Troubleshooting

If your thread is breaking...

- Replace your needle if it is bent or burred. Use the needle magnet to install and align the needle (see page 56).
- Follow the “Top Thread Tension” guide on the back to correct your thread tension.
- Check that your machine is threaded correctly using the “Thread Guide” above.
- Follow the “Bobbin Guide” on the back for threading, tensioning, and installing the bobbin case.

- Check the hopping foot height (see page 59).
- Adjust the height of the take-up rail on your quilting frame to be 1/4 inch above the needle plate.
- For more help call 1(800) 264-0644 or e-mail support@graceframe.com.

If your machine is skipping stitches...

- Replace your needle if it is bent or burred. Use the needle magnet to align and install your needle straight (see page 56).
- Follow the “Top Thread Tension” guide on the back to correct your thread tension.
- Check the hopping foot height (see page 59).
- Adjust the height of the take-up rail on your quilting frame to be 1/4 inch above the needle plate.
- For more help call 1(800) 264-0644 or e-mail support@graceframe.com.
**Needle Information**

- **Size:**
  - 14/90: mono-filament, 100 wt. silk, 60 wt. polyester
  - 16/100: mono-filament, 60 wt., 50 wt. polyester or cotton thread
  - 18/110: 40 wt. cotton and polyester, 30 wt. cottons and polyester
  - 20/125: any thread 30 wt. or heavier

- **Needle Style:** 135x5, DPX5
- **Bobbin Type:** M-Class
  - (Equivalent European Needle Styles: 134, 135x7, 797, SY 1955)

**Bobbin Guide**

- **Bobbin Guide**: Place the bobbin in the bobbin case so that when you pull the thread, the bobbin rotates clockwise.

- **Tension Test**: Hold the bobbin case in your hand and pull the thread up.
  - **Tension is correct if** the bobbin case tilts onto its side but does not leave your hand.

- **Set the bobbin tension first**, and then adjust the top thread tension.

  - If the bobbin case does not tilt up... **Increase Tension** by twisting the large bobbin case screw clockwise with a small screwdriver, pin or fingernail.
  - If the bobbin case leaves your hand... **Decrease Tension** by twisting the large bobbin case screw counterclockwise with a small screwdriver, pin or fingernail.

**Top Thread Tension**

- **Correct thread tension**: The top and bobbin thread knot in the middle of the fabric layers.

  - If the top thread is pulled through the bottom layer of fabric, increase tension.
  - If the bobbin thread is pulled through the top layer of fabric, decrease tension.
Sewing Button Controls

1. **Settings**
2. **Stitch Length**
   - Displayed in Stitches Per Inch (SPI) or Centimeter (SPC) (see Settings to set the unit measurement). Press [-] to decrease SPI/SPC and [+] to increase SPI/SPC.
3. **SPI / SPC Presets**
   - Press to set the SPC/SPI shown.
4. **Jog Needle**
   - Press [<] or [>] to move the needle incrementally.
5. **Needle Stop Indicator**
   - Shows if the needle will stop sewing in the [Up] or the [Down] position. Press to switch to [Up] and [Down].
6. **Over-speed Indicator**
   - Press to switch audible signal [On] and [Off]. Icon will change [Red] if you move your machine faster than it is able to make even stitches.
7. **Full Stitch / Half Stitch**
   - Pressing this button to create a full stitch, or a half stitch. Change which button is active in Settings.
8. **Sewing Mode**
   - Press [>] to switch to Precise, Cruise, Manual, and Baste.
9. **Minimum Speed**
   - Shown as a percentage of the machine’s highest speed, ranging from 5% to 25%. Press [-] to decrease stitch speed and [+] to increase stitch speed.
10. **Baste Length**
    - Press [-] to decrease stitch length and [+] to increase stitch length.
11. **Manual Speed**
    - Displayed as a percentage of the highest speed. Press [-] to decrease speed and [+] to increase speed.
12. **Manual Speed Presets**
    - Press to use that stitch speed. Press and hold to set.

*Sew these buttons may be reversed in Settings for left-handed quilters.*
Settings Screen

1. **Return to Sewing**

2. **Stitch Button Setting**
   - Change which button is active on the Sewing Screen and on the handle button.
   - [Full Stitch]
   - [Half Stitch]

3. **Units**
   - Change length units from SPI to SPC on the Sewing Screen.

4. **Reverse Handle Buttons**
   - Reverse the left and right handle button controls. This is useful for left-handed quilters.

5. **System Information**

6. **Screen Settings**

7. **Machine Revision Information**

8. **Display Revision Information**

9. **Stitch Count**
   - Press [Reset] to reset the Stitch Count. Total Stitches will not reset.

10. **Hour Count**
    - Press [Reset] to reset the hour count. Total hours will not reset.

11. **Screen Calibration**
    - Use this setting if buttons aren’t activated correctly when pressed.

12. **Color Theme**
    - Choose a color theme for your screen.

*These buttons may be reversed in Settings for left-handed quilters.*