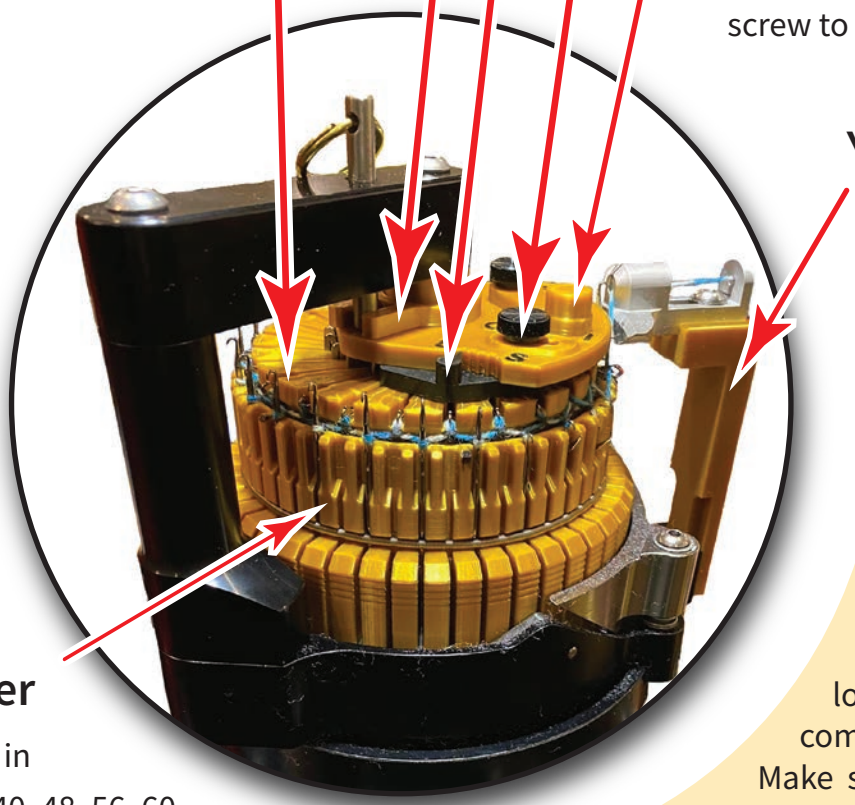
TRU-KNiT Compound cylinders and ribbers - QUICK GUIDE

Dial

Available in slot numbers 24, 28, 30, 32, 36 and 40.

Tappet

- Adjustable timing ring. Hex key 5/64”
- Ribber stitch lenght indicator
- Ribber stitch lenght thumb screw
- In or out adjuster (loosen thumb screw to select)



Yarn carrier adapter

Uses same screws that come with your TRU-KNiT’s yarn carrier

Cylinder

Available in sizes 36. 40, 48, 56, 60 and 64.

Cylinder comes with 2 screws exact size to secure in place.

WARNING:

Do not use longer screws than provided to attach the cylinder, doing so may result in damage to your cylinder. Do not use paddle screws as they will tend to extend too deeply into the cylinder and may damage it.

How to install:

Unscrew the two larger screws located on the bottom of the cylinder. The screws that hold the regular cylinder are not long enough to hold the compound cylinder in place. Make sure the cylinder is sitting down on the bottom of the cam shell and is lined up to where the screws will hold it in place. Use hex key size 1/8”. **Do not over-tighten the screws.**

Replace the yarn carrier’s bracket that came with your TRU-KNiT with the compound yarn carrier bracket/adapter. You will need the same screw that holds the original bracket. Install the yarn carrier on top of the bracket and adjust as close to the needles as you would if using it in regular cylinders.

You might have to adjust the bracket up or down a little to make sure the needles come up to correct height and the correct distance from the yarn carrier.

Compound dial and tappet replace the dial and tappet that came with your TRU-KNiT. Use the same ribber post to install on the ribber arm.

