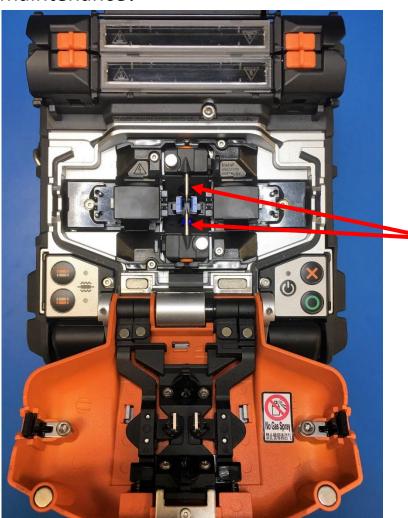


Practical Fusion Splicer Maintenance

Sumitomo Electric Europe Ltd

06/03/2019

What are some of the key components of a fusion splicer that require user maintenance?



Electrodes





What are some of the key components of a fusion splicer that require user maintenance?

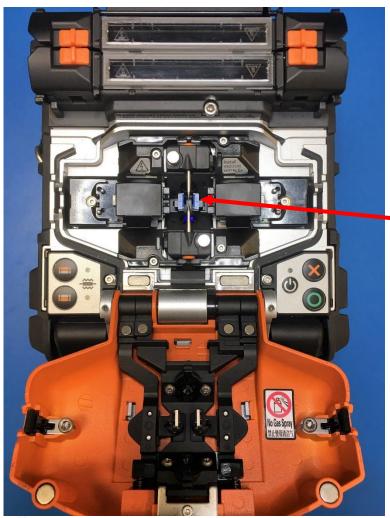


Microscope lens protectors

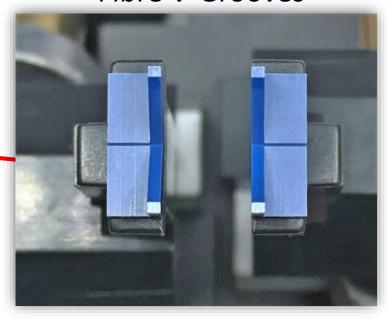




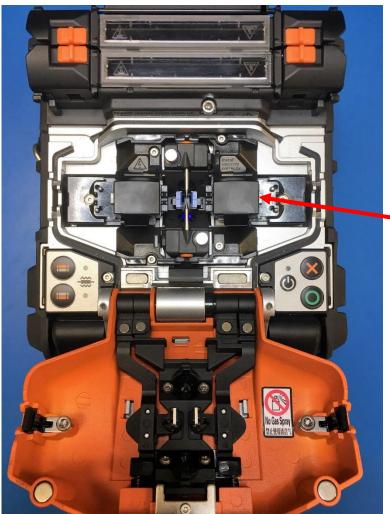
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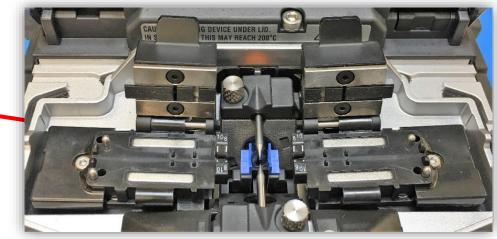
Fibre V-Grooves



What are some of the key components of a fusion splicer that require user maintenance?

