MudPuppy Int’l

Sand Guzzler Assembly Instructions
Tools Required for Assembly

- 3/16” Allen Wrench
- 5/32” Allen Wrench
- 3/4” Socket Wrench
- 7/16” Socket Wrench
- 1/2” Socket Wrench
- Loctite or other brand of thread locker
- Torque Wrench
Assembly Step by Step Instructions

Step 1
- Take Impeller and place on work surface Impeller side face down, smooth side up.

Step 2 *If using Polly Impeller please skip this step.
- Install Splined Hub into Impeller by placing Hub into center hole of impeller with splined side up.
- Insert 5/16 x 1” Flat Head Socket Bolts through hub into the threaded holes of the impeller & tighten in a X pattern using a 3/16” Allen Wrench. Then check that all bolts are securely tightened to insure flush mounting.
- Torque Spec: 13 lb-ft.

Step 3
- Put Impeller assembly aside
- Put Top Plate on work surface with the top face up.
Step 4
- Take the Splasher plate groove side up.
- Slide Splasher Plate between the opening of the Top Plate until the Splasher plate is in the center hole of the Top Plate.

Step 5
- Place the Top Plate & Splasher Plate onto the Impeller Assembly with the Hub side up. The Splasher Plate will slide onto the lip (spline) of the Hub.
- Make sure the holes in the Splasher Plate align with the threaded holes on the Hub.

Step 6
- Apply a generous amount of Thread Locker to the ¼” x ½” Flat Head Socket Bolts.
- Place bolts through the Splasher Plate into the threaded holes on the hub.
- Tighten the first bolt then the second with a 5/32 Allen Wrench.
- Check bolts to ensure they are properly tightened.
- Torque Spec: 6.3 lb-ft.
Step 7
- Place the Hydraulic Eaton motor spline side up onto your work surface.
- Slide Hub Spacer groove side down onto the spline of the motor.

Step 8
- Pick up assembled Top Plate/Impeller Spline side down, Impeller side up & place on spline of the Eaton motor.
- When putting the two together align the spline grooves till Hub slips on motor

Step 9
- Place a 5/16” Lock Washer onto a 5/16” x 2” Grade 8 Bolt followed by a 5/16” flat washer and insert it into the middle hole on the impeller side as shown in picture.
- Tighten with a ½” socket wrench.
- Once bolt is tightened spin the impeller to make sure the splasher plate is not bound to the top plate.
- Torque Spec: 13 lb-ft.
Step 10
- Hold Motor & Impeller together while flipping over till the Impeller side is on the work surface.

Step 11
- Rotate the Top Plate to align the threaded holes of the top plate with the holes on the motor mount.

Step 12
- Use two ½” x ½” Bolt, two ½” Lock Washer, & two ½” Flat washer to secure the motor to the top plate. Use a ¾” socket wrench to tighten the bolts 1 at a time then check that both bolts are securely tightened.
- Torque Spec: 57 lb-ft.
Step 13 (Old Style Pumps Only)

- Install two \( \frac{1}{4} \)" x 3/4" Bolts into the remaining threaded holes into the top plate.
- Use a 7 1/16" socket wrench to tighten the bolts.
- Torque Spec: 6.3 lb-ft.

Step 14

- Put sand Guzzler housing on work surface.

Step 15

- Place the Top Plate/Impeller/Motor assembly onto the pump housing.
- Align the holes on the Top Plate with the threaded holes on the pump housing.
- *Note- Ensure the case drain is facing in the desired direction.
Step 16

- Install eight 5/16” x 1”, eight 5/16” Lock Washer, and eight 5/16” Flat Washer through the Top Plate into the threaded holes of the pump housing.
- Tighten with a ½” Socket Wrench in a star pattern until all bolts are tight.
- *Note - When assembling a T11 Sand Guzzler it requires 12 Bolts, Lock Washer, & Flat Washer in the same size as above.
- Torque Spec: 13 lb-ft.

This is what your assembly should look like after completed.

If you have any questions or concerns please contact us.

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