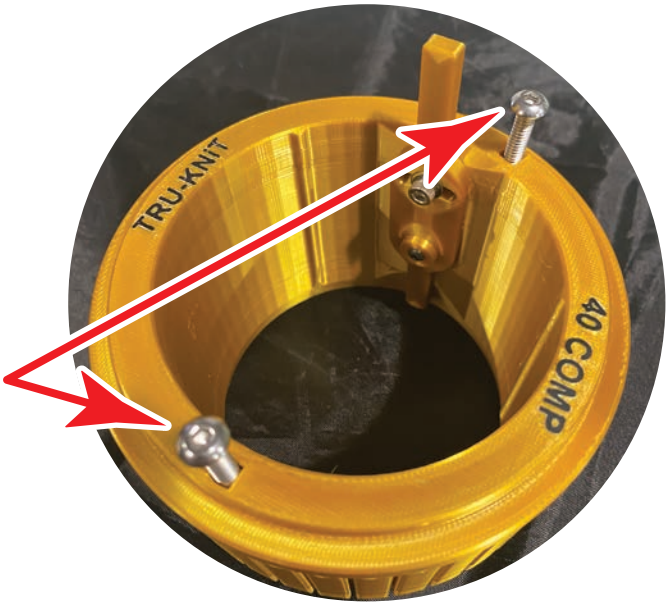
The cylinder lever comes attached to the inside of your compound cylinder. Use thumbscrew to adjust pitch. Use hex key 9/64”

TRU-KNiT Compound cylinders and ribbers - **USER MANUAL**

Thank you for purchasing a Compound Cylinder and/or Compound Ribber Dial or Full Set for your TRU-KNiT. The following instructions will help you install your new cylinder, tappet and dial on your TRU-KNiT machine and adjust the yarn carrier to the correct settings.

To knit with a compound cylinder you will need:

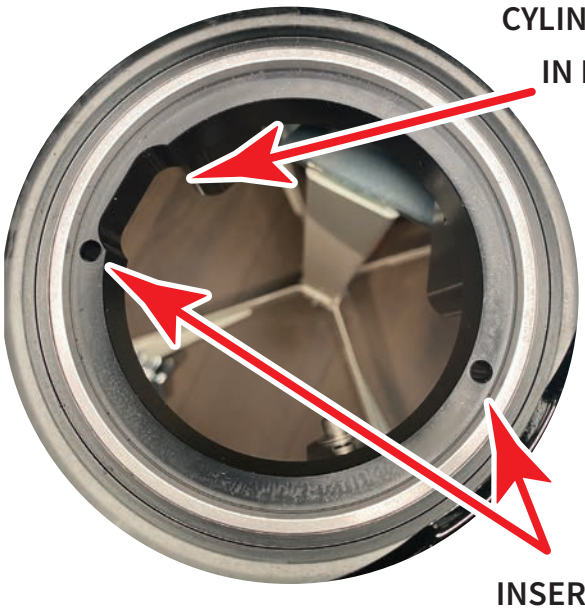
- Compound cylinder (of any size).
- Compound needles, sufficient for the cylinder number. These are different than your regular needles. Please see picture in page 3 for comparison.
- Spring, to hold needles in place.
- Yarn carrier bracket/adapter. Picture in page 3.



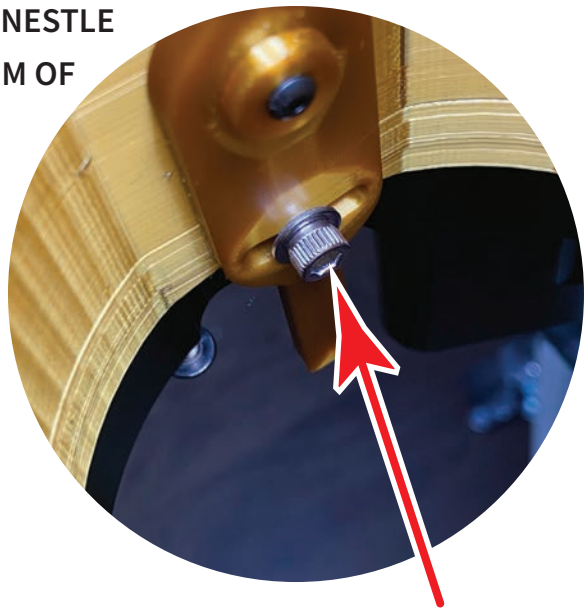
Installing the Compound Cylinder

Your compound cylinder came with a cylinder lever held in place by a small screw (halfway up) and a thumb screw for adjusting the pitch (thumb screw uses a hex key size 9/64”).

