

**Section objective:** Replacement of damaged or worn main gear leg, EAB or LSA gear.

**Required parts:** Main Gear Leg

**Required hardware:** Replacement as needed, new nyloc nuts at a minimum, if replacement due to bent leg new bolts as well

**Required Tools:** SAE sockets and wrenchs, floor jack, saw horse, several heavy padded blankets.

**Required conditions:** N/A

**Required skills or training:** Simple knowledge of hands tools and use.

1. Remove Fairings if installed
2. Remove interior.
3. Drain fuel from side being replaced.
4. Remove AN4 bolt in main spar box that hold gear leg in place.
5. Unbolt brake disc from wheel.
6. Jack up aircraft under axle weldment so that tire is just off the ground.
7. Remove wheel assembly.
8. Unbolt brake caliper from caliper mount, remove and clamp brake puck in place. This will prevent having to bleed the brakes.
9. Jack aircraft up further so it is possible to slide a heavily padded saw horse under the wing at the inboard aileron bracket, also outboard flap bracket. Do not rest aircraft on the brackets. The saw horse should have several inches up padding on it.
10. Lower the aircraft down slowly so that the wing is on the horse.
11. Remove gear leg assembly.
12. Remove old gear leg.
13. Install new gear leg to lower axle weldment.
14. Depending on the hole placement in the assembly decide where to install the new bolt.
15. IF only one hole, in weldment to gear leg , you may match drill the old hole on a drill press. The original size is 1/4" for AN4 and can be upsized to AN5 or 5/16" if needed.
16. If it is not possible to match drill, or unsure of doing it correctly. Measure up or down 1/2" from the original hole and drill a new 1/4" hole. This is sufficient. Remember to drill the hole in steps starting with about 1/8" on a drill press working up to 1/4" to be accurate.
17. Install a new bolt.
18. Reinstall the gear leg reversed from removal.
19. Remove the aircraft from the saw horses and place back on it tires.
20. Set toe per gear toes set section #40 of the build manual, or follow the provided supplement.