Service Note:

E520/S500 Belt Pulley

Changing the E520 ABS/
S500Aluminum belt pulley

Changing the E520 ABS/ S500Aluminum belt pulley:

Dealer assistance recommended.

This service note details the changing of the ABS belt pulley or upgrading to the FDR-2B belt pulley kit. The following parts will be provided in the upgraded kit.

#13014 ABS pulley with 2x INA clutch bearings
#10021 Belt pulley sticker
#10137 Outer belt pulley spacer
#10016 C-clip 25

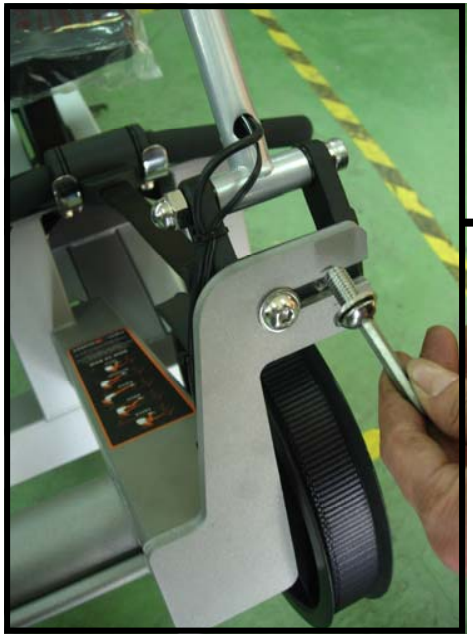
The following tools will also be required.

- C-clip pliers
- Phillips head screwdriver
- 8mm wrench
- Box cutter or other sharp implement

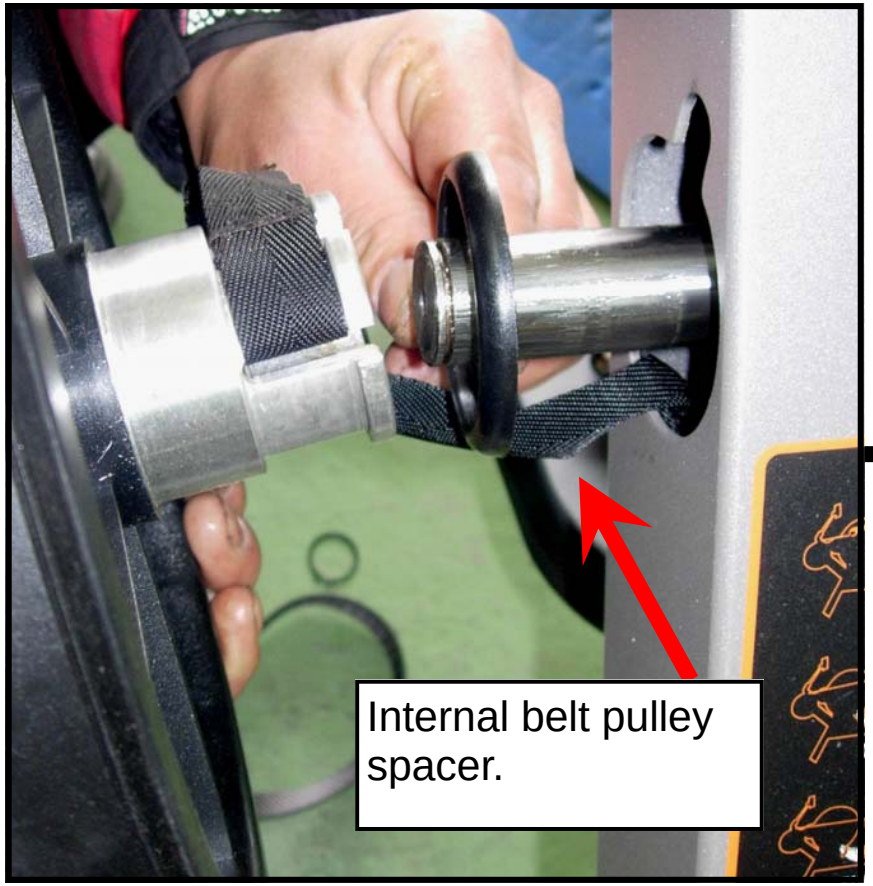
Step **1**:
Stand the rower upright (use soft surface to avoid cosmetic damage to the pulley) and remove the bungee hook from rear of seat rail as shown.

