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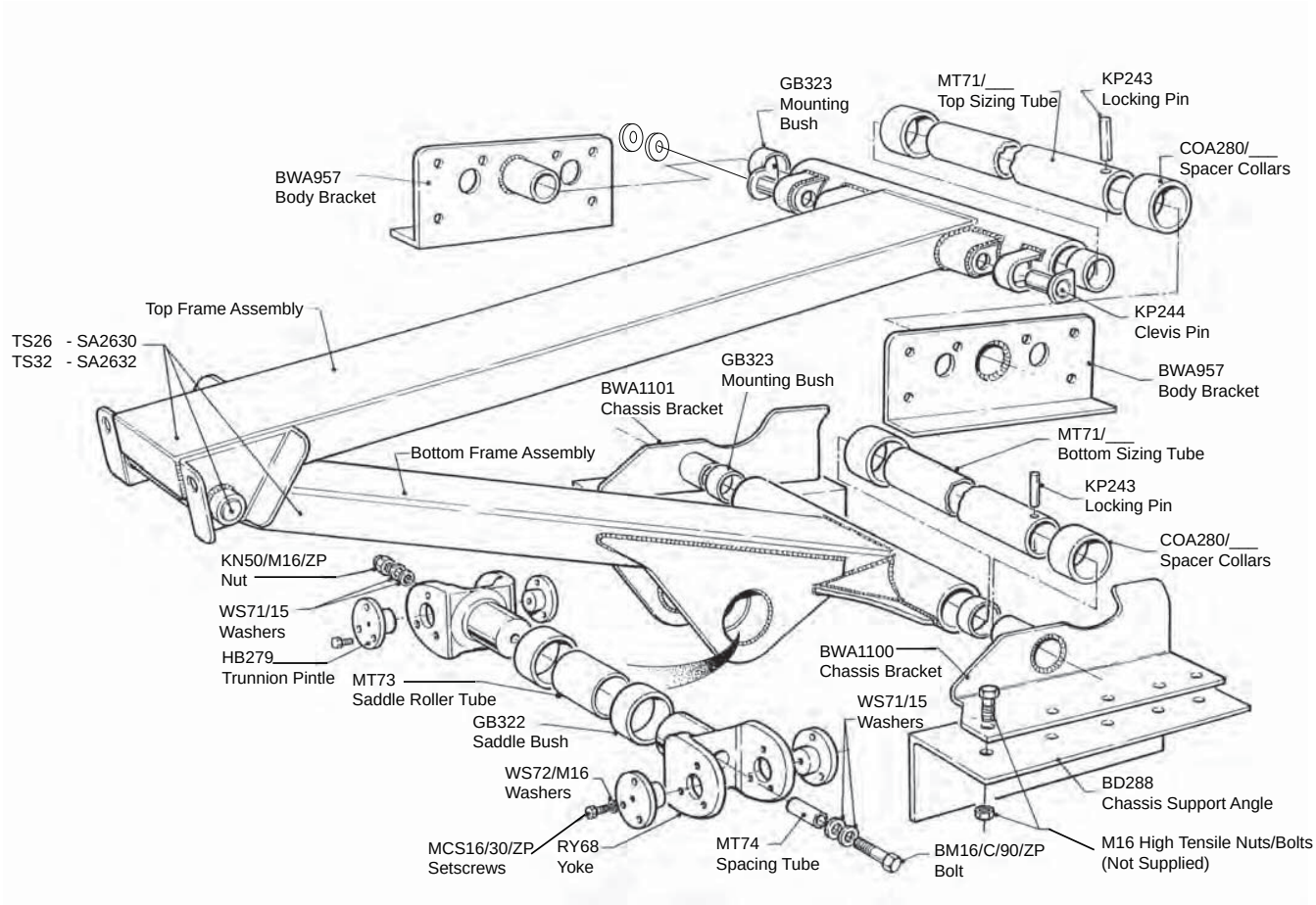
Fitting Instructions

TS Underbody Frame



Telescopic Scissor Hoist

TS26 & TS32

Frame Assembly

Technical specifications are subject to change without notice.

