



Freeway Gearbox Change – GSP100777

Equipment Needed:- Pair of Snips, 10mm socket set, long nose pliers, 3mm pin punch, small hammer, wedge of wood

TIP – Before you start, take a digital picture of the base of your machine so that you have a record of where wires are placed as a reference for re fitting should you need it.

In order to remove and fit a new gearbox you will need to follow these guidelines.

1. Remove the motor from the existing gearbox by undoing the two 10mm bolts on the side. DO NOT loose these bolts... put them somewhere safe as you will need them to attach the new gearbox to the existing motor.....
2. As you are standing behind the trolley and depending on the age of the trolley the left hand wheel or left hand wheel and clutch need to be removed. You will either need to remove an “R” Clip or a roll pin. On the left hand side of the gearbox will be a plastic cover, remove this and you should see a roll pin. This roll pin needs to be removed but keep safe as you will need to reuse this part. The complete shaft should now be removed from the right hand side of the trolley.
3. With the snips remove the starlock washer caps and starlock washers on both sides, being careful you do not mark the tube.
4. Remove the blind rivets (silver bolts that hold the gearbox to the tube), do not lose them as you are going to re use them, the gearbox should then come off the tube.
5. With your long nose pliers remove all existing coupling from the motor and put onto the new gearbox
6. The new gearbox needs to be fitted onto the tube, this is the tricky part and you will require a 10 mm socket and a wedge of wood. Push the blind rivets (silver bolts) through the locating holes in the gearbox and fix the gearbox to the frame. With your wedge of wood, slide this behind the end of the silver pin and the where the axle goes through.
7. The starlock washers need to be fitted to the silver pin, this is where you will need your socket set and hammer. Each silver pin should have two starlock washers on but it is best to fit one at a time. Once all four starlocks are on them press the caps on with your thumb, do not use a hammer as you will dent the cover.
8. Connect the motor to the gearbox, this can be fiddly. It is important that you line the half moon shape metal insert up with the coupling. Once the motor is on the gearbox then fit the two 10mm bolts on. These bolts need to be done up quite tightly.
9. The axle needs to be re fitted to the trolley. Once the axle is through the gearbox then the roll pin needs to be re fitted. The clutch will also need to be re attached.
10. If you have removed the two wires from the motor, the longer lead goes to the top and the shorter lead goes to the bottom.

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