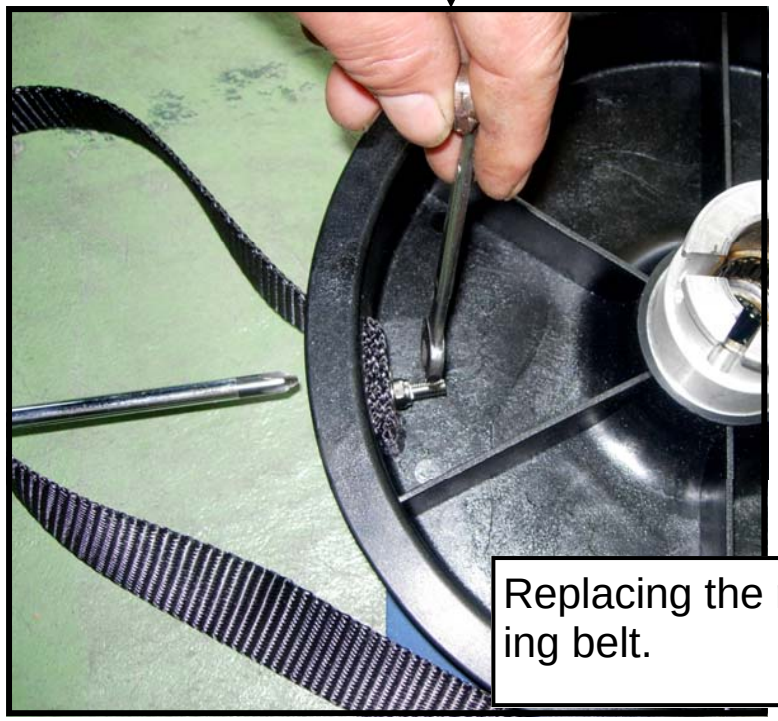
Step **3**, **4** and **5**:

With a box-cutter or other sharp implement, peel off the belt pulley sticker and discard (note that a new sticker is provided in the upgrade) Then, remove the C-clip (C-clip pliers are required) and spacer as shown below.