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Fitting Instructions

TS Underbody Frame

Contents

Numbered parts (#): refer to TS Parts Drawing

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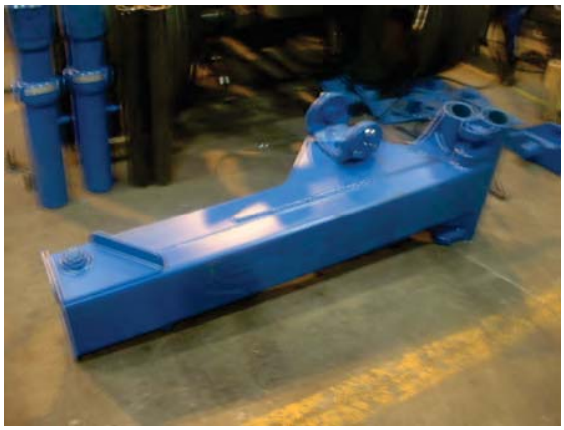
Fitting Instructions

TS Underbody Frame

1. TS Kit arrives: frame; cylinders; fittings brackets and sizing tubes.

2. To build up the frame while on the floor, lay frame on its side.



3. Remove trunnion pintle (1).

4. Remove clevis pin (2), and open frame

Numbered parts (#): refer to TS Parts Drawing

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TS Underbody Frame

5. Place cylinder in yoke (3).

6. Replace trunnion pintle, and fasten 3 x bolts (refer to Bolt Tightening Torque Table).

7. Align cylinder eye with top bracket, replace clevis pin and bolt, and tighten clevis pin bolts.Repeat for second cylinder

8. Bottom Sizing Tube To fit the bottom sizing tube, firstly: calculate the size of spacer collars that are needed for the chassis.

Numbered parts (#): refer to TS Parts Drawing

9 TS Underbody Frame : Spacer Collar Length

Top Spacer Collar length = Inside Body Main Beam Width
– Top Frame Tube Length (550mm)
– Bracket BWA957 Thickness x2 (20mm)
– Spacer Collar Clearance x 2 (4mm)

Top Spacer Collar Length = Inside Body Main Beam – 574mm
(each side) (±1mm) 2

Bottom Spacer Collar length = Inside Body Main Beam
- Bracket BWA957 Thickness x2 (20mm)
- Bracket Clearance (6mm)
- Bracket BWA1100/1 thickness x 2 (24mm)
- Bottom Frame Tube Length (524mm)
- Spacer Collar Clearance x 2 (4mm)

Bottom Spacer Collar Length = Inside Body Main Beam – 578mm
(each side) (±1mm) 2

10. Sizing Tube Length

Top Sizing Tube Length = Inside Body Main Beam Width
- Bracket BWA957 Thickness x2 (20mm)
- Weld Bead Clearance x 2 (16mm)

Top Sizing Tube Length = Inside Body Main Beam Width – 36mm

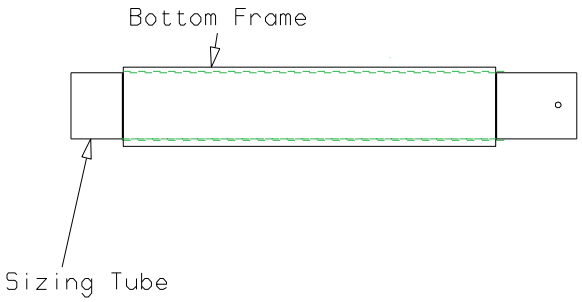
Bottom Sizing Tube Length = Inside Body Main Beam Width
- Bracket BWA957 Thickness x2 (20mm)
- Frame Clearance (6mm)
- Bracket BWA1100/1 thickness x 2 (24mm)
- Weld Bead Clearance x 2 (16mm)

