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Description:	Technical note for tilt head washer				

Project:	ELB1200	Document No.:	10_00099		
Project No.:	10_00099	Revision :	01	Version :	1
		Elinchrom No. :	280.413		

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1. The problem

After field tests, photographers told us that, on some tilt brackets, the friction made by the washer of the tilt head was not enough to keep in position the head with big accessories (ex: very deep softbox). The material of this washer was the Habasit S-10/15.



Fig.1: Washer in Habasit S-10/15


2. The solution

A new material has been selected for the washer (Habasit MAM-04 H). It looks similar to Habasit S-10/15 (composite build with rubber and fiber) but is totally black color. Two washers are necessary per tilt head.



Fig.2: Bracket Washer 280.413

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3. How to change the washers?

You will find below the process to follow to replace the old washer (Habasit S-10/15) by the new (Habasit MAM-04 H).



Fig.3: Step 1: Remove the handle.

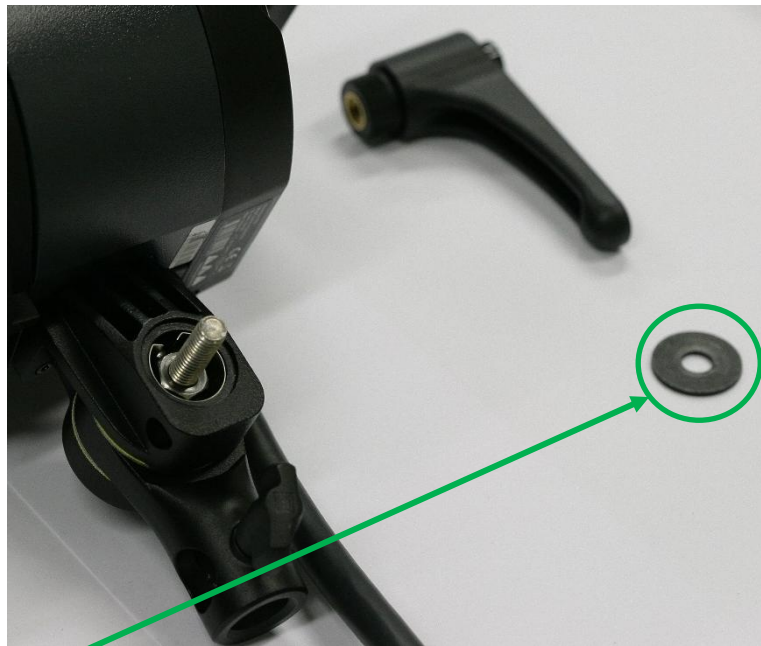



Fig.4: Step 2: Remove the washer BN732 - 8x25x1.8.

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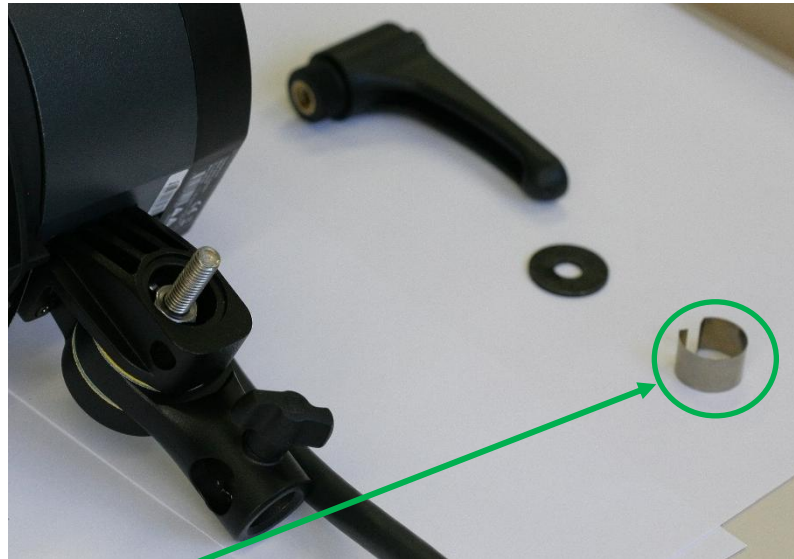


Fig.5: Step 3: Remove the leaf spring.

