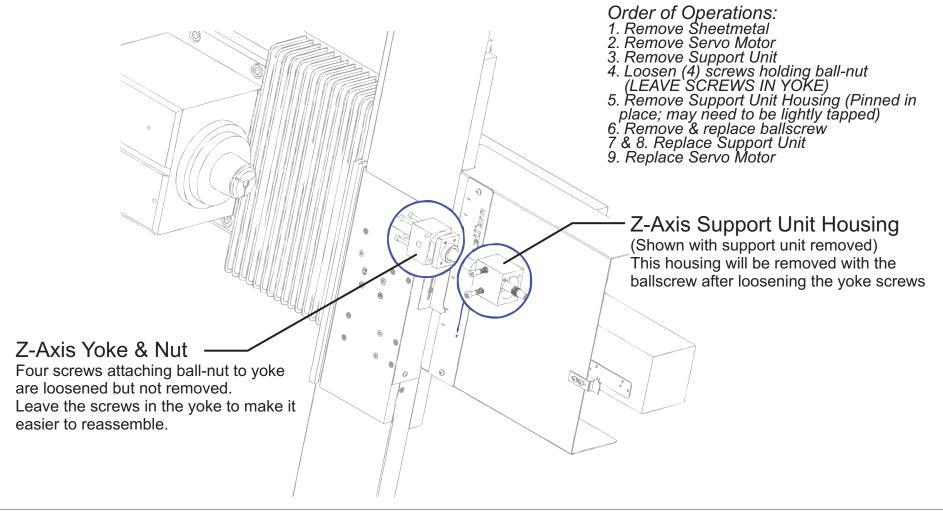
To replace Z-axis ballscrew without removing X-axis components

When rebuilding an OmniTurn slide, all the precision components are replaced. The tooling plate and saddle are removed to gain access to the z-axis components, then the slide is re-assembled with new linear rails, bearings, ballscrews and support units.

Occasionally, though, only the z-axis ballscrew needs replacement. This document describes how to remove & replace the z-axis ballscrew w/o removing the x-axis components. The 'trick' is to loosen the screws that hold the ball-nut to the yoke, but leave them in place for easy re-assembly, and to release the support unit housing so it comes out with the ballscrew.

