

D1 DriveStretcher For RoadRunner+ and LoadHauler+

These instructions cover the basic gearbox assembly sequence.

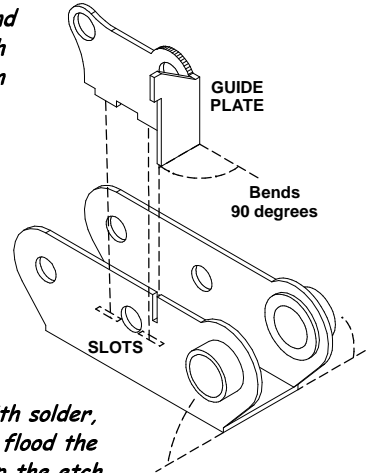
For additional information, hints and tips you can refer to our Guidance Section (see brackets).

Note: If this is your first High Level Gearbox we recommend you read all notes thoroughly.

1. The main gearbox should be assembled up to the point when the Final Drive Carriage is fitted. This will be replaced by The DriveStretcher.

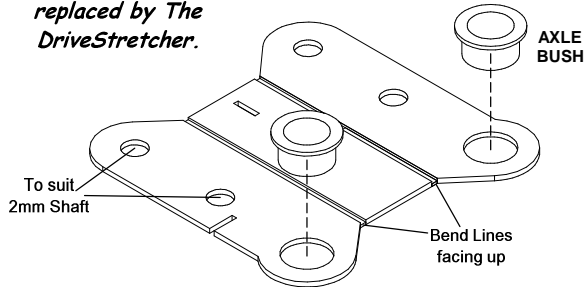
3. Cut the etches from the fret and then solder in the Axle Bushes, making sure they're fully home. File the bushes to size (see C).

4. Fold up the DriveStretcher and Guide Plate, with the bend lines on the inside (D).



5. Locate the Plate in the slots in the DriveStretcher, push 2mm shaft through the holes to confirm alignment and solder the Plate in place, making sure it's verticle.

6. Strengthen the bends with solder, used sparingly so you don't flood the Idler locations, then clean up the etch.



2. 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.

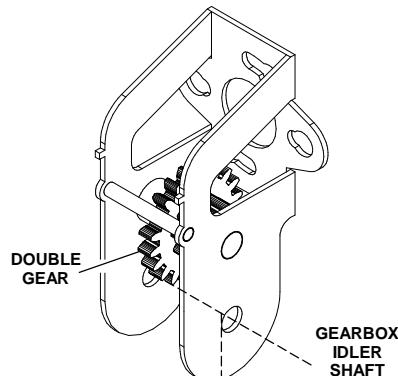
7. Cut the D1 Idler Shaft to length (E) and slot it through its locations in The DriveStretcher and Guideplate. Include an Idler Gear and the Washer Plate, which sits with its flat side against the inner side of the etch...

...if the parts won't go in, check for excess solder.

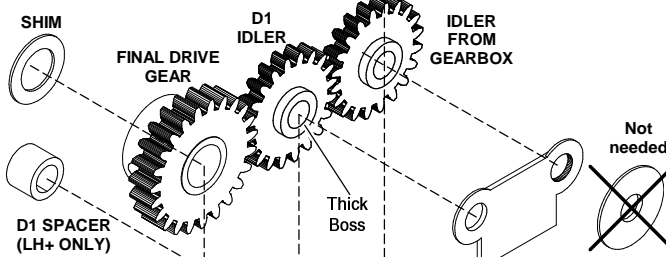
8. After making sure the gear revolves freely (G) secure the ends of the shaft using a small amount of adhesive. Be careful the glue doesn't stray into the gear.