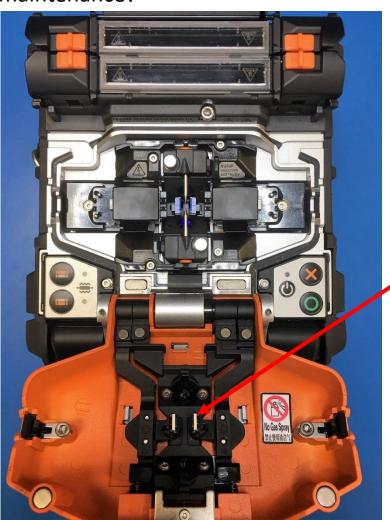


Coating Fibre Clamps

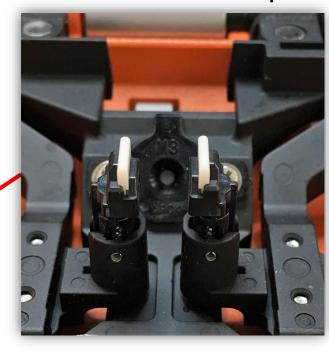




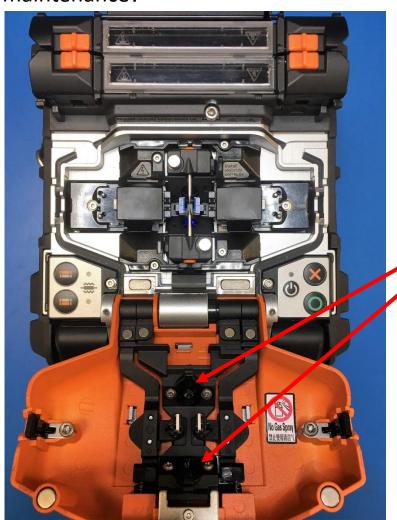
What are some of the key components of a fusion splicer that require user maintenance?



Bare Fibre Clamps



What are some of the key components of a fusion splicer that require user maintenance?









Why is routine maintenance good practice?

Electrodes

Appearance of one of the electrode tip from a new pair.

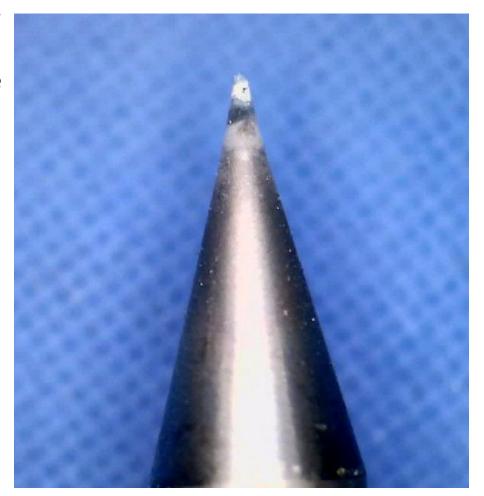




Why is routine maintenance good practice?

Electrodes

After ~ 1000 splices a layer of silica glass contamination can be seen around the electrode tips.



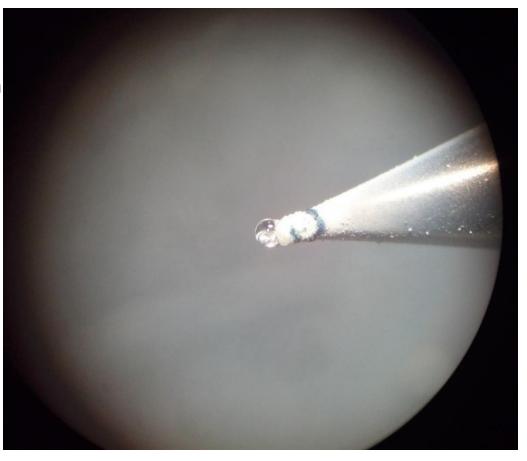


Why is routine maintenance good practice?

Electrodes

After several 1000 splices, the contamination around the tips will be heavy enough to cause the arc to be unstable.

At this point its time to replace the electrodes before splicing quality deteriorates.

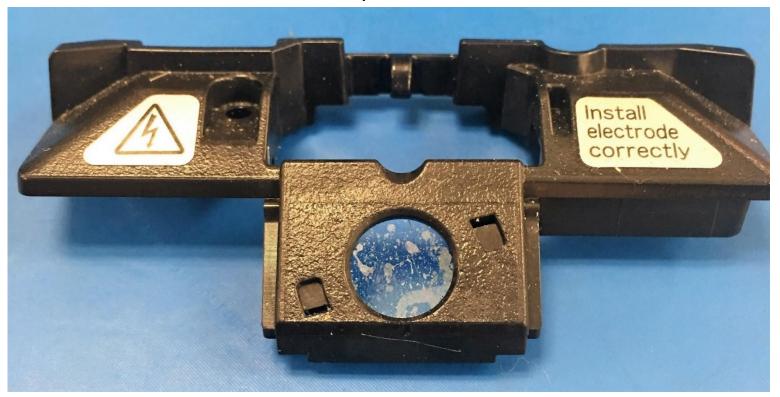




Why is routine maintenance good practice?