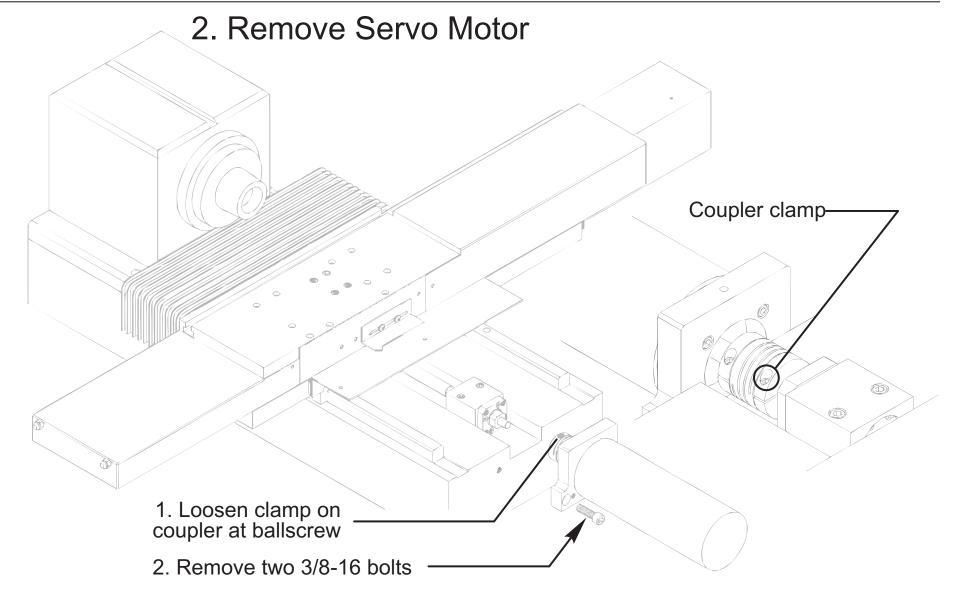




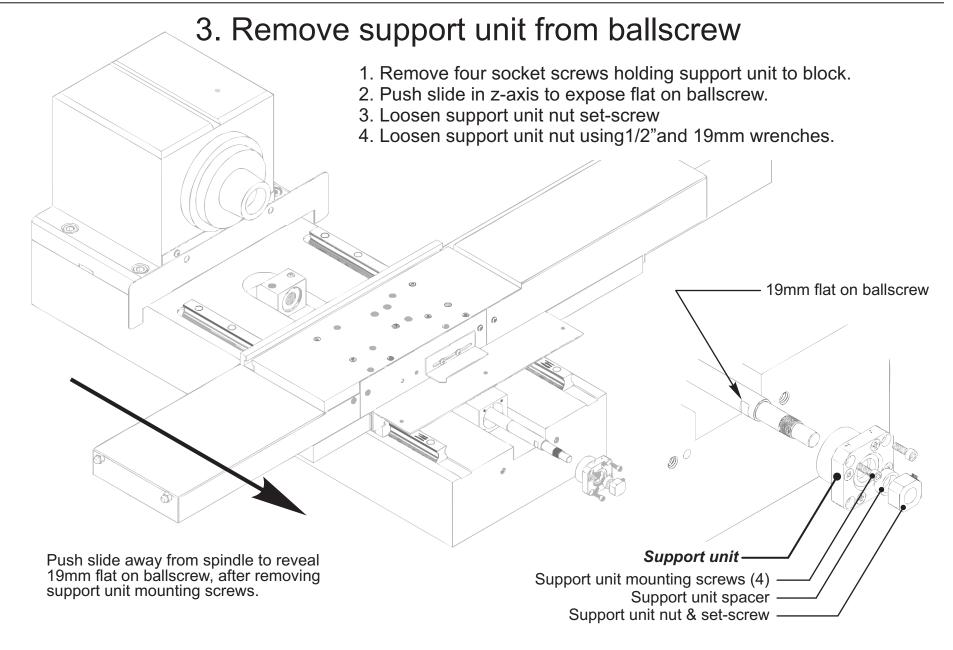
1a. Remove Sheet Metal (Current) Motor Coupler Servo Motor -2. Remove One Screw -Motor Cover 1. Remove Three Screws Way Cover Support Unit

1b. Remove Sheet Metal (Old Style) Motor Coupler Servo Motor -2. Remove One Screw -Motor Cover Way Cover Support Unit 1. Remove Two Screws (underneath Way Cover at saddle)