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

RoadRunner+

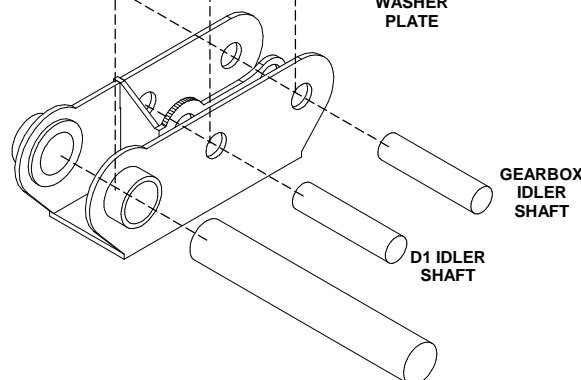


10. If you wish to site the driven axle under the the motor, study the diagram overleaf...



11. Offer the unit up into the main box, and slot the Gearbox Idler shaft through the parts, including the Gearbox Idler Gear as you do this. LoadHaulers require the D1 Spacer to be fitted, as illustrated on the next page.

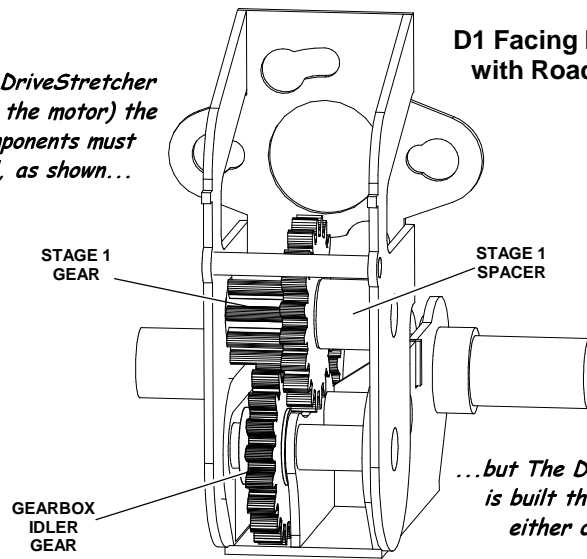
12. Fit the Axle, 23T Gear and Spacer into the Carriage, and Shim as required (read 'J'). Tighten the Grubscrew and check all the gears revolve smoothly.



13. Revert back to the main Gearbox instructions to finish off.

D1 DriveStretcher

*For a reverse DriveStretcher
(running under the motor) the
gearbox components must
be mirrored, as shown...*

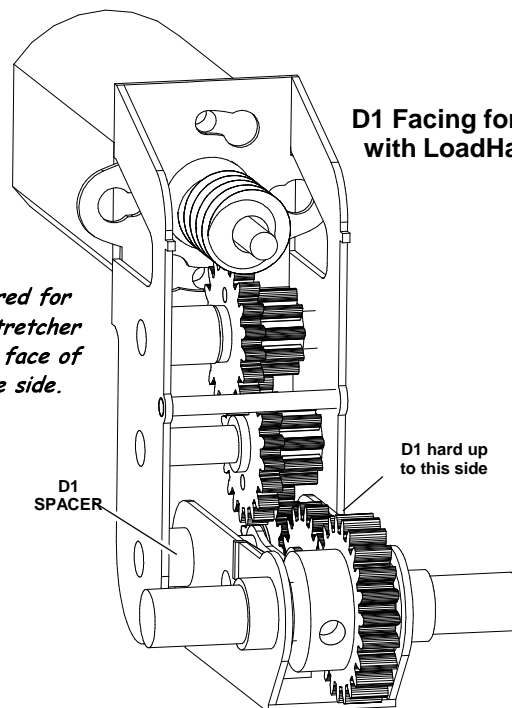


**D1 Facing backwards
with RoadRunner+**

*...but The DriveStretcher
is built the same for
either direction.*

*Be sure to secure the
Carriage in place once you have
determined the final position (H).*

*The D1 Spacer is only required for
the LoadHauler+. The DriveStretcher
must be hard up to the inner face of
the gearbox at the opposite side.*



**D1 Facing forwards
with LoadHauler+**