

LaserVenture Product Advisory – Crystallite Phaser

We have received a small number of reports recently advising us that the screws retaining the clamp assembly that holds the umbilical hose onto the rear of the **Crystallite Phaser** occasionally become loose.

The advice we have given up to now, which seems to work fine, is to apply a thread locking agent (Loctite for instance) to the thread of the two M4 x 20mm screws that hold the clamp in place. An alternative, which also works OK, is to steal a lady's nail varnish and use a drop or two of that!

I can now advise you that we have come up with another solution, which costs pennies to implement and also improves the appearance of the phaser:

- Obtain some M4 x 25mm (not 20mm as in current use) pan head posidrive stainless steel screws
- Also obtain some M4 stainless steel **Dome** nuts
- Ideally, obtain a suitable size nut-spinner for the dome nuts
- Dealing with one screw at a time, remove each of the M4 x 20 clamp retaining screws and replace with a 25mm screw. The end of the 25mm screws should be allowed to protrude up to, but no more than, 5mm from the rivet bushes in the lower clamp plate.
- Fit and tighten the dome nuts in turn. This will lock the screw thread and prevent loosening.

It is **important** that the replacement screws are inserted by the correct amount, enough so that the thread protrudes far enough to accept the dome nut and **not so far that the dome nut 'bottoms out'**. Tightening the screws too far may **crush the umbilical hose**, restricting the data cable from flexing freely.

Future production will use this new fixing method. In the event that you have difficulty in obtaining the screws and/or dome nuts, these can be obtained from us – simply ask us!

Final note – we still recommend that a thread locking compound be applied to the end of the single clamp retaining screw.