CONVERTER DOLLY OPERATORS MANUAL

AIR SUSPENSION ROBUST SERIES

WWW.ABSTRAILQUIP.COM

07) 3274 6046



PREFACE

ABS Trailquip does not guarantee that the goods purchased will be suitable for customer's operational requirements.

It is the purchaser's obligation to clarify any exceptional conditions of use.

VERSION CONTROL										
VERSION	DATE	UPDATE								
VO	23/11/22	Document Control								
V1	13/12/22	Front Cover								

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

ABS-OPS-MAN-2022-001 Wip reserves the right to alter specifications without notice. Approved by Michael Green

Copyright ABS Trailquip Pty Dolly Operating Manual



Table of contents

1.0	Overview	1
2.0	ABS Trailquip Pty Ltd Dolly Warranty	2
3.0	Dolly Pre-Start Up Checklist	7
4.0	Dolly Torque Settings & Quick Service Reference	8
	4.1 Dolly Torque Settings Information Overview4.2 Quick Service Reference Guide	
5.0	TP / Parallel Bearing TQA Trailquip Axle	10
	 5.1 Recommended Service Intervals 5.2 Wheel Bearing Adjustments 5.3 Axle Component Lubrication 5.4 Greasing the Hubs and Wheel Bearings 5.5 Brake Adjustments 5.6 Torque Settings Table 	11 12 13 14
6.0	TQA Robust Air Suspension 360mm Ride Height	17
	 6.1 Recommended Service Intervals 6.2 Replacing Trailing Arm Spring Eye Bush 6.3 Height Control Valve Adjustment 6.4 Axle Alignment 6.5 Axle Safety Catch Strap 6.6 Air Suspension Drawing 6.7 Torque Settings Table 	18 19 20 22 23
7.0	Drawings – TQA 10Stud Drum Brake Parallel Bearing Axle	24
7.0 8.0	Drawings – TQA 10Stud Drum Brake Parallel Bearing Axle Drawings – Robust Air Suspension 360 Ride Height	
		27
8.0	Drawings – Robust Air Suspension 360 Ride Height	27 36 36 37 38 39
8.0 9.0	Drawings – Robust Air Suspension 360 Ride Height. Drawings – Tandem Dolly Brake Systems. 9.1 Standard Tandem B/D-R/T Semi, No ABS, No EBS	27 36 36 37 38 39 40
8.0 9.0	Drawings – Robust Air Suspension 360 Ride Height. Drawings – Tandem Dolly Brake Systems. 9.1 Standard Tandem B/D-R/T Semi, No ABS, No EBS	27 36 37383940 41 4141424344
8.0 9.0 10.0	Drawings – Robust Air Suspension 360 Ride Height. Drawings – Tandem Dolly Brake Systems. 9.1 Standard Tandem B/D-R/T Semi, No ABS, No EBS 9.2 Tandem B/D-R/T Semi with ABS 9.3 Tandem B/D-R/T Semi with Haldex EB+ GEN3 9.4 Tandem B/D-R/T Semi with Haldex EB+ GEN3 9.5 Tandem B/D-R/T Semi with Haldex EB+ GEN3 9.5 Tandem B/D-R/T Semi with Haldex EB+ GEN3 9.6 Drawings – Triaxle Dolly Brake Systems. 10.1 Standard Tri Axle B/D-R/T Semi with ABS 10.2 Tri Axle B/D-R/T Semi with Haldex EB+ GEN3 10.3 Tri Axle B/D-R/T Semi with Haldex EB+ GEN3 10.4 Tri Axle B/D-R/T Semi with Haldex EB+ GEN3	27 36 37383940 41 414142434445
8.0 9.0 10.0 11.0	Drawings – Robust Air Suspension 360 Ride Height Drawings – Tandem Dolly Brake Systems	27 36 37 38 39 40 41 41 41 41 42 43 44 45 44 45 46 47
 8.0 9.0 10.0 11.0 12.0 	Drawings – Robust Air Suspension 360 Ride Height Drawings – Tandem Dolly Brake Systems 9.1 Standard Tandem B/D-R/T Semi, No ABS, No EBS	27 36 37 38 39 40 41 41 41 41 42 43 44 45 44 45 46 46 47

1

1



14.0	JOST Fifth Wheel JSK 37 Greaseless Manual	59
15.0	JOST Ball Race Service and Maintenance	82
16.0	JOST Fifth Wheel LubeTronic Manual	83
17.0	Right Weigh – Analogue Load Scale	89
18.0	Right Weigh – Digital Bluetooth Load Scale	90

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

ABS-OPS-MAN-2022-004 W/10 reserves the right to alter specifications without notice. Approved by Michael Green Copyright ABS Trailquip Pty Dolly Operating Manual

and the last



DOLLY MANUAL

1.0 Overview

Thank-you for purchasing an ABS Trailquip Converter Dolly.

This Manual provides the specifications for the set-up and ongoing maintenance of an ABS Trailquip Converter Dolly (referred to hereafter as 'the dolly'). The specifications are provided to ensure the structural integrity and safe operation of the dolly are maintained.

Failure to operate and maintain the dolly in accordance with this specification will void the ABS Trailquip Warranty.

The Manual comprises specifications for the following dolly components:

- TP/Parallel Bearing TQA Trailquip Axle;
- TQA Robust Air Suspension 360mm Ride Height;
- 50mm Bolt-on Tow Eye;
- Fifth Wheel Greaseless;
- Ball Race; and
- Load Scales.





2.0 ABS Trailquip Pty Ltd Dolly Warranty

Definitions

Buyer means the customer detailed on the Order submitted by the Buyer to ABS. ABS means ABS Trailquip Pty Ltd.

Goods means the Dolly and Spare Parts jointly and severally. Manufacturer means ABS Trailquip Pty Ltd (ACN 126 053 521).

Order means the document completed by the Buyer to Order the Goods. Repairs means the repairs which are undertaken by ABS for the Buyer.

Spare Parts means spare parts manufactured by ABS and supplied by ABS to the Buyer. Dolly means the dolly supplied by ABS to the Buyer.

Warranty means the warrant provided by ABS on the terms set out below.

Warranty

- 1. ABS warrants that the Dolly and Repairs are of an acceptable quality, fit for purpose, and free from defect for the following applicable periods:
 - a) In the case of the Structural component, three (3) years *or* 300,000km;
 - b) In the case of Axles and Suspensions, two (2) years *or* 200,000km;
 - c) In the case of a Full Product warranty, one (1) year *or* 100,000km;
 - d) Component parts may vary according to the different manufacturers.

NOTE: Dollies running 24 hours a day reduces the warranty period by 50%

2. This Warranty is subject to the limitations and qualification set out below. Please read these limitations and qualification carefully. If you have any questions, please contact ABS.

Rights of Consumers under Australian Consumer Law

- 3. Clause 2 applies to the Buyer if:
- a) The amount paid or payable for the Goods does not exceed \$40,000.00 (except where the Goods are not of a kind ordinarily acquired for personal, domestic or household use or consumption, and ABS has limited its liability in a manner permitted by the Australian Consumer Law, in which case the Buyer's rights are limited to that extent); or
- b) The Goods are a Dolly acquired for use principally in the transport of goods on sealed public roads;
- c) Unless the Buyer acquired the Goods for the purpose of re-supply or the purpose of using it up or transforming it in trade or commerce.



4. The Goods come with guarantees that cannot be excluded under the Australian Consumer Law. The Buyer is entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. The Buyer is also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.

DOLLY MANUAL

5. The benefits given to the Buyer by this Warranty are in addition to other rights and remedies that it may have in relation to the Goods.

Limitations on Warranty

- 6. The Warranty will not apply to any claim arising out of:
 - a) Misuse, including but not limited to using a Dolly with a load in excess of its structural or legal capacity as specified at the date of purchase;
 - b) Failure to maintain and service the Goods at appropriate intervals by an appropriate professional as per our maintenance manual, including (but not limited to):
 - (i) Regular maintenance and service;
 - (ii) Regular greasing of all components on the goods which require grease (including greaseable hinges, wheel bearings and grease nipples etc.);
 - (iii) Inspection of wheel nuts and U-bolts after the first 50km of travel;
 - (iv) Regular inspection of wheel pressures;
 - (v) Regular inspection of all fittings and fasteners;
 - (vi) Regular inspection of dolly ride-height in order to maintain 360mm at all times.
 - c) Maltreatment, inattention, or interference including but not limited to rust, or coating with any preparation not approved in writing by ABS;
 - d) Wear and tear of components that require regular replacement including but not limited wheel bearings, seals, couplings, brakes, tyres, rims, dock rubbers and scuff strips;
 - e) Fair wear and tear, damage caused by improper use, misuse or abuse, defects due to modifications, accidents, damage caused by vandalism, rusting, acts of nature or any other event beyond the control of ABS;
 - f) Wear and tear of tyres;
 - g) Cosmetic appearance, including the galvanized surface and the paint becoming dull, faded or chipped and scratching, scuffing or natural breakdown of materials, including rust on the dolly;
 - h) Use or improper use, adjustment, calibration or operation by the Buyer or any person on behalf of the Buyer;
 - i) Any modification which was not authorized in writing by ABS and/or not performed by an authorized service representative;

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



Page 3 of 94

DOLLY MANUAL

2.0 ABS Trailquip Pty Ltd Dolly Warranty

- J) Use that is not in accordance with any instructions given by ABS including loading the Dolly in excess of its structural capacity as designated by ABS or exceeding the recommended speed limit;
- k) Inadequate or improper storage, maintenance or transportation;
- I) Exposure to heat and moisture, outside of standard operating conditions;
- m) Damage caused by the continued use of damaged Goods; or
- n) Accidental or intentional damage by a person or animal.

Note: ABS Trailquip reserves the right to sight records of scheduled maintenance to verify maintenance to specification has been conducted, prior to honoring the warranty.

- 7. Subject to ABS's obligations under applicable law that cannot be excluded, modified or restricted, including as described in clause 2 and 3 ABS's liability:
 - a) In relation to Goods is limited to ABS's choice of one of the following options:
 - (i) Repair the Goods;
 - (ii) Replace the Goods; or
 - (iii) Refund the price paid for the Goods;
 - b) In relation to Repairs is limited to ABS's choice of one of the following options:
 - (i) Providing the Repair again; or
 - (ii) Refund the price paid for the Repair (the value as agreed and pre-approved by ABS Trailquip); and
 - c) Does not include or extend to costs associated with the transportation of defective Goods or Repaired goods, or resulting downtime.
- 8. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the Goods.
- 9. ABS makes no representation or warranty in relation to any Goods not manufactured by ABS, including but not limited to tyres, axles, suspensions, brakes, shock absorbers and hydraulics. The Buyers agrees to look solely to the warranties provided by ABS of those goods.
- 10. Replaced parts become the property of ABS. If parts are returned under this Warranty, the Buyer is not entitled to make any deduction from remittances or current accounts without ABS's consent.
- 11. Nothing in this Warranty is intended to have the effect of excluding any applicable provisions of the Australian Consumer Law.

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip





Valand



DOLLY MANUAL

2.0 ABS Trailquip Pty Ltd Dolly Warranty

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 5 of 94

and the N

DOLLY MANUAL

2.0 ABS Trailquip Pty Ltd Dolly Warranty

12. ABS will, under no circumstances, be liable for any damage, whether direct, indirect, special or consequential, arising in any way out of the use of or in relation to the Products, whether as a result of ABS's negligence or otherwise. This includes loss of freight, loss of earnings or loss of contracts.

Goods Purchased for the Purpose of Resupply

The following provisions apply to Goods purchased for the purpose of resupply by the Buyer.

- 13. If the Goods are sold to the Buyer's customers, the Buyer must ensure there has been no reliance by its customers on any promise or representation as to the nature, quality or quantity of the Goods, contrary to the Warranty.
- 14. If the goods have been altered, modified, adjusted, converted, transformed or altered in any way whatsoever, the Warranty will not apply.
- 15. The Buyer acknowledges that:
 - a) If the Buyer sells the Goods to any person by reference to a sample, that sample is not supplied by ABS; and
 - b) Any sale by sample by the Buyer to any person is not referable to the sale or supply of the Goods by ABS to the Buyer.

Making a Claim

- 16. The Buyer must:
 - a) Contact ABS by phone or email with a description of the issue or defect;
 - Return the Goods to ABS as directed at the Buyer's cost and risk; Provide satisfactory proof of purchase in the form of a copy of the Order, delivery docket, tax invoice or a copy of the receipt;
 - c) Not use the Goods once a claim is notified by the Buyer to ABS and prior to the Buyer returning the Goods to ABS for an inspection; and
 - d) Bear the expense of claiming under the Warranty.
- 17. Please note that any claim under this Warranty must be notified to ABS within a reasonable time (and in any event within 14 days) after the Buyer first noticed or ought reasonably to have noticed the issue or defect. If ABS is not notified of the claim within a reasonable time of the Buyer first noticing the issue or defect, ABS may in its absolute discretion deny the claim.
- 18. Where the Goods comprise a Dolly, the Buyer acknowledges and agrees that the Dolly is designed for use on sealed roads only and use of the Dolly on an unsealed road voids this warranty.

and the last



DOLLY MANUAL

3.0 Dolly Pre-Start Up Checklist

- Check Drawbar A-Frame for signs of cracking;
- Check Drawbar pivot points for wear, damage and tension;
- Check towing eye for wear;
- Visual check on dolly chassis for signs of cracks;
- Check for loose wheel nuts;
- Check tyre condition;
- Check for correct axle alignment (wheel spacing);
- Check all lights are working;
- Check for correct brake adjustment;
- Check for air leaks on air suspension and brake system;
- Carry out inspection as listed in Axle Service Maintenance where applicable; and
- Carry out inspection as listed in Suspension Service Maintenance where applicable.



If any problems should arise as per the checklist, the Dolly should not be operated and the problems need to be rectified immediately.

Contact ABS Trailquip at 07-3274 6046 if further assistance is required.

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 7 of 94

V Re A LAN A P

4.0 Dolly Torque Settings & Quick Service Reference

4.1 Dolly Torque Settings Information Overview

Axle Torque Setting: Description	ft-lbs	Nm
Flanged Wheel Nut (M22x1.5)	425 - 465	570 - 630
Rim Clamp Nut (¾ UNC) for Spider Axles	200 - 250	270 - 340
Camshaft Related Nuts M10	40	50
Hub Cap (Screw On) Spanner P/N: TQA-HC07	55 - 75	70 - 100
Brake Chamber Nut	130 – 150	180 - 205

DOLLY MANUAL

Air Suspension Torque Setting: Description	ft-lbs	Nm
U-Bolt (M22x1.5)	445 - 480	600 - 650
Spring Eye Bolt (M27x1.5) <i>Spanner P/N: TQA-TOOL003</i>	410 - 445	550 - 600
Shock Absorber Bolt (M24x3)	295 - 310	400 - 420
Airbag Top Mounting Bolt (¾-16UNF)	80 - 100	110 - 135
Airbag Bottom Mounting Casting (M16x2)	170 - 185	230 - 250
Airbag Bottom Mounting Bolt (1/2-13UNC)	30 - 40	40 - 50

ft-lbs	Nm
215 - 260	290 - 350
370 - 740	500 - 1000
	215 - 260

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



O RELAX A

Dolly Torque Settings & Quick Service Reference 4.0

4.2 **Quick Service Reference Guide**

AIR BRAKE SERVICES TRAILOUIP

QUICK SERVICE REFERENCE FOR 10 TON TRAILER RUNNING GEAR

TRAILER PRE-START UP CHECKLIST

- · Check Drawbar A-Frame for signs of cracking;
- · Check Drawbar pivot points for wear, damage & tension;
- · Check towing eye for wear;
- Visual check on trailer chassis for signs of cracks; · Check for loose wheel nuts;
- · Check tyre condition;
- · Check for correct axle alignment (wheel spacing);
- · Check all lights are working; · Check for correct brake adjustment;
- Check for air leaks on air suspension & brake system;
- · Carry out inspection as listed in Axle Service Maintenance where

DOLLY MANUAL

- applicable: &
- · Carry out inspection as listed in Suspension Service Maintenance where applicable
- If any problems should arise as per the checklist, the Trailer should not be operated & the problems need to be rectified immediately.

10 TON DRUM BRAKE AXLE SERVICE INTERVALS

After Break-In Period of 1 Week or 50km (whichever comes first) & thereafter Weekly:

- Check torque setting on all wheel nuts (425–465ft-lb, 570-630Nm); &
- · Laser wheel-alignment must be carried out & documented.

After first 5,000km:

· Check all wheel bearings' end float & adjust as required.

Every 5,000km:

- Check & adjust brakes: &
- Check brake lining wear. Every 25,000km:
- Grease all grease nipples:

Inspect camshafts & related components for wear & damage; Check torque settings on all camshaft related components; &

• U-Shaped Spring Retainer Plate U-bolts (325-375Nm)

Laser wheel-alignment must be carried out & documented.

After Break-In Period of 1 Week or 50km (whichever comes first):

Every 25,000km (Continued):

- · Lift axle ends & Check wheel bearing free play & adjust as required. Replace bearings if noise is detected during rotation.
- Every 100,000km:
- · Inspect all wheel bearings for correct lubrication, repack if insufficient & replace if contaminated;
- · Inspect all wheel bearings' end float & adjust as required;
- · Inspect wheel seals & replace if worn or damaged;
- Check axle nuts for correct torque setting;
 Check for sufficient grease at hub ends & adjust as required;
- · Check axle & brake components for wear, repair or replace as
- required: &
- · Check brake system is functional & all brake system related valves operates correctly.

REFER TO ABS TRAILQUIP MANUAL FOR ALL TORQUE SETTINGS AND ANY ADDITIONAL INFORMATON

10 TON MECHANICAL SUSPENSION SERVICE INTERVALS

- Every 50,000 km or every 6 months
- Check all torque settings as for 5,000 km service:
- · Check the torque arm bushes & equaliser shaft bushes for wear or deterioration & replace as necessary;
- · Check the leaf springs for wear, cracks or corrosion & replace as necessary
- Inspect the remainder of the suspension for wear or deterioration & replace any suspect parts as necessary; &

10 TON AIR SUSPENSION SERVICE INTERVAL

After Break-In Period of 1 Week or 50km (whichever comes first): Check torque settings on all fasteners (Especially the following);
 U-bolts (445-480ft-lb, 600-650Nm)

· Check all torque settings & re-torque; &

Torque arm bolt nuts (150-200Nm)

Every 5,000 km or every 3 weeks.

Standard Spring Plate U-bolts (500-550Nm)

- Shock absorber bolt nuts (295-310ft-lb, 400-420Nm)
- Spring eye bolts Cast arm (535-595ft-lb, 720-800Nm)
- Spring eye bolts Parabolic arm (410-445ft-lb, 550-600Nm)
- · Check suspension ride height & adjust to manufacturer's ride height specification as required; &
- · Laser wheel-alignment must be carried out & documented.
- Every 25,000km or Quarterly:
- Check torque settings on all fasteners;
- · Check suspension ride height & adjust to manufacturer's ride height specification as required; &
- Visual inspection of suspension components, including suspension bushes, trailing arms, suspension hangers, suspension air bags &
- shock absorbers for wear, damage & cracking. Repair & replace as required.
- Check suspension bushes for wear & excessive movement. Repair & replace as required;
- Check trailing arms for wear & damage. Repair & replace as required; Check suspension hangers for wear & damage. Repair & replace as

Check torque settings on all fasteners;
 Check suspension ride height & adjust to manufacturer's ride height

· Thorough inspection of all suspension components. Repair & replace

- required; · Check suspension air bags for leaks & wear. Repair & replace as
- required: · Check shock absorbers & shock absorber bushes for leaks, wear &
- excessive movement. Repair & replace as required; &
- · Check axle alignment & adjust as required.

REFER TO ABS TRAILQUIP MANUAL FOR ALL TORQUE SETTINGS AND ANY ADDITIONAL INFORMATON

Loose suspension fasteners & worn parts may cause vehicle instability resulting in loss of control & damage. Over-torquing can result in fastener failure. Always use a torque wrench, never a rattle gun when tightening fasteners.

Depending on the suspension service application, shorter service intervals may be required to maintain trailer suspension in working order. In extreme service conditions, weekly or daily service inspections may be required.

Axle alignment must be done when severe kerb contact or accidental damage occurs. Suspension bushes must be checked for damage. Replace if required.

Failure to maintain & document the trailer as per the running gear specifications will void any warranty

If in doubt, please contact ABS Trailquip at sales@abstrailquip.com.

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



Page 9 of 94

· Check all torque settings (Especially U-bolt & torque arm bolt nut); · Check tyre wear & adjust the axle alignment as necessary.

REFER TO ABS TRAILQUIP MANUAL FOR ALL TORQUE SETTINGS AND ANY ADDITIONAL INFORMATON

Every 100.000km or Yearly:

specification as required;

as required;





5.0 TP / Parallel Bearing TQA Trailquip Axle

5.1 Recommended Service Intervals

After Break-in Period of 1 Week or 50km (whichever comes first) and thereafter Weekly:

• Check torque setting on all wheel nuts.

After first 5,000km:

• Check all wheel bearings' end float and adjust as required.

Every 5,000km:

- Check and adjust brakes; and
- Check brake lining wear.

Every 25,000km:

- Grease all grease nipples;
- Inspect camshafts and related components for wear and damage;
- Check torque settings on all camshaft related components; and
- Lift up axle ends and check wheel bearing free play and adjust as required. Replace bearings if noise is detected during rotation.

