

*About MAX BMW Motorcycles Machine Shop Articles: 2017 brings MAX BMW's Machine Shop to full operational status and a series of articles on our individual machines and operational practices. In this series, we highlight some of the specific equipment, tools and jigs we have developed to come to the exacting standards of ultimate quality, attention to detail, accurate measurements and swift turnaround of customer jobs.*

# MAX BMW

## Motorcycles

ARTICLE 7  
June 15, 2017

### **A detailed look at repairing damaged exhaust spigot threads.**

In a previous article, we demonstrated our process for repairing damaged exhaust spigot threads ([Link](#)).

We have recently improved on this service and lowered the price at the same time.

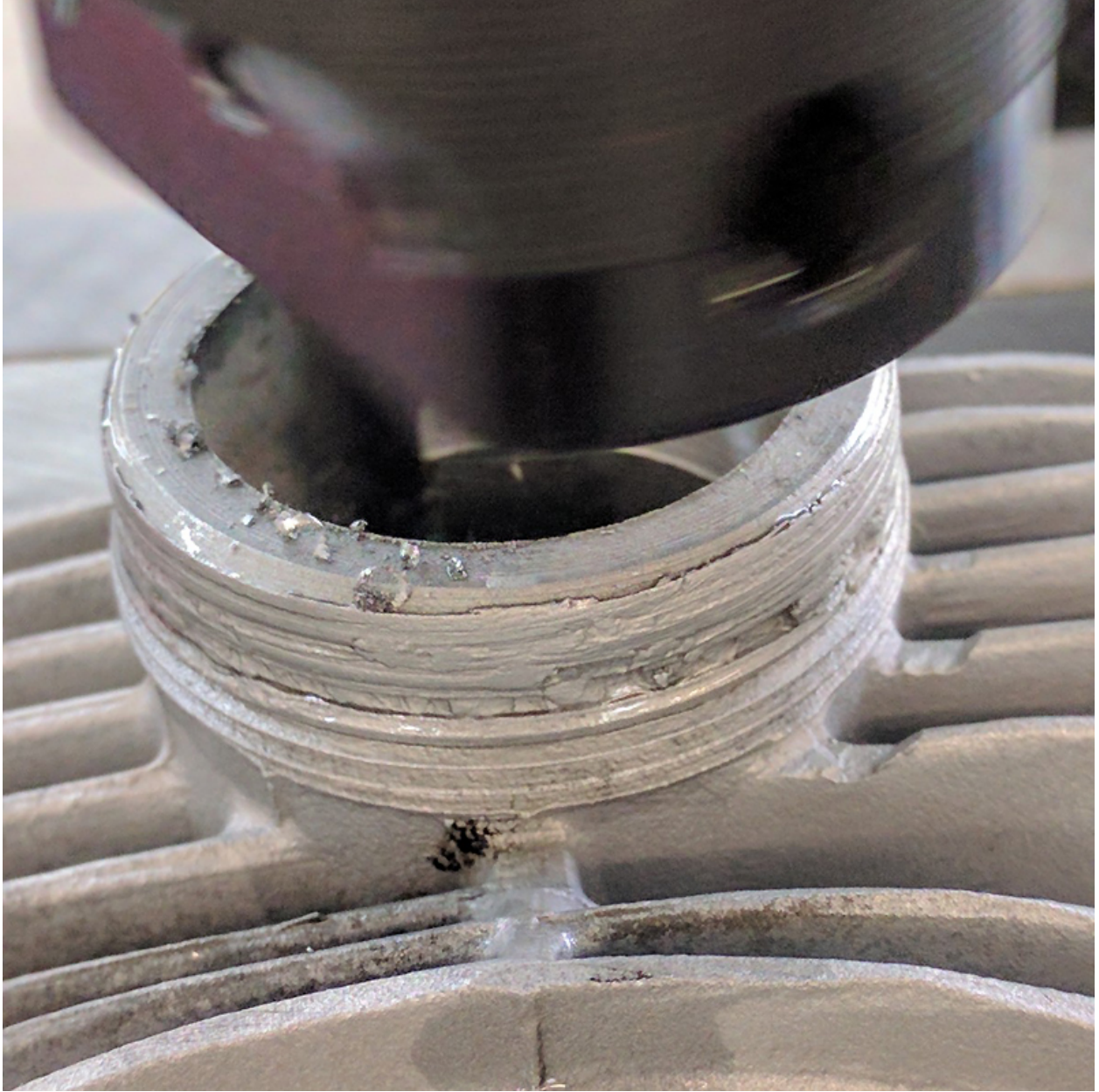


Instead of using a threaded ring welded onto the header gasket flange then machined flat, our new exhaust spigot design employs a counter bore in the head after the old threads have been completely removed.