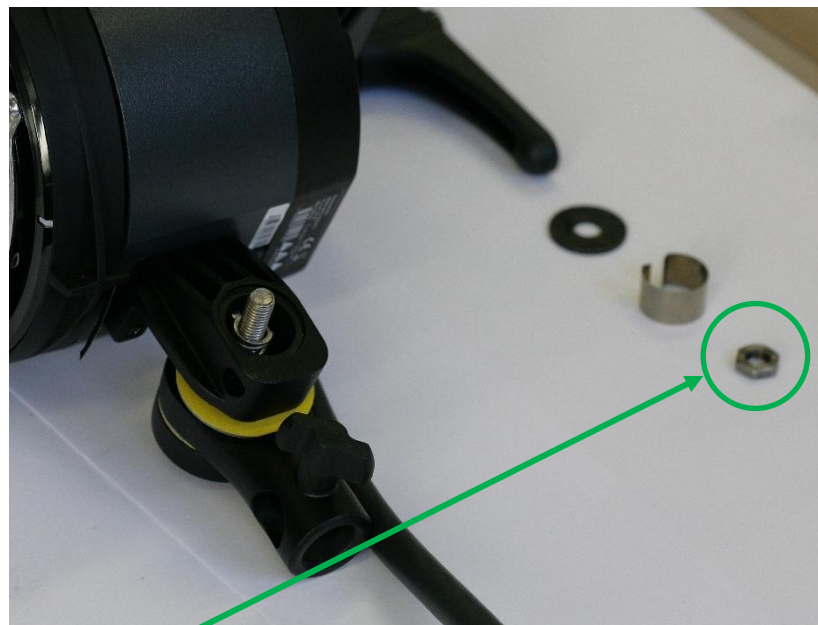



Fig.6: Step 4: Remove the nut BN123 M8.

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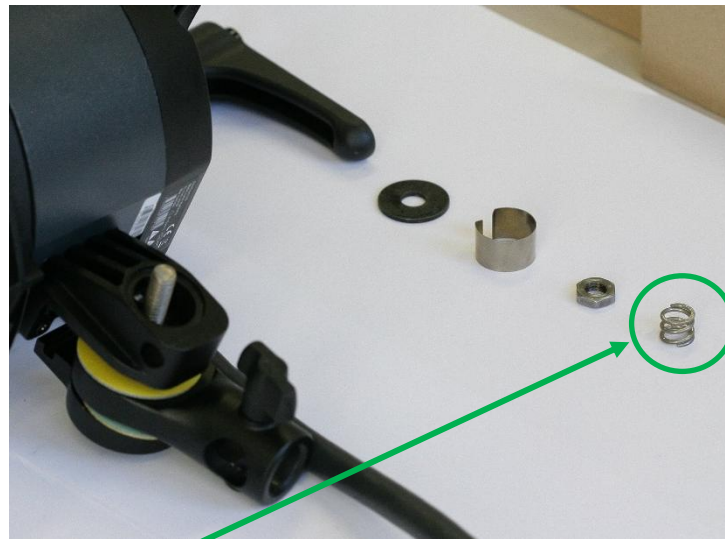


Fig.7: Step 5: Remove the spring.

