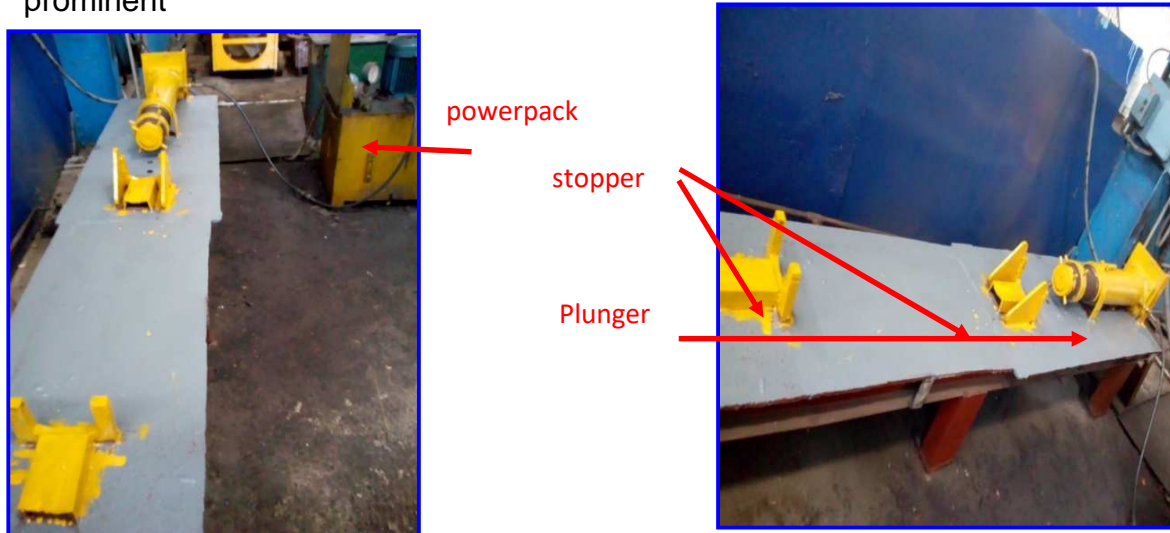


## 1) Fixture for extracting and assembling anti-roll bar bearing - GOC Shops

The anti roll bar is a torsion bar having two forks is provided between bogie frame transverse beam with the help of two links to resist rolling motion of coach. The anti roll bar takes up eccentric load through the fork, which eventually converts itself as torsional load due to the inertia of the coach and viscous resistance offered by dampers. This is facilitated by the support offered by 2 bearings which are mounted to the anti roll bar's ends. The bearing takes up both radial and axial loads, radial being more prominent



Anti roll bar assembly is a mechanism in Fiat Bogie used to resist rolling motion of LHB Coaches. Anti roll bar assembly consist of torsion bar with two forks on either end are connected to Bolster Beam by Roll link. On either end of Torsion Bar there are bearing which is used for rolling of anti roll bar assembly.

During Shop Schedule Practice the function of antiroll bar is to be checked for any slackness in bearing housing to identify the worn out of bearings. If there is any slackness the bearing is to be renewed.

For extracting bearing one hydraulic operated extractor is designed and fabricated in house. It consists of working table on which two stoppers and one hydraulic plunger assembly are mounted and one hydraulic power pack of 15T capacity which is used to give hydraulic pressure to the plunger. The bearing in the anti roll bar assembly can be extracted and reassembled using the bearing extractor by proper clamping of anti roll bar assembly in between the stopper.

### Advantages

- Simple and easy to operate.
- Faster in operation.
- Unskilled labour can do the job.



