



## DESIGNER DIAMOND™ Technique Step by Step #22 Free Motion Stitching

When stitching free motion on your DESIGNER DIAMOND™ sewing and embroidery machine you have two choices, Free Motion Floating or Free Motion Spring Action. Which one you select depends on the foot you are using.

The following feet require **Free Motion Floating**:



R Foot



Clear Open Toe  
Free-Motion Foot  
412860645

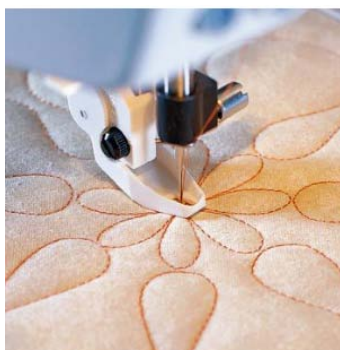


Free Motion Guide  
Foot 412576445



Yarn Couching Feet  
Set 920215096

The following feet require **Free Motion Spring Action**






Sensor Q-foot



Open Toe Free Motion  
Spring Foot 413037646

## To set your DESIGNER DIAMOND™ sewing and embroidery machine for free motion:






1. Touch Start Menu .
2. Touch Set Menu .
3. Touch Sewing Settings .
4. Touch the box by either **Free Motion Floating** or **Free Motion Spring Action** to put a ✓ in the box.

### Free Motion Floating:

Free Motion Floating allows the foot to “float” just above the surface of the fabric. When you begin sewing at a slower speed, the foot will “hop” up and down as the stitch is formed. As you stitch more quickly, the foot goes into floating mode and stays there.

It is possible to adjust the height at which it is “floating” above the fabric. This is called the Pivot Height.

### To adjust the Pivot Height:

1. Touch Start Menu .
2. Touch Set Menu .
3. Touch Sewing Settings .
4. At the bottom of the screen, on the right is the pivot height adjustment . The free motion symbol is shown . The default is set at 0. Touch the **+** to raise the foot up, further away from the fabric. Touch the **-** to move the foot down, closer to the fabric.
5. Because fabric thickness varies, you may need to adjust the Pivot Height. If you see the fabric “bouncing” and your thread is breaking, touch the **-** to lower the foot. If your foot is “clamping” down too hard on the fabric making it difficult to move, touch the **+** to raise it up giving the fabric more clearance to move.

### Free Motion Spring Action:

Free Motion Spring Action allows the foot to hold the fabric taut as the stitch is being formed and rise up after the stitch has been made. You will find that the Pivot Height is not active when Free Motion Spring Action has been chosen because it is not applicable.






### Which to Use?

The choice to use Floating or Spring Action is largely a personal choice when doing basic free motion stitching.

- The “R” Foot is the basic free motion foot that comes with your DESIGNER DIAMOND™ sewing and embroidery machine.

- The Clear Open Toe Free Motion Foot is an optional accessory that is very useful when the floating position is desired and you need to follow a line. The open toe in the front gives the best visibility.
- The Free Motion Guide Foot has a grid, making it easy to do echo quilting. The large surface of the foot keeps the fabric down, out of the way of the needle when using a “puffy” batting.
- The Yarn Couching Feet are specialty feet for couching yarn.
- The Sensor Q-foot is useful when working on thick, fabrics or layers of fabrics. The spring action holds the fabric taut as the stitch is being formed. The Sensor Q-foot is designed to be used either in free motion sewing or in embroidery.
- The Open Toe Spring Foot is used the same as the Sensor Q-foot, but is open in the front making it easier to see.

## Let's Sew:

1. Insert an INSPIRA® Quilting needle, size 90.
2. Thread with cotton thread top and bobbin.
3. Make a “quilt sandwich” from two layers of cotton fabric with batting between them.
4. Snap on your “R” Foot.
5. Touch Start Menu .
6. Touch Set Menu .
7. Touch Sewing Settings .
8. Touch the box by **Free Motion Floating** to put a ✓ in the box.
9. Select A1:2 .
10. When sewing free motion, you are moving the fabric. Run the machine moderately fast. You may want to touch the **SPEED**  and slow your DESIGNER DIAMOND™ sewing and embroidery machine down one notch. Then sew with the foot control fully depressed to have an even speed.
11. Begin with long thread tails both top and bobbin. Tap your foot control once to lower the needle and bring it back up. This allows you to bring your bobbin thread to the top. Hold the thread tails and stitch in place for a few stitches. Stop and trim the tread tails.

12. Then begin by stitching back to front, then side to side. Practice loops and even write your name! You are controlling the stitch length by how you move the fabric. Practice for consistent movement of the fabric and speed of the machine.