Every 100,000km:

- Inspect all wheel bearings' lubricant, repack if insufficient and replace if contaminated;
- Inspect all wheel bearings' end float and adjust as required;
- Inspect wheel seals and replace if worn or damaged;
- Check axle nuts' torque setting;
- Check amount of grease at hub ends and adjust as required;
- Check axle and brake components for wear, repair or replace as required; and
- Check brake system is functional and all brake system related valves operates correctly.





and the last

DOLLY MANUAL

5.0 TP / Parallel Bearing TQA Trailquip Axle

5.2 Wheel Bearing Adjustments

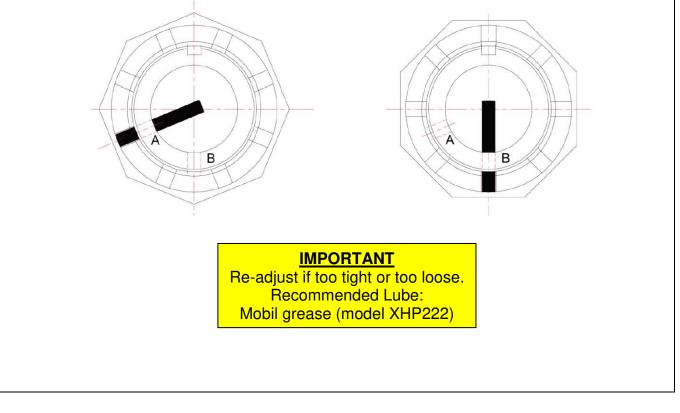
All axles are recommended to have the wheel bearings adjusted after the first 5,000km and then inspected at 25,000km and 100,000km intervals as per the **Recommended Service Intervals**. Depending on the axle service application, shorter service intervals may be required to maintain the axle in working order.

Recommended wheel bearing adjustment procedure:

- 1. Make sure that the hub revolves freely and if necessary, temporarily slacken off the brake adjustment to ensure complete freedom from brake binding (drag);
- Rotate the hub in both directions while tightening the axle castellated nut and torque till 270 Nm (200 ft-lbs);
- 3. Back off the castellated nut one turn;
- 4. Tighten the castellated nut to 68 Nm (50 ft-lbs) while rotating the hub in both directions;
- 5. Rotate the hub clockwise 3 turns; and
- 6. Slacken the nut back by ONE slot (or by 45deg). If there is no slot, line up with any pin hole ('A' or 'B', the angle between 'A' & 'B' is 67.5deg), loosen the nut slightly until the nearest pin hole is reached. Insert new split pin through the hole and bend the pin.

AFTER ADJUSTMENT, BEARING END PLAY SHOULD BE BETWEEN 0.025 – 0.13MM, OTHERWISE REPEAT WHEEL BEARING ADJUSTMENTS PROCEDURE.

Ensure hub rotates freely, otherwise repeat Wheel Bearing Adjustments procedure.



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



V Rel and ALAN A

DOLLY MANUAL

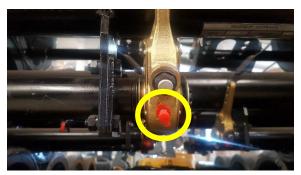
5.0 TP / Parallel Bearing TQA Trailquip Axle

5.3 Axle Component Lubrication

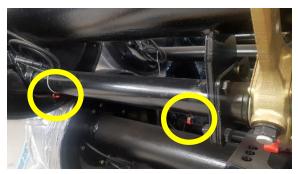
When installing a new axle, ensure all grease channels are filled with grease.

Lubricate all the grease nipples on the axle. This includes lubrication points at the slack adjusters, camshaft tubes or camshaft bushes.

5.3.1 Lubricating the Slack Adjusters, Camshaft Tubes and Camshaft Bushes



Slack adjuster grease points



Camshaft tube grease points



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



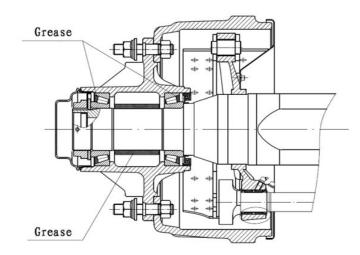
DOLLY MANUAL

5.0 TP / Parallel Bearing TQA Trailquip Axle

5.4 Greasing the Hubs and Wheel Bearings

Mobil grease model XHP222 or equivalent is recommended for greasing the hubs and wheel bearings.

Ensure all components are clean before applying grease to avoid contamination.



Drawing showing grease points at the hub and wheel bearings



Photo showing the bearings packed with grease



Photo showing a greased bearing fitted on to a greased spindle

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip





A A A A

DOLLY MANUAL

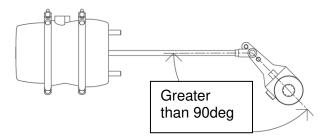
5.0 TP / Parallel Bearing TQA Trailquip Axle

5.5 Brake Adjustments

5.5.1 Manual Slack Adjuster

- 1. Chock the wheels to prevent the vehicle from moving during the procedure and release the trailer parking brakes.
- 2. Adjust the slack adjuster at the adjusting mechanism until the brake shoes come into contact with the brake drum. Common adjusting mechanism includes a 19mm Hex Head with no locking sleeve or a Hex Nut with a locking sleeve, where the locking sleeve has to be depressed before the Hex Nut can be rotated to adjust the brakes.
- 3. Back off the slack adjuster one quarter of a turn to allow just enough clearance between the brake drum and the brake shoes to enable the hub to rotate freely without any brake drag.
- 4. Check that the angle between the brake chamber push rod and the slack adjuster is greater than 90deg when the brakes are released, and that the angle is at 90deg when the brakes are applied. This angle can be adjusted by screwing the pushrod clevis backwards or forwards along the threaded pushrod. Once the angle has been adjusted, tighten the pushrod clevis' lock nut.

All brake actuators on a trailer should be adjusted to have a similar amount of pushrod travel. The pushrod travel of the left brake should be similar to the pushrod travel of the right brake on the axle.



90deg

Drawing of an adjusted slack adjuster when the brakes are released

Drawing of an adjusted slack adjuster when the brakes are applied

Sales office 1898 lpswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



DOLLY MANUAL

STEP 6:

The control arm position can be

set anywhere within the slotted area of the bracket and the

adjuster will function properly.

Recommendation is a "common

the way towards the axle, until the

control arm comes to the end of

the slotted bracket.

position" for all installations-all

TP / Parallel Bearing TQA Trailquip Axle 5.0

5.5.2 Automatic Slack Adjuster



STEP 1:

Chock the wheels to prevent vehicle from rolling. Ensure system tank pressure is above 100 PSI. Check that the pushrod is fully retracted. Apply air to release spring brake. If air is not available, spring brake must be manually caged back. Install anchor bracket loosely as illustrated. Some strap brackets have two mounting holes Proper mounting location is determined by the length of adjuster arm. 5" and 5 1/2" adjuster arm lengths utilize the shorter hole location while 6" and 6 1/2" length adjusters utilize the longer hole locations. Do not tighten anchor bracket fasteners at this time. Apply "Anti-Seize" type lubricant to camshaft splines.

STEP 2:

STEP 3:

.060"

Place at least one inner cam washer on shaft. Install adjuster with the 7/16" adjusting hex pointing away from the spring brake or service chamber.

Secure adjuster to shaft with

snap ring. Install enough washers

to reduce end play to less than



011





Back-off the adjuster by rotating adjusting hex counter-clockwise 1/2 turn. A ratcheting sound will occur, which is normal. Never use an impact wrench or internal damage will occur.

Final Inspection: - Recheck all fasteners for proper installation. Before releasing vehicle, activate brakes several times assuring no binding or partial release. Full pushrod travel and release is necessary for proper brake adjustment.

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 15 of 94

STEP 7:

Insert the flat end of the anchor stud through the control arm bushing. Push the threaded end into the

anchor plate slot and loosely install flange nut. Installation of different style anchor brackets and attachment methods follow a similar procedure.

STEP 8

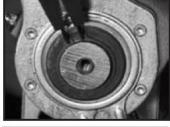
After positioning control arm and anchor pin to desired location, tighten the flange nut to 40-50 ft. lbs. Note: control arm position is all the way toward the axle. AA1 control arm position is such that the installation indicator falls within the control cover slot. These common positions work well for most

applications. STEP 9:

The adjuster must be manually adjusted at this time. Adjust brakes by rotating the 7/16" adjusting hex clockwise until the lining lightly contacts the drum.

STEP 10:









STEP 4: Rotate the 7/16" adjusting hex nut clockwise until the clevis hole lines up with the brake adjuster arm hole. Do not pull pushrod out to meet clevis.

STEP 5: Apply "Anti-Seize" type lubricant to clevis pin, install and secure with cotter pin.



Valan A A

DOLLY MANUAL

5.0 TP / Parallel Bearing TQA Trailquip Axle

5.6 Torque Settings Table

Description	ft-lbs	Nm
Flanged Wheel Nut (M22x1.5)	425 - 465	570 - 630
Rim Clamp Nut (¾ UNC) for Spider Axles	200 - 250	270 - 340
Camshaft Related Nuts M10	40	50
Hub Cap (Screw On) Spanner P/N: TQA-HC07	55 - 75	70 - 100
Brake Chamber Nut	130 – 150	180 - 205





V Relation Charles A

DOLLY MANUAL

6.0 TQA Robust Air Suspension 360mm Ride Height

6.1 Recommended Service Intervals

After Break-In Period of 1 Week or 500km (whichever comes first):

- Check torque settings on all fasteners and U-Bolts; and
- Check suspension ride height, and if out of manufacturer's ride height specification, adjust to manufacturer's ride height specification.

Every 25,000km or Quarterly:

- Check torque settings on all fasteners;
- Check torque settings on all U-Bolts;
- Check suspension ride height, and if out of manufacturer's ride height specification, adjust to manufacturer's ride height specification; and
- Conduct visual inspection of suspension components, including suspension bushes, trailing arms, suspension hangers, suspension air bags and shock absorbers for wear, damage and cracking. Repair and replace as required.

Every 100,000km or Annually:

- Check torque settings on all fasteners;
- Check torque settings on all U-Bolts;
- Check suspension ride height, and if out of manufacturer's ride height specification adjust to manufacturer's ride height specification;
- Conduct thorough inspection of all suspension components for wear, damage and cracking. Repair and replace as required;
- Check suspension bushes for wear and excessive movement. Repair and replace as required;
- Check trailing arms for wear, damage and cracking. Repair and replace as required;
- Check suspension hangers for wear, damage and cracking. Repair and replace as required;
- Check suspension air bags for leaks and wear. Repair and replace as required;
- Check shock absorbers & shock absorber bushes for leaks, wear and excessive movement. Repair and replace as required; and
- Check axle alignment and adjust as required.

Depending on the suspension service application, shorter service intervals may be required to maintain trailer suspension in working order. In extreme service conditions, weekly or daily service inspections may be required.

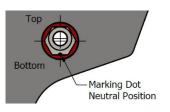
Axle alignment must be done when severe kerb contact or accidental damage occurs. Suspension bushes must be checked for damage. Replace if required.

DOLLY MANUAL

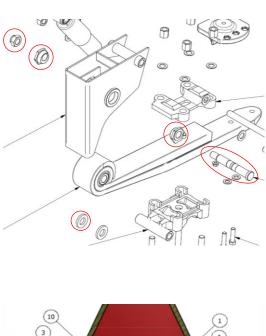
6.0 TQA Robust Air Suspension 360mm Ride Height

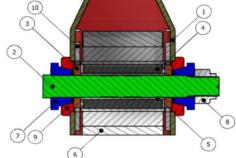
6.2 Replacing Trailing Arm Spring Eye Bush

- 1. Loosen the locknut and remove spring eye bolt, locknut, eccentric washer;
- 2. Lower the Spring;
- 3. Check the inner wear washer & wear plate and replace if necessary;
- 4. Push the spring eye bush out;
- 5. Clean the link eye of the inner spring;
- 6. Press in replacement spring eye bush with an appropriate tool;
- 7. Slide the inner wear washers onto the spring eye bush;
- Lift the spring and insert a new spring eye bolt with the eccentric washer fitted;
- 9. Install the eccentric washer and locknut;
- 10. Align the eccentric washer marking to point to the ground. If the marking is not visible, align the eccentric washers as per the drawing below;



- 11. Pre-tighten the locknut to 200Nm;
- 12. Do a wheel Alignment (Laser wheel alignment recommended);
- 13. Once wheel alignment is done, tighten the spring eye bolt to 550-600Nm.





- 1. Hanger Bracket
- 2. Spring Eye Bolt
- 3. Inner Wear Washer
- 4. Rubber Insert in Spring Eye Bush
- 5. Spring Eye Bush
- 6. Parabolic Spring
- 7. Eccentric Washer
- 8. Locknut
- 9. Weld-on Collar
- 10. Wear Plate

IMPORTANT: The threaded connection of the spring eye bolt and seating surfaces must be free of grease or any lubricant. Failure to comply may cause the locknut to come loose.

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

6.0 TQA Robust Air Suspension 360mm Ride Height

6.3 Height Control Valve Adjustment

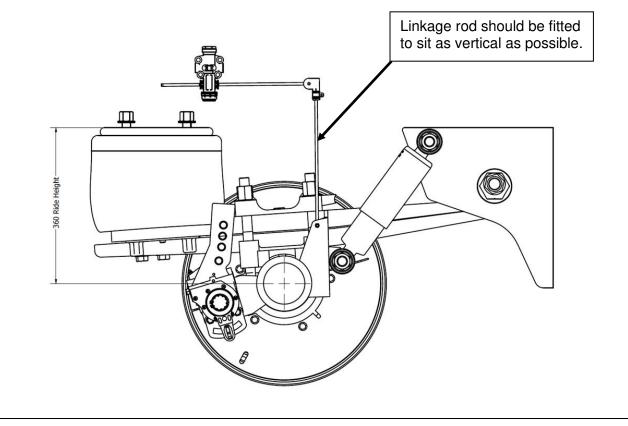
IMPORTANT

DOLLY MANUAL

There is only one correct ride height for each vehicle. (Refer to manufacturer's suspension drawing). Improper ride heights will lead to component failures, including: poor ride, excessive vibration, cracking of suspension components, and shock absorber failure.

Before setting the height control valve, park the trailer on smooth level ground.

- 1. Fully charge the air reservoir tanks.
- 2. Disconnect the linkages to the lower brackets, then lift the control arm to the 'up' position to raise the air bags or move the control arm to the 'down' position to dump the air bags.
- 3. Ride height adjustments are made by adjusting the valve or length of the vertical linkage.
- 4. Rotate the control arm to the neutral position when the correct ride height is obtained. At neutral position, the air bags will neither raise nor lower.
- 5. After the ride height has been set, check all adjustments and linkage connections are retightened to the manufacturer's recommended level of torque tightness.
- 6. To recheck the adjustment, disconnect the linkage and exhaust the air bags to about half full.
- 7. Reconnect the linkage, which will inflate the air springs, then check that this is now at the correct setting height.



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

All C



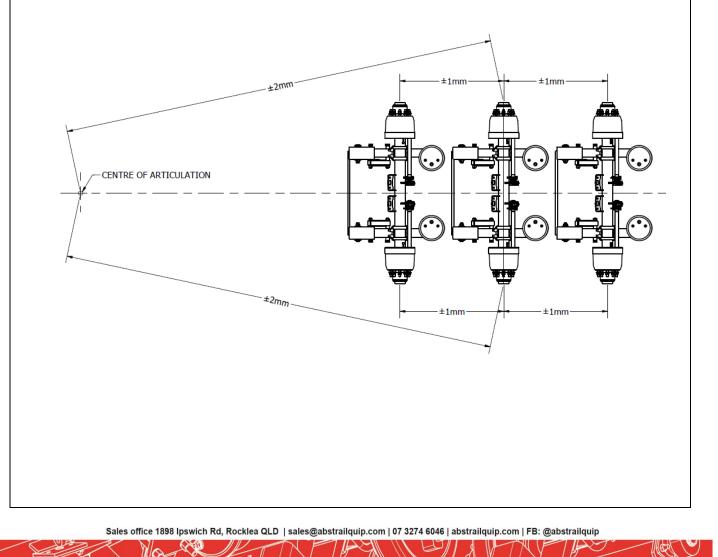
DOLLY MANUAL

6.0 TQA Robust Air Suspension 360mm Ride Height

6.4 Axle Alignment

A trailer that is properly aligned will have improved drivability and fuel economy, and minimised tyre wear. The following steps are to assist in carrying out a proper wheel alignment on a Tri Axle trailer:

- 1. Park the trailer on smooth level ground;
- 2. Check all the tyres are of the same size and have equal air pressure in them. Adjust air pressure accordingly as required;
- 3. Check trailer suspension ride height against manufacturer's specification and adjust as required;
- 4. Release the trailer parking brakes;
- 5. Align the wheel as per diagram below, measuring from the trailer articulation point to the centre of each end of the middle axle, then moving on to the 1st axle and 3rd axle;

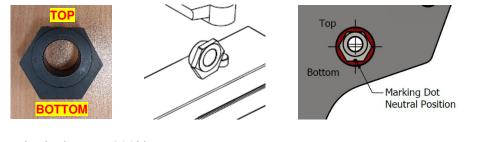


and the second

DOLLY MANUAL

6.0 TQA Robust Air Suspension 360mm Ride Height

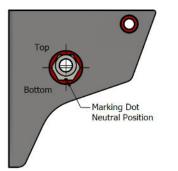
6. To align the axles, loosen the spring eye bolt locknut and align all the eccentric washers marking to point to the ground. If the marking is not visible, align the eccentric washers as per photo & drawing below:

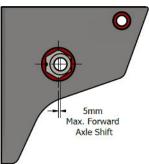


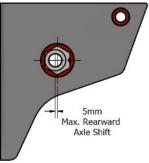
- 7. Tighten the locknut to 200Nm
- Make adjustments via the eccentric washer until desired axle alignment is achieved.
 Please note both eccentric washers on the same hanger must be adjusted together at the same time

and make sure they have the same angular position. Markings must be exactly opposite each other. Contact ABS Trailquip for more information on the special tool available to do the adjustment. P/N: TQA-TOOL003, Robust Suspension Spring Eye Alignment Bolt Spanner

Driving Direction







9. Tightened the spring eye bolt to 550-600Nm;

Whenever possible, carry out axle alignment with a wheel alignment laser or optical aligning device for accurate measurements.

IMPORTANT: The threaded connection of the spring eye bolt and seating surfaces must be free of grease or any lubricant. Failure to comply may cause the locknut to come loose.

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

DOLLY MANUAL

6.0 TQA Robust Air Suspension 360mm Ride Height

6.5 Axle Safety Catch Strap

Axle Safety Catch Straps help prevents the suspension from over extension, which can cause breakage to the shock absorber mounting componentry. The catch straps also assist in preventing the axle from rolling away during impact, or breakage of connection points, eg. axle saddle, pivot bolts. If the catch straps are missing from the dolly, please contact ABS Trailquip for more information on how to purchase them.







Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

V Change Land

DOLLY MANUAL

TQA Robust Air Suspension 360mm Ride Height 6.0 6.6 **Air Suspension Drawing** 1065 135 780 485 32.5 150 血 1 \oplus 135 360 RIDE HEIGHT j 00 17 20 e (11) 0 0 9 0 C 18 1 3 8 6 13 16 15 14 6 x x 2 2 (19) **₽**₽-2 105 22 23 21

6.7 Torque Settings Table

Description	ft-lbs	Nm
U-Bolt (M22x1.5)	445 - 480	600 - 650
Spring Eye Bolt (M27x1.5) Spanner P/N: TQA-TOOL003	410 - 445	550 - 600
Shock Absorber Bolt (M24x3)	295 - 310	400 - 420
Airbag Top Mounting Bolt (¾-16UNF)	80 - 100	110 - 135
Airbag Bottom Mounting Casting (M16x2)	170 - 185	230 - 250
Airbag Bottom Mounting Bolt (1/2-13UNC)	30 - 40	40 - 50

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



D	rawings – TQA 10Stud Drum Brake Parallel Bear	ing Axle
		Isobotocol str monter / has AXLES Total A3 A3 A
2		MARK/TUBE TQLMACT PAMA MARK/TUBE TQLMACT MAR MAR MAR
ß	000	Соругідні © ABS Trailquip Pty Ltd Au кілет язекию, ти монантони тис косолент заканст тивая колосилисто Fra кадененто саканст илява килосилистов Fra кадененто саканст илява килосили продекция на токанст кала кала кала продекция па о визсоказо онглак Екрепенту ком какиза па и визсоказо сизак Екрепенту ком какиза и визсоказо сизак Екрепенту ком какиза и визсоказо сизак Екрепенту ком какиза о визсоказо сизак Екрепенту ком какиза си визсоказо сизак Екрепенту ком какиза и визсоказо сизак Екрепенту ком каки сакиза и визсоказо сизак Екрепенту ком каки сакиза и визсоказо сизак Екрепенту ком каки сакиза и виз сизак виз сизак виз сизак виз сизак и виз сизак виз сизак виз сизак виз сизак сизак сизак виз сизак виз сизак виз сизак виз сизак сизак сизак виз сизак виз сизак виз сизак виз сизак сизак сизак виз сизак виз сизак виз сизак виз сизак виз сизак виз сизак виз
4		bate Initials APPROVED
_		REV DESCRIPTION OF CHANGE
2		AIR BRAIKE SERVICES TRAILOUIP Rodea T: (07) 3274 6046 F: (07) 3274 f: (07) 3274 6046 f: (07) 3274 6076 f: (07) 3274 f: (07) 3274 f: (07) 3276 f:
و	© MAKE: TRAILQUIP MODEL: TQA2 SARN: 36980	A A AIR BRAK 1898 [pswich Rd, Rocklea QLD, 4105, Jacstella www.abstratique.com AIRs Suspension Air Brakes Adles Suspension

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 24 of 94

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1 ABS Trailquip Pty Ltd 2018

DOLLY MANUAL

		a		6		T	Τ	Τ			H Kit)	+ NIL)		T		0		Τ			Τ		Π			E)					-	4 Kit)			×		
1 ST	DESCRIPTION	Automatic Slack Adjuster - HDX Type 10-Spline 4-Hole ABS Sensor Richt Ancle 1mtr	ABS Sensor Clamping Retainer Bush	Hub 20in 10 Stud 285 PCD	Brake Drum 20" 10 Stud 285PCD	Oil Grease Seal Parallel Axle	20" Propar Axle with Brake Spiders Flanges Wheel Nut Suit 10-Ton Axle	yes writed rut Jur 10-10ft Axie Wheel Stud Long 20" Axie	Dust Cover Suit 20" 10-Stud Axle	Bearing - Parallel Suit TQA Axle HM518445/10	S-Cam 41.6mm ID (Out Side) (Part of TQA-ASP144 Kit)	S-Cam Bush Retaining Circlip (Part of TQA-ASP144 Kit)	Slack Adjuster Circlip (Part of TQA-ASP144 Kit)	Camshaft 20in Propar 10-Spline LHS Camshaft 20in Pronar 10-Soline RHS	S-Cam_Roller (Part of TQA-ASP068 Kit)	Anchot Pin Spring (Part of TQA-ASP068 Kit)	Heavy Duty Return Spring (Part of TQA-ASP068 Kit)	Brake Shoe Anchor Pin (Part of TQA-ASP068 Kit) Anchor Pin Bush (Part of TOA-ASP068 Kit)	M6 Grease Nipple (Part of TQA-ASP144 Kit)	Camshaft Tube	Camshaft Tube Bush (Part of TQA-ASP144 Kit)	Washer S-Cam 38.5mm ID (Part of TQA-ASP144 Kit)	20in Brake Shoe (Part of TQA-ASP068 Kit)	E Cham Pollor Policies (Part of TQA-ASP068 Kit)	S-Cam Roller Retainer Nut (Part of TQA-ASP068 Kit)	S-Cam Roller Retainer Spring (Part of TQA-ASP068 Kit)	S-Cam Roller Retainer Bolt (Part of TQA-ASP068 Kit) Connelled Look Net (Dart of TOA-ACD143 MR)	phildie LOCK NUL (Fait OF TQA-ASF143 NL) Thrust Washer (Part of TQA-ASP143 Kit)	Spindle Split Pin (Part of TQA-ASP143 Kit)	ABS Sensor Bracket	Dust Cover Suit Propar Axle (Part of TOA-ASP143 Kit)	S-Cam Grase Seal 2-3.16x1-5.8x5.16 (Part of TQA-ASP144 Kit)	S-Cam Bush O-Ring (Part of TQA-ASP144 Kit) ACB Dolo Ding 165-Mount	Hub Cap Scew Propar Style		Axie 20" 285 PCD 10 Stud	PART NUMBER TQA-20-10A
2 PARTS LIS		Automatic Si	ABS		B	.oc	zu Flar	2	ă	Bearing -	Washer S-Cam 41	S-Cam Bush	Slack Adj	Can	S-Car	Anchot	Heavy Duty	Brake Sho Anchor	M6 Gre		Camshaf	Washer S-C	20in BI	Heavy	S-Cam Rolle	S-Cam Roller	S-Cam Rolle	Thrus	Spindle		Dust Cover 9	S-Cam Grase Sea	S-Cam B		DRAWN ASF 15/05/2020 CHECKED	MFG APPROVED	SHEET 2 OF 4 SCALE 1/15
	PART NUMBER	AA80567 FA4410328090	EA8997605104	TQA00008/1	TQA00009/1	TQA00010	TQA-20-BA-5 TOA00042	TQA-ASP003	TQA-ASP009	TQA-ASP017	TQA-ASP027	TQA-ASP030	TQA-ASP043	TOA-ASP04/	TQA-ASP050	TQA-ASP052	TQA-ASP053	TOA-ASP059	TQA-ASP061	TQA-ASP062	TQA-ASP063	TQA-ASP066	TQA-ASP068-01	TQA-ASP068-09	TQA-ASP068-11	TQA-ASP068-12	TQA-ASP068-13	TOA-ASP073	TQA-ASP074	TQA-ASP115	TOA-ASP143-2	TQA-ASP144-01	TQA-ASP144-02	TQA-HC01-SILVER	-	> 5000 6-112 MM: 13 - 20 MM: 20 - 26 MM: 26 - 30 MM: 26 - 30 MM: 26 - 30 MM: 26 - 30 MM:	0.00 = +/- 0.10MM 0.00 = +/- 0.00MM
_	ITEM QTY I	2 0	7	2	2	7	1 20	50	2	4	7	~ t	2		4	2	4	4 4	4	2	4 r	7	4	4 0	04	4	4 0	~ ~	1 7	2	2	2	2 6		Pty Ltd	UPPLIED TO ON IN THIS ON IN THIS SE: COMISATION AY OR STORED	
_				(1			22 A			000		- BOOO	7	13 13	70	7 (1 2r	C7 4C	1_																APPROVED	Control Contro	OF ABS TRAILQUIP I
4						X	(Tot a								/	3)	25	40)))))))))))))))))))))))))))))))))))))))))												DATE INITIALS		
					((2)	5	6.)	16	/	-	A.) ((30)	31)		32		33) 18	<							DESCRIPTION OF CHANGE		-
									W.	9		/	V	NO	1	A		1	(9	2)		/	-		/	1	J								>		
5			(2) (°	/	37)	2//		e C			و (6	× /			FE						The second second			50	Con	87						AIR BRAKE SERVICES TRAILOUIP	22	Lights Landing Legs

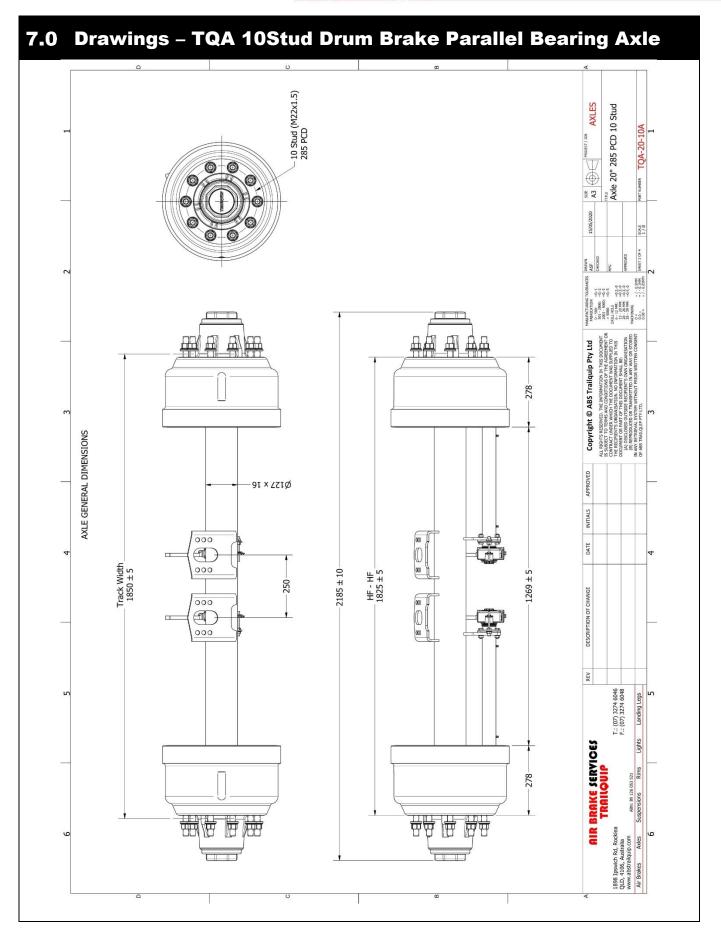
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



Page 25 of 94

O Real A A A

DOLLY MANUAL

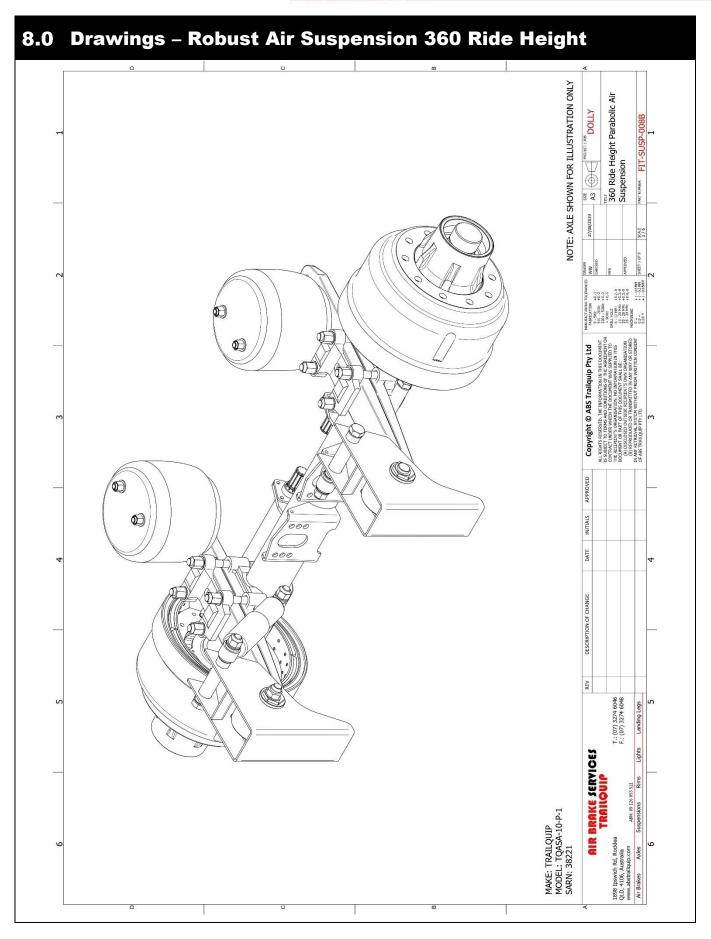


Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 26 of 94

L

DOLLY MANUAL



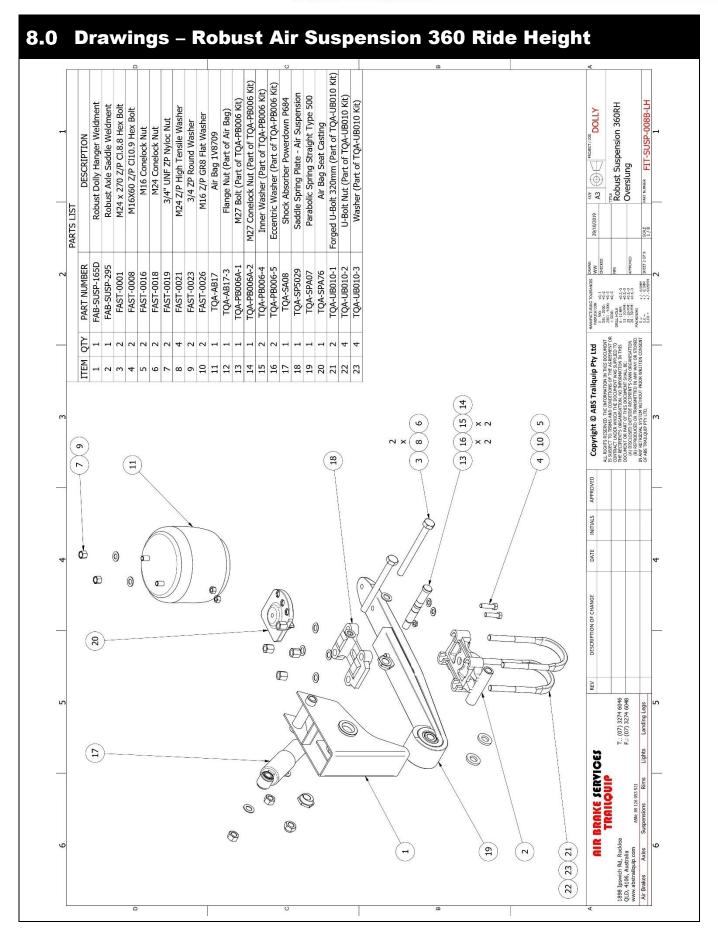
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

*ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 27 of 94

V R

DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

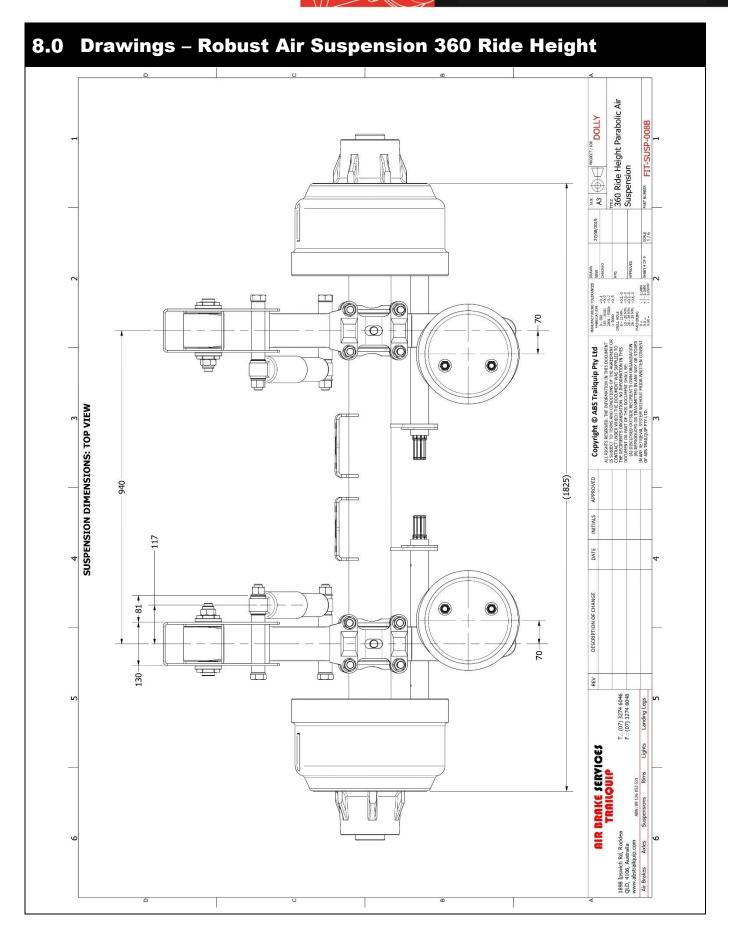
Page 28 of 94

U to a contraction of the second

DOLLY MANUAL

2 1 2 PARTS LIST ER DESCRIPTION 55 Robust Alle Saddle Weldment 65 Robust Ake Saddle Weldment 6 M24 X 270 Z/P CI.8.8 Hex Bolt 7 M16 Conelock Nut 8 M26 Z/P CI.8.8 Hex Bolt 7 M16 Conelock Nut 8 M24 Z Conelock Nut 9 3/4" UNF ZP Myloc Nut 7 M24 Z Conelock Nut 8 M24 Z Conelock Nut 9 3/4" UNF ZP Myloc Nut 1 M24 Z Conelock Nut 1 M24 Z P High Tensile Washer 1 M24 Z Conelock Nut (Part of TQA-PB006 Kt) 1 M25 Conelock Nut (Part of TQA-PB006 Kt) 1 M25 Conelock Nut (Part of TQA-PB006 Kt) 2 Z Conelock Nut (Part of TQA-PB006 Kt) 2 Saddle Spring Straight Type 500 2 Saddle Spring Straight Type 500 2 Parabolic Spring Straight Type 500 2 Saddle Spring Straight Type 500 2 Washer (Part of TQA-UB010 Kit) 2 Washer (Part of TQA-UB010 Kit)	The second secon
	A3 Constraints
	29/10/2019 504E 1/5
101010142490000000000121312051310000000000000000000	ANCES DRAMMA WWW OPIECKED ANTROVED ANTROVED ANTROVED ANTROVED
2 PART NUMBER FAB-SUSP-165D FAB-SUSP-165D FAB-SUSP-205 FAST-0001 FAST-0016 FAST-0019 FAST-0016 FAST-0026 TQA-AB17-3 FAST-0026 TQA-AB17-3 TQA-AB106-5 TQA-S006 TQA-S006 TQA-AB106-5 TQA-B000-5 TQA-B00-5 TQA-B00-5 TQA-B000-5 TQA-B000-5 TQA-B00-5 TQA-5 TQA-5 TQA-5 TQA-	MARACTERIN DUCIONCE MARACTERIN DUCIONCE MARACTERIN DUCIONCE 2011 2011 2011 2011 2011 2011 2011 2011
ITEM QTV 1 1 1 2 1 2 2 3 3 3 2 4 2 1 13 1 14 1 15 2 16 2 17 1 18 1 19 1 19 1 19 1 22 2 23 4 23 4 23 4	Pty Ltd HE DOCUMENT HIS DOCUMENT ARRENENT SUPPLIED TO DOM 10 THIS BE: BE: MACANISATION AN CANSENT ITTEN CONSENT
	Copyright © ABS Traiquip Pty Ltd A atoms teacher. The advancement Isseet To the search and a concernent Isseet To the search of the advancement of the advancement of
	Соругідіт.
	APPROVED
	DATE
	DESCRIPTION OF CHANGE
5	REV T.: (07) 3274 6046 F.: (07) 3274 6046 Landing Legs
	10000000 AV
	AIR BRAIKE SERVICES TRAILOUIP la Jerresons Runs Lights

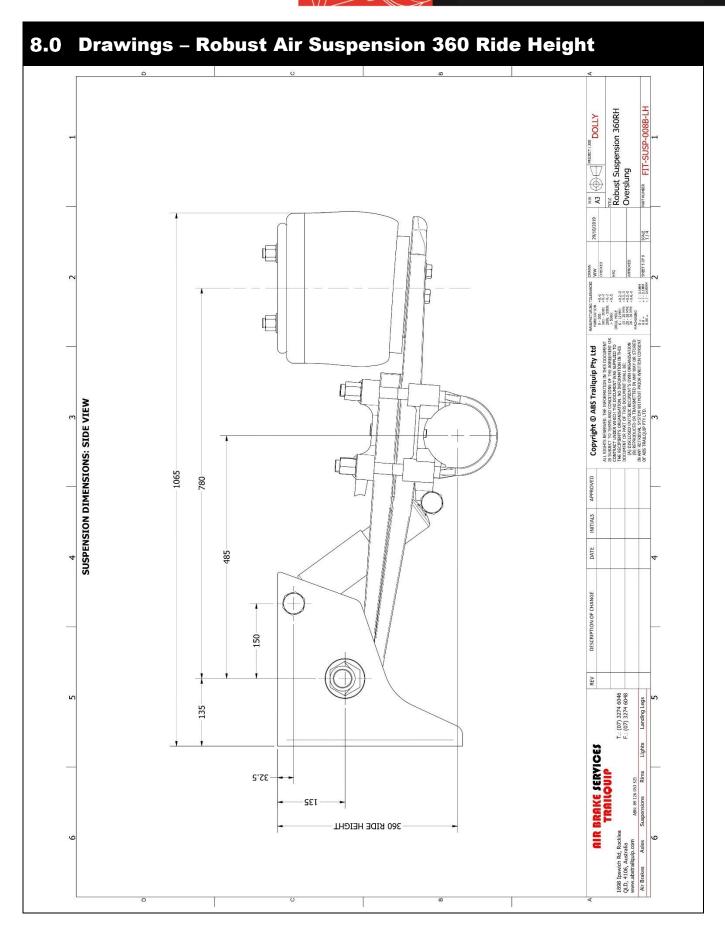
DOLLY MANUAL



 $\Lambda \lambda / M$

L

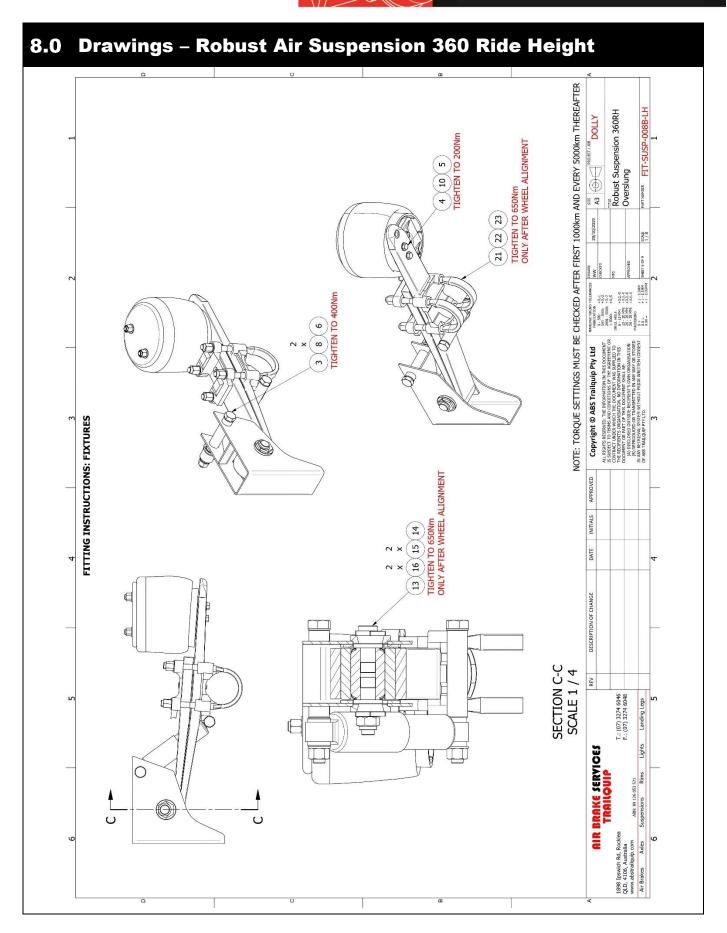
DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 31 of 94

