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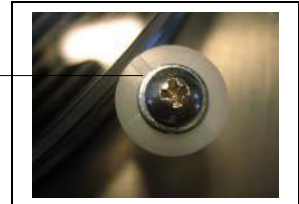
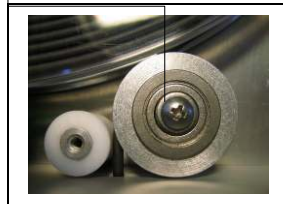
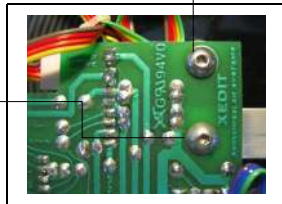
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SRL-40 Cable Replacement

Cable replacement requires the nearly complete disassembly of the SRL-40. Care needs to be taken to make notes as to where parts, spacers and shims need to be replaced when re-assembling the mechanism...

- 1- Remove the XLR connector by cutting the cable close to the connector. Save XLR to use as sample for re-installation onto the new cable to duplicate factory strain relief scheme.
- 2- Deploy entire length of stored cable before any disassembly.
- 3- Unsolder the internal cable free of the chassis XLR connector.
- 4- Remove (5) white bumpers, screws and washers; save all parts. Take care to save springs if removed.
- 5- Remove input guide roller; save spacers & shims.
- 6- Remove PCB retaining screw using a 3/32" Allen wrench.

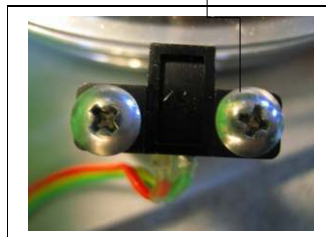
Do not loosen this:



- 7- Remove Allen socket screw; loosening hex lock-nut under adjustment bar. When re-installing, the bar needs to be adjusted parallel with frame.
- 8- Remove the four Allen socket button screws that retain the long top and bottom frame sections; note that the holes are slotted to permit edge alignment.

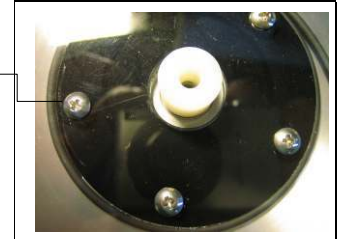


- 9- Handle the lower section carefully because the PCB is attached to it by the leads of the TO220 devices. Carefully tilt the PCB assembly bottom frame to the left of the frame revealing the spill IR module. Remove the two Phillips retaining screws to free the IR module so that the lower frame section is free to lay aside.

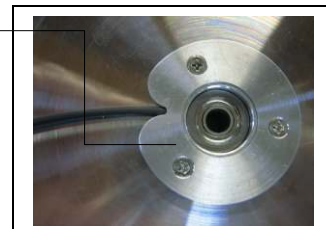


- 10- Unwrap the drive belt from the storage rotor to free the top (drive) plate so that it can also be layed aside to access the storage rotor.
- 11- Carefully rotate the long top and bottom frame sections as a unit to the left of the frame – completely exposing the storage rotor.

- 12- Remove the five Phillips truss screws, clear Plexiglas flange retaining screws.
- 13- Lift the storage rotor pulling up from both sides evenly from its central main shaft.
- 14- Remove internal (Bin) cable; threading the previously disconnected XLR end between the top bin plate and the bottom main frame. Also slide all of the storage side cable free of the cable exit slot from the bottom plate.



- 15- Turn the rotor over to expose the Bin hub. Remove the Bin Hub by removing the three flat head retaining screws. The hub also clamps and directs the cable horizontally into the Bin space allowing free rotation of the rotor.



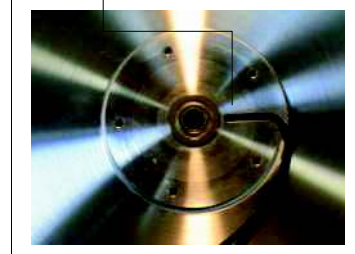
- 16- The next photo shows the position of the white - index mark on the cable.