Unscrew the two larger screws located on the bottom of the cylinder, you will need them to secure your cylinder on the machine. The screws that hold the regular cylinder are not long enough to hold the compound cylinder in place. Make sure the cylinder is sitting down on the bottom of the cam shell and is lined up to where the screws will hold it in place. Do not over tighten the screws. Use hex size 1/8”



CYLINDER LEVER WILL NESTLE IN NOTCH IN BOTTOM OF CAM SHELL



VIEW OF BOTTOM OF THE CAM SHELL

INSERT SCREWS FROM UNDER THE CAM SHELL THROUGH THESE HOLES

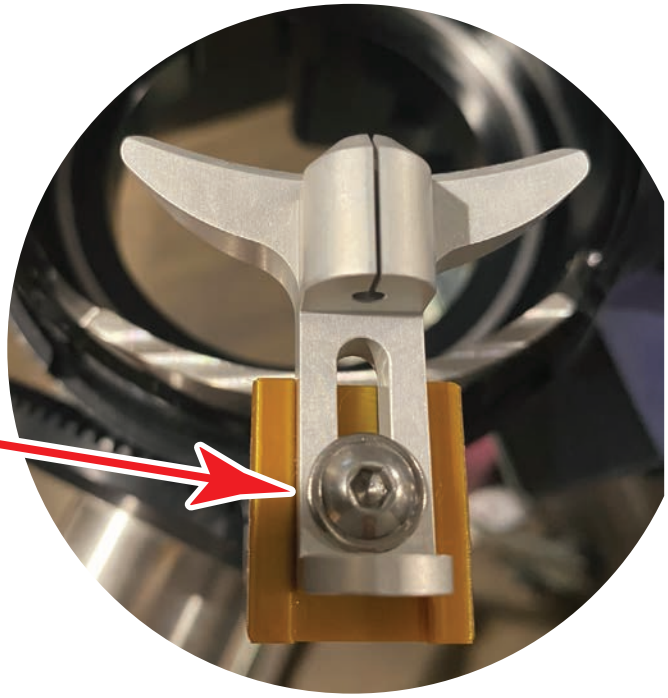
TO ADJUST PITCH USE HEX KEY SIZE 9/64”

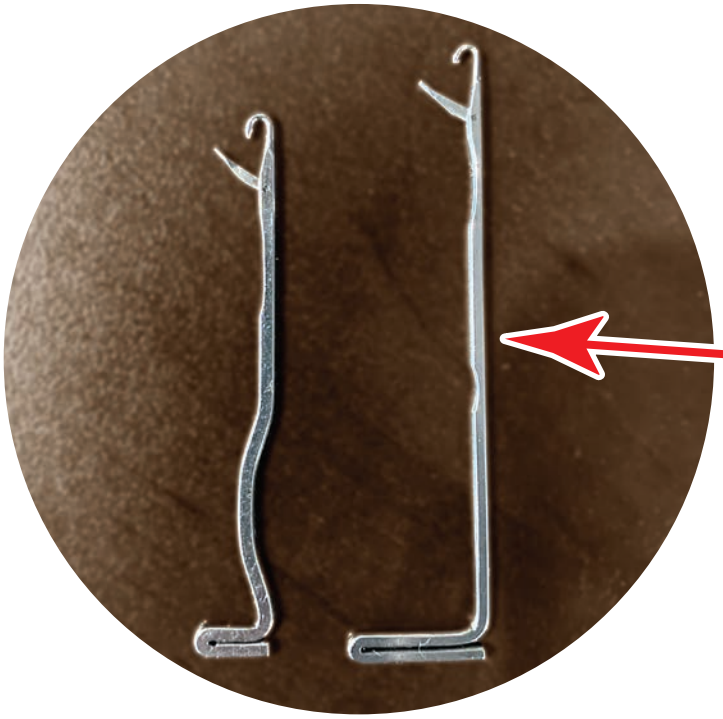
USE SAME SCREWS THAT CAME WITH YOUR TRU-KNIT TO SECURE THE BRACKET AND YARN CARRIER

Install the Yarn Carrier Bracket

The yarn carrier bracket/adapter that came with your compound cylinder should replace the yarn carrier bracket installed in your machine. You will need the same screw that holds the original bracket.

Install the yarn carrier on top of the bracket and adjust as close to the needles as you would when using it with regular cylinders.





COMPOUND CYLINDER NEEDLES

Compound cylinder needles are taller and have a longer foot (or butt) than the cylinder needles that came with your TRU-KNiT.

Regular cylinder needle on the left, compound cylinder needle on the right.

You might have to adjust the bracket up or down a little to make sure the needles come up to correct height and the correct distance from the yarn carrier.