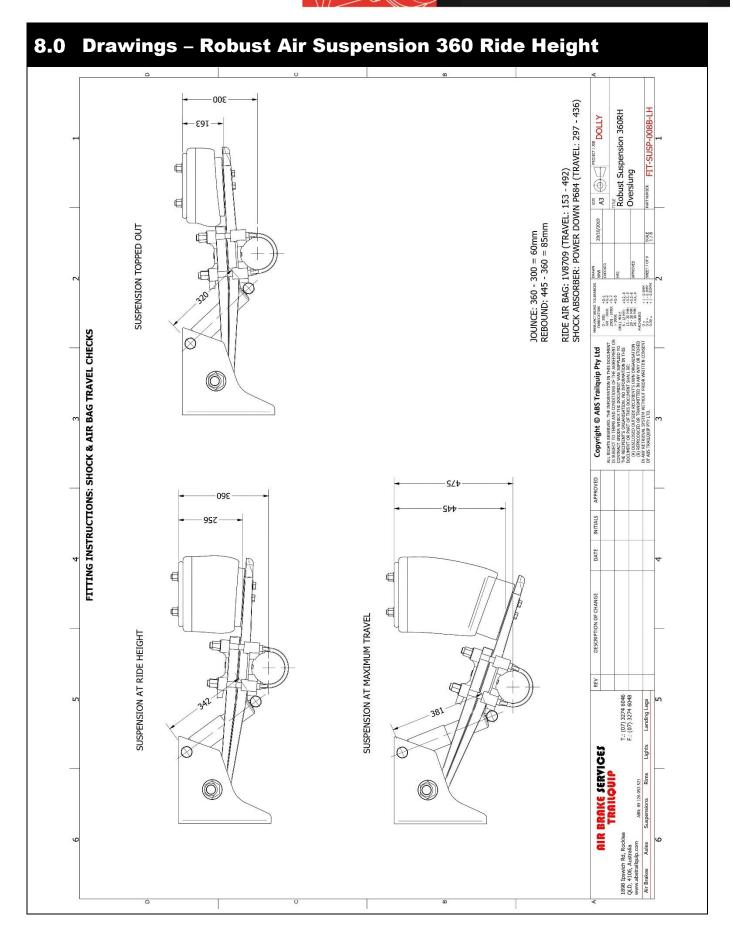
DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 32 of 94

DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

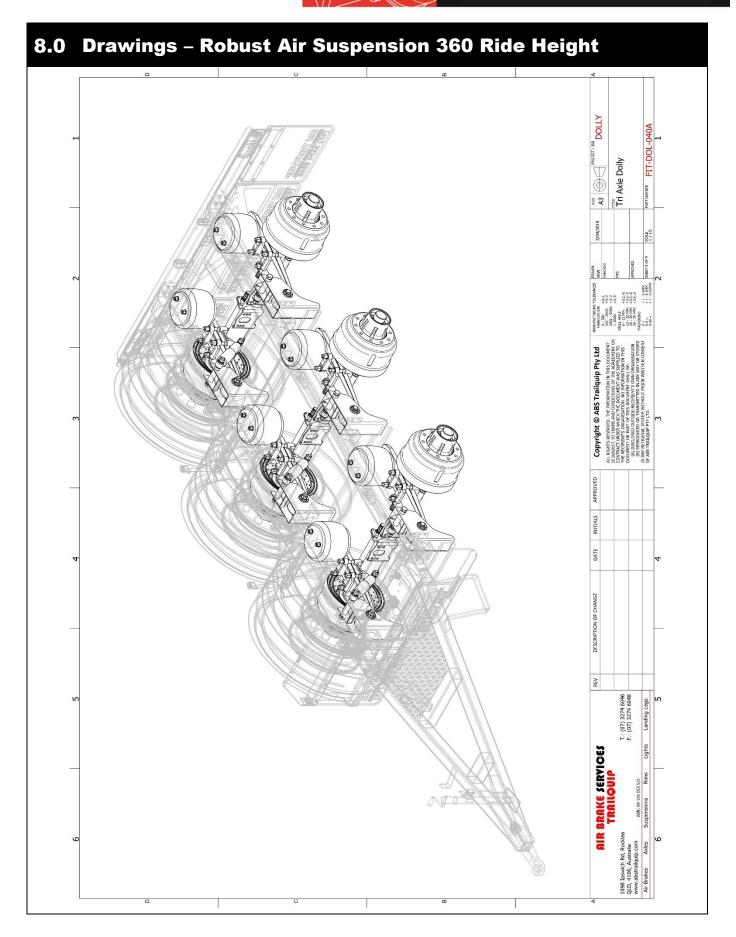
Mart

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1 Page 33 of 94



V Contractor Land

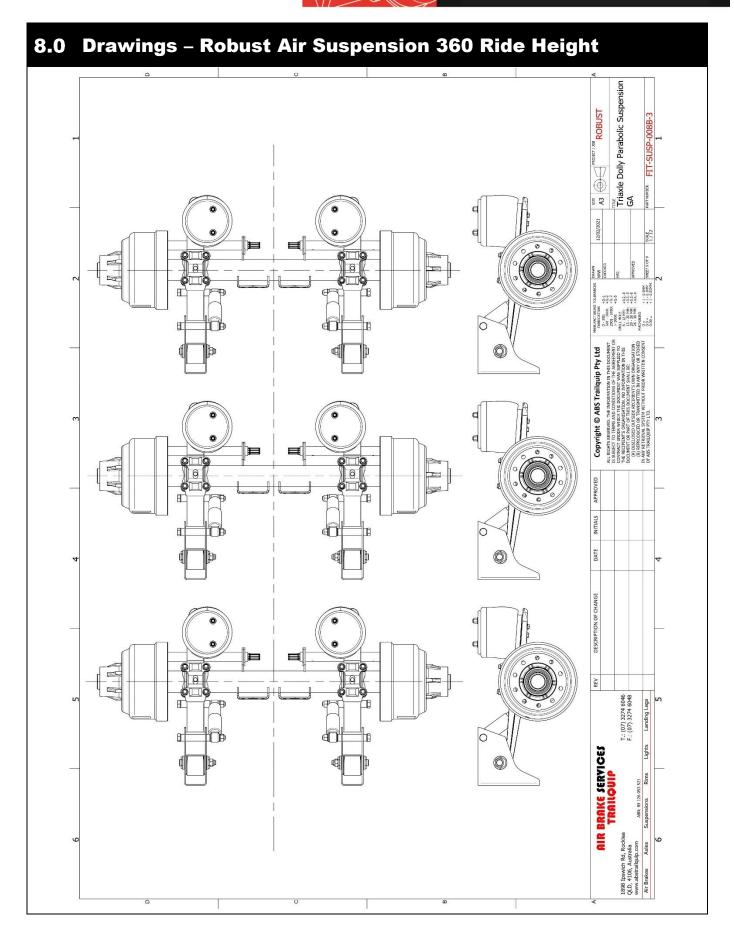
DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

 $\Lambda N / M$

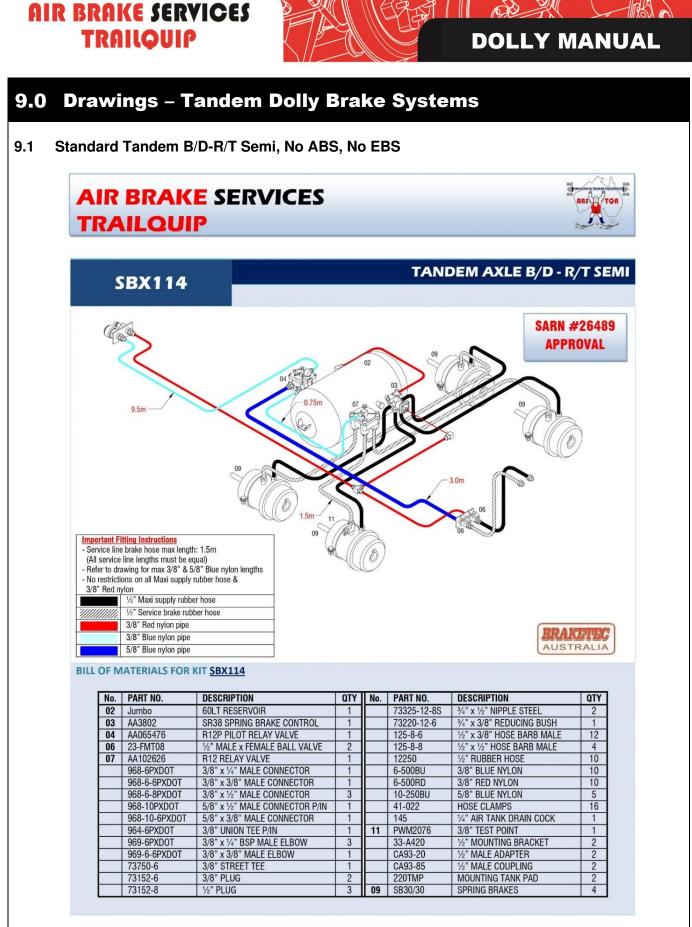
DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 35 of 94

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1



V R A A A A

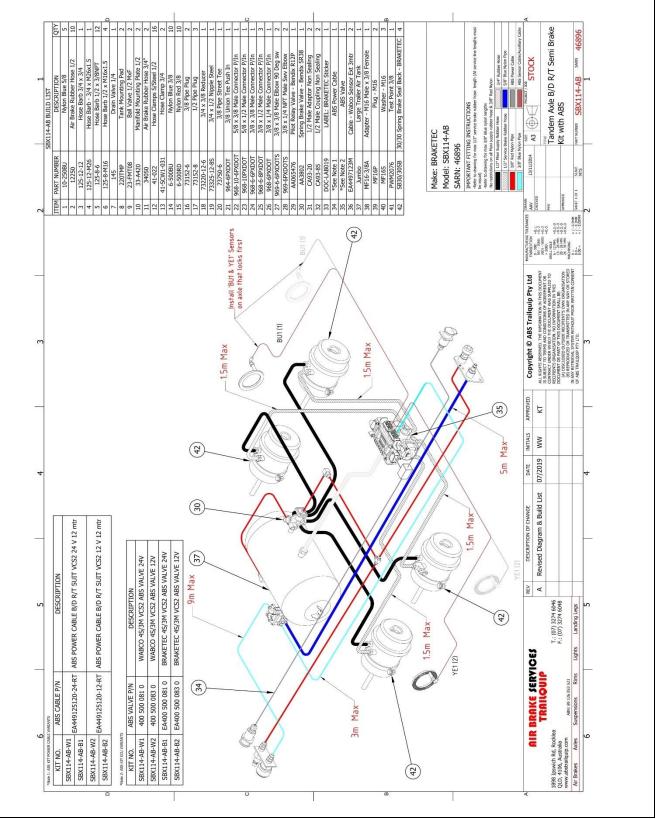
NOTE: ANY DEVIATION FROM THIS DRAWING OR KIT CONTENTS AS SUPPLIED MAY INVALIDATE ADR COMPLIANCE. RELATIVE POSITION OF VALVE/S & TANK/S ON DRAWING IS FOR GUIDANCE ONLY. VALVES MUST BE POSITIONED TO KEEP AIR LINE LENGTHS WITHIN LIMITS INDICATED.

