



Walking Beam Underslung Suspension (5"Round) Installation & Maintenance

For Your Trailer Axle Suspension Needs Call York : Head Office

Singapore York Transport Equipment (Asia) Pte. Ltd. No. 5 Tuas Avenue 6, Singapore 639295

Email: enquiry@yorktpt.com.sg

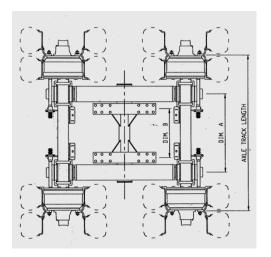
Tel: (65) 6861 0577 Fax: (65) 6861 4045

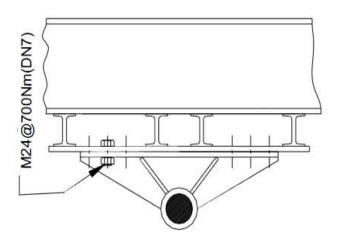
Walking Beam Installation

Below are typical chassis structures and installations of Walking Beam Under slung Suspension (5"Round). Fit Walking Beam 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.

Bolt - M24 at 700Nm





Underslug Suspension Mount

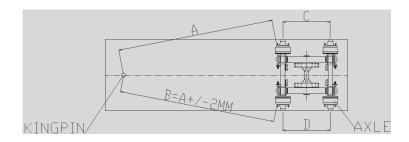
Dim A	Dim B	Dim C			
960	610	1850			

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 <u>optical device or laser system</u> designed specifically for this purpose.



A=B +/-2 mm C=D +/-2 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.

<u>Servicing Intervals (Walking Beam only)</u> <u>Axle service related to Axles Maintenance and Service Manual.</u>

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. <u>Axle alignment must be checked whenever severe kerbing, accident damage or spring have been replaced during servicing.</u>

Servicing Procedure

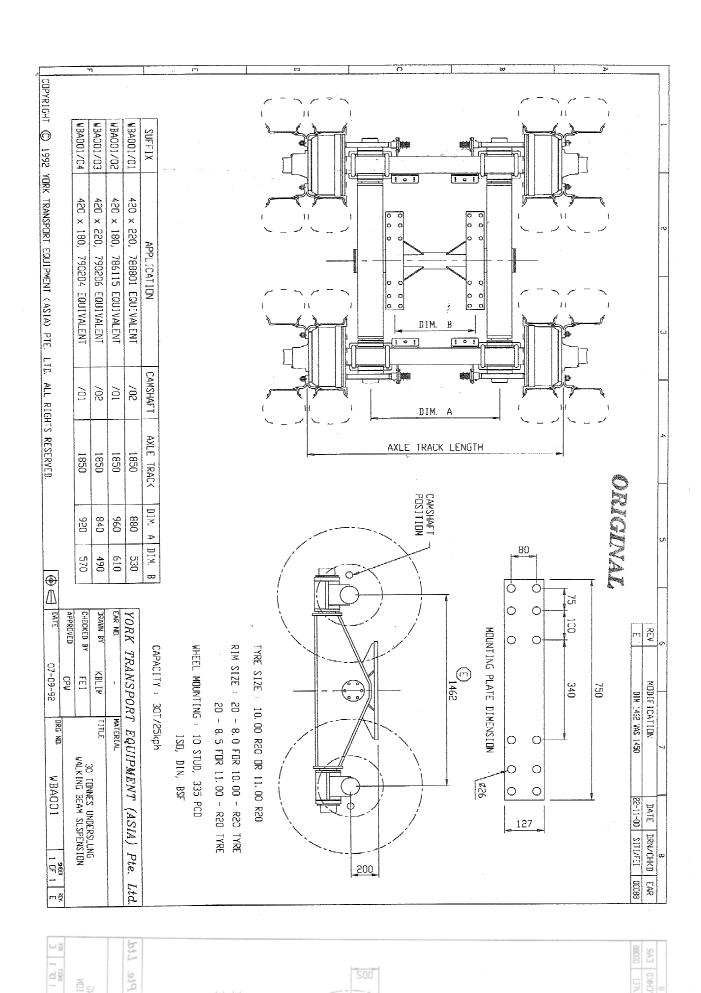
Jack up the trailer. Remove thrust plate and thrust bearing and check the pivot bearings for play by levering the cross shaft and the spring. Bearings should be a tight fit and should be renewed if play is suspected.

