Procedure 7.18 - Replacing the Disk Assembly

Diagram 1.2 shows the Version A and Version B disk assembly shafts. Version A and Version B disk assemblies are interchangeable. The part number for the Version A disk assembly is 36020-101. 36020-102 is the part number for the Version B disk assembly. You will need two 17mm open-end wrenches to remove and replace the Version A disk assembly. The Version B disk assembly can be removed and replaced with only one 17mm open-end wrench.

Removing the Disk Assembly

1. Remove the covers as described in Procedure 7.1.

WARNING
Before continuing with this procedure, review the Warning and Caution statements listed in Section One, Things You Should Know.

2. Loosen the drive belt by pushing down on the top end of the drive belt idler arm. Hold the idler arm down while you pull the belt out of the sheave rim. Place the belt on the left end of the sheave shaft.

3. Choose one:

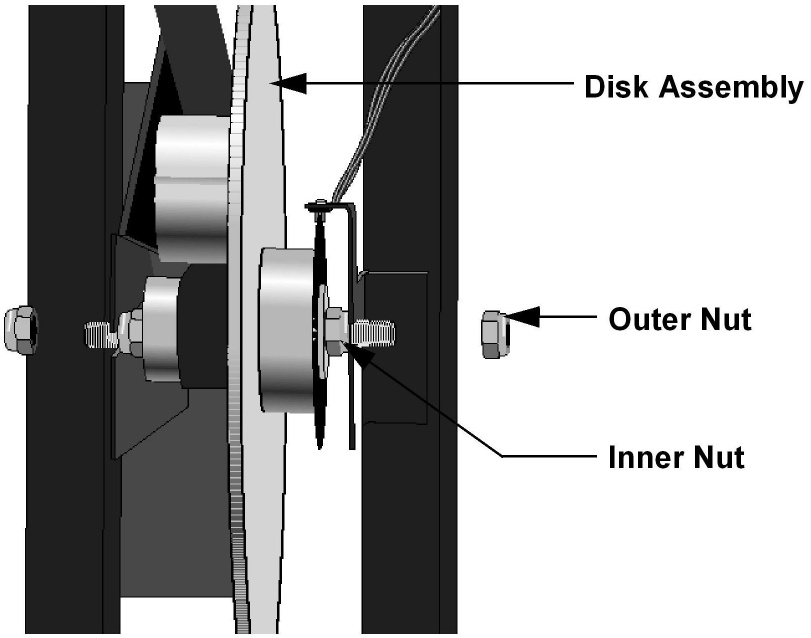
IF...	**THEN...**
You are removing a Version A disk assembly	Continue with the next step
You are removing a Version B disk assembly	Using a 17mm open-end wrench, loosen the outer nuts on each end of the disk axle (see Diagram 7.16); then skip to Step 5

4. Using one of the 17mm open-end wrenches, hold the inner nut on the disk assembly. Using the second 17mm open-end wrench, loosen the outer nut that secures the disk assembly to the disk brackets. Repeat this step for the second side of the disk shaft.

Note:
The drive belt will be hanging from the sheave shaft after you perform the next step.

5. Remove the disk assembly from the disk mounting brackets and away from the drive belt

Diagram 7.16 - The Disk Assembly



Replacing the Disk Assembly

6. Push the disk assembly through the drive belt hanging from the sheave shaft. Position the belt against the disk hub and behind the drive belt idler as you slide the disk assembly into the disk brackets. Push the disk in as far as possible.

Important
Make sure that the remote sensor assembly tabs straddle the disk target (refer back to Diagram 7.6). The outer nuts must be on the outside of the disk brackets.

7. Choose one:

IF...	THEN...
You are replacing a Version A disk assembly	Continue with the next step
You are replacing a Version B disk assembly	Using a 17mm open-end wrench, tighten the outer nuts on each end of the disk axle (see Diagram 7.16); then skip to Step 15

8. Thread a nut onto the longer side of the disk shaft. Using one of the 17mm open-end wrenches, hold the inner nut on the disk assembly. Using the second 17mm open-end wrench, tighten the outer nut that secures the disk assembly to the disk brackets. Repeat this step for the second side of the disk shaft.

9. Place the 0.030" feeler gauge between an inner nut and the disk assembly.

10. Choose one:

IF...	**THEN...**
The feeler gauge fits snugly	Skip to Step 15
The feeler gauge does not fit snugly in the gap between the inner nut and disk assembly	Continue with the next step

11. Remove the disk assembly from the climber as described in Steps 4 and 5. Set the disk assembly on a work bench or table.

12. Using the 17mm open-end wrench, loosen one of the inner nuts on the disk assembly. Place the feeler gauge between the disk assembly and the inner nut.

13. Using the 17mm open-end wrench, tighten the inner nut you loosened in the previous step. Remove the feeler gauge from the disk assembly.

14. Install the disk assembly on the climber as described in Steps 6 through 8.

15. Stand at the back of the climber and face the disk assembly. The drive belt must be positioned over the disk hub and behind the idler pulley (see Diagram 7.16). Line up the drive belt in the center of the grooves on the disk hub.

16. Mount the drive belt on the sheave by performing the following substages:

    a. Kneel on the right side of the climber and face the sheave.

    b. Hold the drive belt between the 12 o'clock and 3 o'clock positions on the sheave rim.

    c. Turn the sheave counterclockwise.

Note:
As you move the sheave, the belt will position itself on the rim.

    d. Grasp the drive belt at the 4 o'clock position.

    e. Turn the sheave counterclockwise to fully seat the belt on the sheave rim.

Note:
Make sure that the belt is on the sheave rim before you continue with this procedure.

17. Kneel behind the stair arms. Press down on the ends of the stair arms. Watch the drive belt as it moves on the sheave, drive belt idler, and disk hub.

18. Choose one:

IF...	**THEN...**
The drive belt has a tracking problem	Continue with the next step
The drive belt tracks correctly	Skip to Step 21

19. Remove the set screws that secure the sheave to the sheave shaft. Gently tap the sheave to re-position it on the sheave shaft.

20. Add a drop of blue loctite to the tip of each set screw. Using the 1/8" allen wrench, replace the set screws on the sheave hub.

21. Return to Step 17.

22. Inspect the gaps between the disk and the magnet assemblies as described in Procedure 5.1.

23. Check the operation of the climber as described in Section Four, then replace the covers as described in Procedure 7.1.