

Dreadnought Single Pivot Bogie Installation & Maintenance

For Your Trailer Axle Suspension Needs Call York :

Head Office

Singapore

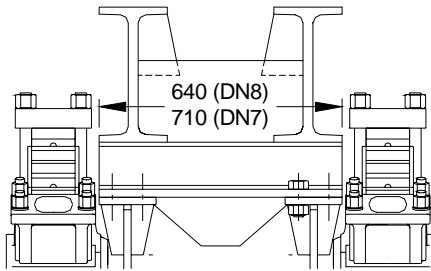
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Bogie Installation

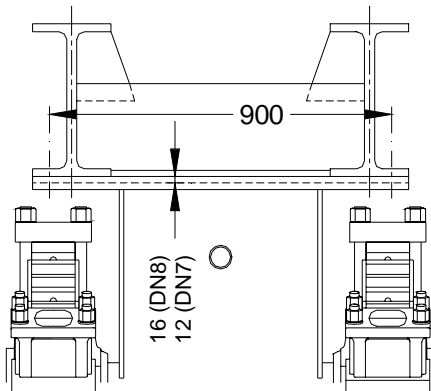
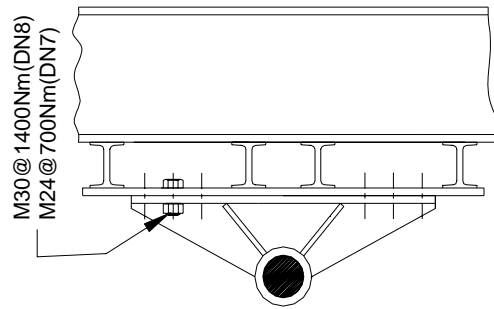
Below are typical chassis structures and installations of DN Low Mount and DN high Mount.

Fit DN bogies to trailer chassis with 4 bolts and nuts at 4 corners of mounting pedestal, tighten nuts to 200Nm for axle alignment (see below).

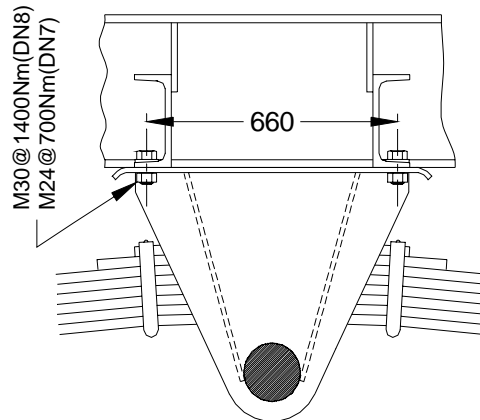
After axle alignments, fit rest of bolts and nuts and tighten all nuts to torque required.



DN Low Mount



DN High Mount



Axle Alignment

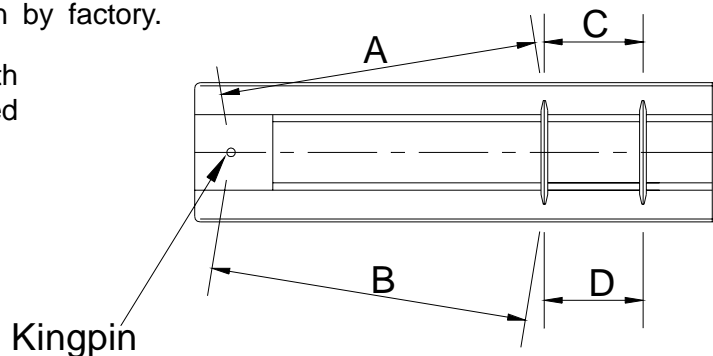
Measure from the centre of the kingpin to the centre of each end of the front axle and adjust as necessary (by using a hide mallet or Porta power) until the dimensions A and B are equal. After alignment, weld metal blocks around the pedestals to fix position of DN mounting plate against trailer chassis beam.

Alignment of the rear axle (axles) is built-in by factory.

NOTE: Alignment can also be achieved with an optical device or laser system designed specifically for this purpose.

$$A=B \pm 2 \text{ mm}$$

$$C=D \pm 2 \text{ mm}$$



Final Inspection

A visual inspection of the bogie after installation and assembly should be carried out to ensure that all components are correctly located and seated, as incorrect location or misalignment of the components will greatly reduce the service life of the bogie.

Servicing Intervals

First Service - 500 km.

Check all torque settings with torque wrench (Important).

Every 10,000 km or every 6 weeks.

Check all torque settings (Especially u-bolt and pivot bolts). Lift trailer to take pressure off the bearing and grease main pivot bush using EP2 or Mobil HP222 until fresh grease emerges. Under extreme conditions, lubricate with more frequency.

Every 100,000 km or Annually.

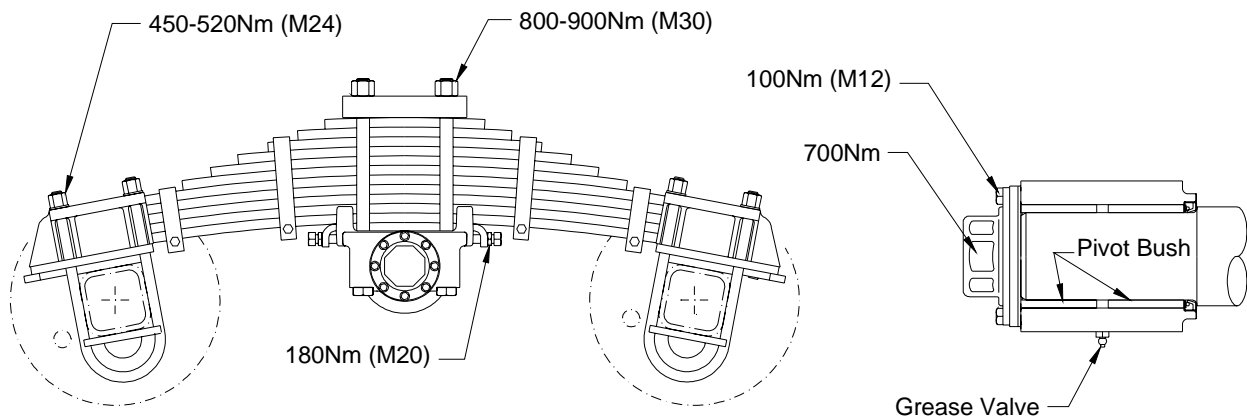
Check and lubricate as for 10,000 km service.

Check the pivot bushes for wear or deterioration and replace as necessary.

Check the leaf springs for wear, cracks or corrosion and replace as necessary.

Inspect the mounting brackets, spring hoods, spring hood rubber and u-bolt for wear or deterioration and replace any suspect parts as necessary (see below for servicing procedure).

Check tyre wear and the axle alignment as necessary. Axle alignment must be checked whenever severe kerbing, accident damage or spring have been replaced during servicing.



Servicing Procedure

Jack up the trailer. Remove thrust plate and thrust bearing and check the pivot bearings for play by levering the cross shaft and the spring. Bearings should be a tight fit and should be renewed if play is suspected.

New bushes are fitted from each side of the pivot block and should be flushed with the pivot block outer recess, a central gap must exist between the bushes to permit grease flow. Apply grease through the pivot block grease valve until it extrudes from the grease seal.

Grease seal must be fitted metal face outwards and the inner face of the thrust plate should be greased before fitting.

The spring hoods and rubbers should be visually checked for wear or damage and components replaced where necessary.

Inspect the leaf spring for wear, cracks or corrosion. Clean the leaf spring thoroughly and replace any suspect leaves.