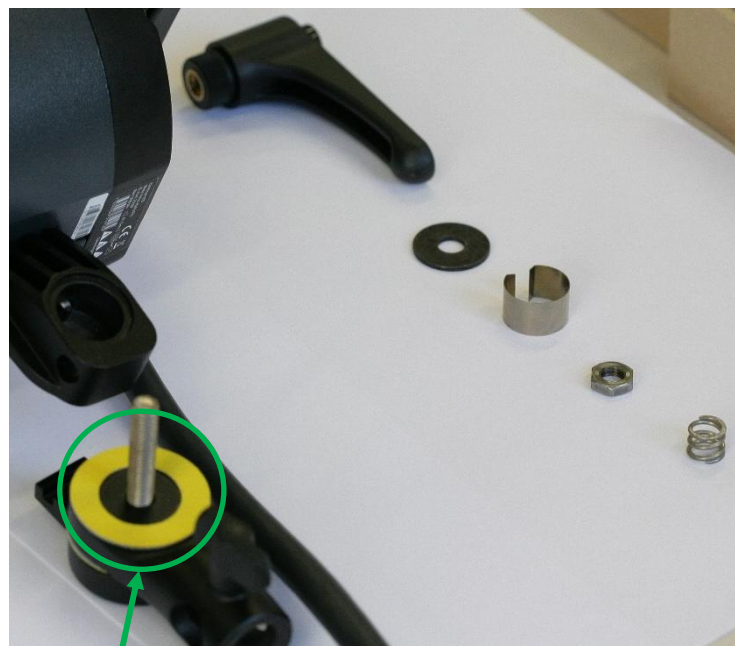



Fig.8: Step 6: Remove the older washers.

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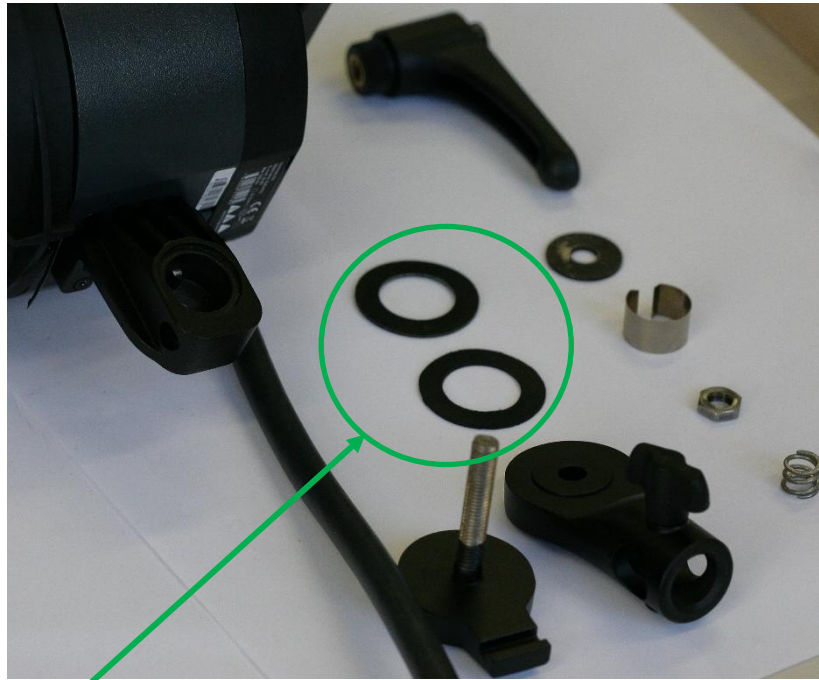


Fig.9: Step 7: Replace by the new friction Bracket Washer 280.413 (2x).

