

We Recommend an Authorized HQ Sixteen Representative Complete the Installation

WHEEL INSTALLATION FOR HQ SIXTEEN™

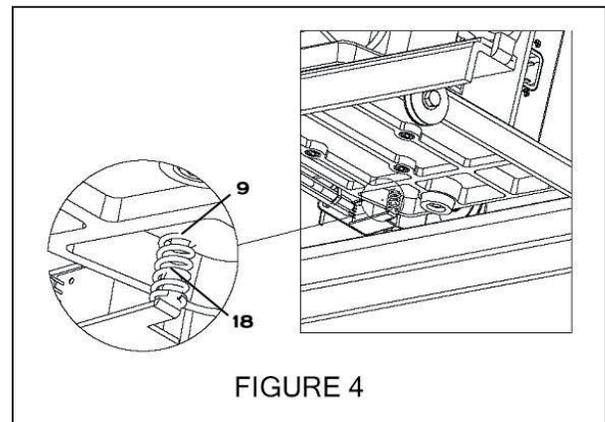
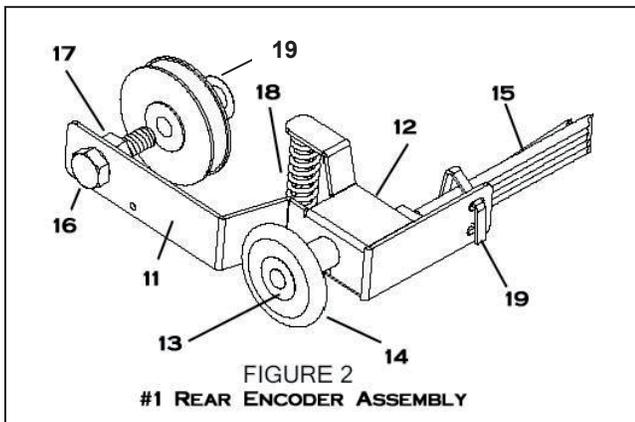
Kit Includes: 8 wheels, this instruction sheet

Tools Needed – not included: 7/16" hex head wrench

1. Remove your existing wheels with the hex head wrench on the carriage (4) and the HQ Sixteen™ (4). When removing the bolts from the machine, be careful to not loose the shim washer in between the machine and the wheel.
2. Slide the new wheel onto the bolt making sure you place the shim washer in between the machine and wheel. Note: The wheels on the carriage have no shim washer.
3. Tighten until wheel is secure. **Do not over tighten**; this will damage the threads in the base plate casting or carriage.
4. Rotate the wheel to make sure it rolls smoothly.
5. Repeat for all wheels.

INSTALLATION INSTRUCTIONS FOR HQ SIXTEEN'S™ WITH STITCH REGULATORS

1. Replace the 3 wheels on the carriage and 3 wheels on the machine without encoder brackets as described above.
2. **When replacing the wheel on the encoder side of the HQ Sixteen™** (rear encoder): unscrew the bolt #16 and remove the shim washer #19 and wheel. Replace with new wheel and the shim washer. (See Figure 2) Ensure that the coil spring #18 (See Figure 4) is securely attached to the spring tab on the rear encoder assembly.
3. On the underside of the rear base plate, ensure that the spring is held captive by the spring retaining stud #9 or stick on spring retainer on the base plate. If no spring retaining stud exists, insure that the stick on spring retainer is not missing (*call HQ Customer Relations if missing*). These hold the spring in a vertical position so the spring will function properly. Reinstall the Coil Spring #18. (See Figure 4) Test the installation by lifting the bracket slightly, spring tension should be obvious and return the bracket quickly to the down position. Note: Ensure that the wheel turns consistently when the machine is moved front to back on the carriage and that the bracket touches the top of the rear base plate when released. The top of the base plate is the bracket stop.
4. Important: The nut (#17) is tightened against the wheel to take play out of the wheel so it will roll properly. The bolt (#16) is adjusted on the bracket to allow it to push up and down without excess play on the bolt from being too loose or binding from being too tight.