To create ribbed stitches on your compound you will need:

- Compound Tappet
- Compound Dial of the appropriate size for the number of needles on your cylinder. Combinations are 64/ 32, 60/30, 56/28, 48/24, 40/40 and 36/36
- TRU-KNiT compound ribber needles (short butt) sufficient for your dial number

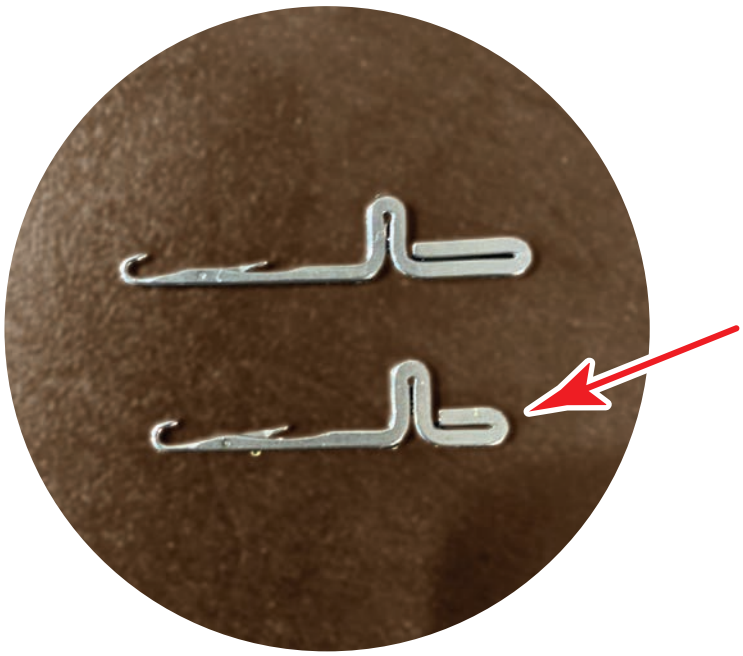
Installing the Ribber's Tappet and Dial:

Unscrew the tappet and dial that came with your TRU-KNiT.

Use the same post to install the compound dial and tappet on your ribber arm. The compound tappet comes set for a mid-length stitch, you may change this by unscrewing the thumb screw and adjust towards **L** for longer or **S** for shorter stitches. The timing ring is held in place by a small screw that uses hex key 5/64".

To put the needles in or our of work you will use the thumb screw to set the switch on **O** for out of work or **I** for in-work. Please see picture of tappet in next page.

Additional compound cylinder needles and compound ribber needles can be purchased from CSM Supplies (or contact Jamie Mayfield).

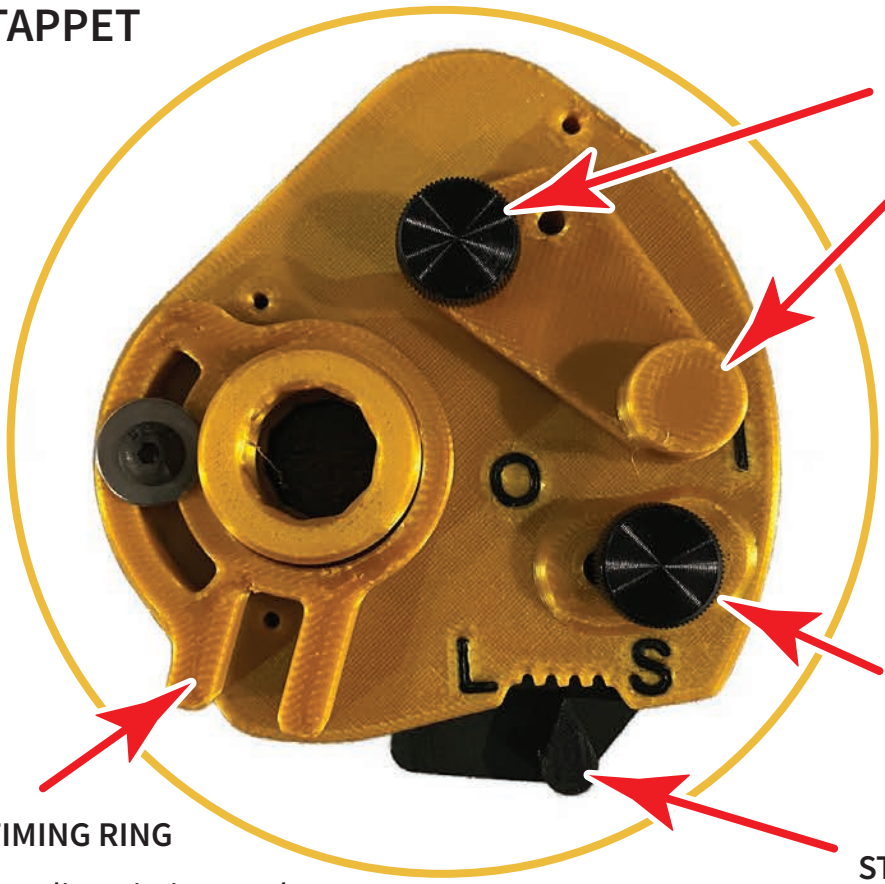


TRU-KNiT COMPOUND RIBBER NEEDLES

TRU-KNiT compound ribber needles are shorter and have a smaller foot (or butt) than the ribber needles that came with your TRU-KNiT. They are also different than other compound ribber needles.