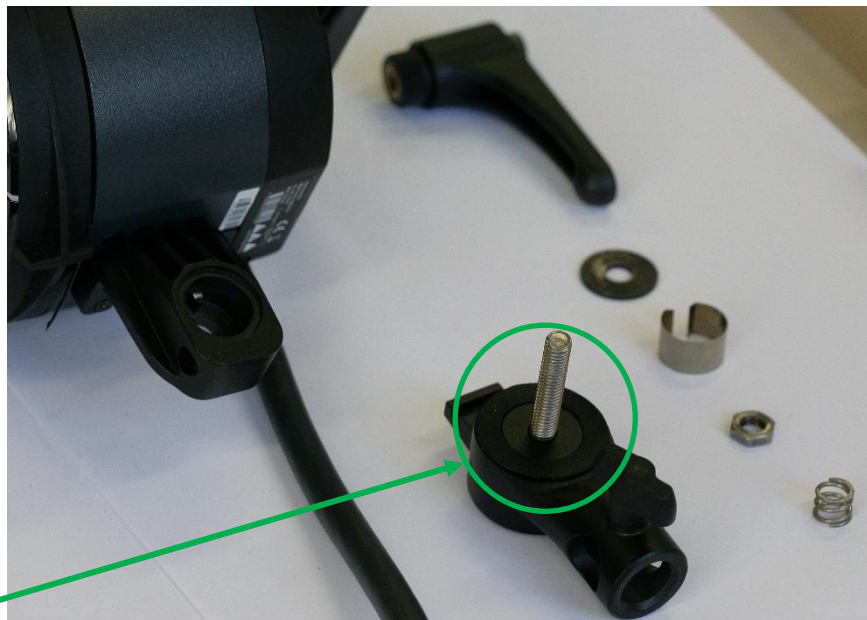


Fig.10: Step 8: The new friction washers mounted on the moving bracket and custom screw.

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Fig.11: Step 9: Assemble the “moving bracket”, the “custom screw” and the new washer with the “tilt base”.

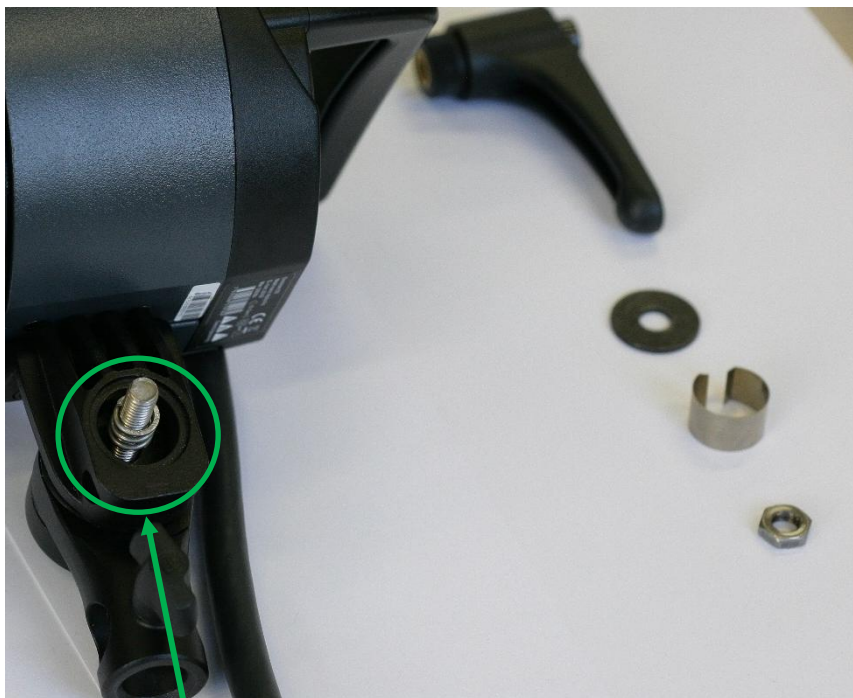



Fig.12: Step 10: Re-assemble the spring.