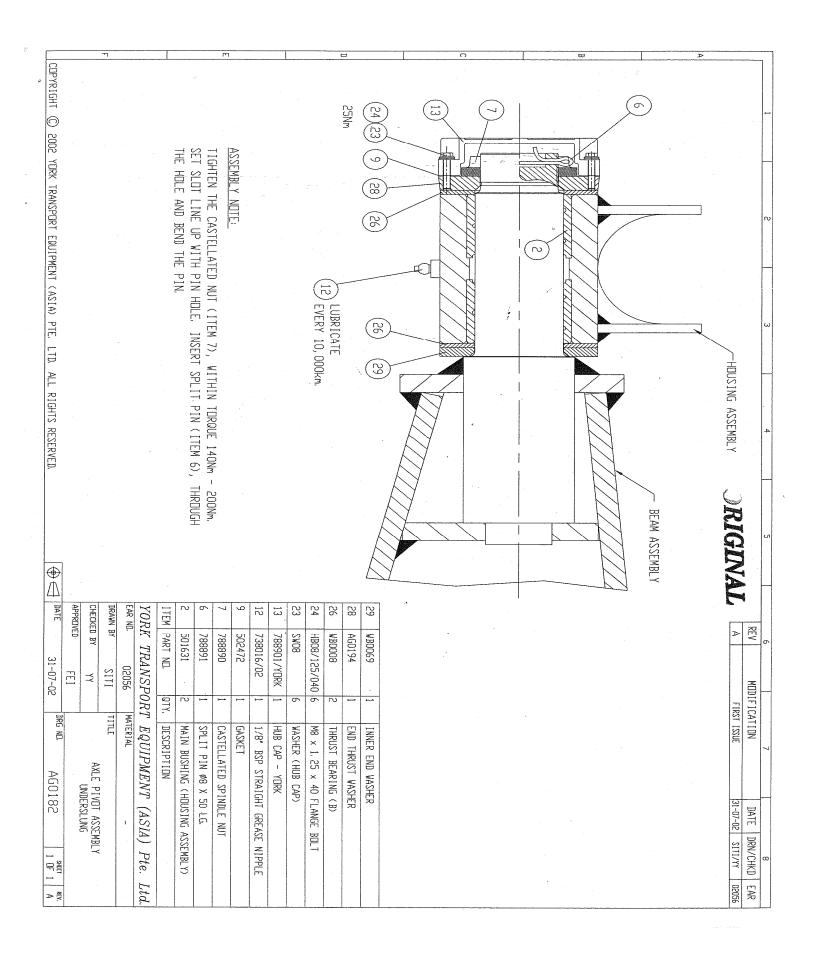
New bushes are fitted from each side of the pivot block and should be flushed with the pivot block outer recess, a central gap must be exist between the bushes to permit grease flow. Apply grease through the pivot block grease valve until it extrudes from the grease seal.

