

## Clutch Cover Bolt & Clutch Case

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**All clutch cases are made of soft aluminum, whether it is a Honda or Yamokoyo. To prevent stripping of threaded holes in soft aluminum, here are some helpful suggestions. . .**

- Make sure that your threads are clean all the way to the bottom of the hole. Many times chips are packed down into the bottom of the hole, and must be picked and blown out.
- Always use a bolt that is long enough to engage all of the available threads to spread out the load, we offer a longer bolt for the 5.5 hp and 6.5 hp engines (part number 56-222).
- Not all holes are drilled and tapped as deep as others. You may find it necessary, on occasion, to use our cover bolt spacer washer (part number 95-423). You would place one, sometimes two, under the head of the bolt if it hits the bottom in the hole.
- Do not use Loctite on threads, instead lubricate threads with clean motor oil and never tighten cover bolts more than **84 inch/lbs. 75 inch/lbs** is enough to keep them tight. PLEASE NOTE: If your gasket surface is truly clean and no bits of old gasket or sealer are on it anywhere, a new gasket will seal perfectly every time. Tightening the bolts more than required will not seal any better, so always CHECK AND CLEAN your gasket surface and use a new gasket without any sealer for great results!
- If you do not have a torque wrench, use a ¼ inch drive ratchet and be VERY careful.
- We have Helicoil inserts and Helicoil tools for repair of damaged threads. These work very well and you end up with a better hole thread than brand new.
- Never try to drill an oversize hole to put the next larger diameter bolt into the clutch case, because that is too big of a jump in size and there is not enough material in the case. Once you have drilled it that big, you can no longer use the Helicoil insert to fix it.
- If your existing cover bolts have worn or even slightly damaged threads, DO NOT REUSE THEM! Throw them away and buy new bolts. We have found that although grade 8.8 or better is not needed as a strength requirement for this application, it is a better bolt to use because the threads are better formed and are less apt to contribute to stripping in the aluminum.
- We sell all of these items for your convenience. Give us a call if we can help.

By following these suggestions,  
you can extend the life of your clutch cases indefinitely and  
**Save a lot of money!**