1.20 For fixtures with hood locking: check solenoid or cylinder for function	<input type="checkbox"/>	<input type="checkbox"/>
1.21 Check gas spring for tightness and retaining force/ safety catch on ball head present	<input type="checkbox"/>	<input type="checkbox"/>
1.22 Check detent adjuster or spring adjuster for proper function	<input type="checkbox"/>	<input type="checkbox"/>
1.23 Check stroke counter (switch pin) for function	<input type="checkbox"/>	<input type="checkbox"/>
1.24 Check plug masks for wear, if present	<input type="checkbox"/>	<input type="checkbox"/>
1.25 If a needle guide is present, check it for wear or test whether all needles get through	<input type="checkbox"/>	<input type="checkbox"/>
1.26 In the case of exchangeable sets, check whether the cassette lock is free of play and the cassette is fully inserted.	<input type="checkbox"/>	<input type="checkbox"/>

Maintenance protocol Mechanical fixtures

ATX Hardware



2. for fixtures with safety package:

	o.k	n.o.k
2.1 Check the function of the safety switch	<input type="checkbox"/>	<input type="checkbox"/>
2.2 In the case of safety switches with guard locking, check the guard locking function and make sure that it is not in the emergency unlocking position	<input type="checkbox"/>	<input type="checkbox"/>
2.3 Check ground wiring	<input type="checkbox"/>	<input type="checkbox"/>

3. in the case of inline fixtures, an additional check must be carried out depending on the type:

	o.k	n.o.k
3.1 If necessary, check the stopper function or stopper plate for shortcuts.	<input type="checkbox"/>	<input type="checkbox"/>
3.2 if necessary, check probes (are they still straight, do they spring, is the GRP insulation tape still in place present)	<input type="checkbox"/>	<input type="checkbox"/>
3.3 if necessary check the function of crash switches	<input type="checkbox"/>	<input type="checkbox"/>
3.4 if necessary, check the spring-loaded belt hold-downs (are the springs still OK)	<input type="checkbox"/>	<input type="checkbox"/>

4 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
4.1 Fixed exchange intervals with individual stroke numbers - only for high-volume production.	<input type="checkbox"/>	<input type="checkbox"/>
4.2 Replacement of individual needles which cause contact problems - only for low volume production	<input type="checkbox"/>	<input type="checkbox"/>

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

5 Cleaning

	o.k	n.o.k
5.1 Cleaning the adapter. Do not clean Plexiglas with aggressive agents (Never use methylated spirits!)	<input type="checkbox"/>	<input type="checkbox"/>

6. final test

	o.k	n.o.k
6.1 Contact test with short-circuit plate (if available)	<input type="checkbox"/>	<input type="checkbox"/>
6.2 Short circuit test with LP dummy (if available).	<input type="checkbox"/>	<input type="checkbox"/>
6.3 The adapter is tested for contact on the tester with a test specimen from the series	<input type="checkbox"/>	<input type="checkbox"/>
6.4 Perform hit pattern check with occlusion spray	<input type="checkbox"/>	<input type="checkbox"/>

The adapter has been serviced according to the above points and is fully operational. The adapter requires the following rework:
