

## Replacing the Infinity 4000™ Gear System Converting the Infinity 4000™ Motor Side

In some situations, the Double Dog Gear on the Infinity 4000™ may require replacement or repositioning. A gear can become worn down after time. In some circumstances it may be desired to convert the motor side of the mechanism from RIGHT to LEFT or vice versa. This procedure will instruct the technician on making these adjustments.

**Step 1:** Access the mechanism motor end. Release the motor end from the housing and the roll-up tube. Pull the motor end from the Housing and place it on an uncluttered, level surface. **(Fig. 1)**

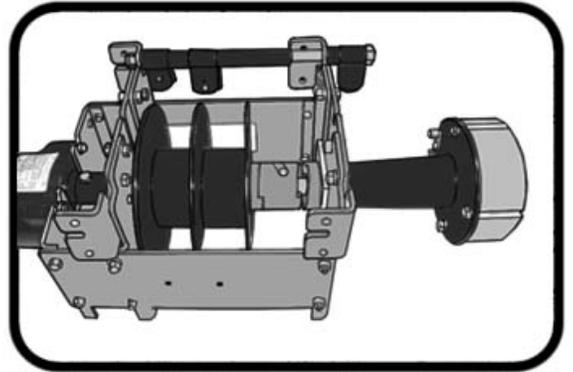


Fig. 1

**Step 2:** Use wrenches to remove each of the four mounting brackets from the body of the mechanism. **(Fig. 2-3)**

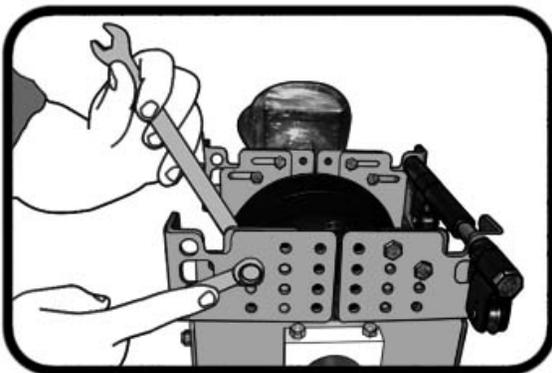


Fig. 2

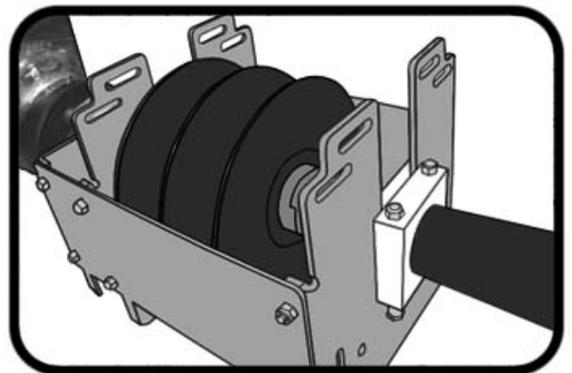


Fig. 3