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

DOLLY MANUAL

9.0 Drawings – Tandem Dolly Brake Systems

9.2 Tandem B/D-R/T Semi with ABS



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 37 of 94

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

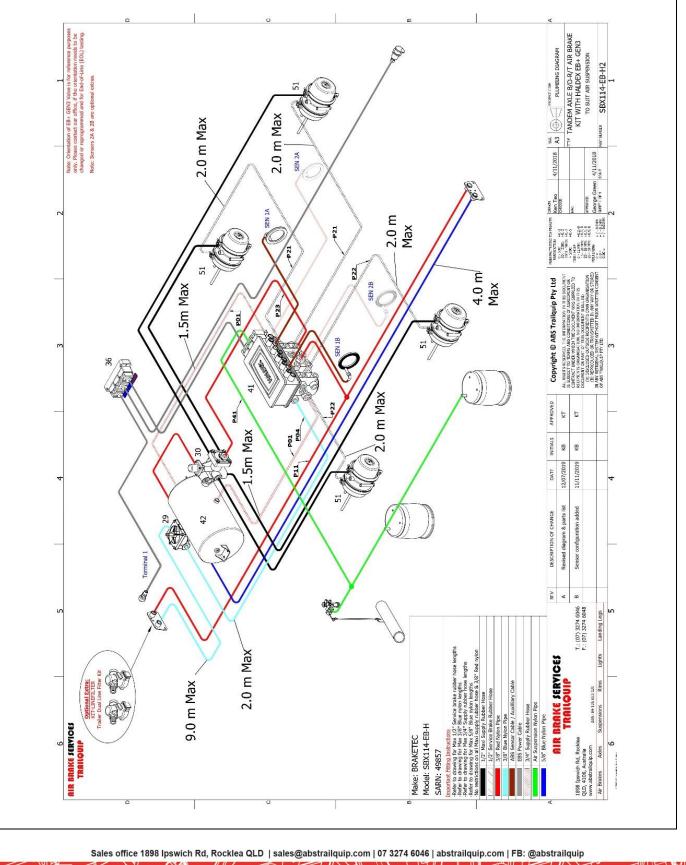
and the

DOLLY MANUAL



9.3 Tandem B/D-R/T Semi with Haldex EB+ GEN3

 $\Lambda \lambda / M$



8.1.0 ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

10 10 march 1 h

DOLLY MANUAL

9.0 Drawings – Tandem Dolly Brake Systems

9.4 Tandem B/D-R/T Semi with Haldex EB+ GEN3

Silve: Part of the second	
Mol. Part # Description QTV 10-250BU Mylon Blue 5/8" Description QTV 125-12:10 Air Brake Rubber Hose 1/2" 21 969-6 125-12:11 Hose Barb 3/4" x 3/4" 2 969-6 125-12:12 Hose Barb 1/2" x M16xd.5 21 969-6 125-12:13 Hose Barb 1/2" x M16xd.5 23 969-6 125-12:14 Hose Barb 1/2" x M16xd.5 23 969-6 125-5 Hose Barb 1/2" x M16xd.5 31 23 Addition 125-5 Hose Barb 1/2" x M16xd.5 31 23 Addition 23 125-5 Hose Barb 1/2" M10 12 33 23 Addition 33 23 33 33 33 34 33 34 34 37 23 34 33 34 33 34 33 34 33 34 33 34 33 34 33 34 33 34 33 34 33 34 33 34	
10-250BU Nylon Blue 5/8" 27 960-6 12250 Air Brack Rubber Hoss 1/2" 10 28 960-6 125-12-13 Hose Barb 3/4" x 3/4" 2 28 960-6 125-12-13 Hose Barb 3/4" x 3/4" 2 20 28 960-6 125-12-13 Hose Barb 3/4" x 3/4" 2 20 28 960-6 125-12-15 Hose Barb 1/2" x NL6x(1.5 12 23 Addition 125-5 Hose Barb 1/2" x NL6x(1.5 12 23 Addition 125-5 Drain Valve 1/4" Talk Mounting Paci 2 23 Addition 237-500 Barli Valve 1/2" Mit Brake Rubber Hose 3/4" ID 3 3 3 3 33.405.0 Air Brake Rubber Hose 3/4" ID 3	art # Description Q1Y
12250 Air Brake Rubber Hose 1/2" 28 969-6 125-12:12 Hose Barb 3/4" x 1/2" 29 A006 125-12:2:8 Hose Barb 3/4" x 1/2" 23 4005 125-12:12 Hose Barb 1/2" x 3/8" NPT 12 125-6:01 Hose Barb 1/2" x 3/8" NPT 12 125-8:01 Hose Barb 1/2" x 3/8" NPT 12 125-8:010 Barb Valve 1/2" x 1/2" 4 145 Drain Valve 1/2" x M16x1.5 4 23:FMT08 Ball Valve 1/2" x M16x1.5 3 23:FMT08 Ball Valve 1/2" x 1/2" 4 23:A20 Manfold Mounting Pad 2 33:A120 Manfold Mounting Pad 2 33:A210 Manfold Mounting Pad 2 33:A220 Manfold Mounting Pad 2 33:A200 Manfold Mounting Pad 2 33:A200 Manfold Mounting Pad 2 34050 Air Brake Rubber Hose 3/4" ID 3 33:A200 Manfold Mounting Pad 4 41:A:SCU1-031 Hose Clamps 5/Steel 16 500RU Nylon Red 3/8" 10 4	3/8" x 1/2" Male Elbow 9
125-12-12 Hose Barb 3/4" x 1/2" 29 Ad06 125-12-8 Hose Barb 1/2" x 1/2" 2 30 A38 125-12-8 Hose Barb 1/2" x 1/2" 2 30 A38 125-12-8 Hose Barb 1/2" x 1/2" 12 2 A006 125-8-M16 Horse Barb 1/2" x M16x1.5 12 3 E800 145 Drain Naylee 1/2" XM16x1.5 12 3 E850 145 Drain Naylee 1/2" XM16x1.5 2 3 E850 220TMP Tark Mounting Pad 2 3 E850 33-420 Manifold Mounting Pad 2 3 E853 33-41002 Mose Cla	
125-12-8 Hose Barb 1/2" x 3/8" NPT 2 30 Ad38 125-12-8 Hose Barb 1/2" x 3/8" NPT 12 31 C/03 125-8-M16 Hose Barb 1/2" x 3/8" NPT 12 32 C/03 125-8-M16 Hose Barb 1/2" x 3/8" NPT 12 32 C/03 145 Drain Valve 1/4" 2 34 EBS0 207MP Ball Mounting Plate 1/2" 2 34 EBS0 207MP Manifold Mounting Plate 1/2" 2 36 EBS0 33-420 Manifold Mounting Plate 1/2" 2 36 EBS0 34050 Air Brake Rubber Hose 3/4" ID 3 37 EBS0 34050 Air Brake Rubber Hose 3/4" ID 3 37 EBS0 41-022 Hose Clamp 3/4" 1 4 4 4 5008U Nyion Rule 3/8" 10 2 3 37 EBS0 37.152-8 1/2" Pipe Plug 2 3/4" 1/2" Street Elbow 90 Degree 2 1 4 MF12 37.152-8 3/4" 1/2" Nipple Steel 1/2" Street Tee Brass 3/8" x 1/2" Male Connector	6 R-12P Pilot Relay Valve 1
125-8-6 Horse Barb 1/2" x 3/8" NPT 12 145 Drain Valve 1/4" 31 C403 145 Drain Valve 1/4" 3 EBS0 25-6-ML6 Horse Barb 1/2" x ML6x(1.5 4 32 C403 225-6-ML6 Drain Valve 1/2" Mr 2 33 EBS0 225-FMT08 Ball Valve 1/2" Mr 2 34 EBS0 23-FMT08 Ball Valve 1/2" Mr 2 34 2 34 33-420 Air Barke Rubber Hose 3/4" ID 3 56 EBS0 56	Spring Brake Control Valve - SR38 1
125-6-MIG Horse Barb 1/2" x MIGx1.5 4 32 C 403 145 Drain Valve 1/4" 1 33 EBS0 220TMP Tark Mounting Pad 2 34 EBS0 23: FMT08 Ball Valve 1/2" MKF 2 35 EBS0 33: Aq20 Manifold Mounting Plate 1/2" 3 56 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 56 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 56 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 56 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 56 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 56 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 56 EBS3 37 EBS8 5508U Nylon Red 3/8" 10 40 EBS8 713152-6 3/8" Pipe Plug 712" Nipple Steel 1 1 43 MF12 73152-6 3/8" Pipe Street Elbow 90 Degree 3/8" X 1/2" Male Connector P/In 1 1 46	
145 Drain Valve 1/4" 1 33 EBS0 220TMP Tank Mourting Pade 2 34 EBS0 23-FMT08 Ball Valve 1/2" MxF 2 34 EBS0 33-420 Manifold Mounting Plate 1/2" 3 EBS0 33-420 Ar Brake Rubber Hose 3/4" ID 3 35 EBS0 34050 Ar Brake Rubber Hose 3/4" ID 3 35 EBS0 34050 Ar Brake Rubber Hose 3/4" ID 3 35 EBS0 34050 Ar Brake Rubber Hose 3/4" ID 3 35 EBS0 41-022 Hose Clamp 3/4" ID 10 3 35 EBS0 5500BU Nylon Blue 3/8" 10 10 3 <	1/2" Male Coupling non sealing 2
220TMP Tank Mounting Pad 2 23-FMT08 Ball Valve 1/2" MxF 2 33-4120 Manifold Mounting Plate 1/2" 3 33-420 Air Brake Rubber Hose 3/4" ID 3 34050 Air Brake Rubber Hose 3/4" ID 3 34050 Air Brake Rubber Hose 3/4" ID 3 34050 Air Brake Rubber Hose 3/4" ID 3 41-022 Hose Clamps 5/Steel 16 34050 Nylon Blue 3/8" 10 6-500BU Nylon Red 3/8" 10 6-500BU Nylon Red 3/8" 10 73152-6 3/8" Pipe Plug 2 73152-8 3/4" X1/2" Nipple Steel 1 73355-12-8S 3/4" X1/2" Nipple Steel 1 73355-6 3/8" Pipe Street Teb Brass 1 73350-6 3/8" Pipe Street Teb Brass 1 964-6FXDOT 3/8" Pipe Street Teb Brass 1 968-6FXDOT 3/8" Y1/2" Male Connector P/In 1 968-6FXDOT 3/8" X1/4 Male Connector P/In 1 968-6FXDOT 3/8" X1/4 Male Connector P/In 1 968-6FXDOT 3/8" X1/4 M	00045M
23-FMT08 Ball Valve 1/2" MxF 2 35 EBS0 33-A420 Manifold Mounting Plate 1/2" 2 36 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 37 EBS8 34050 Air Brake Rubber Hose 3/4" ID 3 37 EBS8 41-022 Hose Clamps 5/Steel 16 37 EBS8 41-5CW1-031 Hose Clamp 3/4" 10 37 EBS8 6-500BU Nylon Blue 3/8" 10 39 EBS8 73152-6 3/8" Pipe Plug 10 40 EBS8 73152-6 3/4" x 1/2" Nipple Steel 1 41 EBS8 73152-6 3/4" x 1/2" Nipple Steel 1 43 MF12 73152-6 3/4" x 1/2" Nipple Steel 1 43 MF12 73152-6 3/8" Pipe Plug 7/4" x 1/2" Male Connector P/In 1 43 MF12 73150-6 3/8" Nion Tece Brass 1 2 44 MF23 968-0FXDOT 3/8" Nion Tece Push in 1 43 MF23 968-0FXDOT 3/8" x 1/4" Male Connector P/In	
33. 4420 Manifold Mounting Plate 1/2" 2 36 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 37 EBS3 34050 Air Brake Rubber Hose 3/4" ID 3 37 EBS3 41-022 Hose Clamps S/Steel 16 37 EBS3 41-022 Hose Clamp 3/4" 3 37 EBS3 5500BU Nylon Blue 3/8" 10 39 EBS3 73122-6 3/5" Pipe Plug 2 40 EBS3 73122-6 3/4" x 1/2" Nipple Steel 1 43 MF12 73152-6 3/4" x 1/2" Nipple Steel 1 43 MF12 73325-12-8S 3/4" x 1/2" Nipple Steel 1 43 MF12 73355-12-8S 3/4" x 1/2" Miple Steel 1 43 MF12 73355-12-8S 3/4" x 1/2" Miple Steel 1 43 MF12 73355-12-8S 3/4" x 1/2" Miple Steel 1 43 MF12 73355-12-8S 3/4" x 1/2" Miple Steel 1 43 MF22 964-6FXDOT 3/8" Pipe Street Elbow 90 Degree 2 44	
34050 Air Brake Rubber Hose 3/4" ID 3 36A TBA 41-022 Hose Clamps S/Steel 16 37 EBS8 41-022 Hose Clamps S/Steel 16 37 EBS8 6-500BU Nylon Blue 3/8" 10 39 EBS8 73122-6 3/5" Pipe Plug 2 40 EBS8 73122-6 3/4" x 1/2" Nipple Steel 1 43 MF12 73152-6 3/4" x 1/2" Nipple Steel 1 43 MF12 73152-6 3/4" x 1/2" Nipple Steel 1 43 MF12 73352-12-8S 3/4" x 1/2" Nipple Steel 1 43 MF12 73352-12-8S 3/4" x 1/2" Nipple Steel 1 43 MF12 73350-6 3/8" Pipe Street Elbow 90 Degree 2 44 MF23 73350-12-8S 3/4" x 1/2" Male Connector P/In 1 45 MF23 968-0-6PXDOT 3/8" V1/6 3/8" V1/6 46 MF23 968-0-6PXDOT 3/8" x 1/2" Male Connector P/In 1 49 MF03 968-0-6PXDOT 3/8" x 1/2" Male Connector P/In 3	09001 Haldex EBS Cable Junction Box For R/T 1
41-022 Hose Clamps S/Steel 16 37 EBS8 41-5CW1-031 Hose Clamp 3/4" 4 38 EBS8 6-500BU Nylon Blue 3/8" 10 39 EBS8 6-500RU Nylon Red 3/8" 10 39 EBS8 73152-6 3/8" Pipe Plug 2 41 EBS8 73152-6 3/4" x 1/2" Nipple Steel 1 41 EBS8 73152-6 3/4" x 1/2" Nipple Steel 1 43 MF12 73152-8 3/4" x 1/2" Nipple Steel 1 43 MF12 73152-6 3/8" Pipe Plug 2 44 MF12 73152-6 3/8" Union Tee Bush In 1 45 MF21 964-6FXDOT 5/8" x 1/2" Male Connector P/In 1 45 MF21 968-66FXDOT 3/8" x 1/2" Male Connector P/In 1 46 MF21 968-66FXDOT 3/8" x 1/2" Male Connector P/In 1 46 MF21 968-66FXDOT 3/8" x 1/2" Male Connector P/In 1 51 50 968-66FXDOT 3/8" x 1/2" Male Connector P/In 1 51 50 968-66FXDOT 3/8" x 1/4 Male Connector P/In 1 51 50 PWF01 968-67EXDOT 3/8" x 1	EBS CAN Router 1
41-SCW1-031 Hose Clamp 3/4" 4 38 EBS8 6-500RU Nylon Blue 3/8" 10 39 EBS8 73152-6 3/8" Pipe Plug 2 40 EBS8 73152-6 3/8" Pipe Plug 2 41 EBS8 73152-6 3/8" Pipe Plug 2 41 EBS8 73152-6 3/4" x 1/2" Nipple Steel 1 43 MF13 73325-12-8S 3/4" x 1/2" Nipple Steel 1 43 MF13 73325-12-8S 3/4" x 1/2" Nipple Steel 1 44 MF13 73325-12-8S 3/4" x 1/2" Male Connector P/In 1 45 MF12 964-6FXDOT 5/8" x 1/2" Male Connector P/In 1 45 MF23 968-66FXDOT 5/8" x 1/2" Male Connector P/In 1 46 MF23 968-66FXDOT 3/8" x 1/2" Male Connector P/In 1 47 MF23 968-66FXDOT 3/8" x 1/2" Male Connector P/In 1 51 50 PWIN 968-66FXDOT 3/8" x 1/2" Male Connector P/In 1 51 50 PWIN 968-66FXDOT 3/8"	
6-500BU Nylon Blue 3/8" 10 6-500RD Nylon Red 3/8" 10 73152-6 3/8" Pipe Plug 2 73152-8 1/2" Pipe Plug 2 73152-6 3/4" x 1/2" Nipple Steel 1 73325-12-8S 3/4" x 1/2" Male Connector P/In 1 964-6FXDOT 5/8" x 3/8" Male Connector P/In 1 968-6FXDOT 5/8" x 1/2" Male Connector P/In 1 968-6FXDOT 3/8" x 1/4 Male Connector P/In 1	
6-500RD Nylon Red 3/8" 10 40 EBS8 73152-6 3/8" Pipe Plug 2 41 EBS8 73152-8 1/2" Pipe Plug 2 41 EBS8 73152-8 3/4" x 1/2" Nipple Steel 1 1 73325-12-8S 3/4" x 1/2" Nipple Steel 1 43 MF12 7330-8 1/2 Street Elbow 90 Degree 2 44 MF12 73400-8 1/2 Street Elbow 90 Degree 2 44 MF12 73750-6 3/8" Pipe Street Tee Brass 1 45 MF14 73750-6 3/8" Vinion Tee Push in 1 46 MF22 968-6FXDOT 5/8" x 3/8" Male Connector P/In 1 47 MF23 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 47 MF23 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 48 MF04 968-6FXDOT 3/8" x 1/4 Male Connector P/In 1 51 50 PWIN 968-6FXDOT 3/8" x 1/4 Male Connector P/In 1 51 50 PWIN	04401 Haldex Wheel Speed Sensor Extension Cable 3mtr 2
73152-6 3/8" Pipe Plug 2 41 EBS8 73152-8 1/2" Pipe Plug 2 42 Jumb 73325-12-8S 3/4" x 1/2" Nipple Steel 1 2 43 MF12 73325-12-8S 3/4" x 1/2" Nipple Steel 1 2 43 MF12 73400-8 1/2 Street Elbow 90 Degree 2 44 MF12 73750-6 3/8" Pipe Street Tee Brass 1 45 MF12 964-6FXDOT 3/8" Vinion Tee Push In 1 46 MF12 968-10FXDOT 5/8" x 1/2" Male Connector P/In 1 47 MF23 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 49 MF21 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 49 MF21 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 50 PVIN 968-6FXDOT 3/8" x 1/4 Male Connector P/In 1 51 500 PVIN	
73152-8 1/2" Pipe Plug 2 42 Jumb 73325-12-8S 3/4" x 1/2" Nipple Steel 1 43 MF12 73300-8 1/2 Street Elbow 90 Degree 2 43 MF12 73300-6 3/8" Pipe Street Tee Brass 1 45 MF12 964-6FXDOT 3/8" Union Tee Push In 1 46 MF12 968-10-5DXDOT 5/8" x 1/2" Male Connector P/In 1 49 MF02 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 49 MF02 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 50 PWIV 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 50 PWIV 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 51 5830	
73325-12-85 3/4" x 1/2" Nipple Steel 1 73325-12-85 3/4" x 1/2" Nipple Steel 1 73325-6 3/8" Pipe Street Elbow 90 Degree 2 73325-6 3/8" Pipe Street Tee Brass 1 964-6PXDOT 3/8" Male Connector P/In 1 968-10-6PXDOT 5/8" x 1/2" Male Connector P/In 1 968-10-6PXDOT 5/8" x 1/2" Male Connector P/In 1 968-6PXDOT 3/8" x 1/2< Male Connector P/In	
73400-8 1/2 Augue migne accord 44 MFLL 73750-6 3/8" Pipe Street Elbow 90 Degree 2 44 MFLL 964-6PXDOT 3/8" Pipe Street Elbow 90 Degree 1 45 MFLL 964-16PXDOT 3/8" Pipe Street Elbow 90 Degree 1 46 MFLL 968-10-6PXDOT 3/8" Male Connector P/In 1 47 MF2L 968-10-7001 3/8" x 1/2" Male Connector P/In 1 49 MFQL 968-6PXDOT 3/8" x 1/2" Male Connector P/In 1 49 MFQL 968-6PXDOT 3/8" x 1/2" Male Connector P/In 1 49 MFQL 968-6PXDOT 3/8" x 1/4 Male Connector P/In 1 50 PWIN 968-6PXDOT 3/8" x 1/4 Male Connector P/In 1 1 51 5830	
73750-6 3/8" Pipe Street Tee Brass 1 45 MTLL 964-6PXDOT 3/8" Pipe Street Tee Brass 1 46 MFL2 968-10-6PXDOT 3/8" Vine Connector P/In 1 47 MF21 968-10-6PXDOT 5/8" x 1/2" Male Connector P/In 1 47 MF22 968-10-7 3/8" Viale Connector P/In 1 49 MF02 968-6PXDOT 3/8" x 3/8" Male Connector P/In 1 49 MF02 968-6FXDOT 3/8" x 1/2" Male Connector P/In 1 50 PWIV 968-6FXDOT 3/8" x 1/4 Male Connector P/In 3 50 PWIV 968-6FXDOT 3/8" x 1/4 Male Connector P/In 3 50 PWIV	Machar, 10mm 1
13120-6 3/8 Pipe Street Lee Brass 49 Mi-Lic 964-6PXDOT 3/8 Union Tee Push in 46 MF12 968-10-6PXDOT 5/8" x 3/8" Male Connector P/In 1 47 MF22 968-10-PXDOT 5/8" x 1/2" Male Connector P/In 1 47 MF22 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 1 49 MF02 968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 1 36 50 PW104 968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 3 51 50 PW104 968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 3 51 50 PW104 968-6-8PXDOT 3/8" x 1/4 Male Connector P/In 1 51 50 PW104 968-6-8PXDOT 3/8" x 1/4 Male Connector P/In 1 51 51 513	
964-6PXDOT 3/8" Union fee Fush in 968-6PXDOT 5/8" x 3/8" Male Connector P/In 1 45 MF22 968-10-6PXDOT 5/8" x 3/8" Male Connector P/In 1 47 MF22 968-6PXDOT 3/8" x 3/8" Male Connector P/In 1 48 MF22 968-6-6PXDOT 3/8" x 3/8" Male Connector P/In 1 49 MF20 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 1 50 PWIV 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 1 51 5830 968-6-6PXDOT 3/8" x 1/4 Male Connector P/In 1 51 5830	Plug - MI6
968-10-6PXDOT 5/8" x 3/8" Male Connector P/In 1 47 MF2 968-10PXDOT 5/8" x 1/2" Male Connector P/In 1 48 MF0 968-6-FXDOT 3/8" x 1/2" Male Connector P/In 1 49 MF0 968-6-FXDOT 3/8" x 1/2" Male Connector P/In 3 50 PWIN 968-6-FXDOT 3/8" x 1/4 Male Connector P/In 3 50 PWIN 968-6-FXDOT 3/8" x 1/4 Male Connector P/In 3 51 5830	
968-10PXDOT 5/8" x 1/2" Male Connector P/In 1 48 MF21 968-6-PXDOT 3/8" x 3/8" Male Connector P/In 1 49 MFQ1 968-6-PXDOT 3/8" x 1/2" Male Connector P/In 3 1 50 PWIV 968-6-PXDOT 3/8" x 1/4 Male Connector P/In 1 50 PWIV 968-6-PXDOT 3/8" x 1/4 Male Connector P/In 1 51 5830	.R Adaptor 22-1/2" 2
968-6-6PXDOT 3/8" x 3/8" Male Connector P/In 1 49 MFQ 968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 50 PWIV 968-6-8PXDOT 3/8" x 1/4 Male Connector P/In 3 50 PWIV 968-6-8PXDOT 3/8" x 1/4 Male Connector P/In 1 51 5830	Washer - M22 2
968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 50 PWIV 968-6PXDOT 3/8" x 1/4 Male Connector P/In 1 51 5830 968-6PXDOT 3/8" x 1/4 Male Connector P/In 1 51 5830	OTS6I16M 3/8" x 16mm Elbow 4
968-6PXDOT 3/8" x 1/4 Male Connector P/In 1 51 5830.	Test Point 3/8"
	20/20 Continue Brake Seal Back
IRV DESCRIPTION OF CHARGE DATT INITIALS APPROVED	30/30 Spring Brake Seal Back 4
	Copyright © ABS Trailquip Pty Ltd
A Revised diagram & parts list 12/07/2019 KB KT	0-500 +0-1 0-200 +0-2 2001 +0-2
T.: (07) 3274 6046 B Sensor configuration added 11/11/2019 KB KT	> 5000: +05 nomi HAIF 9-12.NN: -92.40
Australia F.: (07) 3274 6048 Billion Austre rise cos 511 F.: (07) 3274 6048	Armoven George Green 4/11/2018
Suspensions Rims Lights Landing Legs	
6 5 7 4 7	3 2 1 1

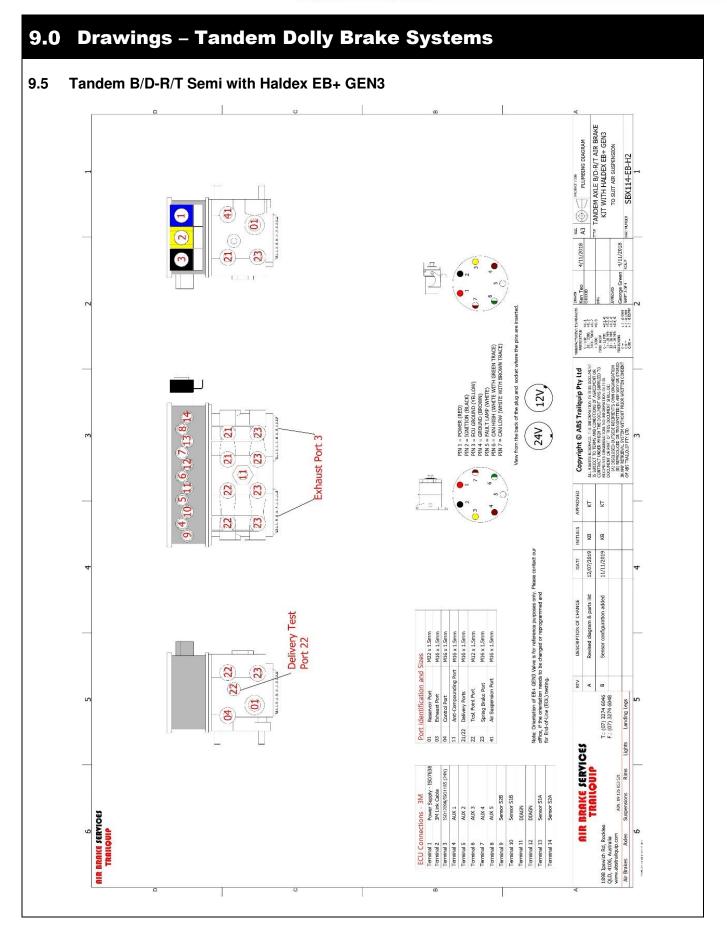
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 39 of 94

8.1.0 ABS Trailquip reserves the right to alter specifications without notice ROBUST SUSP of ABS Trailquip Pty Ltd 2018

and the

DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

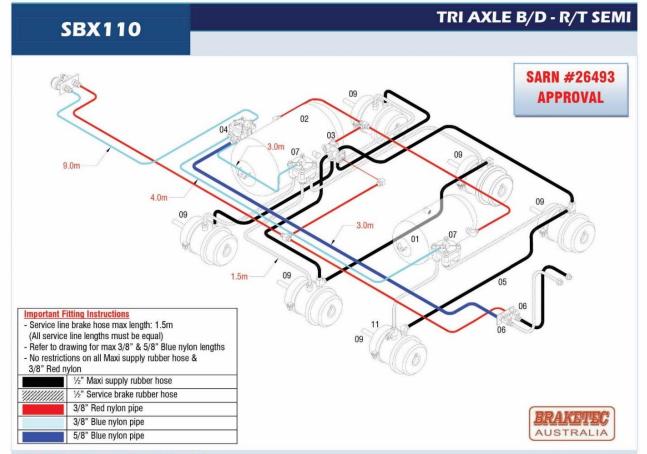
Page 40 of 94

*ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

DOLLY MANUAL

10.0 Drawings – Triaxle Dolly Brake Systems

10.1 Standard Tri Axle B/D-R/T Semi, No ABS, No EBS



BILL OF MATERIALS FOR KIT SBX110

No.	PART NO.	DESCRIPTION	QTY	No.	PART NO.	DESCRIPTION	QTY
01	RES25LT	25LT RESERVOIR	1		73152-12	3⁄4" PLUG	1
02	Jumbo	60LT RESERVOIR	1		73325-12-85	3/4" x 1/2" NIPPLE STEEL	3
03	AA3802	SR38 SPRING BRAKE CONTROL	1		73220-12-6	3/4" x 3/8" REDUCING BUSH	2
04	AA065476	R12P PILOT RELAY VALVE	1		125-8-6	1/2" x 3/8" HOSE BARB MALE	18
06	23-FMT08	1/2" MALE x FEMALE BALL VALVE	2		125-8-8	1/2" x 1/2" HOSE BARB MALE	6
07	AA102626	R12 RELAY VALVE	2		12250	1/2" RUBBER HOSE	15
	968-6PXDOT	3/8" x 1/4" MALE CONNECTOR	1		6-500BU	3/8" BLUE NYLON	15
	968-6-6PXDOT	3/8" x 3/8" MALE CONNECTOR	1		6-500RD	3/8" RED NYLON	15
	968-6-8PXDOT	3/8" x 1/2" MALE CONNECTOR	3		10-250BU	5/8" BLUE NYLON	5
	968-10-6PXDOT	5/8" x 3/8" MALE CONNECTOR P/IN	1		41-022	HOSE CLAMPS	24
	968-10PXDOT	5/8" x 1/2" MALE CONNECTOR P/IN	1		145	1/4" AIR TANK DRAIN COCK	2
	964-6PXDOT	3/8" UNION TEE P/IN	2	11	PWM2076	3/8" TEST POINT	1
	969-6PXDOT	3/8" x 1/4" BSP MALE ELBOW	4		33-A420	1/2" MOUNTING BRACKET	2
	969-6-6PXDOT	3/8" x 3/8" MALE ELBOW	3		CA93-20	1/2" MALE ADAPTER	2
	73152-6	3/8" PLUG	1		CA93-85	1/2" MALE COUPLING	2
	73750-6	3/8" STREET TEE	3		220TMP	MOUNTING TANK PAD	4
	73152-8	1⁄2" PLUG	7	09	SB30/30	SPRING BRAKES	6

NOTE: ANY DEVIATION FROM THIS DRAWING OR KIT CONTENTS AS SUPPLIED MAY INVALIDATE ADR COMPLIANCE. RELATIVE POSITION OF VALVE/S & TANK/S ON DRAWING IS FOR GUIDANCE ONLY. VALVES MUST BE POSITIONED TO KEEP AIR LINE LENGTHS WITHIN LIMITS INDICATED.

