

Adjustable Pre-Load Axle Spacers

by Effectus AeroProducts Inc.

Questions?
Call 519-933-2055

Installation Instructions:

1. Place the axle bolt through the drill template and then through the holes in the arms of the front wheel yoke.
2. Make sure that there is a 45 deg. Angle between the bottom of the drill guide and the bottom of the yoke as is shown in the adjacent photo. Mark the location of the drill guide on the outer face of the yoke. Clamp the drill guide in place for drilling. Ensure that the holes are drilled FORWARD (relative to the aircraft) and ABOVE the axle bolt hole.
3. Drill a hole through the yoke arm using the small hole in the drill guide with a #26 drill bit. Repeat this process on the other arm of the yoke and deburr the inner and outer edges of both holes. NOTE:
4. Tap the drilled holes using a 10-24 NC tap.
5. Using your deburring tool, countersink the inboard edge of the tapped holes just enough to allow the socket head cap screws to seat tightly against the arm of the yoke.
6. Install the two stainless steel 10-24 NC socket head cap screws. Although these two screws are captured by the assembly, a drop of service removable thread locker should be used to ensure that they do not back out.
7. Ensure that your bearings are packed with grease before final assembly.
8. Assemble the axle through the wheel/bearing assembly and place the axle spacers on the axle ends as shown in the photo.
9. Disassemble the threaded spacer and lightly grease the threads before reassembling and threading them completely together.
10. Place the solid and threaded axle spacers on the ends of the axle ensuring that the threaded spacer is placed in the side of the wheel assembly that does NOT have the tire air valve.



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11. Align the notches in the outer edges of the spacers with the heads of the installed socket head cap screws.
12. Rotate the assembly until the axle bolt can be slid into place through the arms of the yoke and axle. Torque the axle bolt to the proper value. (Ensure AC 43.13-1B Acceptable Methods are met.) Mark the axle nut with anti-rotation paint.
13. Thread out the inner portion of the adjustable sleeve until all slack has been taken up and the wheel starts to tighten up.
14. Using an appropriately sized tool over the flats on the inner portion of the adjustable sleeve, turn the sleeve clockwise to a point where there is enough pre-load on the bearings to keep them from spinning with the wheel. This usually requires less than 1/4 turn past hand tight.
15. Mark the location of the inner and outer portions of the adjustable spacer in relation to each other for a visual indication of loosening for inspection purposes.
16. Tighten the two drilled head 1/4-20 x 3/8" socket head cap screws to lock the inner and outer portions of the adjustable sleeve together. (Ensure AC 43.13-1B Acceptable Methods are met.)
17. Safety wire the two drilled head 1/4-20 x 3/8" socket head cap screws together to ensure that they do not back out. (Ensure AC 43.13-1B Acceptable Methods are met.)

This completes the installation procedure of the Effectus AeroProducts – RV-10 Adjustable Pre-Load Front Axle Spacers. This product is manufactured to high standards and we thank you for purchasing again from Effectus AeroProducts. Should you have any questions or require assistance in the installation of this product we would be happy to assist in any way. Please call the number above for help.

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