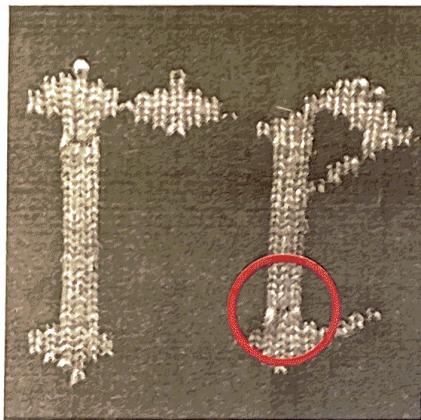


# KNIT TROUBLESHOOT GUIDE



Before doing **any** work on the machine, **double tap the red button** to stop the machine.

If you must open the machine, stop it (by double tapping the red button) then **turn it off**.

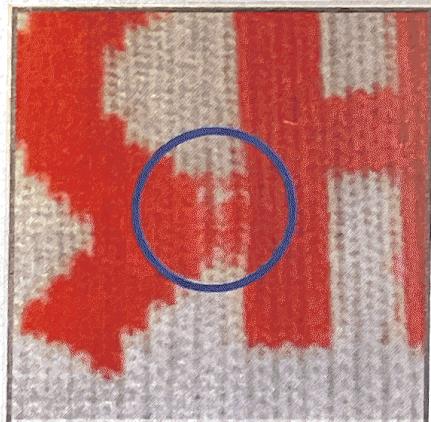


## Holes

Holes randomly appearing in a single color.

### Fix:

- Tension on that color is too tight. **Loosen tension on both strands of yarn** of that particular color. *Tight tension on black is too tight will pull holes*
- If problem persists, re-chart that color to a higher finger to loosen tension. (Example: move problem color from finger 13 to finger 15 or 17)
- Yarn may need to be waxed to work. Usually the case in complex patterns/text



## Color In Wrong Area - Tension

Color continues to show up next to where it should have finished

### Fix:

- Tension is too loose. **Tighten tension of color that is spreading**; slightly, depending on how much thread is showing up, maybe 1 or 2 rotations
- If it still happens or you start getting holes (meaning it's too tight) try adjusting the chart so the problem colors aren't directly adjacent to each other. For example, in the image, if red is finger 17 and white is 16, change it so red is 17 and white is 13. Finger 16 can have some other color or could be empty, the important thing is that there is a finger separating the two.



## Color In Wrong Area - Selector

Wrong color is randomly showing up where it shouldn't.

*Or blow sweet spot with compressed air before adjusting selector*

**Fix:** Selector needs to be adjusted. Adjust the selector for the color that's showing up randomly (in example image, orange selector would need to be adjusted). **See notes on selector adjusting**

**Noticeable trait:** This differs from tension issues because it appears more deliberately and can appear anywhere (instead of next to where the problem color should have finished).



## Stiff / Discolored Sections

The color that's being affected has other yarn(s) being knit in with it. Instead of the normal 2 ply, another yarn is 3+ ply.

**Fix:** Check the back of the machine for another spool of yarn that's too close to the affected color. If the problem continues to happen, rethread the machine with more space between the spools. Make sure there are no threads crossing paths between sensors.

make sure needle cam is in place



## Color In Wrong Area - Pattern

Selector's pin came loose causing one of the blades to not move. The issue is with the selector of the gray thread in the image.

**Fix:**

- Pin can be pushed back into place. Then use tape around selector so pins cannot wiggle out again.
- If problem persists, replace selector.

**Noticeable trait:** It happens every 8 needles, so only one jack pin is being affected.



## Broken Needle

**Fix:**

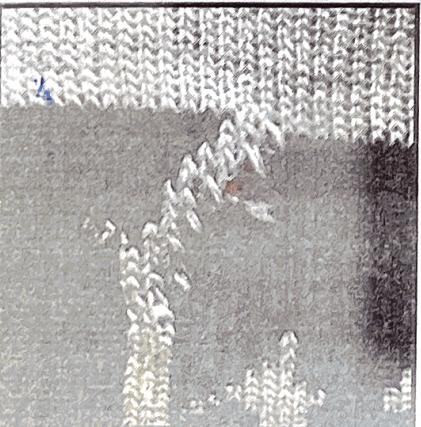
- Replace needle. This happens randomly from time to time.
- If it continues happening, foreign object in needle's path may be breaking needles.
- Mark needle with sharpie when replacing to see if it's the same needle every time

Also watch fingers they may be to close  
**Noticeable trait:** One missing vertical stitch. *Breaking needles*

## Holes - No Lycra

Holes appear where colors change. Colors aren't being "tied" together. There is no lycra with the yarn

**Fix:** Lycra is jammed, broken, or otherwise not feeding through the finger correctly. Similar to a yarn feed issue, check lycra line for jams.