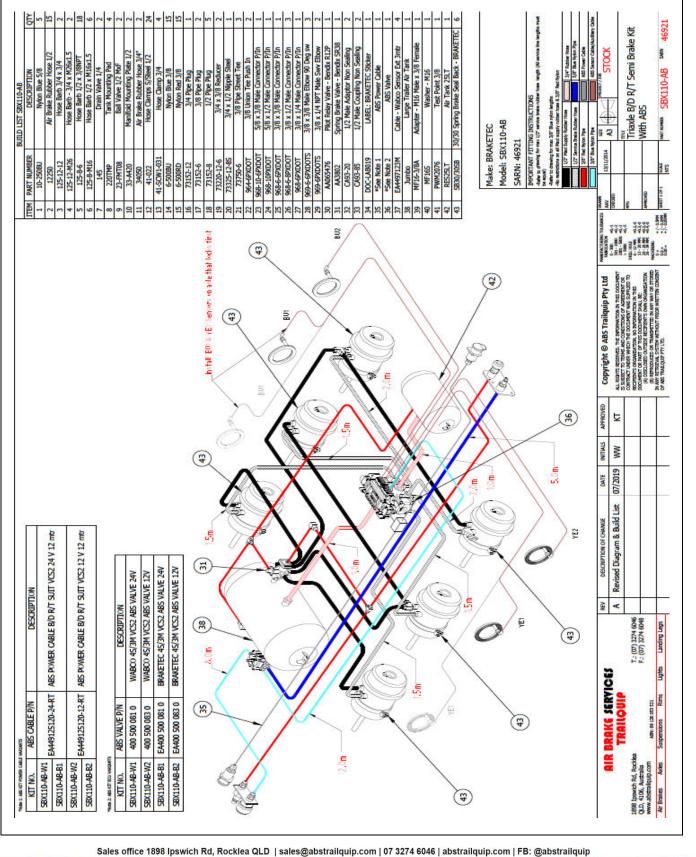
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 41 of 94

DOLLY MANUAL

10.0 Drawings – Triaxle Dolly Brake Systems

10.2 Tri Axle B/D-R/T Semi with ABS



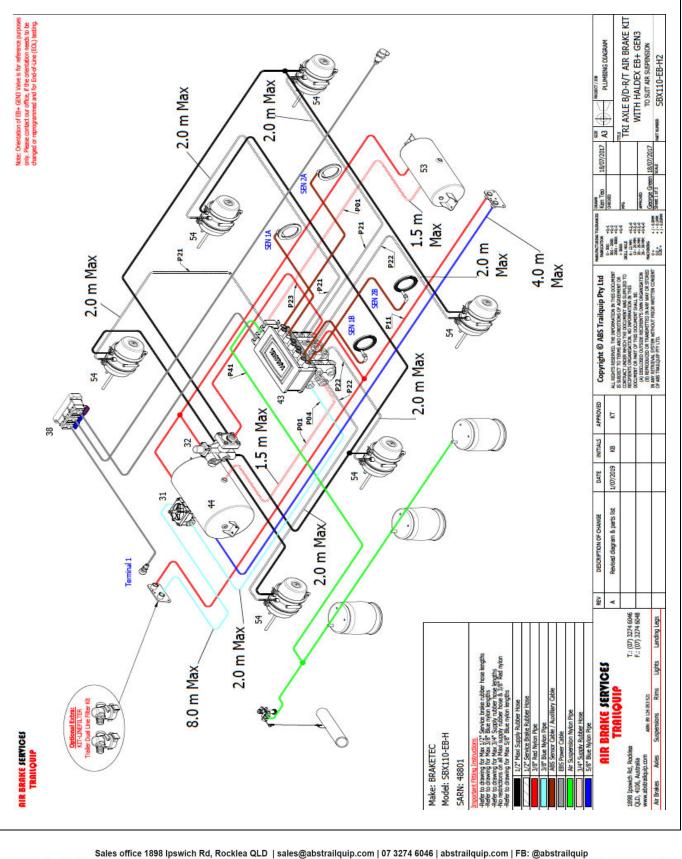
8.1.0 ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

and the N

DOLLY MANUAL

10.0 Drawings – Triaxle Dolly Brake Systems





8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

V A LAXA

DOLLY MANUAL

10.0 Drawings – Triaxle Dolly Brake Systems

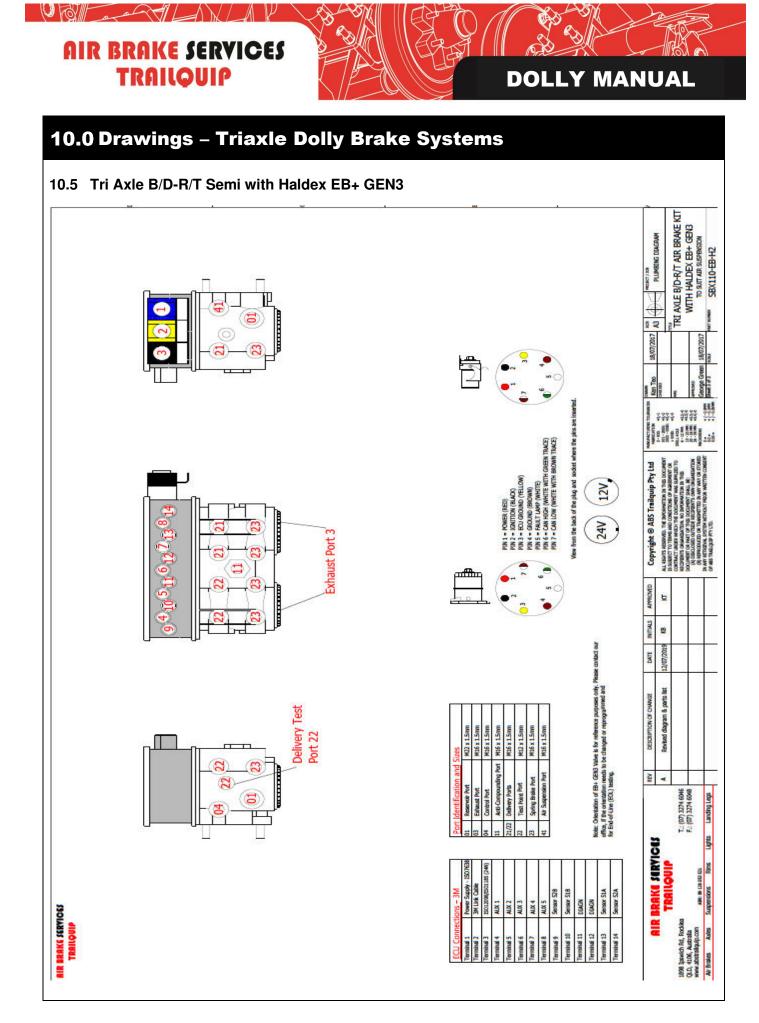
10.4 Tri Axle B/D-R/T Semi with Haldex EB+ GEN3

SI.No:	: Part#	Ő	Description	ΔIΛ	SI.No:	Part #	Description	QTY
-	10-250BU	Nylon Blue 5/	/8	4	28	968-6PXDOT	3/8" x 1/4 Male Connector P/In	1
2	12250	Air Brake Rub	Air Brake Rubber Hose 1/2"	15	29	969-6-6PXDOTS	3/8 x 3/8 Male Elbow 90 Deg sw	3
m	125-12-12	Hose Barb 3/4" x 3/4"	4" x 3/4"	2	30	969-6PXDOTS	3/8 x 1/4 NPT Male Elbow sw	2
4	125-12-8	Hose Barb 3/4" x 1/2	4" x 1/2	2	31	AA065476	R-12P Pilot Relay Valve	1
S	125-8-6	Hose Barb 1/2" x 3/8" NPT	2" x 3/8" NPT	18	32	AA3802	Spring Brake Control Valve - SR38	1
9	125-8-M16	Hose Barb 1/2" x M16x1.5	2" x M16x1.5	9	33	CA93-20	1/2 Male Adaptor non sealing	2
7	145	Drain Valve 1,	/4"	2	34	CA93-85	1/2 Male Coupling non sealing	2
∞	220TMP	Tank Mounting Pad	ng Pad	4	35	EBS006700045M	Haldex EB+ GEN3 Label	1
6	23-FMT08	Ball Valve 1/2" MkF	2" MKF	2	36	EBS028042409	Haldex Load Plate Data Label For EB+ & EPV	1
6	33-A420	Manifold Mot	Manifold Mounting Plate 1/2"	2	37	EBS028526209	Haldex EBS / ABS Info Label	1
11	34050	Air Brake Rub	Air Brake Rubber Hose 3/4" ID	ß	38	EBS364609001	Haldex EBS Cable Junction Box For R/T	1
12	41-022	Hose Clamps S/Steel	S/Steel	24	38A	TBA	EBS CAN Router	1
13	41-SCW1-031	Hose Clamp 3/4"	3/4"	4	39	EBS814003112	Haldex 24V ISO Power Cable For Semi Trailer 16mtr	1
14	6-500BU	Nylon Blue 3/8"	/8,	15	40	EBS814003152	Haldex 24V ISO Power Cable For Semi Trailer 6mtr	1
15	6-500RD	Nylon Red 3/8"	.8"	15	41	EBS814004401	Haldex Wheel Speed Sensor Extension Cable 3mtr	4
16	73152-12	3/4" Pipe Plug	500	1	42	EBS814042031	Haldex 24V ISO Power Cable Blue/Blue For R/T	1
17	73152-6	3/8" Pipe Plug	50	1	43	EBS823034001	Haldex EB+ GEN3 Master Assembly	1
18	73152-8	1/2" Pipe Plug	50	5	44	Jumbo	Air Tank 50lt	1
19	73220-12-6	3/4" x 3/8" Reducer	educer	2	45	MF12P	Plug - M12	1
20	73325-12-85	3/4" x 1/2" Nipple Steel	ipple Steel	1	46	MF12S	Washer - 12mm	1
21	73400-8	1/2 Street Elb	1/2 Street Elbow 90 Degree	2	47	MF16P	Plug - M16	5
22	73750-6	3/8" Pipe Stre	3/8" Pipe Street Tee Brass	m	48	MF16S	Washer - M16	5
23	964-6PXDOT	3/8" Union Tee Push In	se Push In	2	49	MF22-12R	Adaptor 22-1/2	2
24	968-10-6PXDOT	5/8" × 3/8" M	5/8" x 3/8" Male Connector P/In	1	50	MF22S	Washer - M22	2
25	968-10PXDOT	5/8" × 1/2" M	5/8" x 1/2" Male Connector P/In	1	51	MFQ69D0TS6I16M	3/8 x 16mm Elbow	4
26	968-6-6PXDOT	3/8" × 3/8" M	3/8" x 3/8" Male Connector P/In	1	52	PWM2076	Test Point 3/8	1
27	968-6-8PXDOT	3/8" × 1/2" M	3/8" x 1/2" Male Connector P/In	e	53	RES25LT	Air Tank 25lt	1
					54	SB30/30SB	30/30 Spring Brake Seal Back	9
		100	DISORPTION OF OWNER	DATE	NTALS APPROVED	Copyright © ABS Trailquip Pty Ltd	Neuron and and power 10,072,017 15 AC	ORCH (10)
	TRAILOUIP	×	Revised diagram & parts list	12/07/2019	KB KT	ALL REPERTS REGISTED, WICHROPPIA DIA DIA DIA DIA DIA DIA DIA DIA DIA D		MINING CONCEANS
1898 (pswich Rd, Rockian 010, 4106, Australia		T.: (07) 3274 6045				CONTRACT MODE WITH THE DOCHERN RECORDED GROUND ACTION NO DROVEND	Comment of the second s	VT AIR BRAKE
		A: 000 100 400 000				DOCIMENT OF IMIT OF THES COLIMINTS		WITH HALDEX FR4 CEN3

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 44 of 94

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1



Page 45 of 94

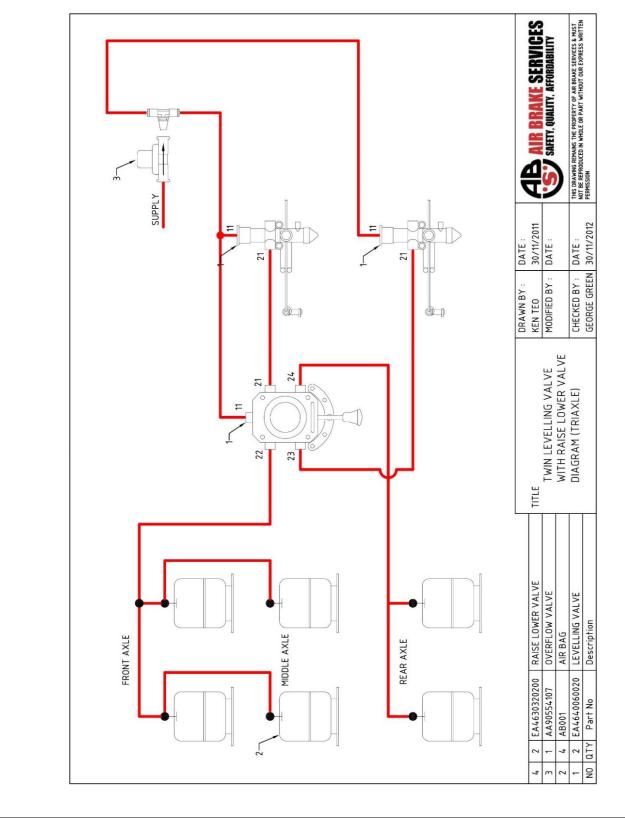
ABS Trailquip reserves the right to alter specifications without notice ROBUST SUSP V1

V A LAXA

DOLLY MANUAL

11.0 Drawings – Pneumatic Air Systems on Dolly

11.1 Air Suspension with Raise and Lower System



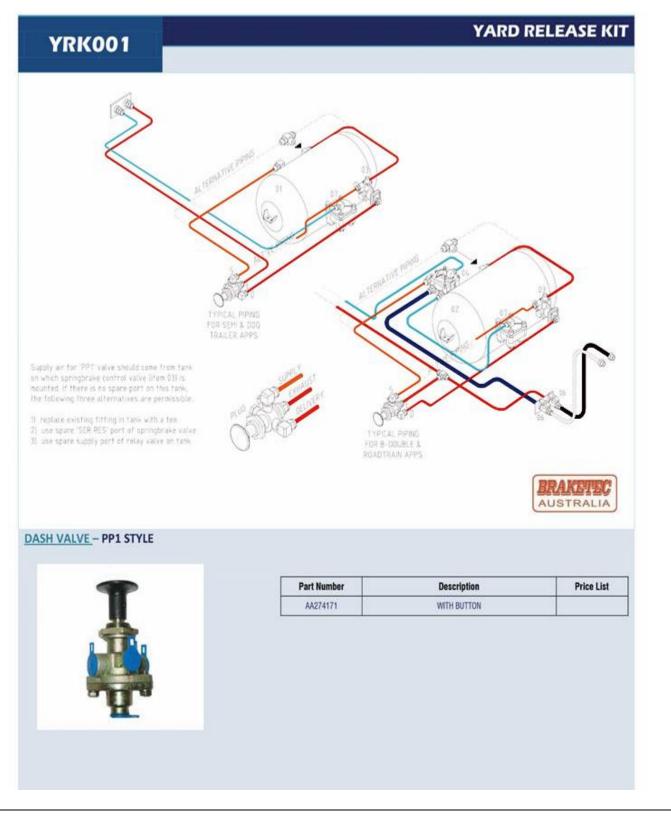
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

V R LAND

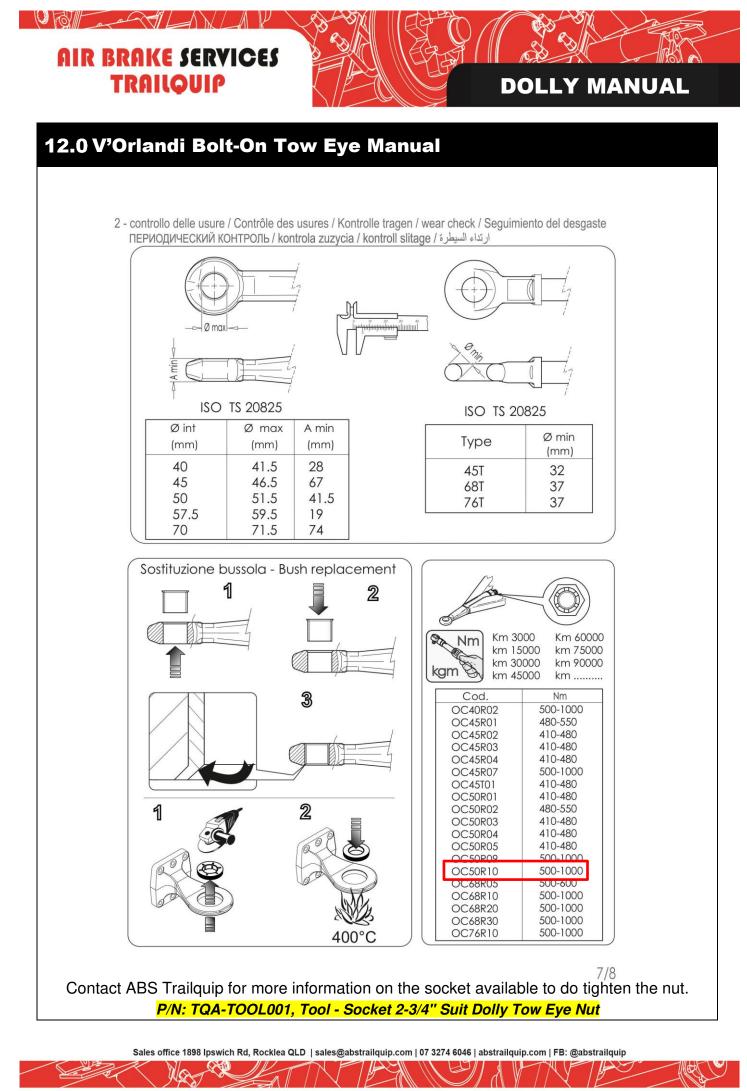
11.0 Drawings – Pneumatic Air Systems on Dolly

11.2 Yard Release System



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

DOLLY MANUAL



**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 48 of 94

O To The A

DOLLY MANUAL

13.0 V'Orlandi Fifth Wheel RP10 Greaseless Manual



RP10

- Istruzioni di montaggio e uso
- Einbau und Bedienungsanleitung
- (FR) Instructions de montage et d'utilisation
- (GB) Installation and operating instructions
- (ES) Intrucciones de montaje y uso
- Руководство по установке и эксплуатации
- Instrukcja montażu i eksploatacji
- SE Monterings- och bruksanvisningar
- لطريقة تعليم التركيب والاستعمال (SA)

Serrare con chiave dinamometrica Anziehen mit einem Drehmomentschlüssel Serrage avec clé dynamométrique tightened with torque wrench Apriete con llave dinamométrica

Åtvridning med momentnyckel

Implica attenzione e cautela.

Implique attention et précaution.

Implica la atención y la precaución

Требует внимания и осторажности Postępować z uwagą i ostrożnością

Kräver uppmärksamhet och försiktighet

Possibilità di schiacciamento degli arti.

Posilibidad de aplastamiento de los miembros

Gefahr einer Gliedmaßenverletzung.

Опасность повреждения суставов

Risk för klämning av armar eller ben

Niebezpieczeństwo uszkodzenia stawów

Risque d'écraser les membres.

حركي مفتاح مع قفل

Achtung und Vorsicht.

Attention and caution.

