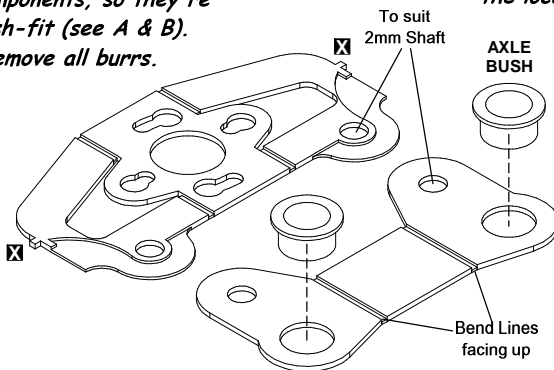


## RoadRunner Compact + 34/45/60:1 Gearbox

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.

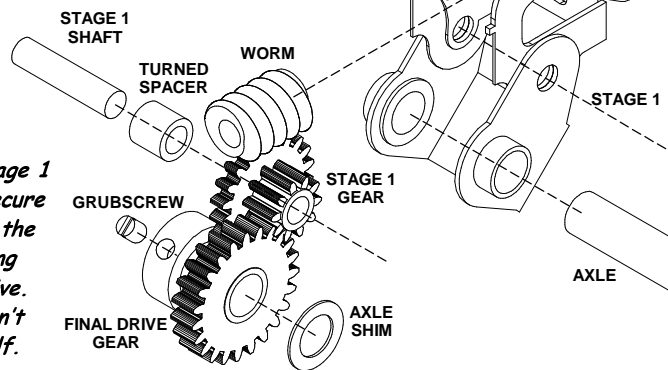


3. Solder in the Axle Bushes, making sure they're fully home.  
File the bushes to size (see C).

8. Slot the Gearshaft through its locations in both the Main Gearbox and Carriage, including the Stage 1 Gear and Spacer (F).

9. The Final Drive Carriage can be sited anywhere on its arc, facing either way, but it must be fixed in place before applying power (Section 'H').

10. After checking the Stage 1 gear revolves freely (F) secure the ends of the shaft to the Final Drive Carriage using a small amount of adhesive. Be careful the glue doesn't stray into the gear itself.



2. Cut the etches from the fret. Take care not to accidentally remove the locators 'X'.

5. Ensure the Carriage fits snugly over the main box, clip on the Remote Attachment or plain Crossbrace onto 'X' to check the width.

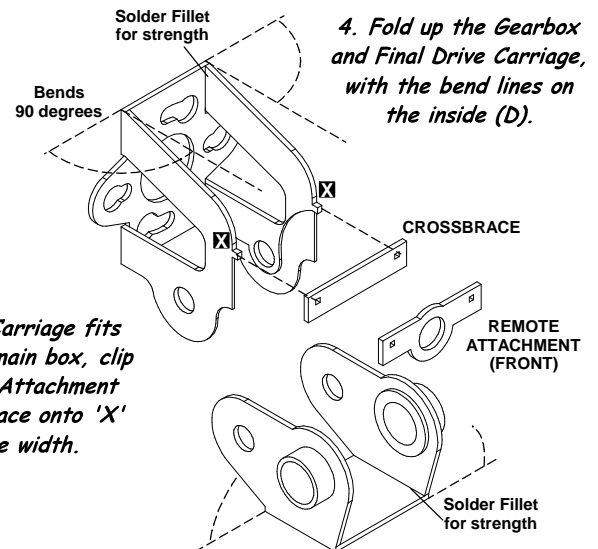
7. Cut the Stage 1 Gearshaft (E) so its length equals the width across the Final Drive Carriage.

11. Fit the Axle and 23T Gear into the gearbox and check clearances (J). Fit the Shim if required, then tighten the Grubscrew and ensure the gears revolve smoothly.

12. 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.

13. 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).

The kit includes the additional etched components (P) you will need to convert the gearbox into a remote-drive system, using cardan shafts linked to the motor by universal joints.



4. Fold up the Gearbox and Final Drive Carriage, with the bend lines on the inside (D).  
6. Strengthen all the bends with solder and then clean up the etches. You can remove the Attachment or Brace, or leave it in place.