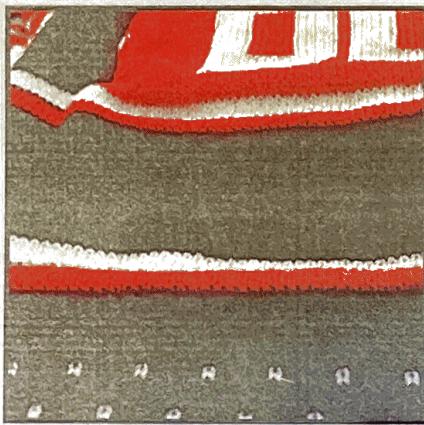
## Color In Wrong Area - Jack Track

Single jack isn't working properly

**Fix:** Replace malfunctioning jack. It's easiest to stop the machine mid-production to correspond the line of bad stitches to the needle/jack to see which one to replace.

**Noticeable trait:** Single vertical stitch is the wrong color, usually multiple colors.

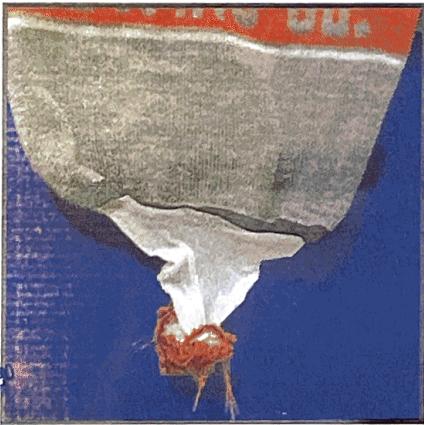
*If you can't find the Jack run a program that switches between colors. I've created a chart for this problem*



## Ribbing

Single color is too tight causing ribbing when colors change.

**Fix:** Tension for the tight color is too tight, reduce tension for that color. If this causes issues normally associated with loose tension, consider changing fingers.



## Missing Color

Lycra is knitting with no yarn.

**Fix:** Since the other sensors didn't stop production, yarn is probably threaded through an incorrect finger. If threaded correctly, make sure there isn't a yarn jam or some other issue causing the machine to not grab the yarn.

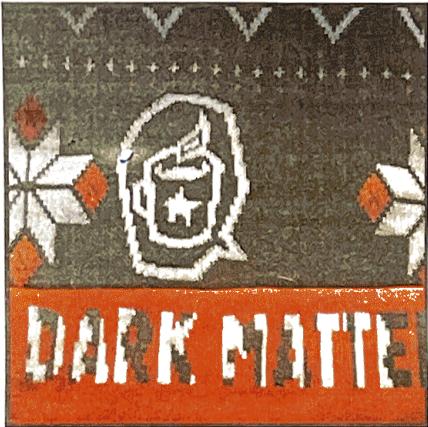


## Brush

Somewhere in the 4 cycles between beanies, the lycra breaks.

**Fix:** The brush needs to be adjusted to keep the lycra in the vacuum hose when the machine cuts it. Usually this means swiveling the brush left or right. Check other machines to get an idea of where to adjust.

Once adjusted, make sure the screw holding the brush in place is tight.



## Selector Timing

The selector timing settings have been incorrectly set. This sometimes happens with time then the machine loses power suddenly (like the breaker is tripped).

**WARNING!**

TAKE picture Before messng

**Fix:**



2. PATTERN SET	
N.I1:	060
N.I2:	018
N.I3:	018
N.I4:	018
N.I5:	018
N.I6:	018
N.I7:	000
ENTER SAVING	

## No Power

The machine won't turn on after flipping the on switch.

**Fix:**

- Make sure it's plugged in
- Check the little blue button next to the power switch. If it's sticking out, push it back in.
- Check the main breaker box



## Too Thin (1 Ply)

Single color is too thin in final product. Can be seen through and feels thin. One of the two strands of thread isn't feeding correctly.

**Fix:** Check several places for a jam:

- End of the finger
- Tension adjuster
- Spool of yarn - out of yarn or snagged, replace with new spool

If the problem continues, backwind the yarn. This will reduce lint and remove snags within the larger spool.