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SRL-40 Cable Replacement

17- After removing the Bin hub in (15) carefully pull old cable from the top of the storage rotor from the central through-hole feeding the cable slot in the spiral hub.

18- Handle the rotor carefully; the top surface is a reflective surface and needs to be free of any foreign matter. This surface should be wiped clean prior to installing the new cable. It is coated with a clear silicone protective film at the factory and simple wiping should suffice.



19- Taking the two section replacement cable; unroll the smaller bundle straightening it out – carefully unwinding, not pulling, any kinks out of the cable. Once the cable is smooth and free of bends or kinks, thread the free end into the central through-hole. Continue to carefully pull the cable until the white index mark reaches through to the underside.

20- Replace the heart shaped Bin hub aligning the milled slot over the protruding cable; directly over the white mark. Replace the three 4-40" flat head 100deg. Screws to re-fasten bin hub. Caution: Do not exert excessive force. If using a cordless driver, set torque at low.



21- Slide the free end of the "Bin" cable into the large diameter rotor opening at the top of the frame, aiming it towards the top. Slip the cable into the space between the top and the base of the frame. Gently pull all of bin cable through this space until the rotor is close to the main shaft. Rotate the rotor until the cable exit point from the bin hub is aimed directly towards the top (drive side) of the frame. Maintaining a gentle pull on the cable, align the shaft end to the ball bearing bore and lower the rotor onto the main shaft. Make sure that the bin cable is not pinched and is free to move when the rotor is turned. You must not have any crossed or overlapped cable in the bin. The bin space is designed for a single layer of cable plus slight clearance.

22- On the top side of the rotor, dress the cable in the slot as shown in the first photo above and re-install the clear Plexiglas flange, fastening it down with five truss 4-40" screws; use light torque setting or make hand tight only. Unbundle by carefully unwinding not pulling, the storage cable in the larger bundle. This cable employs a Kevlar core and is quite strong. However, the cable can be damaged or permanently kinked by trying to force kinks-out by "pulling". Kinks must be carefully unwound and the cable must be laid-out straight before trying to load it onto the storage rotor.

23- Once the cable is straightened, load it onto the rotor by hand turning the rotor counter-clockwise, start the storing operation by exerting some extra tension on the cable to help the cable conform to the first turn. Maintaining a lighter tension on the cable by slipping it through a paper towel to remove any foreign matter and to exert some tension so that the wind on the rotor is smooth and concentric.

24- While the rotation and loading of the storage side of the rotor is taking place, the bin side cable needs to be free to also wind into the bin-space. Make sure that the bin cable does not get entangled during this process. At a point in the loading, the bin cable will be entirely pulled into the bin space. When the storage side is full, within one half turn of completely full, stop. Temporarily secure the remaining cable. Then, using a slender tool or stiff wire, fish the end of the bin cable out of the bin. Sometimes rotating the rotor may help in finding the end of this cable. Once the end is pulled out of the bin, the synchronization of the two sides must be set.

25- Typically, after finding the end of the bin cable, pull one or two turns of cable from the storage side and add one turn of cable onto the storage side by manually looping the cable around the outside diameter. TEST the synchronization of the storage and bin cable by manually pulling all of the cable from the storage rotor while restraining the end of the bin cable under the frame. Synchronization is adjusted by adding or removing cable layers on the storage side of the rotor so that complete cable deployment and retraction can take place without the bin cable coming under tension or restraining the storage side rotation in either mode.

26- Leaving enough cable service to attach the end of the bin cable to the XLR, align this cable with the slot milled into the top (drive) plate and the bin space. Insert but do not tighten the 8-32" button cap screws to restrain the plate to permit drive belt clearance. Re-install the drive belt into the drive groove around the storage rotor. Once the drive belt is clear of the top (drive) plate, tighten the button screws making sure to align the ends flush with the frame. Replace the spill bumpers to restrain the cable from accidentally spilling from the rotor.