

Bag full of wisdom when you are in trouble

No.131

[Question]



We are a company working in camera repair. A customer brought in a camera with a damaged shutter release screw. We believe that the screw can be restored by re-threading (cleaning up) the threads, but is there a tap available that can be used for this re-threading process?

(Answer)

We have RLS-HT: Hand Taps for Camera Release Threads. The internal threads are tapered, so when re-cutting the threads, take care not to further damage them. Below, we provide details of the camera release mounting screw and the specifications of the RLS-HT for your reference.



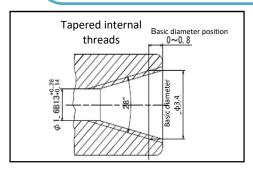
Hand Taps for Camera Release Threads RLS-HT

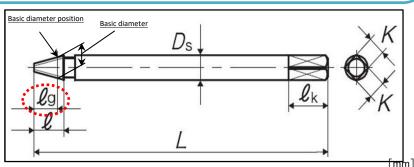
YAMAWA

[Explanation]



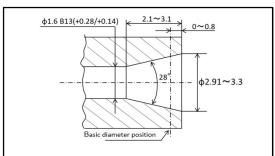
The camera release mounting screw (JIS B 7104) uses a 28° tapered thread. When cutting with a tap, the tool needs to be inserted up to the basic diameter position (ϕ 3.4). For the RLS-HT tap, this basic diameter position (ϕ 3.4) is set 4.15 mm from the tip of the tap. So during machining, make sure to insert the tap to that depth. Since the tolerance for the basic diameter position is 0–0.8 mm, adjusting the insertion depth to about 4.15–4.95 mm will ensure the finished thread meets the standard.

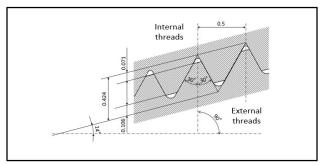




| Size | Chamfer | Basic diameter | L | Q | lg | Ds | K | lk | Number of flutes |
|-----------------|---------|----------------|----|------|------|----|---|----|------------------|
| 3.4 x 0.5 x 28° | - | 3.4 | 52 | 5.25 | 4.15 | 4 | 3 | 7 | 3 |

[Advice] Please refer to the figures below for the geometries of the bored hole and the threads profile.







In the camera release screw standard, there is also a parallel internal thread of M3.4 \times 0.5, for which the tap must be specially manufactured.