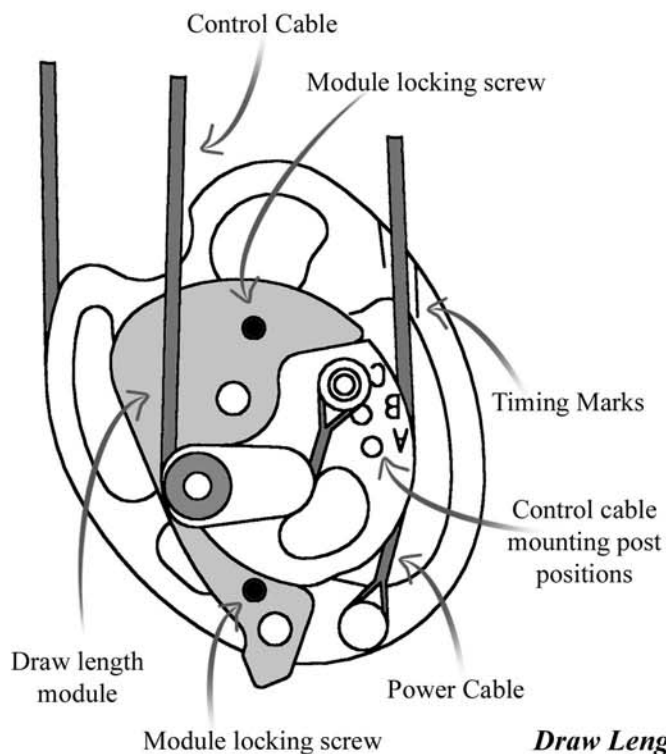


Omega Hybrid Cam Operating Instructions

Thank you for purchasing a Merlin Bow. This information will guide you in the adjustment and tuning of your Omega Cams. Please read all the information carefully before attempting to shoot the bow. If you are any doubt, please contact an authorised Merlin dealer for additional advice, or feel free to contact us directly.

Important! Your Omega cam has been designed to be shot with a cable guard. Don't draw the bow with out the cable guard fitted and adjusted properly. Once the cable guard is attached to the bow, adjust the rake the minimum amount needed to give arrow clearance. Regularly check all screws are secure.



Omega Cam Overview.

The Omega cam is the latest development in cam technology. It combines the benefits of both the twin cam and single cam systems in one. The Omega cam has been designed to give draw length adjustments over a 3" range, in 1/2" increments via interchangeable modules. Each module is individually designed to give maximum performance and a consistent feel through the whole range, as well as maintaining straight knocking point travel in each setting.

Draw Length Adjustments.

There are 5 different modules available for adjusting the draw length. Each module changes the draw length by 1/2". Omega cam sizes No.1 and No.2 uses the same set of modules, while Omega Cam No.3 uses a different size. (See Below)

Omega Cam No.1 & No.2

- OM1 - Longest Draw
- OM2 - 1/2"
- OM3 - Middle Draw
- OM4 - 1/2"
- OM5 - Shortest Draw

Omega Cam No.3

- XM1 - Longest Draw
- XM2 - 1/2"
- XM3 - Middle Draw
- XM4 - 1/2"
- XM5 - Shortest Draw

To change the draw length, a suitable bow press will be needed to relax the tension on the strings and cables. If you are in any doubt about the safe operation of a bow press do not attempt to use one. Consult your authorised Merlin dealer. Misuse of a bow press could damage your bow and cause injury to yourself. (We recommend Apple Archery bow Presses) Damage caused to the bow while using a bow press will not be covered under warranty.

Step 1: Remove the 2 module locking screws completely. If the module locking screws clear the bow limb then a bow press is not needed for this part. The existing module will slide out. Place the new module into position and replace the locking screws. Tighten firmly.

Step 2: The Control cable mounting post location should correspond with the draw length module. (See Below) If it does not then place the bow in a suitable bow press and relax the tension of the strings and cables. Undo the screw holding the control cable post in place and move to the correct hole. Retighten firmly.