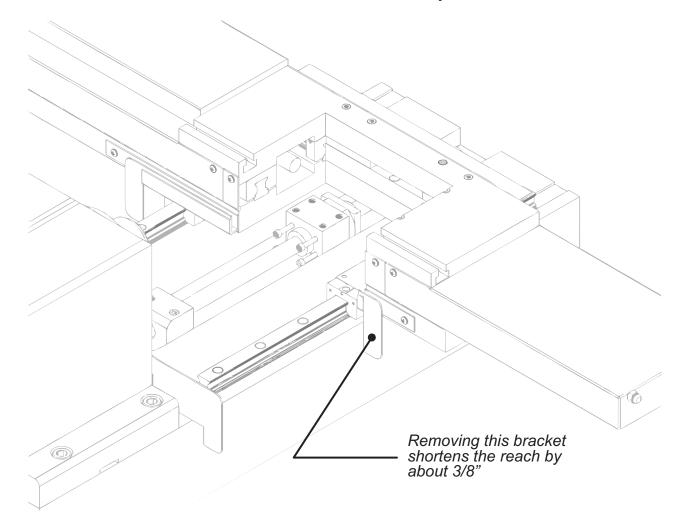




4. Loosen (4) screws that attach ball-nut to yoke

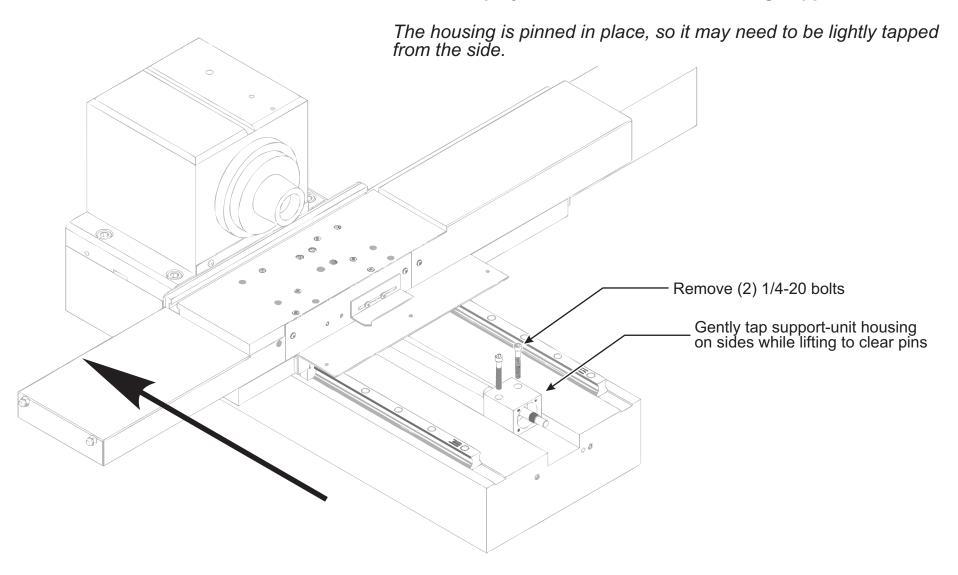
Leave screws in yoke to facilitate re-assembly. If they fall out, it's hard to get them back into the holes in the yoke.

Remove accordion way cover, then position slide so you can reach the screws with 5/32 hex key.



5. Remove support unit housing

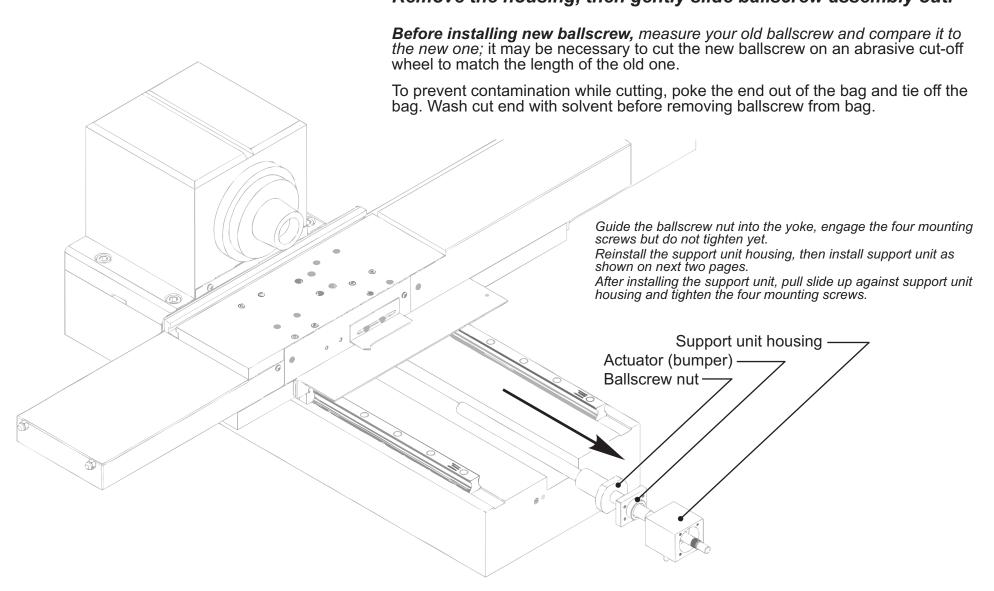
Gently push tooling plate all the way to headstock to allow maximum play in ballscrew while removing support unit housing.