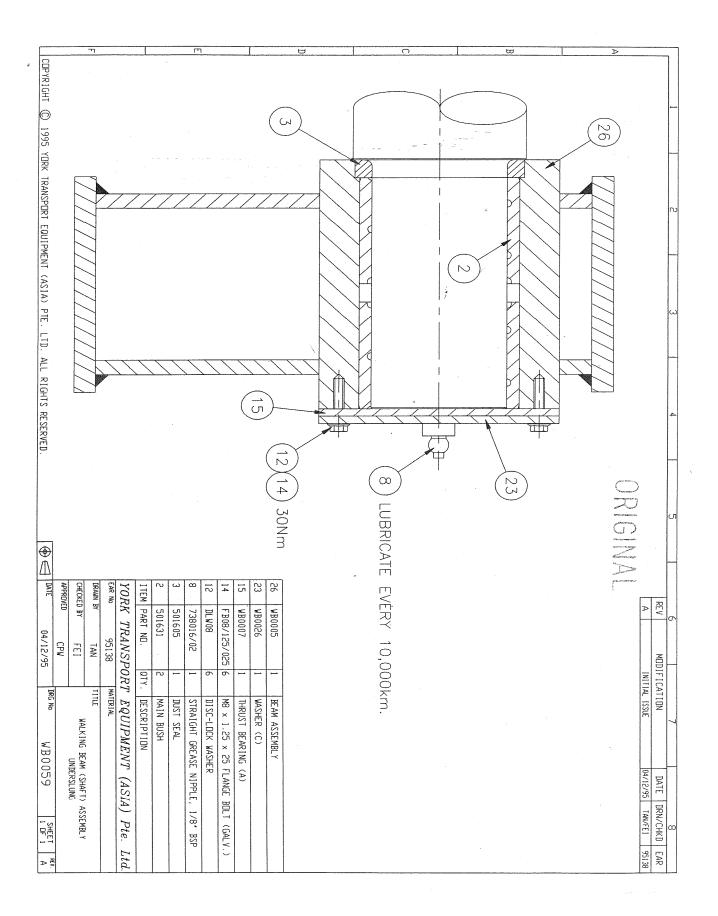
Grease seal must be fitted metal face outwards and the inner face of the thrust plate should be grease before fitting.

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.







B.O.M. No.: WBA001/960/610 Revision: A
B.O.M. for 30 Tonnes Walking Beam Underslung Suspension (5" Round) E.A.R.:

Dim A = 960, Dim B = 610 Date : 12/10/09

Item	Sub-Item	Part No.	Change.	Description	Change	Qty.		
1		501631		Main Bush (Housing Assembly)	1	12		
2		501605/01		Dust Seal		2		
3		788890/YTE		Spindle Nut 3.5" CATTELLATED	4	•		
4		502472		Gasket	E4	ŧ		
5		738016/02		Straight Grease Nipple, 1/8" BSP		2		
6		788901/YORK		Hub Cap - YORK		1		
7		788891		SPLIT PIN Dia 8 x 50	- 4	\$		
8		SW08		M8 SPRING Washer		24		
9		HB08/125/040		M8 x 1.25 x 40 HEX Bolt (Galv.)	- 2	24		
10		DLW08		Disc-Lock Washer		12		
11		FB08/125/025		M8 x 1.25 x 25 Flange Bolt (Galv.)	1	2		
12		WB0007		Thrust Bearing (A)	2			
13		WB0008		Thrust Bearing (B)	8			
14		AG0194		END THRUST WASHER	4	2		
15		WB0069		Inner Washer	4			
16		WB0026		Washer (C)	2			
17		738016/05		90 Deg. Nipple, 1/8" BSP	-4			
18		503280/280		M24 U-Bolt C/w Nut & Washer	8			
19		788902/YORK/01		Name Plate - York	1	U.		
20		WB0081/960/610		Underslung Pedestal Assembly	1			
	20.1	WB0004/960		Cross Shaft		1		
	20.2	503292/02		Top Plate - 12 Holes		2		
	20.3	503292/03		Support Plate		2		
	20.4	503292/04		Gusset Plate		4		
	20.5	503292/05		Gusset Plate		4		
21		WB0001		Housing Assembly (5" Round Axle)	4	i,		
	21.1	WB0016		Housing Plate				2
	21.2	WB0017		Housing Side Plate				2
	21.3	WB0018		Housing U-Bolt Plate				2
	21.4	WB0019		Housing				1
	21.5	WB0021		Gusset Plate				4
22	22004	WB0005		WB Beam Assembly 1450			2	- 17
	22.1	AG0198		End Spindle				2
	22.2	WB0003		Housing Machining				1
	22.3	WB0020		Top Plate				1
	22.4	WB0022		Side Plate				2
	22.5	WB0023		Support Plate			_	2
	22.6	WB0024		End Plate				2
	22.7	WB0024		Bottom Plate				1
	22./	1100023		DOLLOITI FIALE				1

Items marked with @ are not included in YTEA Accounts/Store B.O.M. This B.O.M. should be billed with 2 x 5" Round Beam Axle. Installation & Part List, please refer to drawings WB0031, AG0182 & WB0059