Microscope lens protectors

Lens protectors are just like wearing spectacles, if they are dirty its difficult for the splicer to see finer detail like the fibre core clearly.

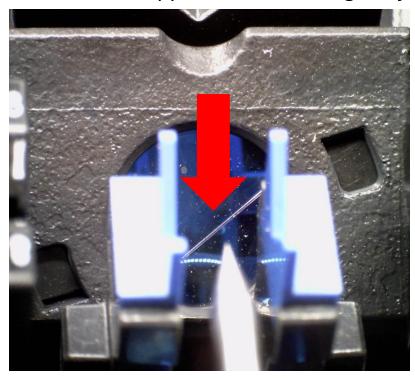




Why is routine maintenance good practice?

Microscope lens protectors

Watch what happens when a foreign object interferes with the splicers optics.





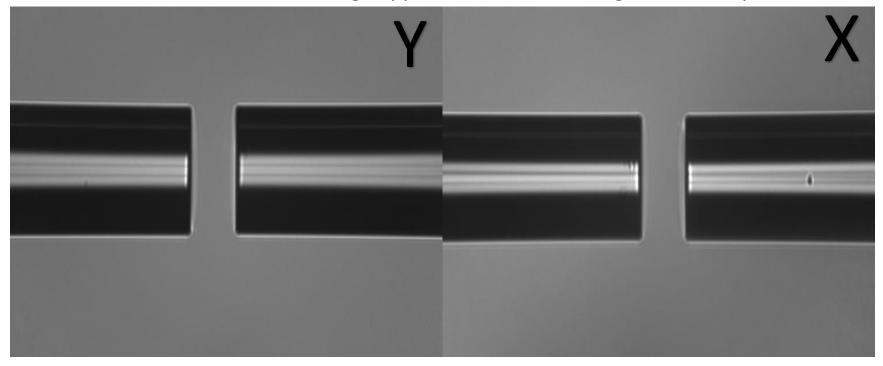


Why is routine maintenance good practice?

Microscope lens protectors

The splicer can't correctly recognise fibre type.

Look at how different the fibre image appears when something is in the way.



Remember this the same fibre, just viewed from two between directions X & Y.

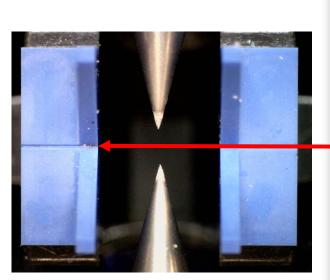


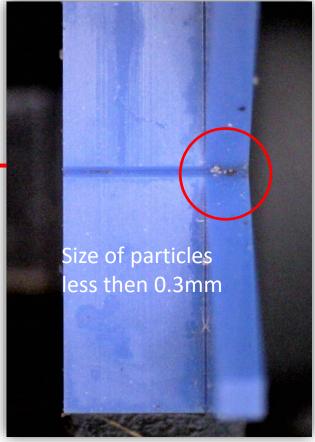
Why is routine maintenance good practice?

V-Grooves

Dirty v-grooves are bad for your splicer.

Watch what happens when some dirt partials build up in the v-groove.









Why is routine maintenance good practice?

Keeping your splicer clean

Remember a fusion splicer is a precision instrument that needs to be kept clean in order for it to function correctly..







Why is routine maintenance good practice?

Keeping your splicer clean

Keeping your splicer clean will result in less downtime.







Why is routine maintenance good practice?

Maintaining your splicer & cleaver

So let us show you how to maintain your splicer & cleaver the Sumitomo way!