5. **To replace the wheel with the encoder assembly from the carriage do the following** (front encoder): remove the nut, washer, spring, encoder bracket, washer, bolt and wheel from the front encoder. Replace the encoder in reverse order or follow the directions as described below in 6 and 7.

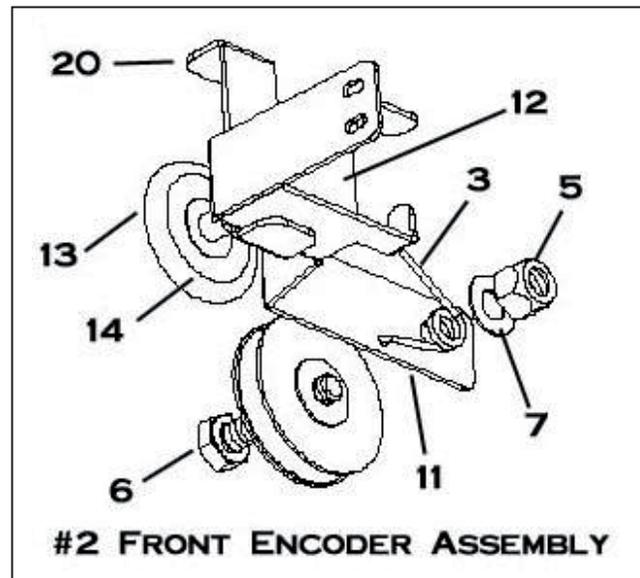


FIGURE 5

6. Reinstall the bolt with the new wheel and tighten into the threaded carriage hole. **Do not over tighten:** this will damage the carriage threads. Next on the protruding end of the bolt place a washer #7, then the Front Encoder Assembly with the black rubber wheel facing the Machine Front. (Towards the wheel just replaced.) (See Figure 5)
7. Place the torsion spring #3 over the bolt with the 90 degree bent end going on first. There is a small hole in the bracket that the coil spring end fits through. Place a washer #7 over the bolt and then tighten a 1/4-20 lock nut #5 over the end of the bolt. Tighten enough to keep the bracket vertical, but not enough that the spring can't compress. Test the installation by lifting the bracket slightly, spring tension should be obvious and return the bracket quickly to the down position. The bracket should snap back down when pushed down then released. Ensure that the stop bracket #20 touches the top of the carriage cross brace when released. (See Figures 5 & 6)

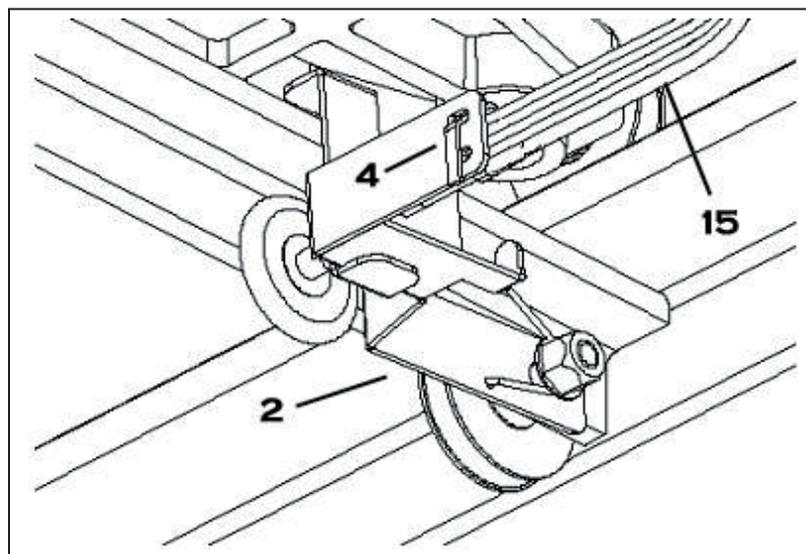


FIGURE 6

If you are having difficulty, please contact our customer relations team toll free at 877-697-8458.