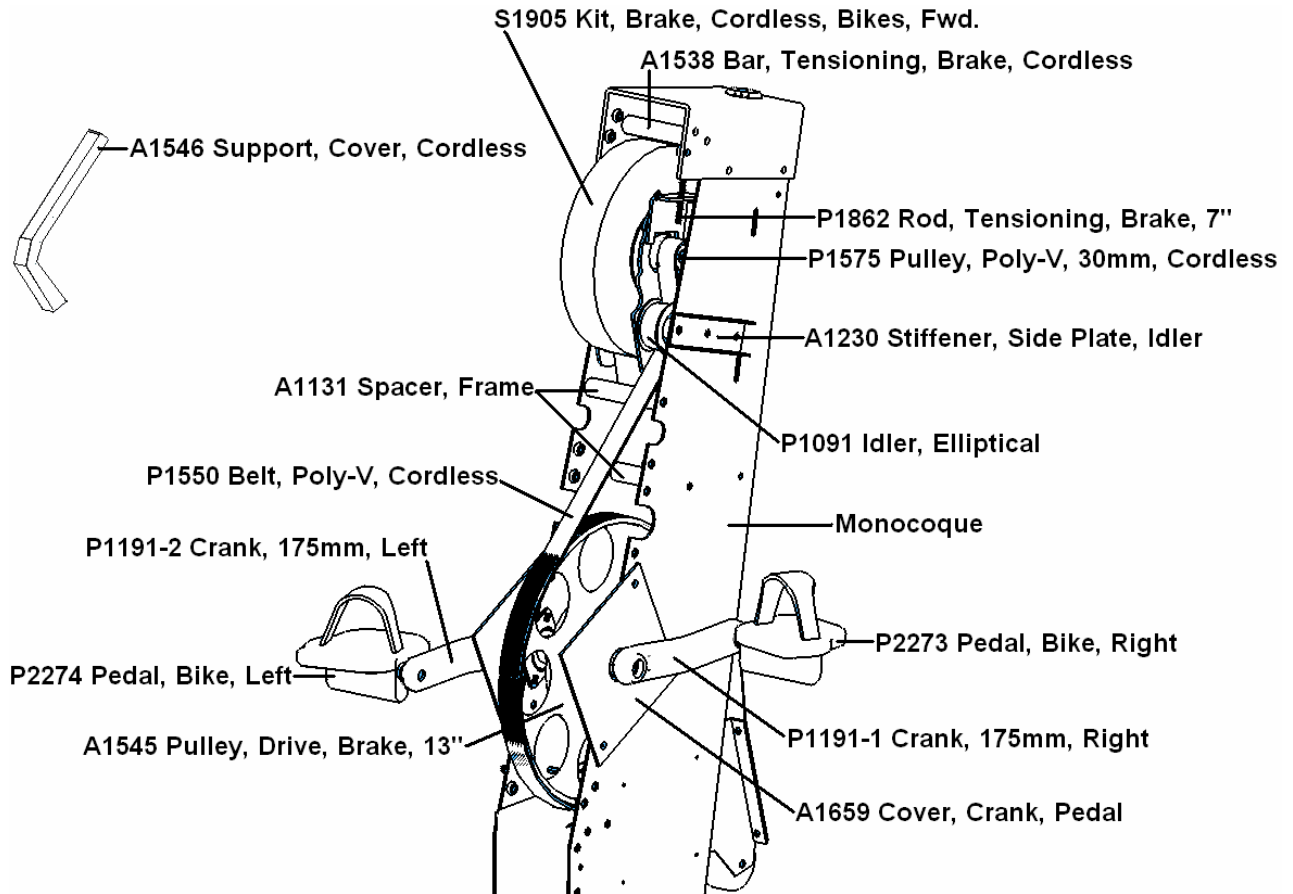


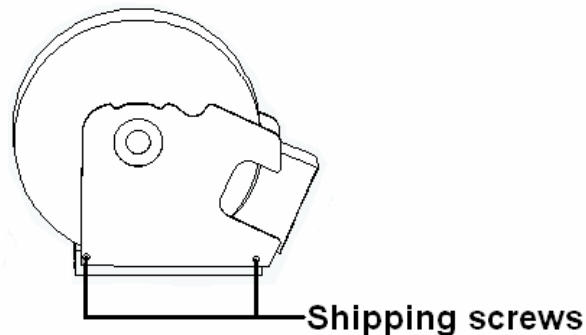
ISO1004R Brake Replacement



Removal

1. Remove covers and water bottle holder, if mounted to the covers. A Philips screwdriver is used to remove the covers on newer units. For older units, a 1/8" Allen wrench or socket is required.
2. Remove the cover support (A1546), using a 1/2" wrench or socket. Four (4) bolts are located at the top of the support and two (2) at the bottom. Older machine only had two (2) bolts located at the top.
3. Disconnect both cables connecting to the brake. One cable connection is located inside the monocoque and connects to the coil on the bottom of the brake. The other cable runs up the outside of the left side panel of the monocoque and connects to the brake.
4. Mark the position of the brake on the sides of the monocoque. Four (4) brake mounting bolts are located on the outside of the monocoque.
5. Loosen the four black 10mm bolts mounting the brake (S1905) to the monocoque.
6. Back the brake tension bolt (P1862) off, four (4) to five (5) turns to relieve belt tension. On newer machines, a 3/8" wrench is used. The older machines require a 5/32" Allen wrench.

7. Loosen the two (2) bolts that mount the tensioning bar for the brake (A1538) to finger-tight. The tensioning bar will later be used as a handle to remove the brake.
8. Remove the four (4) black 10mm bolts mounting the brake (S1905) to the monocoque. The brake will be supported by the two (2) tensioning bar bolts, which should be finger-tight from the previous step.
9. Remove the Poly-V belt from the brake pulley (P1575).
10. Make sure all wires to the brake are disconnected and out of the way.
11. While holding the tensioning bar firmly, remove the tensioning bar bolts.
Warning: The brake weighs approximately 40 lbs.
12. While holding the tensioning bar with one hand, cradle the bottom of the brake with the other hand. Pull the brake towards you, channeling the idler pulley through the obstructions on the side of the brake.



Installation

Installation is reversal of the removal procedure with the following exceptions:

1. Verify the Philips shipping screws have been removed from new brake.
2. Remove tension bolt and brake tensioning bar from the old brake and install on the new brake.
3. Before installation of the belt, return brake to original position marked on the sides of the monocoque. This action will preset the brake belt tension to its original setting. When the brake is at its original position, tighten the four (4) black 10mm bolts. Make sure all other bolts are tight and the cover brace is in place before the belt is installed on the brake pulley.
4. 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. If it is rubbing, use a flat-head screwdriver to move the belt over on the drive pulley while rotating until the belt is centered.
5. Reattach wires to the brake.