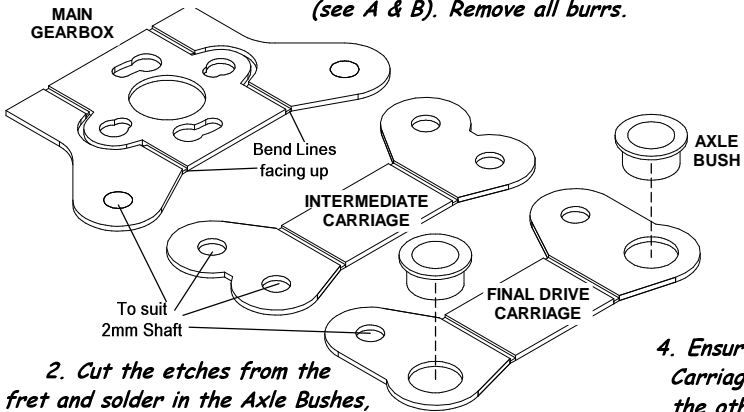


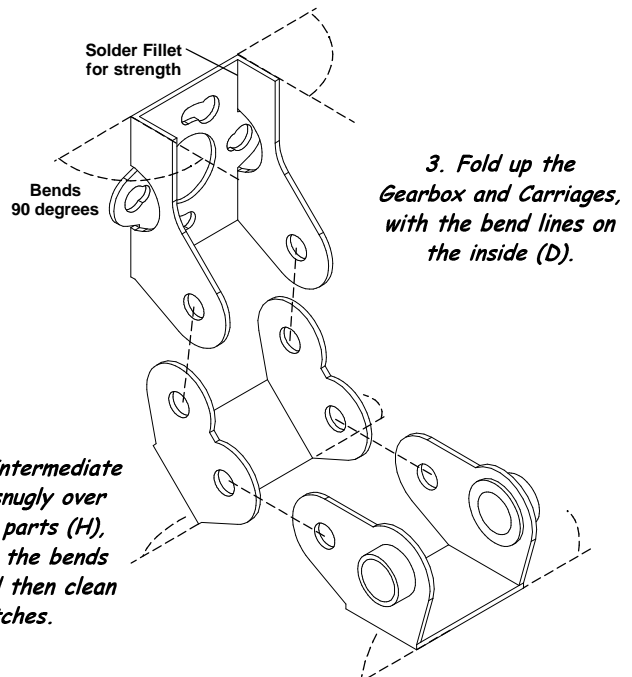
LoLoader 68/90/120:1 Gearbox

These instructions cover the basic gearbox assembly sequence.
For additional information, hints and tips you can refer to our Guidance Section (see brackets).
Note: If this is your first High Level Gearbox we recommend you read all notes thoroughly.

1. While the etches are still in the fret, progressively open out the holes to suit the components, so they're a push-fit (see A & B). Remove all burrs.



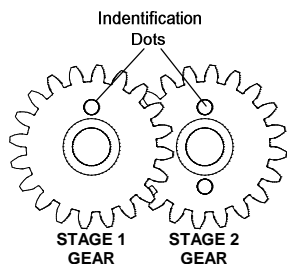
2. Cut the etches from the fret and solder in the Axle Bushes, making sure they're fully home. File the bushes to size (see C).



3. Fold up the Gearbox and Carriages, with the bend lines on the inside (D).

4. Ensure the Intermediate Carriage fits snugly over the other two parts (H), Strengthen all the bends with solder and then clean up the etches.

6. Stage 1 gears will be one of three types: 15/10T (68:1), 20/10T (90:1) or 27/10 (120:1). They have a single identification dot.

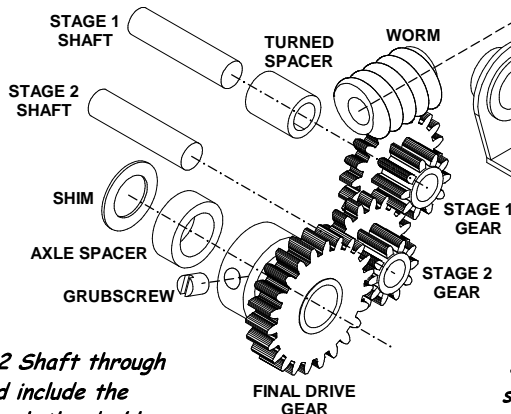


Stage 2 Gears have two dots.