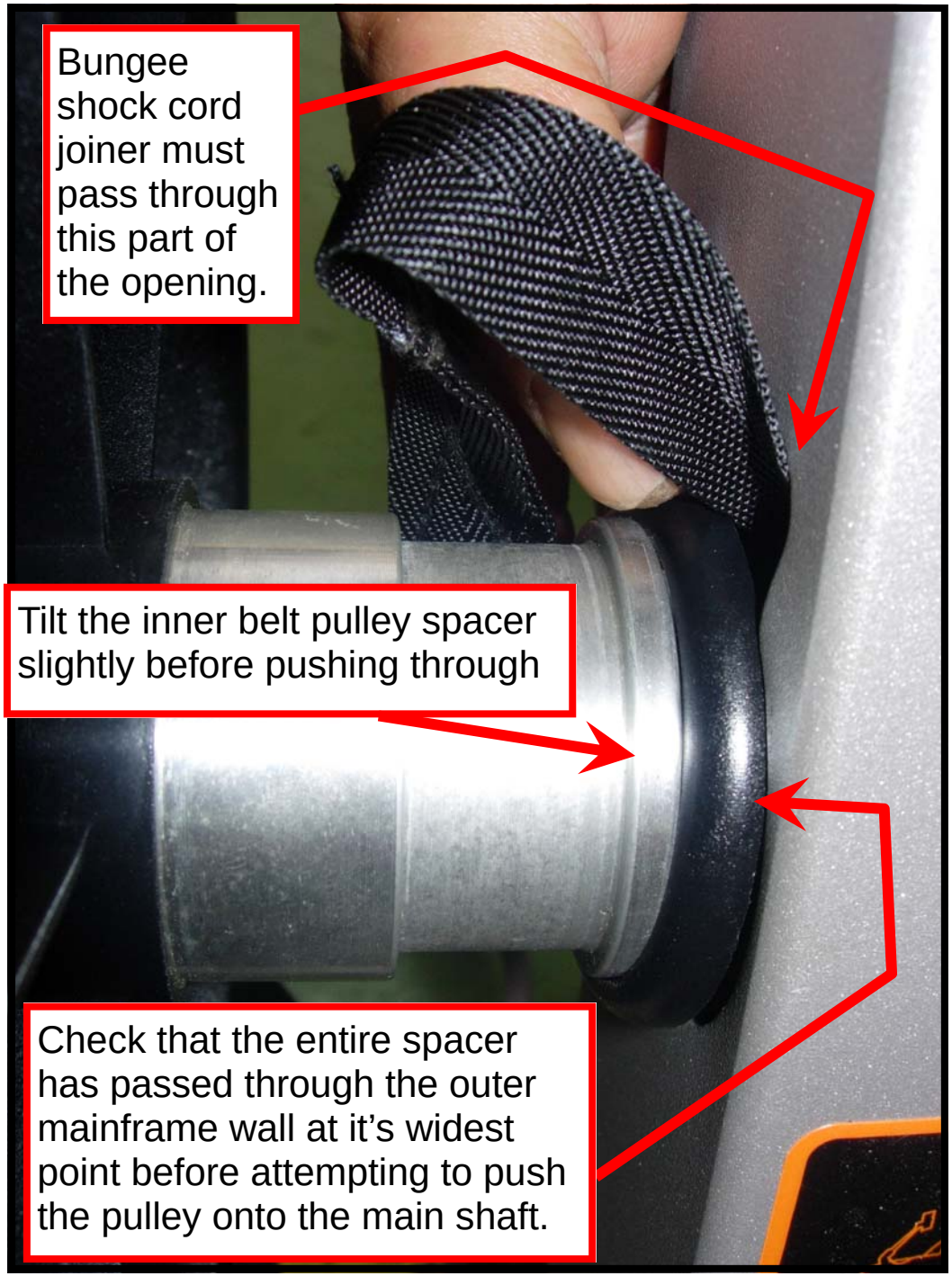
Step **2**:
Remove the computer stalk mounting bracket with a 6mm Allen Key. Use care to avoid damaging wires/leads once the mounting bracket has been removed.





Step **6,7**, and **8**:

You may now remove the ABS pulley from the main shaft. Remove the “ear” end of the bungee shock cord from the pulley, and the internal belt pulley spacer behind it. Replace the bungee shock cord if required by removing through the bottom of the mainframe. Next, with a Phillips screwdriver and 8mm open wrench, remove the rower belt from the old pulley and mount onto the replacement as shown.



Step **9**: An entire page is dedicated to the remounting of the replacement pulley onto the main-shaft. The diameter difference between the internal pulley spacer and the outer-wall opening on the mainframe can be measured in tenths of a millimeter, and thus can present a real challenge when replacing.

First, remount the bungee shock cord onto the pulley and then direct the strap toward the upper opening on the outer-wall of the mainframe hole. Note that the bungee shock cord joining strap can easily get caught between the inner belt pulley and the mainframe, preventing the spacer from passing.

Tilting the spacer slightly just before pressing the pulley into the mainframe will help. **Check all the way around the spacer to make sure the widest section has passed the outer wall of the mainframe**, and then quickly with the other hand, firmly push the pulley into the frame.

Check that the pulley spacer has seated properly by pulling on the shock cord from the bottom of the mainframe. If it feels sticky, or **not enough room is available to replace the spacer/C-clip on the outside of the pulley, the internal pulley spacer is most likely not seated properly.** This may take a few tries. Once seated properly, finish the assembly by replacing the outer spacer, C-clip and belt pulley sticker, once normal operation has been established.