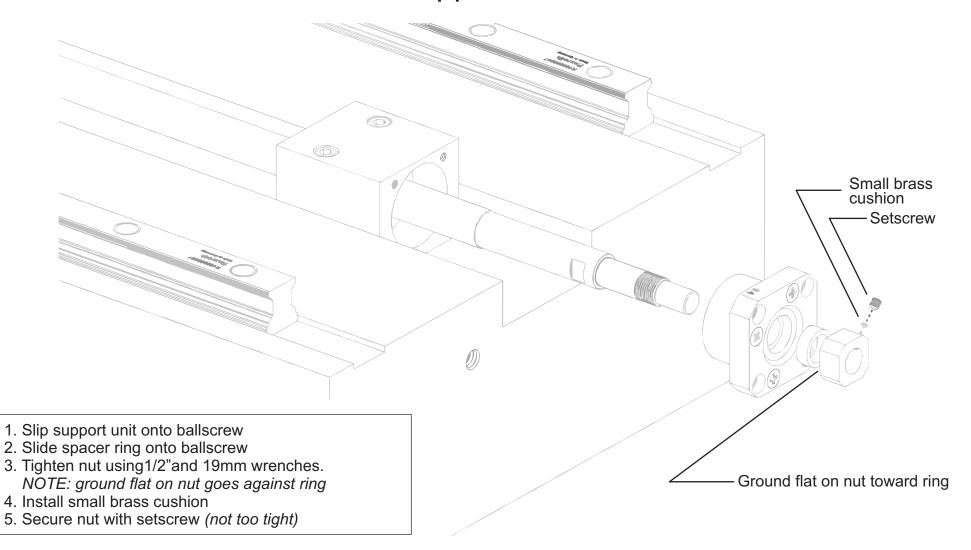
6. Remove and replace ballscrew

Remove the housing, then gently slide ballscrew assembly out.

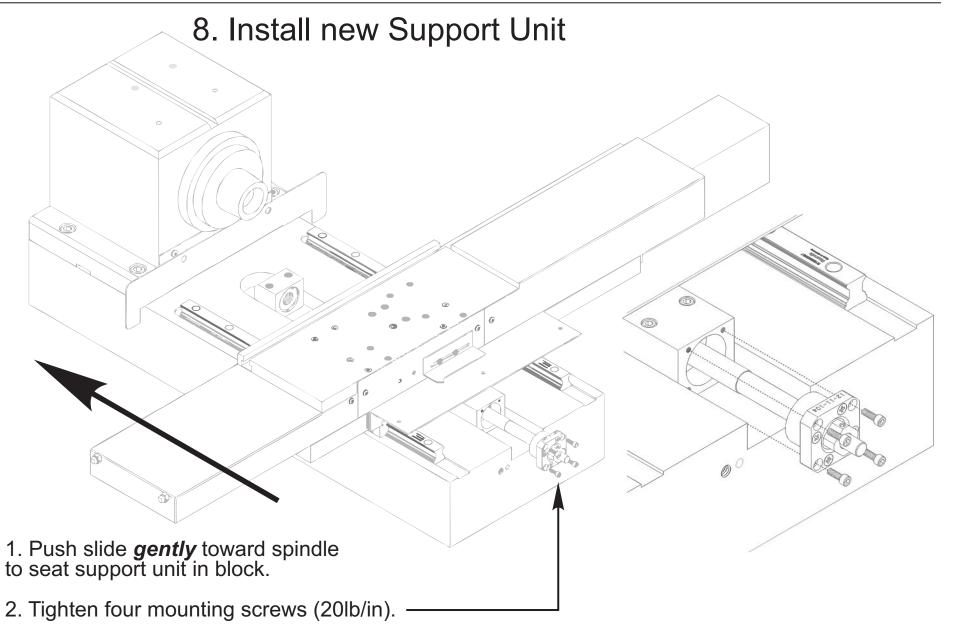




7. Attach new support unit to ballscrew









9. Replace Servo Motor