Regular ribber needle pictured on top, TRU-KNiT compound ribber needle on bottom.

TAPPET



IN - OUT THUMB SCREW

IN - OUT SWITCH

Use the thumbscrew to loosen the switch, set on I for in-work (to put the ribber needles into work) or on O to put the ribber needles out of work. Tighten the thumb-screw after setting.

STITCH LENGHT THUMB SCREW

TIMING RING

To adjust timing use hex key size 5/64”, loosen the screw, move the ring, then tighten screw again.

STITCH LENGHT INDICATOR

To change the lenght on the ribber stitch, unscrew the thumb screw and adjust towards **L** for longer or **S** for shorter ribber stitches.

Oiling your compound cylinders, needles and ribber:

You may use the same oil that you use for your other cylinders. Lily White sewing machine oil or the oil that came with your TRU-KNiT will work. Apply the same way that you would your regular cylinder.

Cleaning your compounds:

Wipe and blow off lint periodically. You may use isopropyl alcohol. Do not soak. Do not use anything else to clean your compound especially solvents like MEK or Trichloroethylene. Use of these will dissolve your compound. **Keep your compound below 155 degrees F at all times.**

Tighten screws only enough to prevent slipping. Tightening harder than needed may damage your compound.

STILL HAVE QUESTIONS? HERE ARE SOME MORE ANSWERS

1. **What is a compound?** A compound is type of cylinder that in combination with a different needle moves the hooks inward to a smaller diameter but still uses the same cam system to move the needles. The system includes cylinder dial and a tapet. Compounds are tools that aid in making smaller socks, for children or even for babies.
2. **Is the TruKnit compound made from plastic?** The TruKnit compound is in large part made from PETG, a type of plastic. It also uses metal nuts and heat set inserts, carbon fiber rods for hinge pins and dowels.
3. **Are the needles different?** Both the cylinder needles and the ribber needles are different than you may be familar with. The cylinder needles have a very long drive lug that is needed to reach the cams in your machine. The ribber needles use a short butt to allow closer spacing of needles when retracted into the dial.
4. **Is a different dial and tapet required?** To rib you will need the dial and tapet designed as part of the TruKnit compound system.
5. **Can I use oil to lubricate the TruKnit compound?** Lily white sewing machine oil or what was supplied with your Truknit should be used to lubricate the Truknit compound. They will tend to soak up more oil at first than metal cylinders and dials.
6. **Do I need to use a different bracket for the yarn carrier?** A different bracket is required and is supplied with your compound system.
7. **Do I need special bolts to attach my TruKnit compound cylinder to my machine**? The bolt to be used is supplied with your compound. The length of the bolt is more critical than those used in other types of cylinders. Use of a longer bolt may result in severe damage to your cylinder. Do not use paddle screws or other substitutes where the effective length is more uncertain.
8. **Are there special temperature precautions for the TruKnit compounds?** The plastic used is PETG, a type of thermoplastic. It is more tolerant than the more commonly used PLA plastic but does have limits like all materials. Keep your compounds at lower than 155 deg F at all times. So leaving it a non airconditioned car in Phoenix Arizona in the summer sun is not a good idea.
9. **Do these compounds require a break in?** Break in is not needed or beneficial.
10. **What cylinders and dials are available?** Please contact Jamie Mayfield for what is available.
11. **Are the dial needle slots non radial?** Yes they are.
12. **Does the ribber only work one direction?** Yes like most ribbers it is only designed for a single direction.
13. **Can special requests be accommodated?** Please contact Jamie Mayfield with your specific request.
14. **Is Jamie Bruns Mayfield the only person to purchase these compounds from?** Yes.
15. **Does the Truknit compound have the lines on the cylinder to use help gauge vcam position?** While they look a bit different the reference lines are on the cylinder.
16. **Who designed this compound system?** Dave Huelster with input from Jamie.
17. **Do I use a special post with the TruKnit compound?** No special ribber post is required to use the TruKnit compound ribber.