االاحترام والحذر

Risk of a limb injury

االاطر اف سحق لمكاتية

Nm



Controllo visivo Sichtprüfung Contrôle visuel Visual check Визуальный контроль



Linker Person

control visual Kontrola wizualna **Synkontroll** المجر ده بلعين الكشف Lubrificare Schmieren Lubrifier

Lubricate para lubricar Смазка Smarowanie Smörja

التزييت

Controllo dimensionale Dimensional Control Contrôle dimensionnel Dimensional check Control dimensional Контроль соответствия размеров Kontrola prawidłowych wymiarów Dimensionskontroll دالسيطرة الأبعاد

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



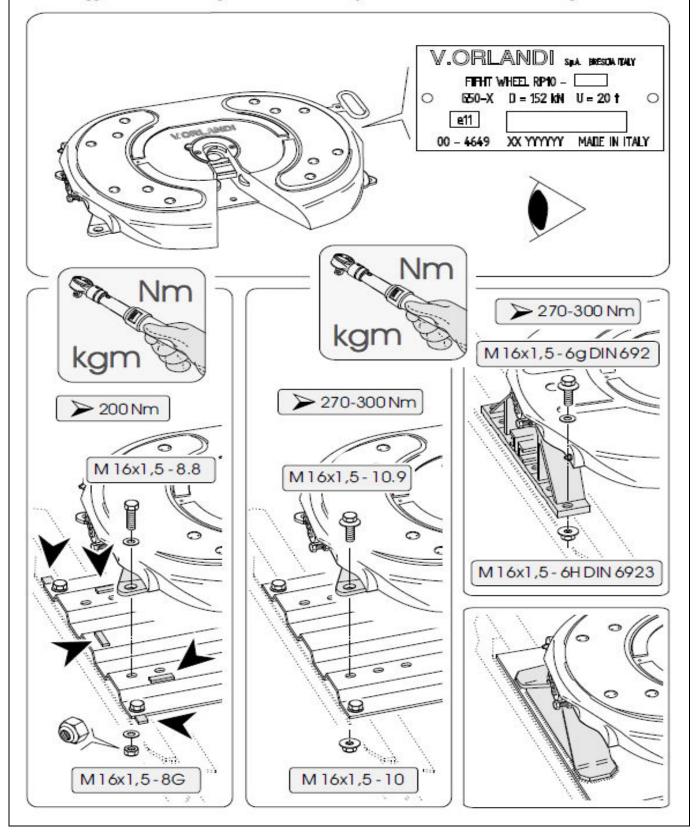
Page 49 of 94

DOLLY MANUAL

13.0 V'Orlandi Fifth Wheel RP10 Greaseless Manual

AIR BRAKE SERVICES TRAILQUIP

1 - Montaggio / Einbau / Montage / Installation/ Montaje / MOHTAX / Montaz / Montering / تصاعد/



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

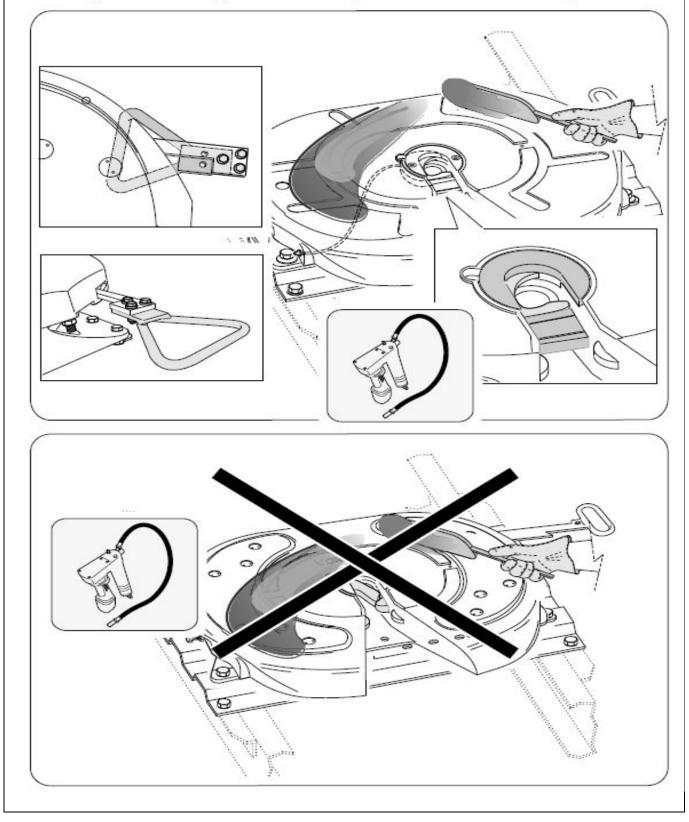
8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1 ABS Trailquip Pty Ltd 2018 Page 50 of 94

1 and the second and the second secon

DOLLY MANUAL

13.0 V'Orlandi Fifth Wheel RP10 Greaseless Manual

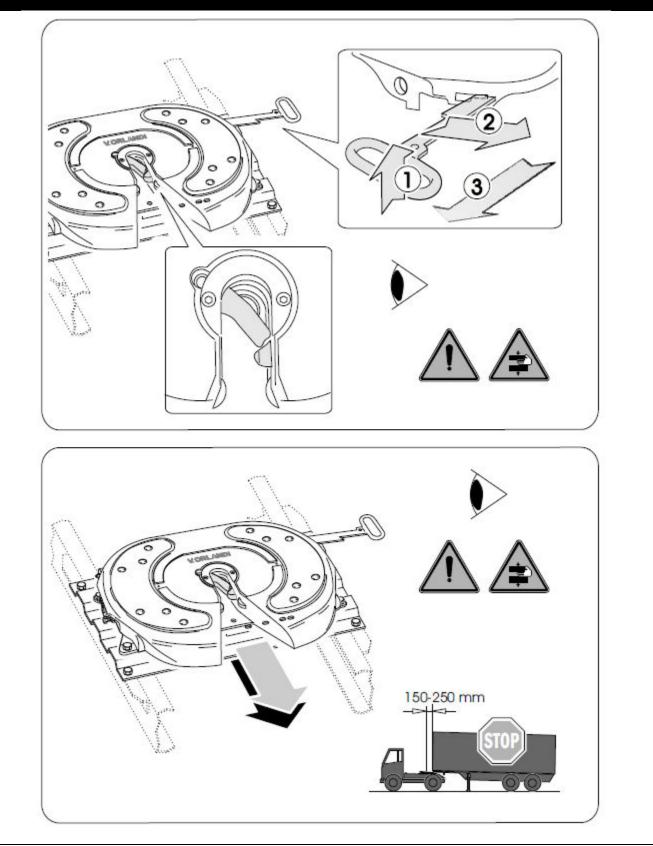
1 - Montaggio / Einbau / Montage / Installation/ Montaje / MOHTAX / Montaz / Montering / يصاعد/



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1 Page 51 of 94



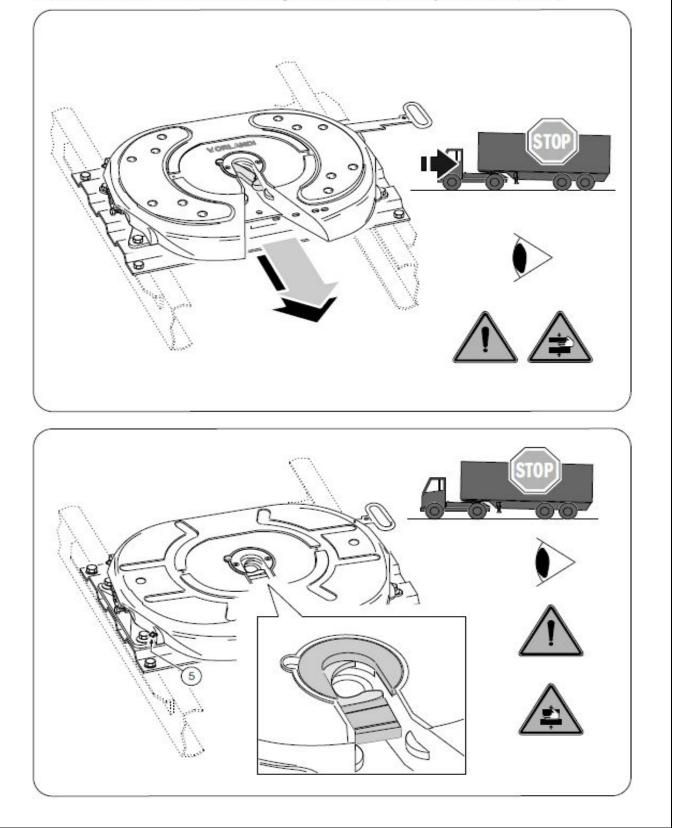




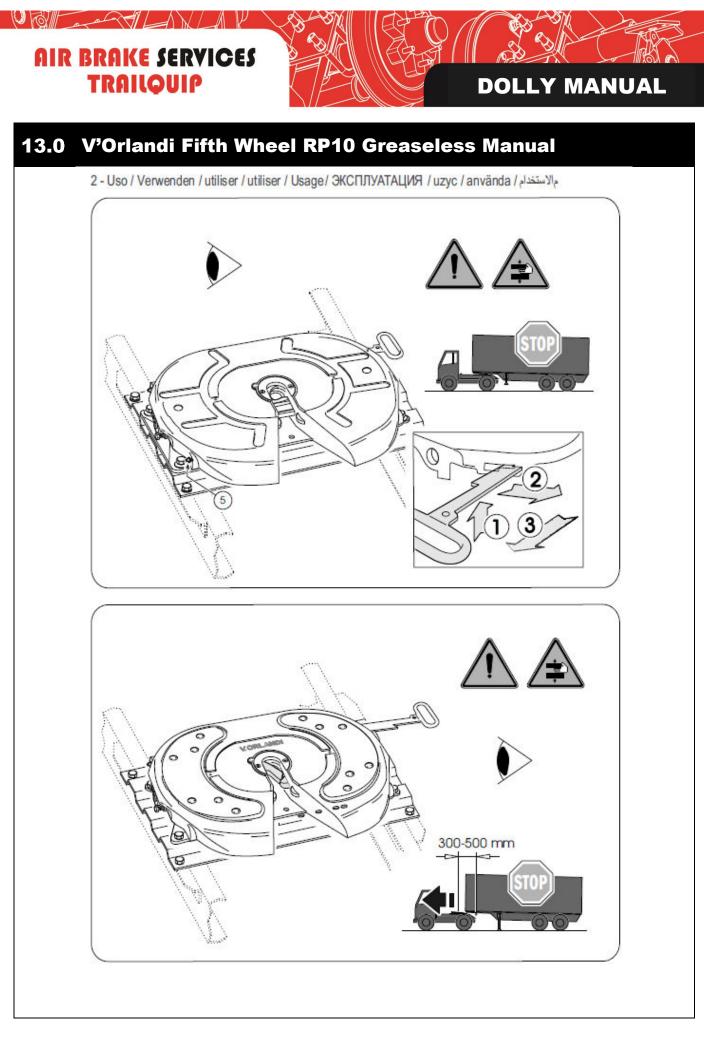
DOLLY MANUAL

13.0 V'Orlandi Fifth Wheel RP10 Greaseless Manual

2 - Uso / Verwenden / utiliser / utiliser / Usage / ЭКСПЛУАТАЦИЯ / uzyc / använda / إلاستخدام /

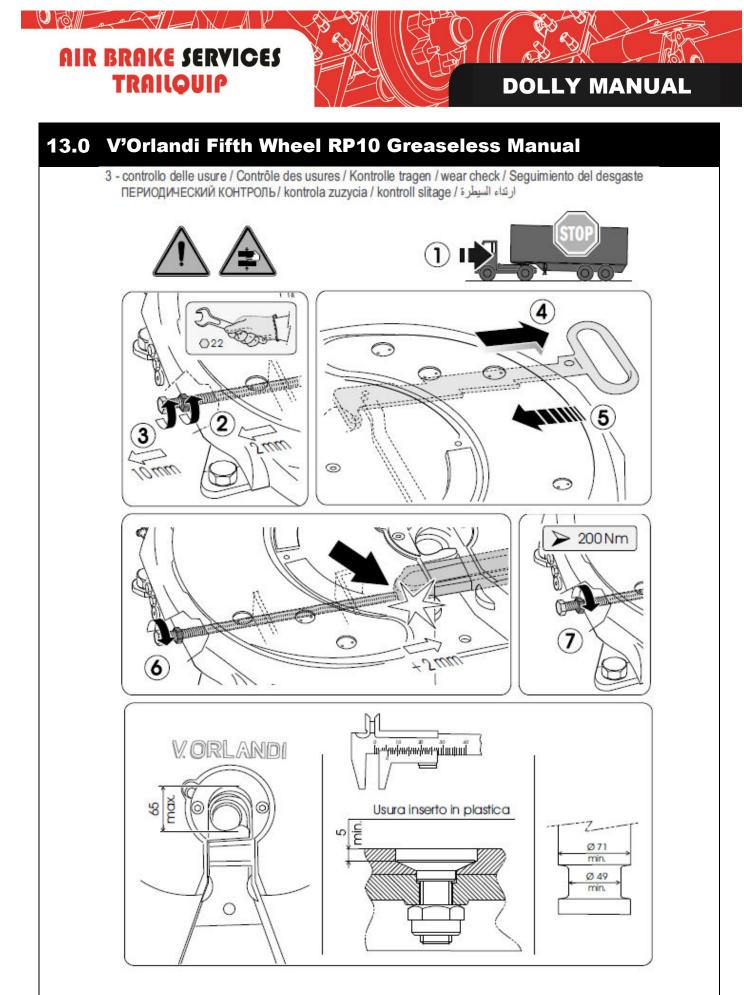


Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



Page 54 of 94

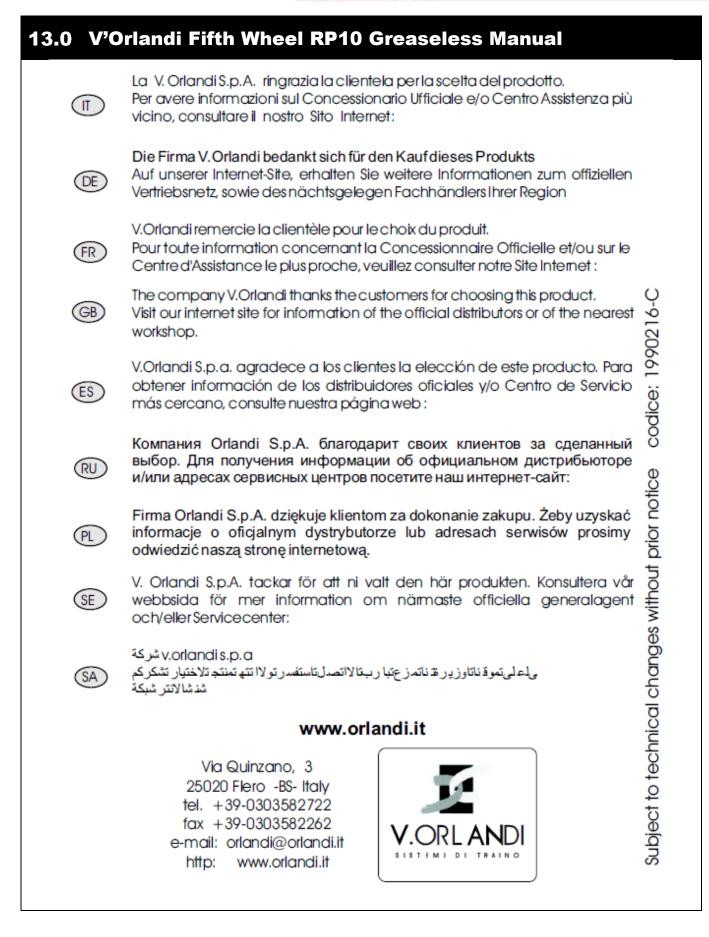
ABS Trailquip reserves the right to alter specifications without notice ROBUST SUSP V1



8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1 Page 55 of 94

Port and A

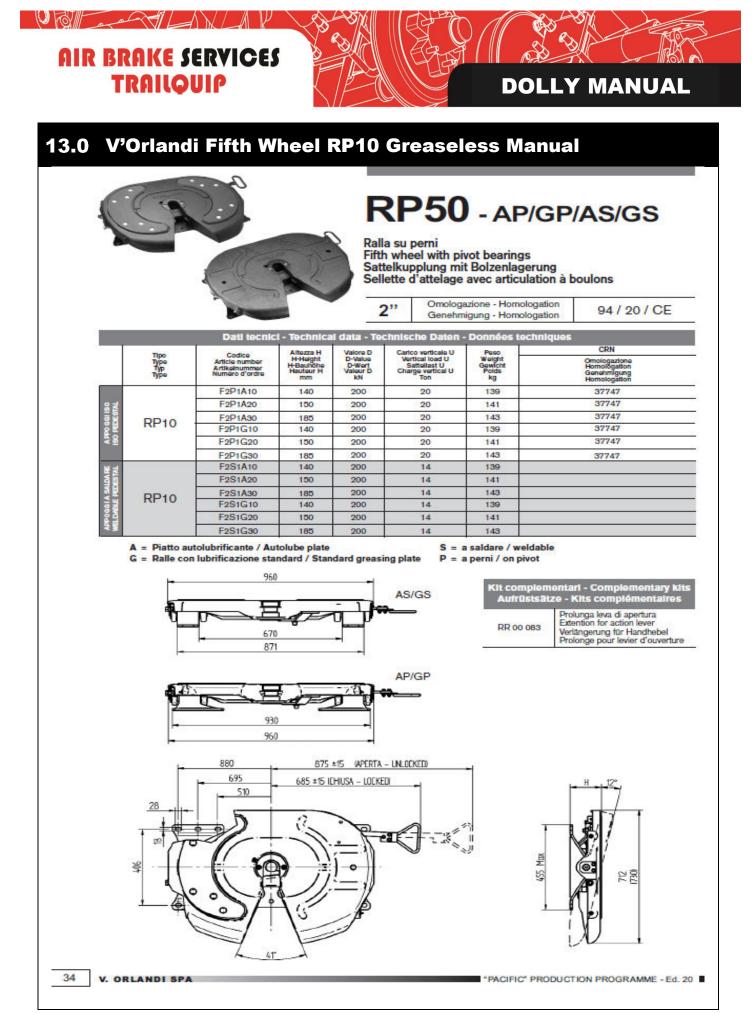




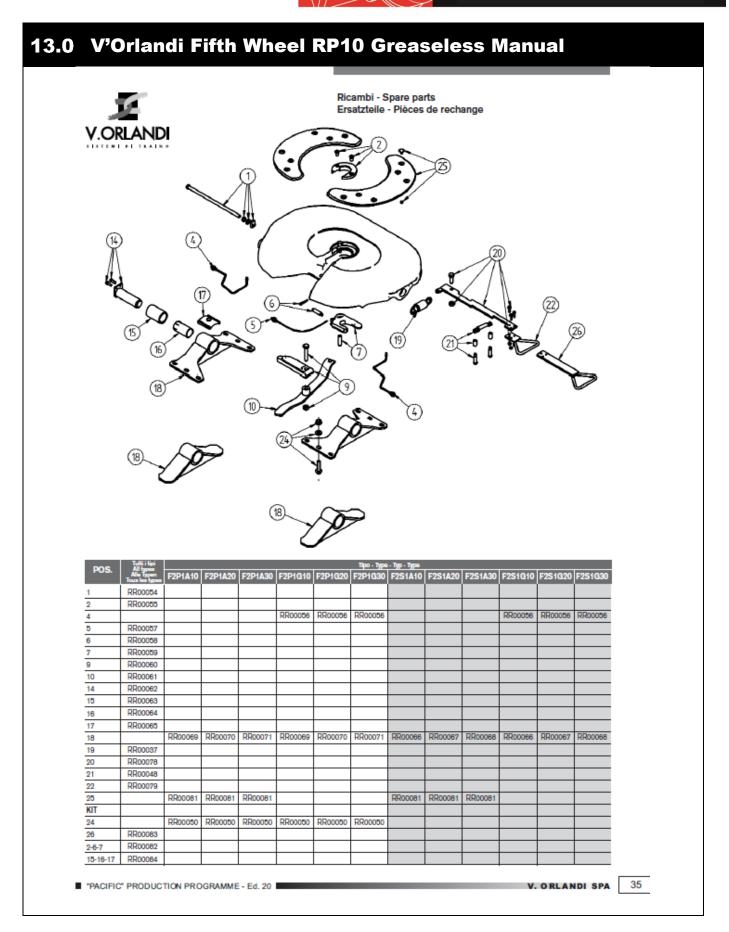
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 56 of 94

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1



DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 58 of 94

**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1



**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 59 of 94

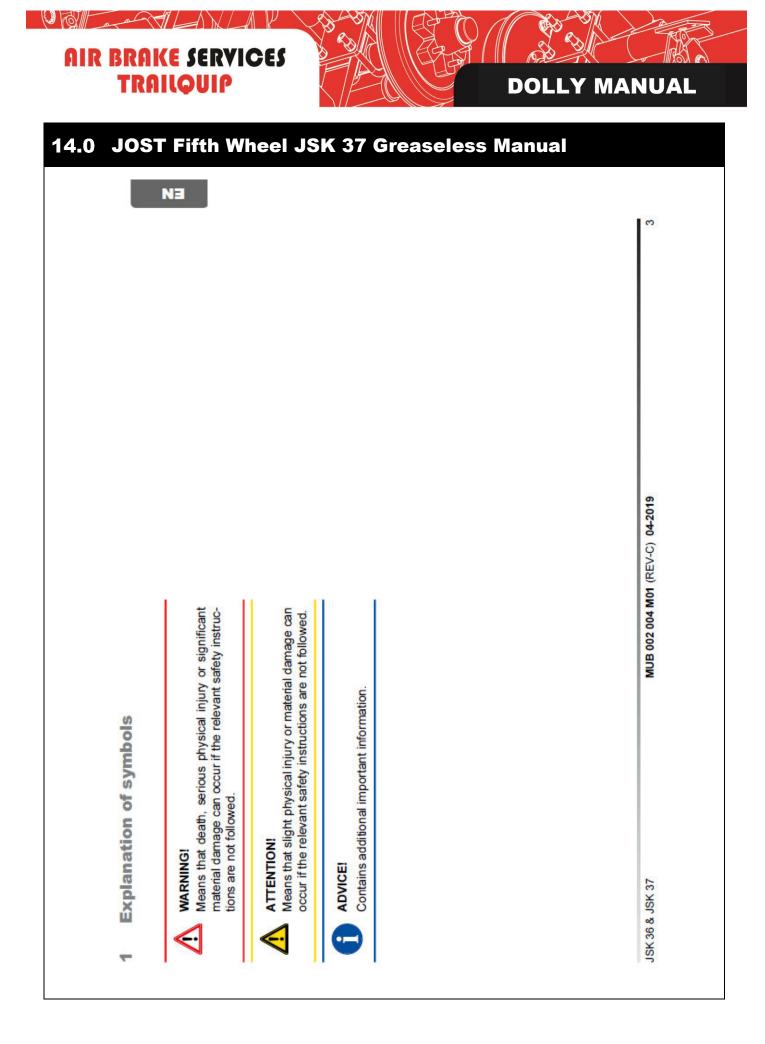
Valant

DOLLY MANUAL

						14.0	
E .	Table of contents					JOS	
-	Explanation of symbols	3	Ser Ser	Servicing and testing	EN	ST	
8	Safety information	4 44ω	5	ith manual lubrication. ith central lubrication wheel coupling with n W).		Fifth Who	
3	Proper usage	9 00 L	6.5 6.5 7 6.5 7 6.5			el JSK	
4	Operation 9 4.1 Fifth wheel coupling closed and locked 9 4.2 Fifth wheel coupling ready for engagement 9 4.3 Opening the fifth wheel coupling 10 4.4 Coupling up a semi-trailer 10 4.5 Uncoupling a semi-trailer 11 4.6 Checking the locking mechanism 11	o oo02225	0.0	Wear limit – top plate liners 22		37 Greasele	
9	Installation	12 12 12 12 12 12 12 12 12 12 12 12 12 1				ess Manual	
2	MUB 002 004 M01 (REV-C) 04-2019	M01 (REV-(8	2019 JSK 36 & JSK 37			

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1



8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 61 of 94

Safety information

2

ATTENTION!

tions and marked with the danger symbol shown here to tion. Where the user of the fifth wheel coupling is in danger, the safety information is repeated in the various sec-The safety instructions are summarised in a single seche side.

