

Assembly Instructions - 0.4 hp. (Angle Head)

Angle Head Assembly:

1. Use the RAISED CENTER of the 96243 Bearing Press Tool and the arbor press to install the 54542 Bearings (2) onto the 54549 Work Spindle and the 54541 Spindle.





 Use the RAISED CENTER of the 96418 Bearing Press Tool and the arbor press to install the 54537 Bearing onto the 54549 Work Spindle.



3. Use the **54536** Shim Pack. **Notice:** Shim pack contains .002" (0.05 mm) and .005" (~0.13 mm) thick shims. To start, install a .002" (0.05 mm) thick shim into the **54547** Angle Housing.

Install **54549** Work Spindle with bearings into the angle housing.

 Use the 96165 Pin Wrench to install the 54550 Bearing Cap hand-tight.
 LEFT HAND THREAD Turn counterclockwise.





- **5.** Rotate the work spindle to check the fit in the angle housing. The spindle should turn smoothly. Also, check axial movement of the spindle.
 - **a)** If spindle rotation is rough, remove the shim and check rotation again.
 - b) If there is axial movement, add shims as required.



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Disassembly/Assembly Instructions

- 6. When the adjustment is correct, apply Loctite #7649 Primer to the threads of the 54550 Bearing Cap. Apply a small amount of Loctite #567 (or equivalent) to the threads of the bearing cap. Use the 96165 Pin Wrench to tighten the bearing cap. (T to 1.2 N•m/~11 in. lbs.)
- 7. Install the 95398 Bearing onto the 54541 Spindle. Notice: If necessary, use the RAISED CENTER of the 96243 Bearing Press Tool and the arbor press.
- 8. Install the **54541** Spindle with bearings into the housing.



Install the **54540** Retaining Nut. (**T** to 34 N•m/~300 in. Lbs.)

9. With the **54541** Spindle secured in the angle housing, shake the angle housing assembly to check movement of the spindle assembly. **Notice:** Minimal movement is desired to reduce gear backlash.





If there is movement, use the **54536** Shim Pack and add shims as required. **Notice:** Shim pack contains .002" (0.05 mm) and .005" (~0.13 mm) thick shims.

- **10.** Fasten the wrench flats of the **54547** Angle Housing in a vise with aluminum or bronze jaws.
- **11.** Join the **53451** or **53454** Adapter to the **54547** Angle Housing. Use an adjustable wrench to tighten the **54527** Lock Ring. **LEFT HAND THREAD** Turn counterclockwise.
- **12.** Use an adjustable wrench to tighten the **54527** Lock Ring. **LEFT HAND THREAD** Turn counterclockwise. (**T** to 34 N•m/~300 in. lbs.)

Angle Head Assembly Complete.

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