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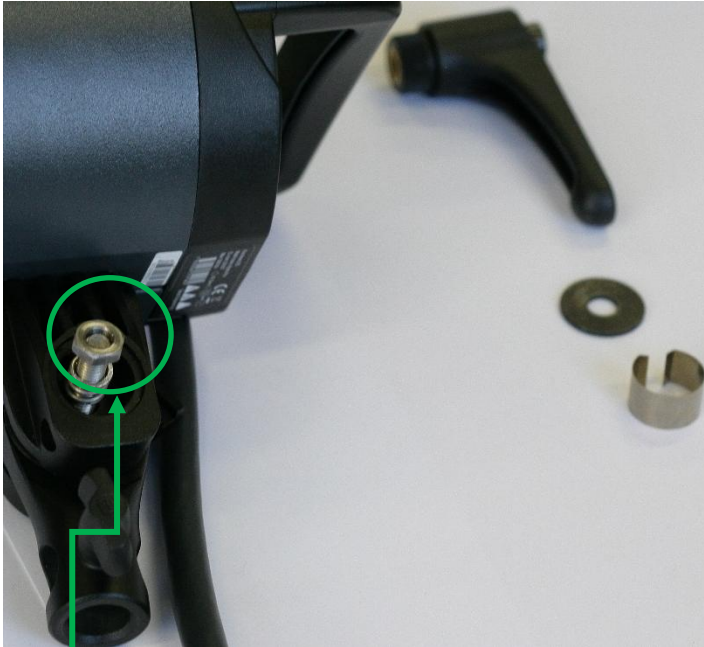


Fig.13: *Step 11: After adding Loctite 243 on the thread, Re-mount the nut BN123 M8 and tight up until you are against the step in aluminium.*

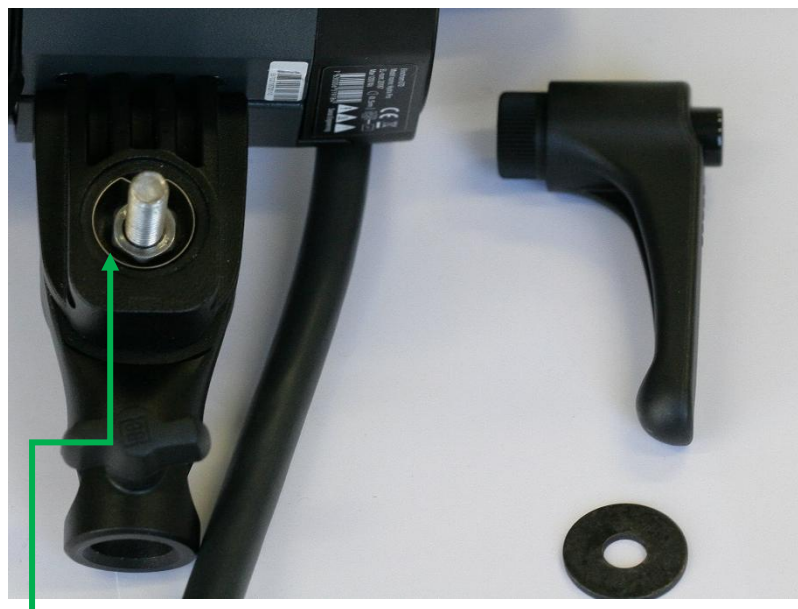



Fig.14: *Step 12: Add the leaf spring as in the picture above.*

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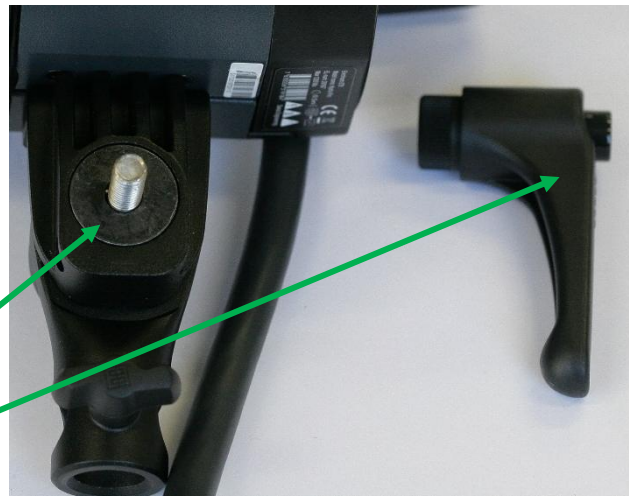


Fig.15: Step 13: Finish the assembly by adding the Washer BN732 - 8x25x1.8 and the handle.

4. Conclusion

The new washer will increase the torque of the tilt head by almost 50% and his behaviour in a wet environment is improved. Moreover, this washer is better in term of visual aspect.

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