Our new, machined spigot then fits snugly into the counter bore and is welded on the inside of the exhaust port. By doing this we avoid any possibility of damaging the new threads during welding and create a better finish that is invisible to the untrained eye. It has the added benefit of eliminating any corrosion and pitting that has developed inside the port as well. We are able to produce this new design at a lower price and save you money.

Damaged threads:



**Corroded and pitted port:**



Damaged threads:



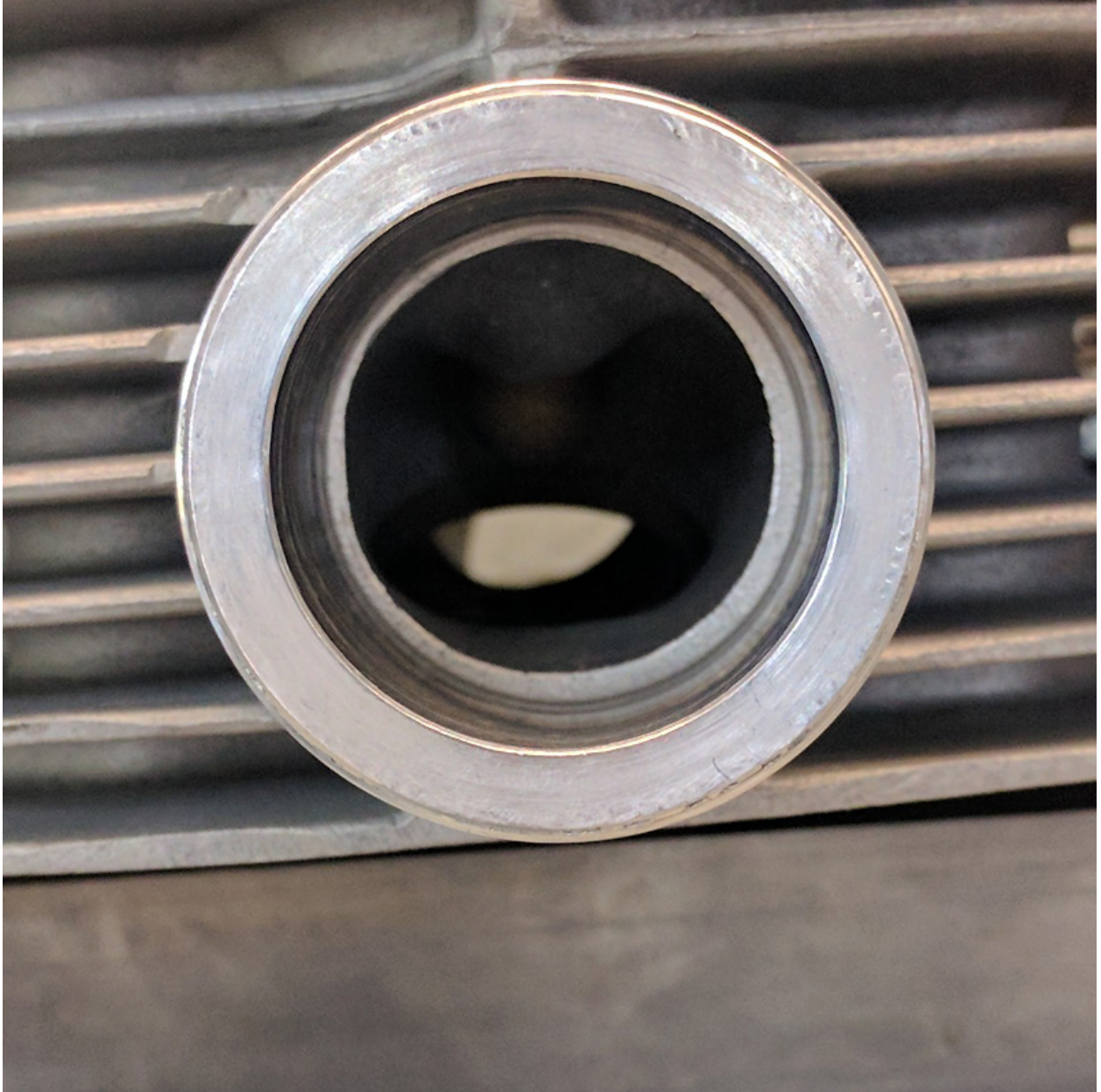
**Removing old threads:**



Old threads machined off:

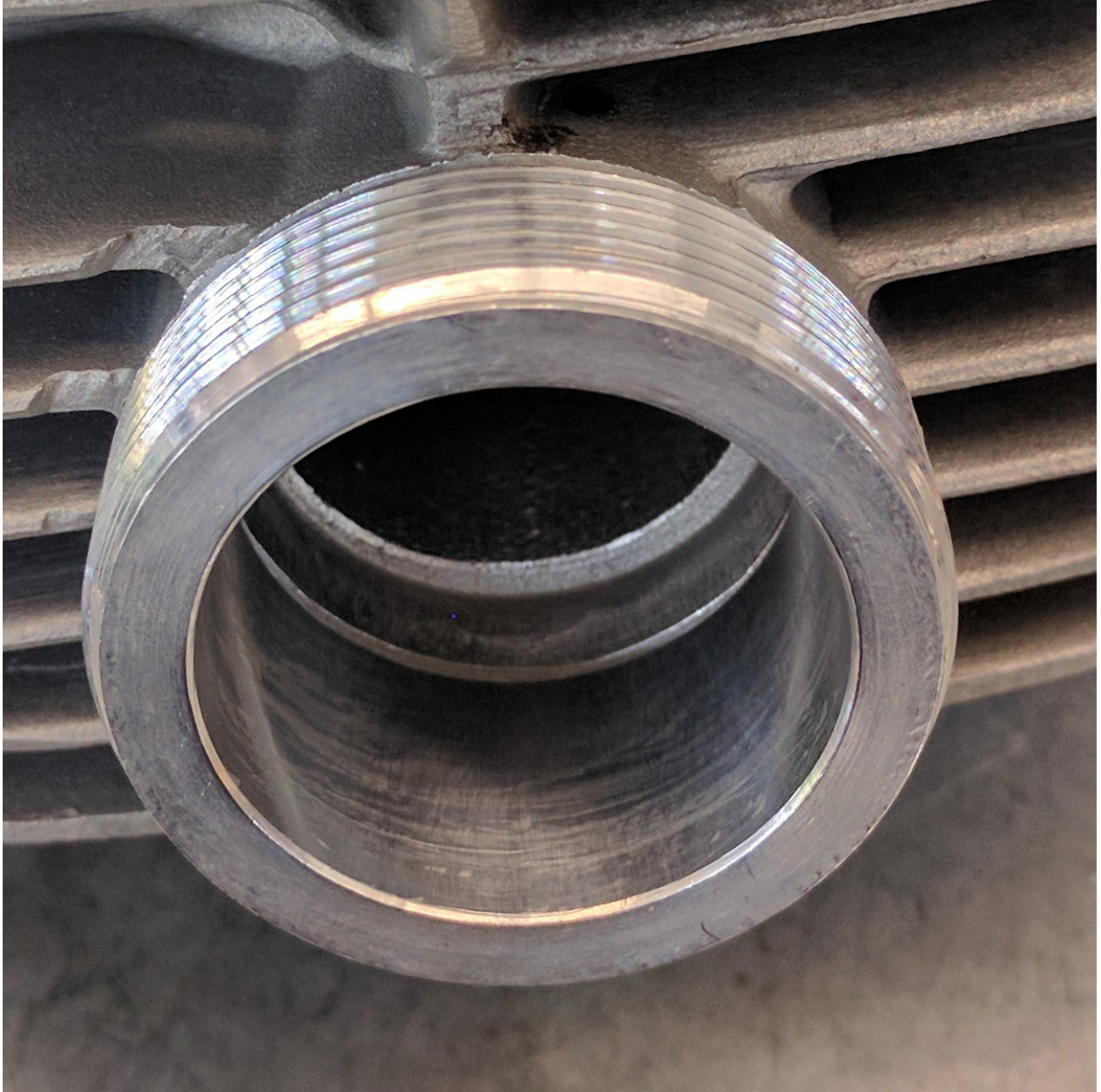


Old threads machined off:

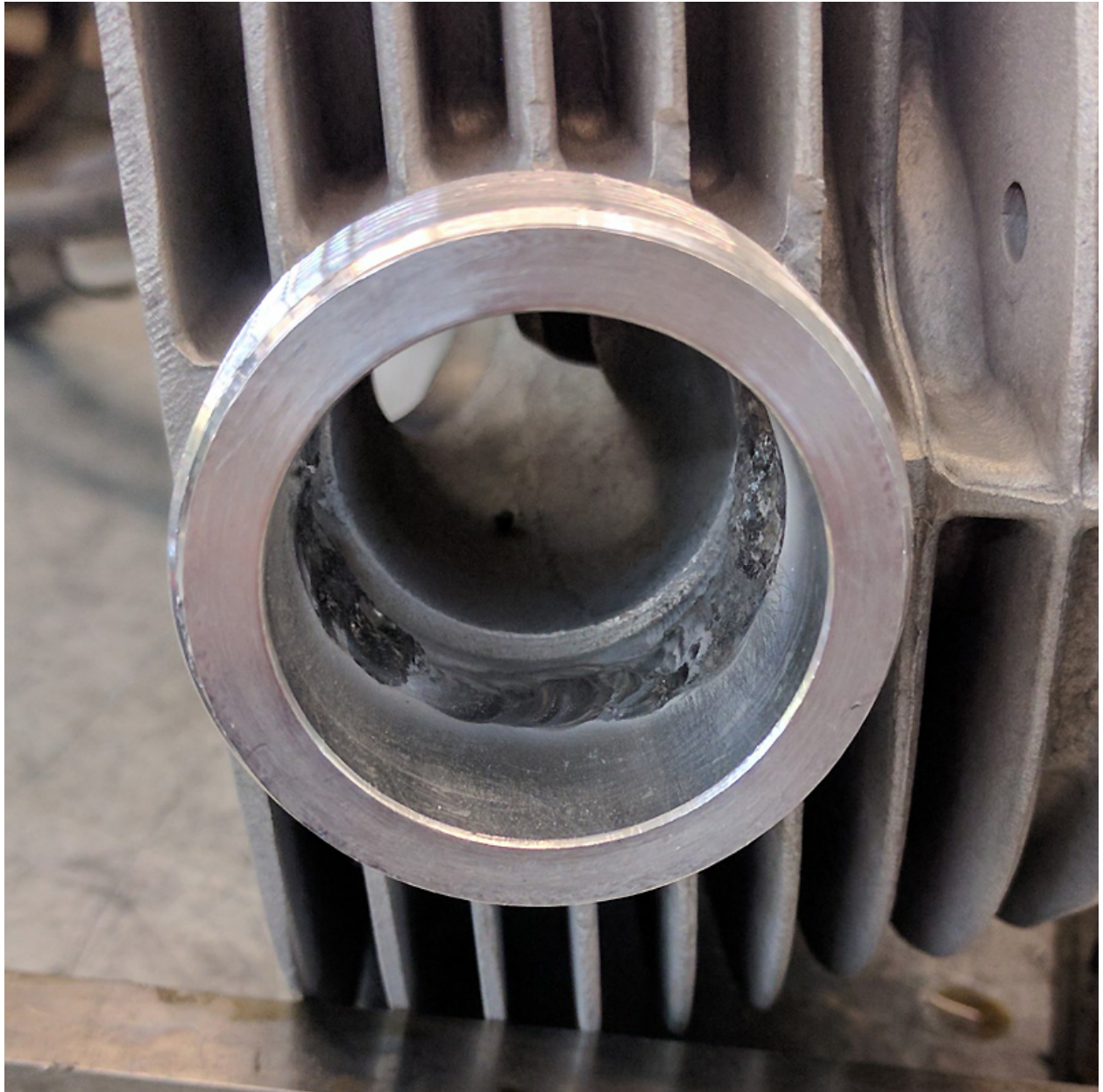




New threads installed prior to welding:



New threads welded in:



Final results with weld cleaned up:



**Finished results (inside view):**



*Our machinist, Nathan, cut his teeth in the machining industry starting with a degree in Automotive Restoration and in High Performance Engine Machining. He worked in Tennessee and North Carolina building 900+ hp dirt race engines as well as working a stint in the world of NASCAR. Coming to MAX BMW has allowed him to further focus his skills by taking advantage of specialized BMW training. Pursuing his love of these bikes inspires Nate in developing custom adapters and fixtures, unique to MAX BMW, aiding in broad restoration abilities and enhancing the high-performance side of BMW Motorcycles.*

See our Machine Shop page at: <https://www.maxbmwmotorcycles.com/max-bmw-machine-services.html>