Omega Cam No.1 & No.2

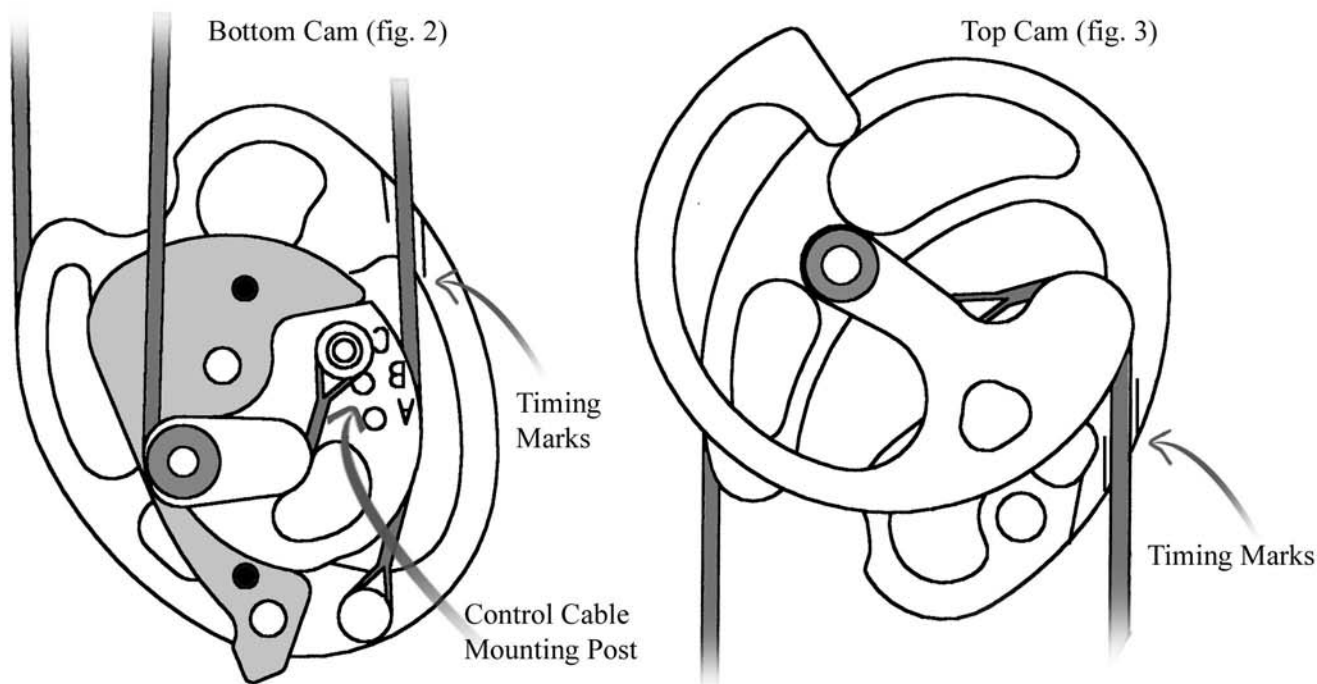
- OM1 - Control cable mounting post C
- OM2 - Control cable mounting post C
- OM3 - Control cable mounting post B
- OM4 - Control cable mounting post B
- OM5 - Control cable mounting post A

Omega Cam No.3

- XM1 - Control cable mounting post C
- XM2 - Control cable mounting post C
- XM3 - Control cable mounting post B
- XM4 - Control cable mounting post B
- XM5 - Control cable mounting post A

Cam Rotation and Timing

Your Omega Cam does not require timing to the same extent as a twin cam, but there are parameters that should be maintained. Following the guidelines below will ensure your cams are working in perfect unison, delivering straight knocking point travel and excellent tunability.



Initial Set Up.

You will notice that your bottom cam has 2 timing marks and your top cam has 3 timing marks. The power cable on the bottom cam should always be within the 2 marks. The position of the cable on the top cam will depend on the position of the Control Cable Mounting Post. If the Mounting Post is in position 'C' (see fig. 2) then the cable on the top cam should lie between the 2 lines as shown above. (see fig. 3)

When the Control Cable Mounting Post is moved, the rotation of the top cam will change. If the Mounting Post is in position 'A' then the top cam will lay as shown in fig. 4. When the Control Cable Mounting Post is in position 'B', the cable will lie on the centre mark.



If you find that the cables are not lining up with the timing marks then twisting of the strings and cables are necessary to bring them back into line. This must be done in a suitable bow press. If in any doubt, contact your authorised Merlin dealer.

These timing marks are references to cam rotation. They are guidelines to positions we have found to offer best tunability. It is not absolutely critical that your cables must line up with these marks, so feel free to experiment with different positions if you wish. The Omega cam system does not go out of balance in the same way a twin cam might, and will always have a solid back wall and smooth draw cycle no matter what cam rotation is used. We do feel, however, that after all your experimentation you will most likely end up back within the factory recommendations.

Enjoy!



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