



BEARING REPLACEMENT GUIDE FOR POOL PUMP MOTORS

Step 1: Identify your motor number.

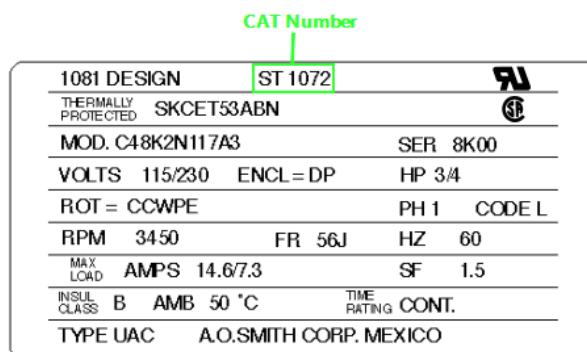
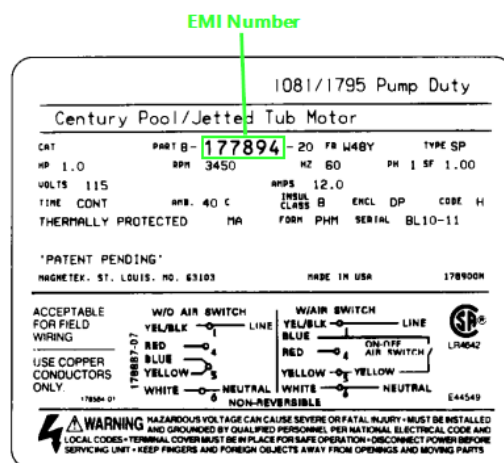
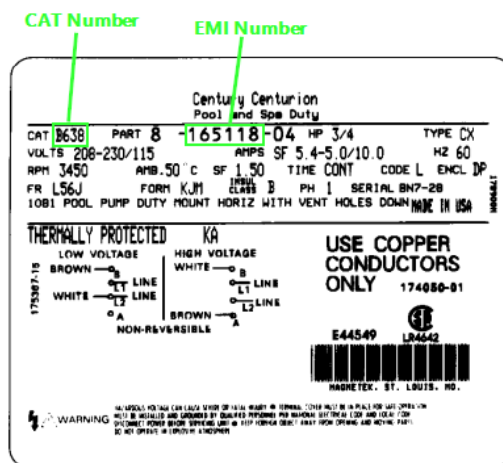
Depending on manufacturer and generation, your motor number may be in several different places on the motor nameplate (data sticker).

For purposes of this guide, we will focus on the numbers referred to as “PART” and “CAT”

For the 9-digit PART number (formatted as X-XXXXXX-XX), we are only concerned with the middle six digits, known as the EMI number. For example, if your PART number is “8-165118-04” you would search for EMI number “165118”

CAT numbers are typically preceded by “CAT,” but are often on the middle of the top of the sticker.

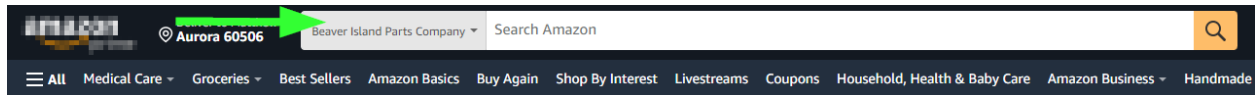
Please see examples below:



Step 2: Search

Click this link for the [Beaver Island Parts Company storefront](#)

Type your part number into the search bar and hit ENTER.



Beaver Island Parts Company also offers convenient pump rebuild kits, and spare parts for most pool pumps. You can search in the same box above.

Step 3: Order

You may have noticed that there are two variations for each bearing set:

One that includes the bearing puller, and one that does not. If you have one, great; if not, we can save you a trip and any potential frustration.

If you cannot find the correct bearings for your motor, please contact us for assistance!

Step 3: Fix

Now that you have the correct parts, the fun begins!

Please see the steps below for replacing your motor bearings.



Please be safe. Disconnect power and wear the proper safety gear before starting.

Continue reading on next page...

Videos are also available online from various motor manufacturers and others.

HOW TO REPLACE BEARINGS:

These instructions explain the correct method of motor bearing removal and replacement. If a bearing is noisy or does not run smoothly, it should be replaced. If a bearing has been removed for any reason, it should be replaced with a new one. As a rule, if it is necessary to replace one bearing, replace the other as well. Use only Beaver Island Parts Company bearings with the proper part number for the motor that you are working on. Beaver Island Parts Company bearings are lubricated and require no further attention during their life. Do not substitute or reuse old bearings because this could damage the motor and cause a return service call.

1. TURN THE POWER OFF
2. Remove the cover from the motor and disconnect the electrical supply leads from the terminal board. Then remove the electrical cable or conduit from the end frame.
3. Remove the motor from the pump unit.
4. Mark the brackets and frame of the motor, to assure correct alignment of these parts when reassembling them.
5. Remove the rotor and shaft from the frame of the motor, following these steps as necessary:
 - a) Take out the thru-bolts that secure the brackets to the frame.
 - b) Remove the bracket opposite the shaft by placing a screwdriver blade in the notches of this bracket and tapping the handle of the screwdriver.
 - c) Remove the locking collar screws and washers if their use prevents removal of the rotor assembly from the shaft end bracket.
 - d) Carefully pull the shaft/rotor assembly out of the shell or stator toward the shaft extension end.
 - e) Be careful not to lose the washer and bearing load spring that is positioned in the bottom of the bearing bore of the bracket opposite the shaft extension. Be sure to replace this spring during reassembly.
6. Remove the bearing(s) from the motor shaft, following these steps as necessary:
 - a) Remove shaft collars used to secure bearings. Do not reuse a bearing that is removed from the shaft.
 - b) Use bearing puller tool to remove bearings from shaft.
7. Install the new shaft bearings. It is important to press only on the bearing inner race. The bearing will be damaged if the outer race surface is pressed.
 - a) Fan end. Place the short end of the shaft on a wood block. Place the bearing (and other parts used) over the long end of the shaft. Tap the bearing into place, using the proper size tube and a mallet. Attach any other parts (as used) to the long shaft end.
 - b) Opposite end. Place the long end of the shaft on the wood block. Place the bearing over the short end of the shaft. Tap the bearing into place, using the proper size tube and a mallet.
8. Reassemble the motor in reverse of the disassembly procedure.
 - a) Observe all reassembly precautions.
 - b) Check wiring diagrams to assure proper wiring if the leads have been removed from the terminals.
 - c) TURN ON THE POWER. Check the motor for proper electrical and mechanical operation when it has been reinstalled.

