

# Olson Kustom Works

17404 147th St SE, Unit M, Monroe, WA 98272  
(949)742-0613 Jesse@OKW-Inc.com

## Magnuson Blower Tub Spacers

Thank you for your purchase from OKW. If you have any questions about your products feel free to call or email!

This spacer system was designed with every aspect covered. Fitment, performance, and appearance have all been a high priority from conception to shipping! Please read this manual completely before starting this install.

The Magnuson tub spacers come in both square port and cathedral port versions, and are not interchangeable. Make sure you have the correct spacer for your application. The square port tubs are flat at the back by the firewall, and the cathedral port ones are rounded.

The bolt lengths from Magnuson, as well as the additional length needed are as followed (some tubs or older kits may vary):

10x 6mm bolt, 90mm long (main tub to head bolts)

2x 6mm bolt, 40mm long (front of tub)

2x 6mm bolt, 35mm long (rear of tub)

For tub spacers only, you add length to ALL bolts. For head plates, you add length to only the 10 main tub bolts. For head spacers AND tub spacers, you need to add to ALL bolts, with extra given to the main 10 bolts. If you have any questions feel free to call!!!

If the lower tub uses plastic spacers to support the brick, please contact us and we will make them to order, as they are different heights depending on blower configuration.

1/4" add 5mm

1/2" add 15mm

3/4" add 20mm

1" add 25mm

Parts List for 1/2 tub spacer only:

1 Spacer Assembly

10 6mm Bolts x110mm (these go into the heads)

2 6mm Rear Tub Bolts x50mm (rear tub)

2 6mm Front Tub Bolts x55mm (front tub)

24 6mm Washers (we include 10 extra for the long bolts, in case they are a little too long)

- Remove the upper blower assembly. You don't have to remove the lower tub from the heads unless you are planning on changing the gaskets. Refer to the instructions that came with your Magnuson kit on how to remove the blower and upper tub. This may include removing some of the fuel and intercooler items.
- The Magnuson supplied gasket cord and 10 O-rings in the lower tub will be reused or replaced as needed. Contact Magnuson or SCOL for replacements if needed.

- Once the gasket and O-rings are in place, set the spacer on, making sure that it lines up all the way around.
- Phenolic material does not like gaskets or grooves cut into it, so there are no gaskets to go from the spacer to the upper tub.
- Clean the underside of the upper tub, making sure there is no oil/grease/coolant on it.
- Apply a small (and I mean SMALL) amount of RTV (any color, preferably grey or black) along the top of the spacer, careful not to move it out of alignment. Use your finger to spread it evenly, there only needs to be a very thin layer to seal. The Phenolic will compress a bit and take shape of what its bolted to, the RTV is really only a formality.
- With the help of a friend, wife, etc (or if you are really buff), set the blower back down on the tub with the spacer installed. Take 2 or 3 of the long 6mm bolts, and work them down to where they start to thread into the heads. Use these to align the blower, spacer, and lower tub all together. The spacer should sit almost perfect to the lower tub all the way around.
- Install the rest of the long 6mm bolts, with washers, into the tub and start them all into the heads.
- Install the front and rear bolts, with washers.
- Hand tighten all 14 bolts.
- Wiggle the blower back and forth, to make sure its "centered" on the engine. There is quite a bit of movement in these setups, and if they are not aligned they can cause belt issues.
- Once everything is aligned, start at the middle of the tub, and working in a criss-cross pattern, torque the bolts in 2 stages, 44inlb, then 89inlb. NOT FOOT POUNDS. This should be done with a 1/4 torque wrench. MAKE SURE THAT THE 10 LONG BOLTS DO NOT BOTTOM OUT BEFORE ACTUALLY TIGHTENING DOWN. If the bolts stop spinning or reach torque and the washer is still loose, add the additional washer, or 2 to each bolt. 105mm is the perfect length for the tub bolts, but they are not a size that is made.
- Reverse the rest of the procedure from when the blower was removed.
- Since phenolic will compress a bit to form to its mating surfaces, after 2-300 miles of driving (or about 10 heat cycles), recheck the torque on all 14 bolts to 89inlb.

Again, if you have any questions or issues, feel free to contact us via FB messenger or text message for the fastest response!!!