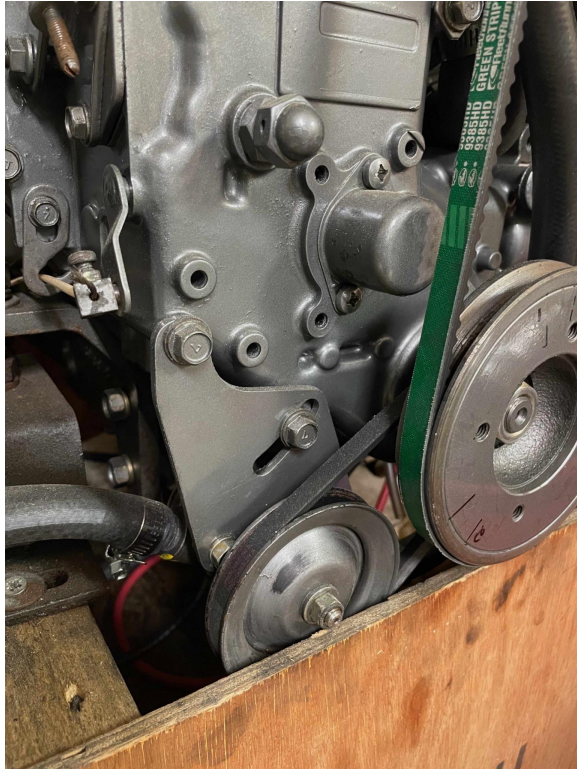


The raw water pump on the 2GM and 3GM series has the raw water pump mounted in such a way that requires removal of the pump to access the impeller for service. Yanmar fixed this in the YM series and I heard of others who used the YM bracket to reverse the pump orientation. This appealed to me because I really didn't like having to remove and retorque the mounting bolts every year. I bought the bracket (PN 128990-42151) and sorted out the installation.

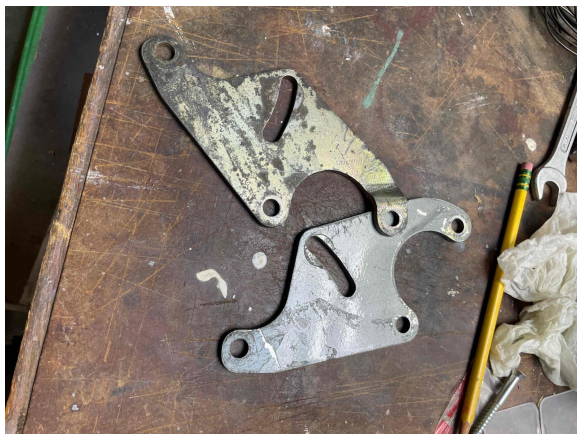


Factory raw water pump installation requires removal of pump and bracket for service.



Pump alignment on new YM series bracket mounted directly to the timing case.

With YM bracket mounted directly to the timing case and the pump mounted on the bracket the pulley was properly aligned. This meant the bracket to provide additional support needed to be added to the backside. I had a spare water pump bracket and decided to use it to create a strongback support for the YM bracket. With a vice and hammer I created an offset equal to bracket thickness, cut off unused portions and added a hole for the bottom sliding adjustment. A also tapped a hole in the YM bracket to align with the slotted hole in the old bracket.



Offset created on bracket tab.



Back bracket mounted on YM bracket



Modifications to original bracket to serve as strongback bracket for YM bracket



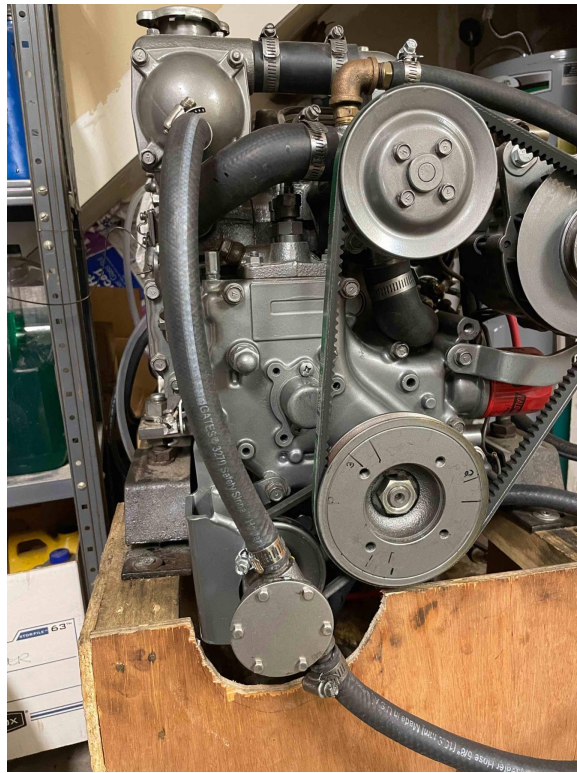
Strongback bracket mounted on YM bracket with 2 points of attachment. I also found it necessary to enlarge the upper slotted hole to allow enough movement for adjustment



Back bracket offset to timing cover case



Rotated pump requires 2" in front of pulley



Finished installation.

Since the pump can be mounted 180 degrees either way the outlet could be from the top or the bottom. Understand the pump moves water the long way around, I chose outlet up to eliminate the molded factory hose and feed the heat exchanger more directly.

I know many are OK with the factory installation but I'm happy with this upgrade and feel it was worth a \$60 bracket and a few hours to complete. I'm looking forward to my next impeller service.