**Step 3:** Use wrenches to remove the motor collar. **(Fig. 4)**

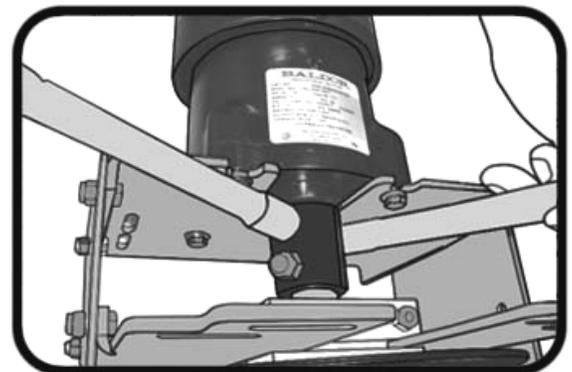


Fig. 4

**Step 4:** Lift the rope reel / end-casting assembly from the mechanism frame. **(Fig. 5)**

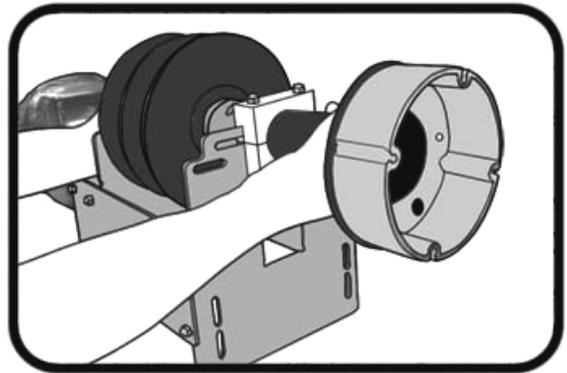


Fig. 5

**Step 5:** Set the rope reel / end-casting assembly on its head. This will make disassembling the part much easier. **(Fig. 6)**

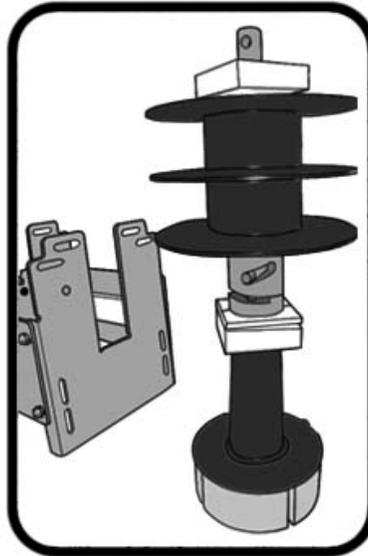


Fig. 6

**Step 6:** Take the assembly apart by removing the rope reel from the shaft. **(Fig. 7)**

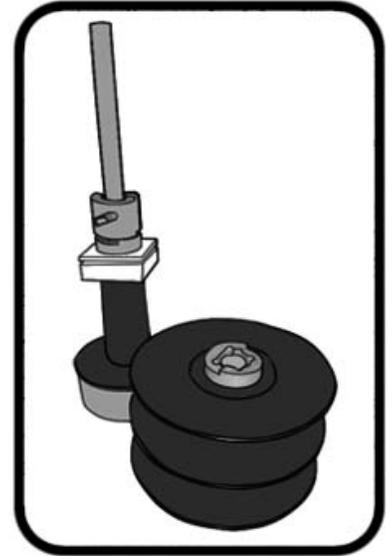


Fig. 7

**NOTE:** Steps 7 - 9 should be followed only if: a) the part being discussed is in bad repair and requires replacement, or b) a complete movement of the motor from one side of the pool to the other is desired.

**Step 7:** Isolate the Double Dog / Main Shaft Assembly. If requiring replacement, this entire assembly must be replaced. **(Fig. 8)**