Bottom Sizing Tube Length = Inside Body Main Beam Width – 66mm

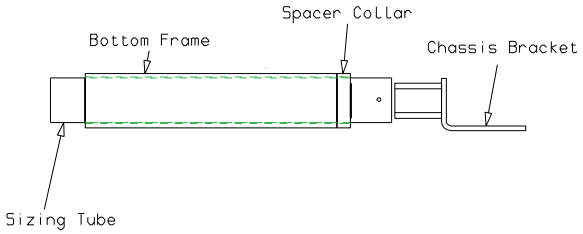
Numbered parts (#) refer to TS Parts Drawing

TS Underbody Frame

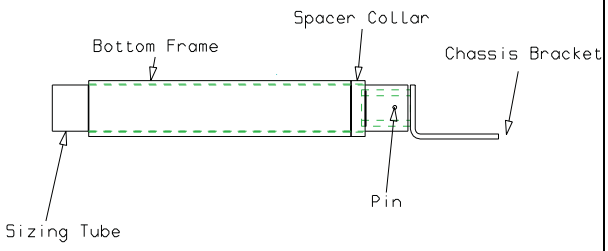
11. Slide sizing tube into bottom frame



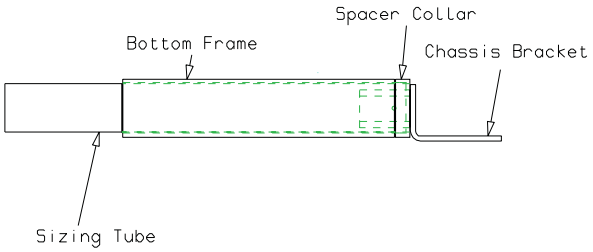
12. Slide spacer collar onto sizing tube



13. Slide chassis support plate into sizing tube, secure with pin.



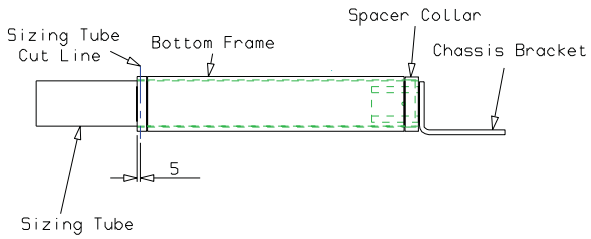
14. Slide chassis bracket up to edge of bottom frame.



Numbered parts (#): refer to TS Parts Drawing

TS Underbody Frame

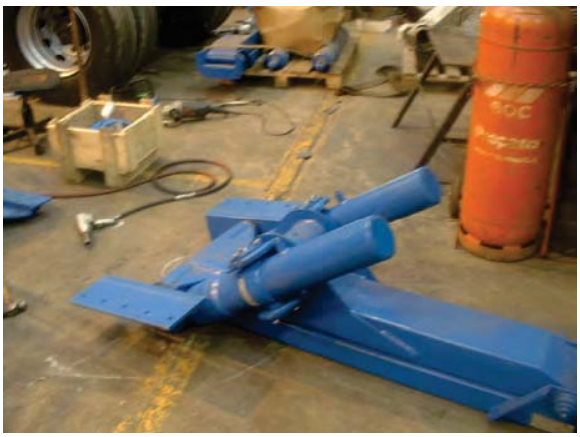
15. Slide spacer collar on other end of sizing tube, mark tube length 5mm inside edge of spacer collar.



