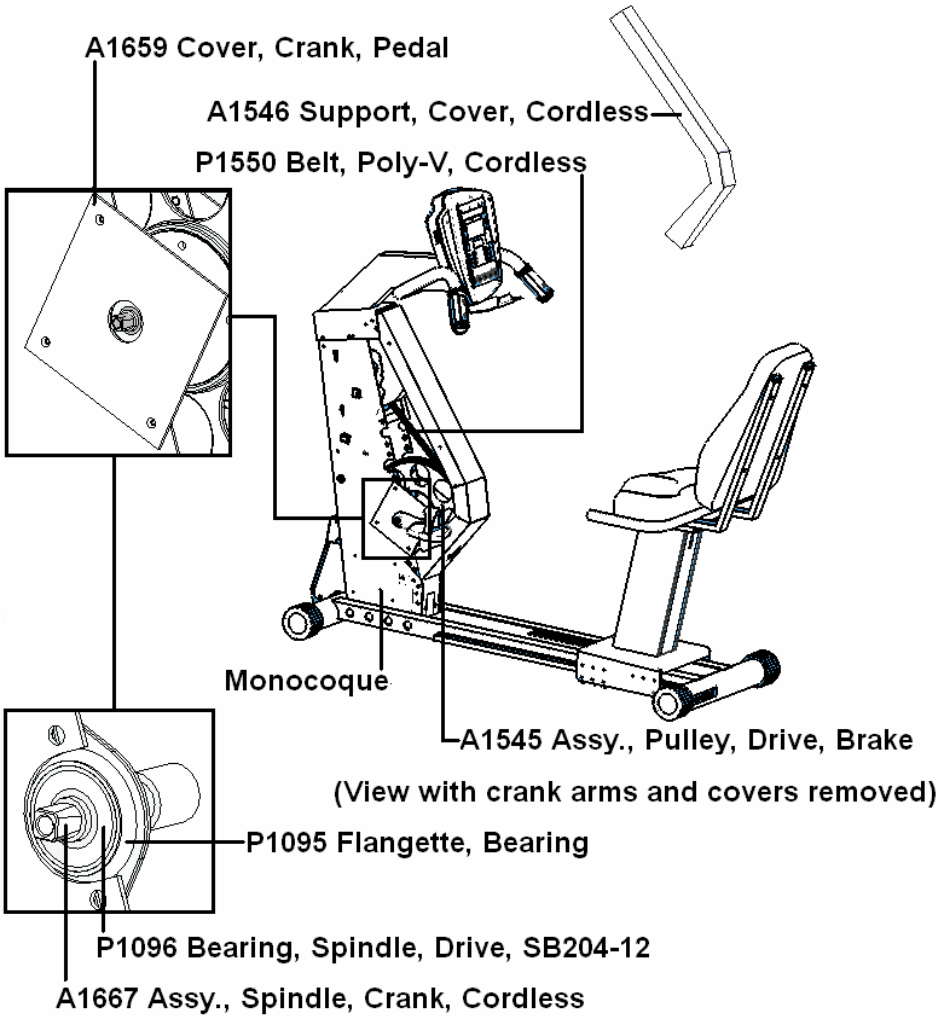
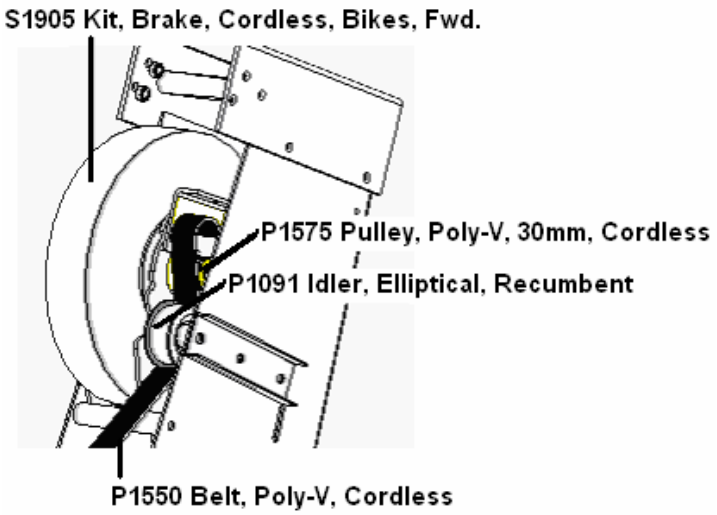
ISO1004R Spindle Crank / Bearing Replacement



1. Remove the crank arms, using the Crank Arm Removal / Replacement procedure.
2. Remove covers and water bottle holder, if mounted to the covers.
3. Remove pedal crank covers (A1659).
4. Mark the position of the flangettes (P1095) on the monocoque. Mark flangettes in at least two positions each.
5. Loosen the set screws on each bearing collar (P1096), using a 1/8" Allen wrench. There are two set screws on each bearing collar.
6. Move the crank spindle assembly (A1667) to the left until you can access the nuts on the backside of the flangettes mounted to the left side monocoque. This step may require the use of a plastic or rubber mallet. ***Do not use a metal hammer. This can flare the end of the shaft so bearings will not be able to be removed.***
7. Using a ½" wrench and socket, remove the nuts, washers, and bolts mounting the flangettes to the monocoque.
8. Unhook the poly-v belt from the brake drive pulley (A1545).

9. Slide the spindle assembly and brake drive pulley out of the machine.
10. Transfer the bearings and flangettes over to the new spindle assembly. ***Make sure the bearing collars are facing towards the inside of the machine.***
11. Install the new spindle assembly into the monocoque. The flangettes mount on the inside of the monocoque.
12. Run each bolt from the outside in, through the flangette mounting holes in the monocoque, both flangettes, followed by the lock washer, and hex nut. ***Do not tighten down.***
13. Line up the marks you made on the flangettes and monocoque, then tighten the bolts and nuts.



14. Place the belt onto the brake pulley. Loop the belt under the idler (P1091). Start the belt onto the back of the drive pulley (A1545). Move the crank arm in a forward motion to rotate the drive pulley, thus feeding the belt onto the drive pulley. ***Warning: Keep hands clear of the underside of the belt. Failure to do so could result in serious injury, including the loss of a finger. There will be approximately 110 lbs. of tension on the belt.*** If necessary, use a blunt object to push the belt when feeding it onto the drive pulley. Make sure the belt is in all grooves on the pulleys and is not rubbing on the side of the brake or idler. Rotate the drive pulley until the pulleys are all lined up and the belt is centered on both pulleys and the idler.
15. Tighten the set screws on both bearing collars.
16. Install pedal crank covers.
17. Install covers.
18. Reinstall the crank arms by reversing the Crank Arm Removal / Replacement procedure.