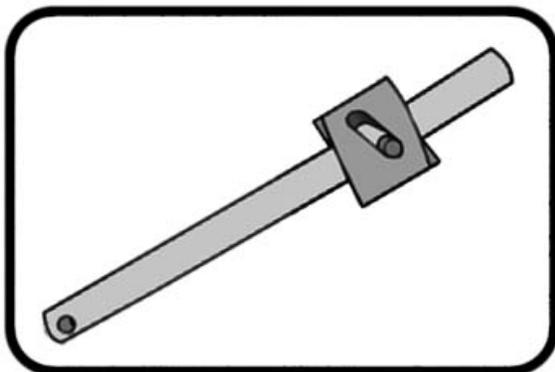


Fig. 8

**Step 8:** Use an allen wrench to remove the single dog gear from the end-casting. **(Fig. 9)**

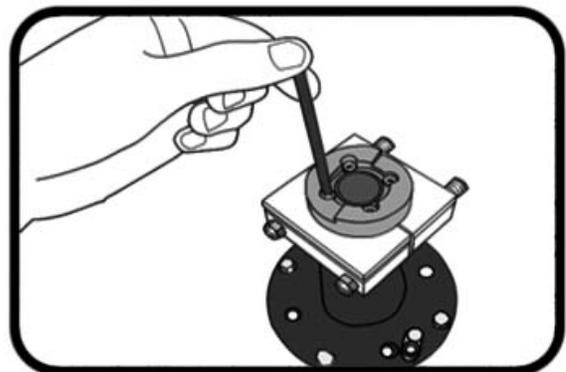


Fig. 9

**Step 9:** Use an allen wrench to remove the single dog gear from the rope reel. **(Fig. 10)**

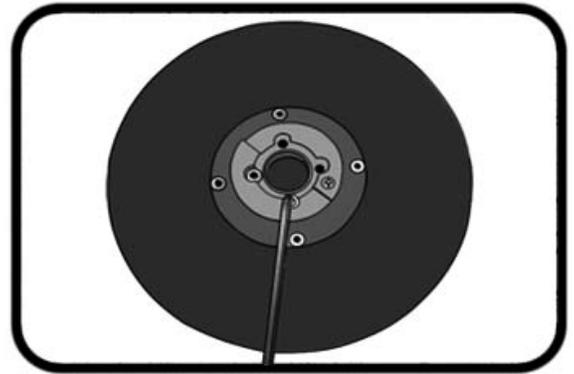


Fig. 10

**Step 10:** Replace the part(s) that have become flawed. If moving the side of the pool that houses the motor, replace each gear with the appropriate side-specific part.

**Step 11:** Reassemble the Rope Reel / End-Casting Assembly and place it into position inside the Infinity frame. Make sure the Motor Shaft and the Main Shaft are lined up. **(Fig. 11)** Secure the two together by placing the split motor collar over the shaft ends and tightly securing it.

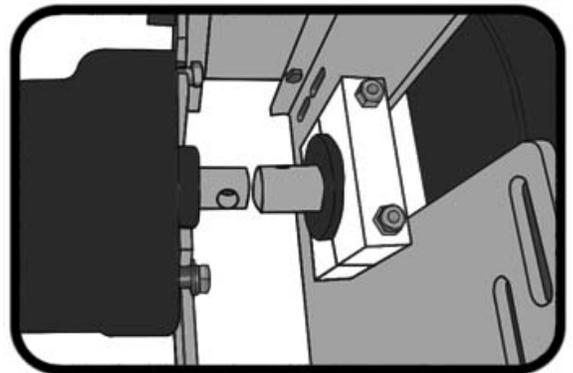


Fig. 11

**Step 12:** If you are moving the motor from one side of the pool to the other, it will be necessary to rearrange the Pulley / Mounting Bracket assembly. To do this, simply recreate the assembly in its mirror image, as shown in Fig. 12-13.

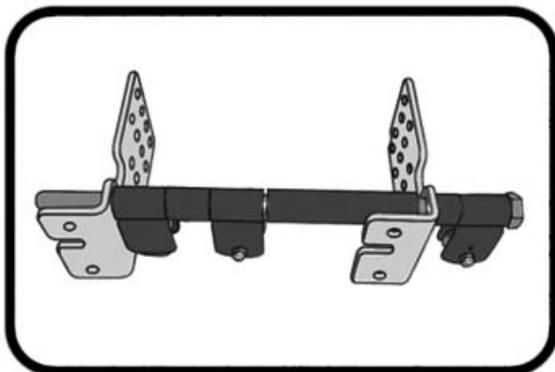


Fig. 12

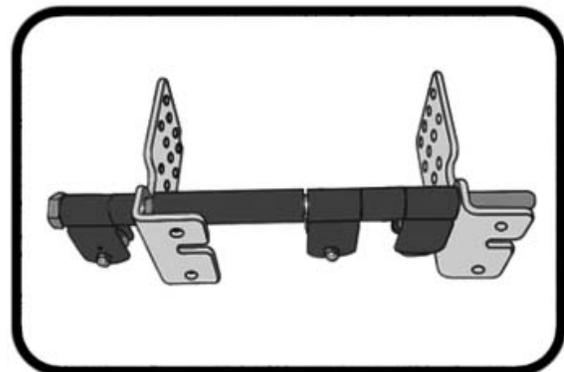


Fig. 13

Reattach the Mounting Brackets to the Mechanism and reinstall the Motor End Mechanism inside the Housing. Keep in mind that the Pulleys must be attached at the back (*non-pool side*) of the Housing.