16. Check measured sizing tube length agrees with calculated length.

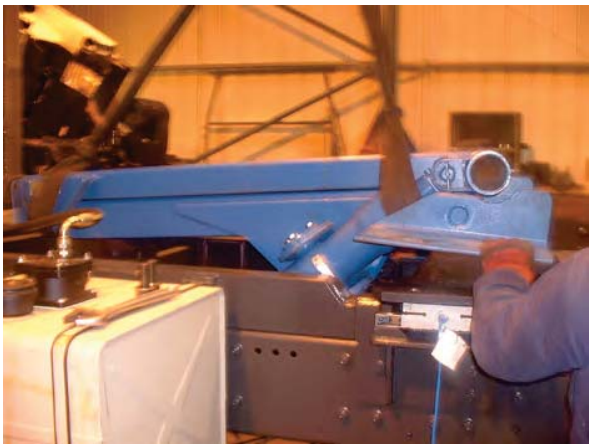
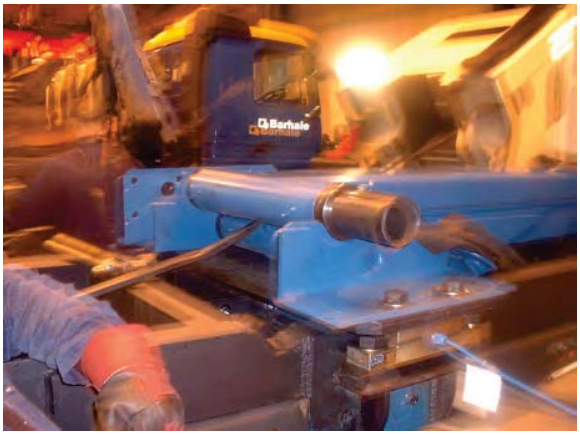
17. Cut the sizing tube to length – DO NOT CUT END WITH HOLE DRILLED.

18. Assemble sizing tube, spacer collars and chassis support angles.



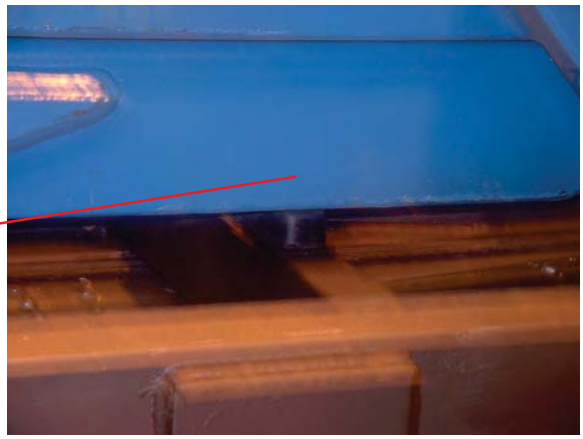
Numbered parts (#): refer to TS Parts Drawing

TS Underbody Frame

19. Sling TS frame for moving	20. Hoist frame into position for mounting on chassis, with chassis bracket (6) and chassis support aligned.
	
21. Drill 5 – Ø17mm holes in chassis support, aligned with holes in chassis bracket. Secure bracket using 5 – M16 bolts (refer to Bolt Tightening Torque Table) .	**22.** Top sizing tube – repeat sizing procedure as for bottom sizing tube.
	

Numbered parts (#): refer to TS Parts Drawing

TS Underbody Frame

23. Assemble top sizing tube, spacer collars and body mounting brackets.	**24.** Insert rubber support under frame (see GA drawing for positioning) and ensure frame is level.
	

Numbered parts (#): refer to TS Parts Drawing

TS Underbody Frame : Bolt Tightening Torques

All securing bolts are to be Hi-tensile steel as follows:

- Imperial bolts, Grade R, 45 Ton U.T.S.
- Metric Bolts, Grade 8.8, 785N/mm U.T.S.

Torque tightened to:

Dia (")	Torque (ft lbs)	Dia (mm)	Torque (Nm)
5/16"	20 ft lbs	8mm	28 Nm
3/8"	32 ft lbs	10mm	56 Nm
1/2"	80 ft lbs	12mm	98 Nm
		14mm	185 Nm
5/8"	155 ft lbs	16mm	240 Nm
3/4"	290 ft lbs	20mm	470 Nm

Numbered parts (#):refer to TS Parts Drawing