5. Cut two Gearshafts to length (E) and temporarily fit them to determine the gearbox profile you require. The Carriages can be arranged in radial arcs, facing in either direction, to give an almost infinite variety of configurations.

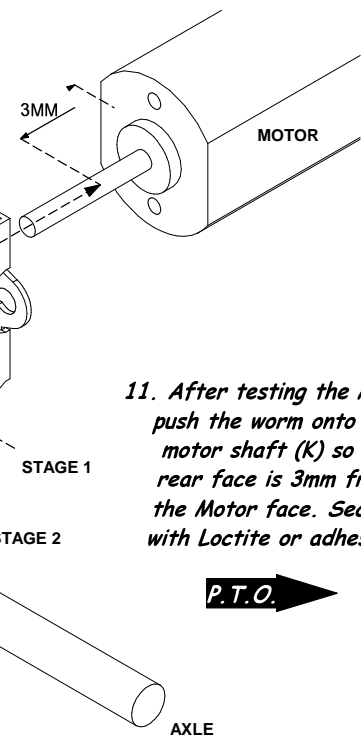
7. Refit the Stage 1 Gearshaft, but this time locate the Intermediate Carriage and include the Gear and Spacer (F). Note, that articulated sections must be fixed in place before applying power (Section 'H').

8. After checking the Stage 1 Gear revolves freely (G) secure the ends of the shaft to the Intermediate Carriage using a small amount of adhesive. Be careful the glue doesn't stray into the gear itself.



9. Slot the Stage 2 Shaft through its locations and include the Stage 2 Gear. Check the double gears run freely, with some side clearance (G) and secure the shaft ends, as before.

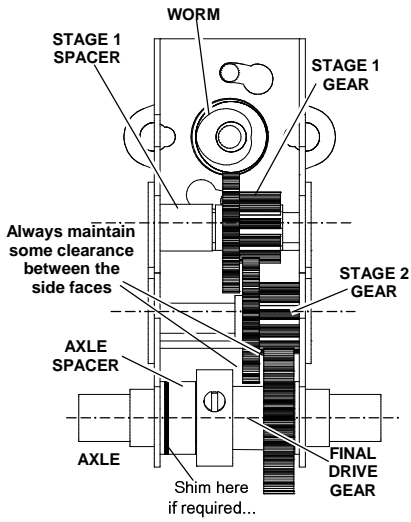
10. Fit the Axle, Final Drive Gear and Axle Spacer into the Carriage, shim if required (read 'J') then tighten the Grubscrew and check all the gears revolve smoothly.



11. After testing the Motor, push the worm onto the motor shaft (K) so its rear face is 3mm from the Motor face. Secure with Loctite or adhesive.

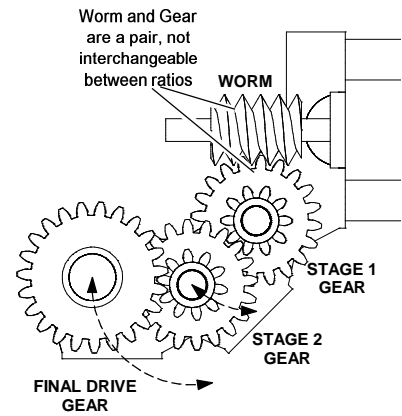
P.T.O. →

LoLoader 68/90/120:1 Gearbox



12. Fit the motor/worm assembly, (L) check the mesh (M) and test the gearbox under power. Lightly lubricate the mechanism (N) then the gearbox is ready to fit (C & J).

13. Make sure the Carriages don't catch the gears as you adjust the shape of the gearbox. Be sure to secure them once you have determined the final position (H).



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