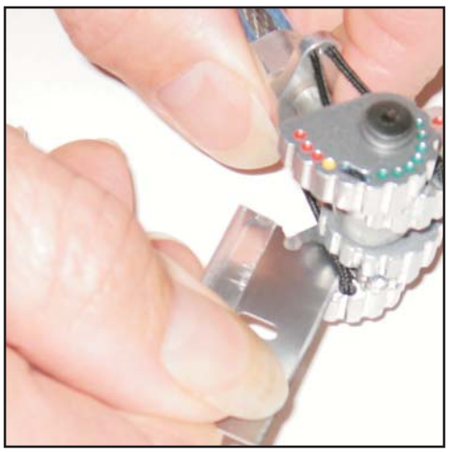
METOLIUS

Master Cam Trigger Cord Replacement

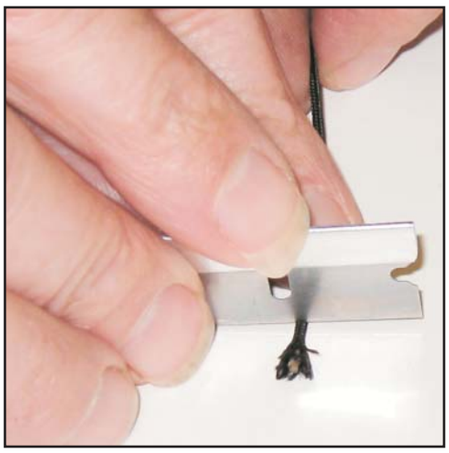
The replacement process is quite simple, and requires only a #50 drill bit, a candle, a small pick, and a very sharp razor blade.



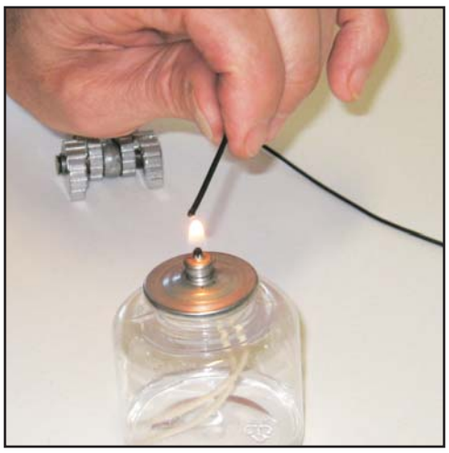
1. Cut off the old cords as close to the cam as possible using a sharp razor blade.

2. Remove the cord from inside the holes using a small drill bit (size #50, or 1.8mm).

3. Use a small dental pick to clean all the old glue out of the holes.



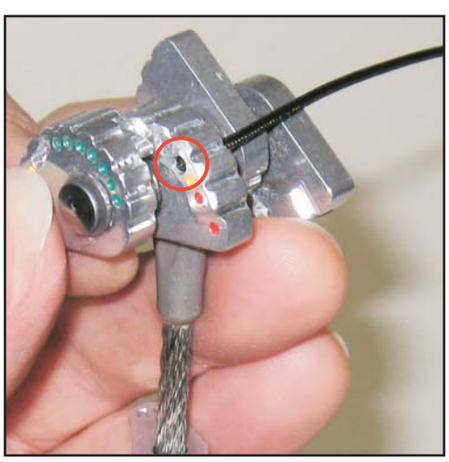
4. Cut two 15cm pieces (6 inches) of cord. The Kevlar core will not melt when heated, and is very hard to cut. Use a sharp razor blade to make very clean, precise cuts.



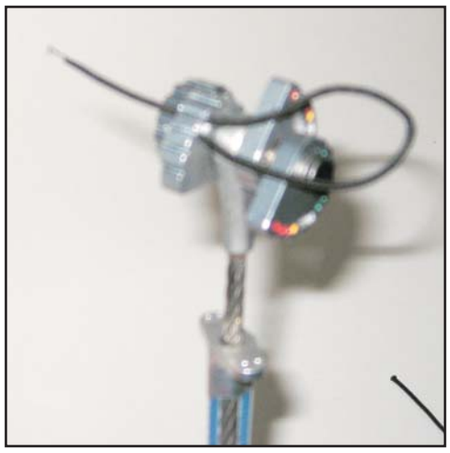
5. Heat the end of the cord until the black nylon sheath material begins to melt, then pull it quickly through your fingers to get a nice point on the end, with no core material showing. Repeat this several times to get a good point.

6. Pull the sheath toward the unfinished end until the yellow core material is covered. Heat this end until the nylon melts into a small ball. This will only take a second or two.

7. Starting on the inside cam, route the cord through the lower hole, pointed end first. This is the hole closest to the outside tip of the cam lobe.



8. Pull the cord so that the melted ball end is lightly wedged into the hole, and is even with the surface of the cam lobe.



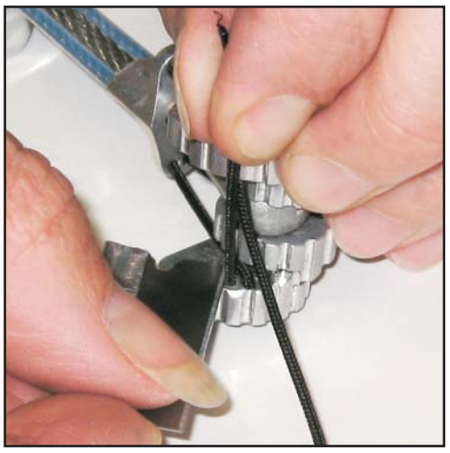
9. Route the cord back through the top hole then pull gently so that it nests down into the slot, but does not pull through the first hole.

10. Next, route the cord through the trigger piece.

11. Adjust the cord so that when the cams are in the open position and the trigger piece is tight to the end fitting, the cord is straight and tight.

12. Pass the cord up to the outside cam lobe, and do the reverse cord routing as on the inside cam.

13. Adjust the length so the cam lobes are even, with no slack, but not too tight. If the cord is too tight it will pull the trigger assembly unevenly when the trigger is activated.



14. Trim the extra cord flush to the surface of the cam lobe. Be very careful to cut only the extra cord without cutting into the trigger cord. If you accidentally cut the trigger cord, you must remove it and start over. Be very careful not to pull on the trigger after you have cut the extra cord, because it will pull out of the cam lobe.

15. Glue the cords in place using Loctite Hysol 120. Place a drop of epoxy on the end of the cord, then turn the cam over, and place several drops in the slot. Repeat this on each of the four cam lobes. Be very careful not to get epoxy on other parts of the cam. This will be very difficult with the 0, and 00 sizes. Allow the epoxy to set for 24 hours. At this time it is still possible for the trigger cord to slide back and forth in the trigger piece. Slide the trigger cords so they are even when the cam lobes are also even. Pull several times on the trigger. As the cams retract, they should all pull together, and retract evenly. Once this is done, and the cams all retract evenly, you can put a drop of epoxy on the slot of the trigger piece, so that the cord will no longer slide back and forth after the epoxy has set. Let the epoxy set for 24 hours, then check one more time to see that everything is correct.