tor units and semi-trailers. The appropriate safety information in the operating manual for the tractor unit and the semi-trailer continues tion applies to the installation, servicing and mounting work. Items to remain valid and must be followed. The following safety informaof safety information directly linked to the activity are listed again & Safety at Work) apply for working with fifth wheel couplings, trac-The relevant safety regulations in your country (for example Health individually

Safety information for operation 5

The fifth wheel coupling may only be operated by authorised personnel

AIR BRAKE SERVICES TRAILOUIP

14.0

- The front edge of the skid plate must not be sharp, otherwise it Only use the fifth wheel coupling and skid plate on the semi-trailer if they are in perfect technical condition.
- semi-trailer, for example the Health and Safety at Work Regu-Comply with the relevant safety regulations when connecting may damage the fifth wheel coupling or the top plate liners. When coupling up a semi-trailer, the skid plate must be at lations. Only couple up a semi-trailer on firm, flat ground.

a

ensure that it is properly locked. Only drive the vehicle with the Check the locking mechanism before starting your journey to coupling plate on the fifth wheel coupling. Pressure losses in the air suspension may change the height of the semi-trailer. locking mechanism locked and secured, even when driving the same height as or ideally max. 50 mm lower than the

JOST Fifth Wheel JSK 37 Greaseless Manual

Safety information for servicing 22

without a semi-trailer (solo driving)

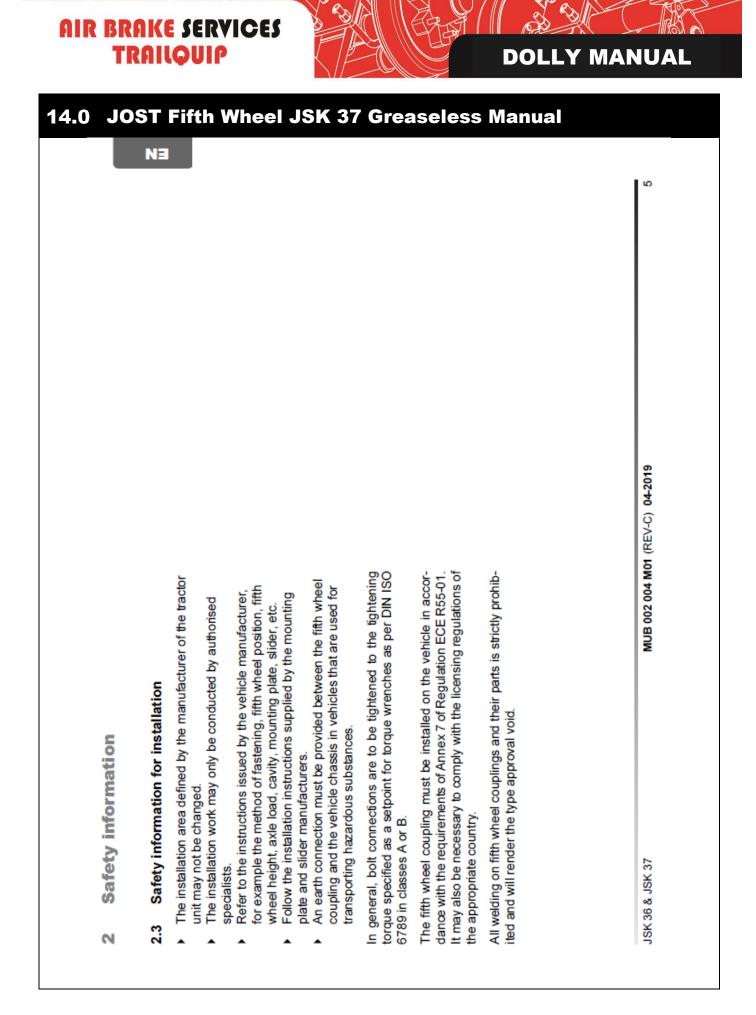
- Only use the specified lubricants for servicing work.
- The servicing work should only be conducted by skilled personnel

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

ISK 36 & JSK 37

MUB 002 004 M01 (REV-C) 04-2019

Page 62 of 94



**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

3 Proper usage

3.1 Application

JOST fifth wheel couplings are mechanical connection devices and establish the connection between the tractor unit and semi-trailer. They are designed for mounting on a tractor unit.

Fifth wheel couplings, mounting plates and king pins are connecting parts that must comply with very high safety requirements and must also undergo design approval tests. Modifications of any kind will render both the warranty and the design approval void and therefore also cancel the vehicle's operating licence. JOST fifth wheel couplings are specified to comply with Regulation ECE R55-01 Class 50 and are exclusively to be used in combination with king pins of Class H50 and Class J steering wedges and mounting plates or with comparable licensed equipment. JOST fifth wheel couplings are suitable for use with power steering systems.

Technical modifications reserved. The latest information can be found at www.jost-world.com

3.2 Unintended use

The following will be deemed to be unintended use:
 Use of king pins which do not comply with the ISO 337 or DIN 74080 standards

RAKE SERVICES

TRAILOUIP

AIR B

14.0

- Use of defective king pins. Defects may include, for example, damage to the king pin, incorrect dimensions and installation on uneven or damaged skid plates
- Use with plastic discs mounted on the semi-trailer
 Use with an imposed load or D value above the maximum per-
 - Use with an imposed load or D value above the maximum mitted values
- Incorrect towing procedures which adversely affect the smooth functioning of the fifth wheel coupling

JOST Fifth Wheel JSK 37 Greaseless Manual

- Attachment or fastening of lifting equipment
 Other applications which do not comply with the ma
- Other applications which do not comply with the manufacturer's recommendations

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



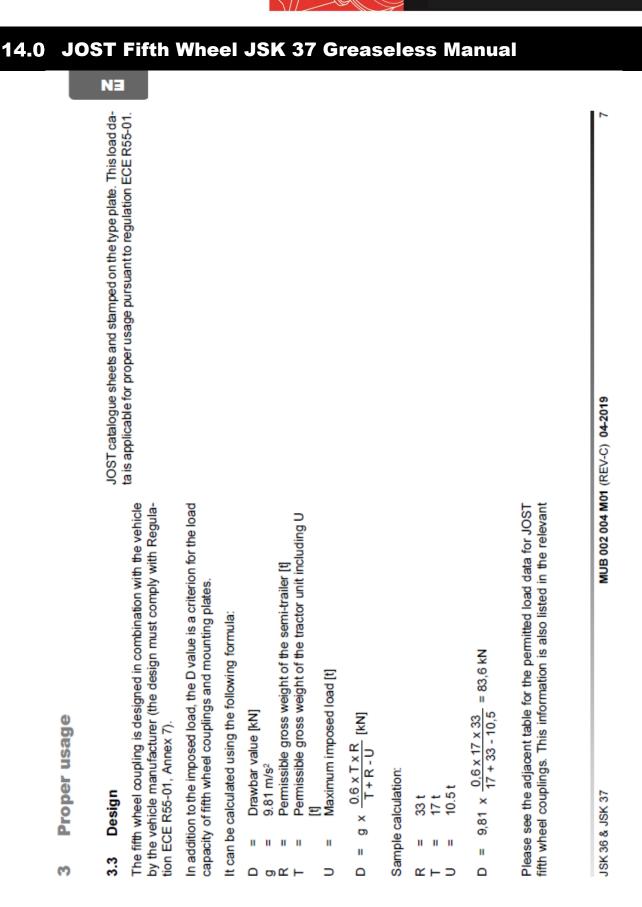
Page 64 of 94

9

DOLLY MANUAL

JSK 36 & JSK 37

MUB 002 004 M01 (REV-C) 04-2019



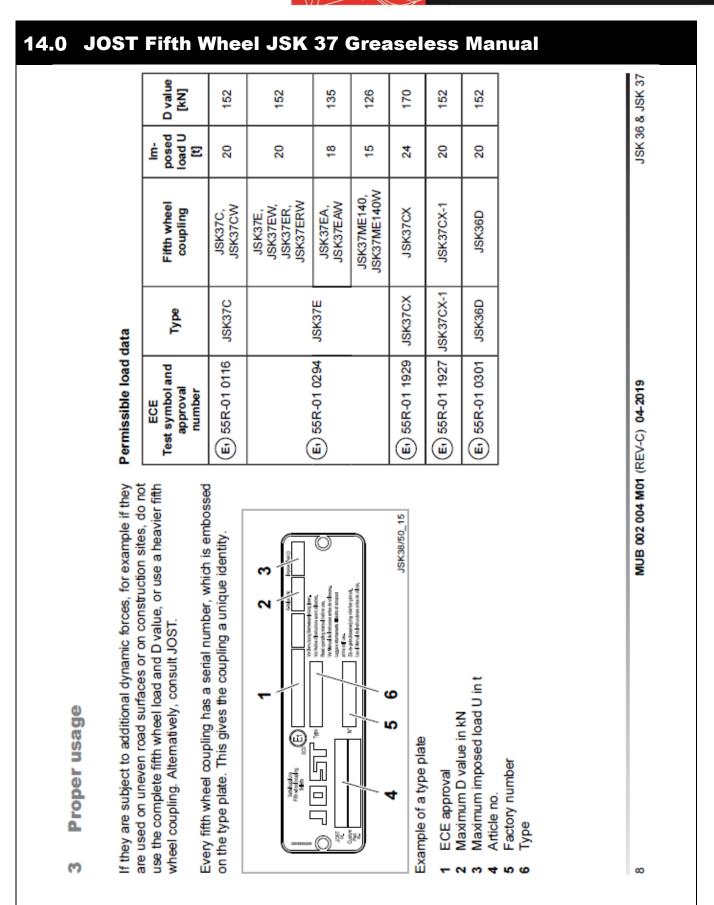
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



DOLLY MANUAL

ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

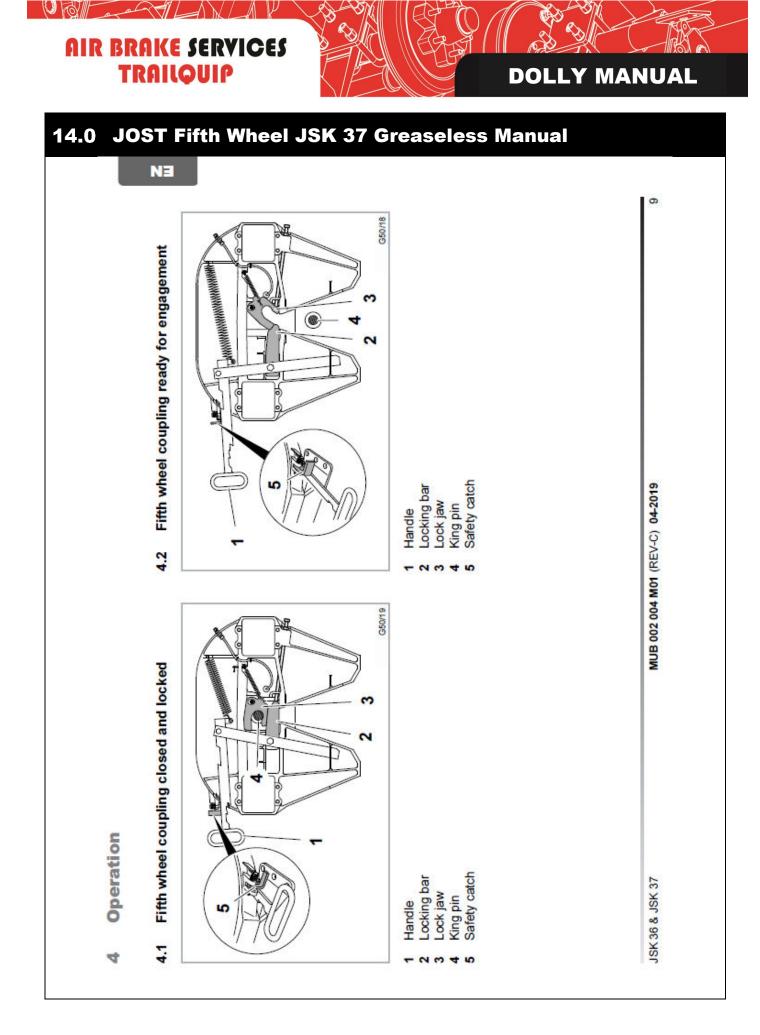
DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

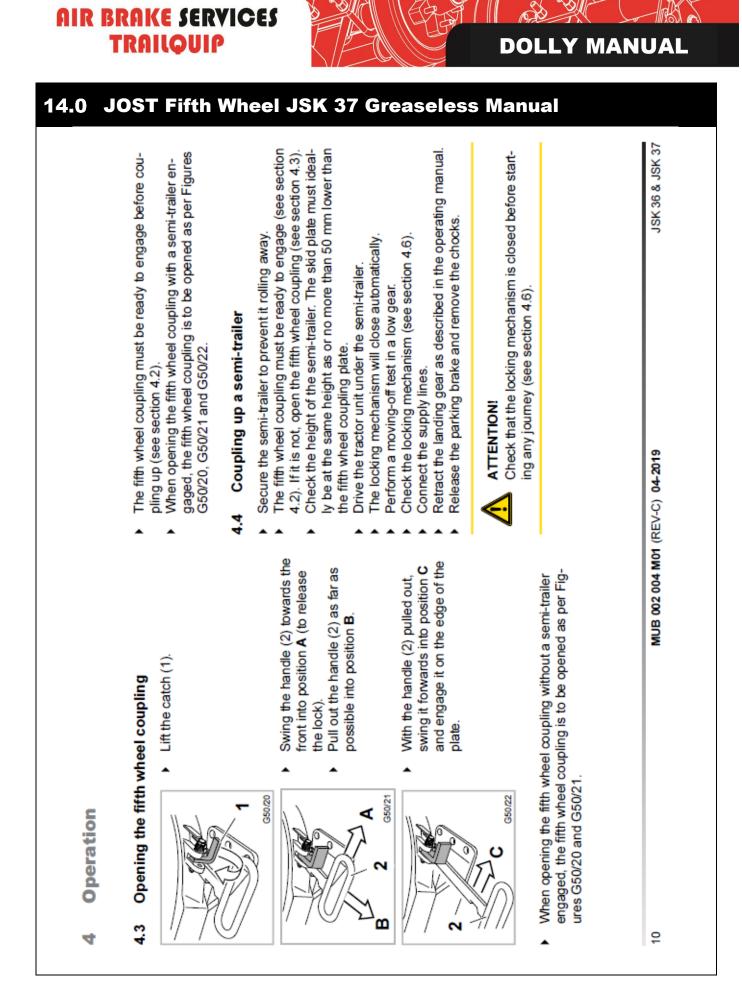
2018 -

ABS Trailquip reserves the right to alter specifications without notice ROBUST SUSP V1



8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

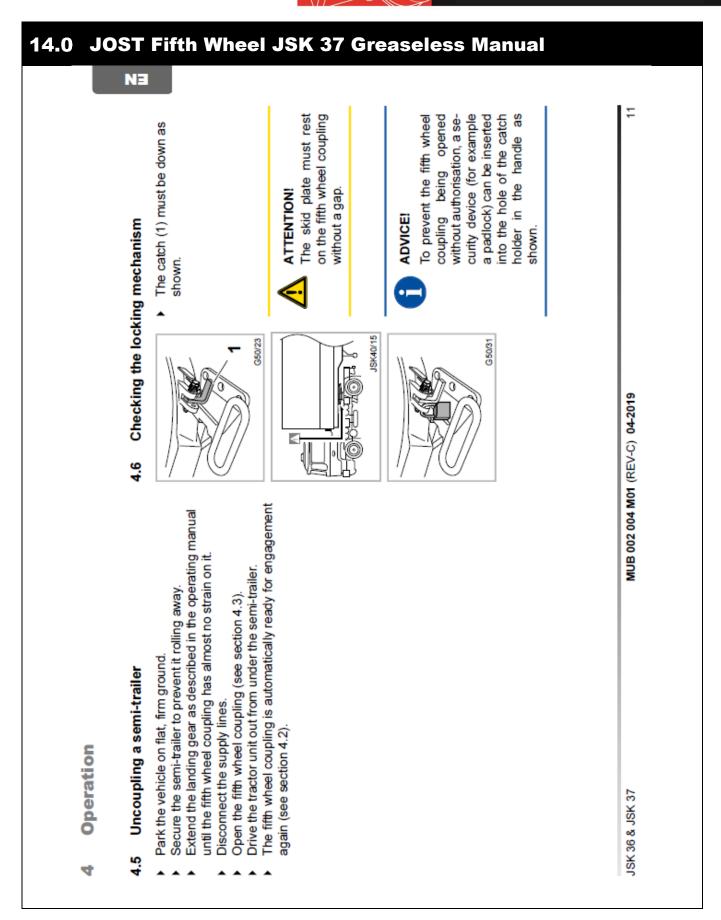
Page 67 of 94



V / X / P

Page 68 of 94

DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Installation

S

General installation instructions 5.1

To fasten the JOST fifth wheel coupling (pursuant to Regulation ECE R55-01) on the mounting plate or on the auxiliary frame, at least 8 M16 bolts, ideally M16 x 1.5 of strength class 8.8, must be used.

These must be positioned in a symmetrical pattern to the longitudinal and lateral axes of the fifth wheel coupling

tion sites), with trailers with forced steering or with trailers that use the full D value and/or imposed load, we recommend that you use If the coupling is used in harsh conditions (for example on construcall 12 bolts. Fifth wheel couplings with a design height of over 250 mm and a D class 10.9. This also applies to fifth wheel couplings with a D value value of over 133 kN must be secured with 12 bolts with strength of more than 152 kN or an imposed load of more than 20 t.

We recommend that you use JOST fastening kits (see JOST catalogue for order numbers) The pedestals should make contact with the mounting plate over as essary to have a support in the middle area as well as the contact in the screw connection area. We recommend securing the pedestals in the longitudinal and lateral directions and the mounting plates in the longitudinal direction using pre-welded thrust plates with zero play. Use the welding methods set out by the manufacturers of the wide an area as possible. With undulating mounting plates, it is necvehicle and mounting plate for this purpose (see section 5.2).

There is no need to use thrust plates, however, if it can be ensured that the correct tightening torque for the bolts and therefore the perfect friction contact can be generated and maintained at all times

DOLLY MANUAL

JSK 36 & JSK 37

MUB 002 004 M01 (REV-C) 04-2019

The bolt connections are therefore to be designed so that the prescribed tightening torque values or pre-stressing forces can be applied permanently.

KE

TRAILOUIP

SERVICES

The general rule is that the coating thickness of the paintwork around the securing area of the bolts must be no more than 120 µm per component.

The bolt connections are to be secured using state-of-the-art methods to prevent them coming loose.

must not be in contact with either the mounting plate or parts of the plication. The fifth wheel coupling must be able to move freely and chassis or auxiliary frame when the vehicle is being driven. If you Appropriate reinforcement must be made in accordance with the apuse a different installation method (for example chassis installation) follow the instructions supplied by the vehicle manufacturer.

ATTENTION!

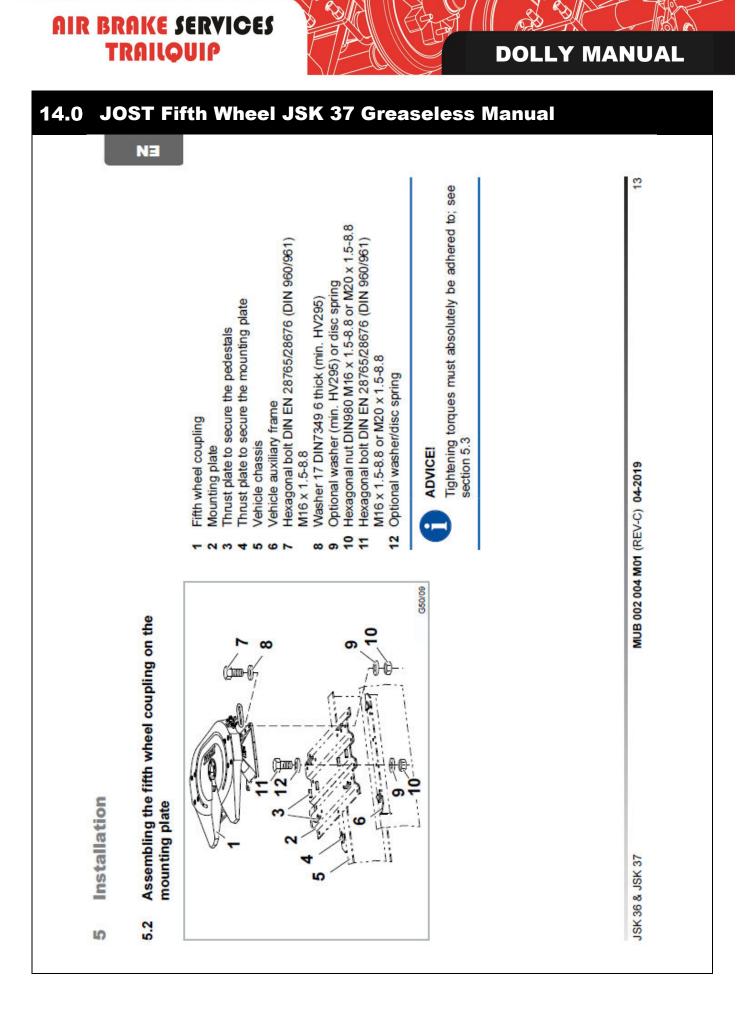
The fifth wheel coupling must be able to move freely and must not be in contact with any parts of the frame or flitch when the vehicle is being driven.

14.0

JOST Fifth Wheel JSK 37 Greaseless Manual

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

2



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Alla -

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 71 of 94

1 All and the

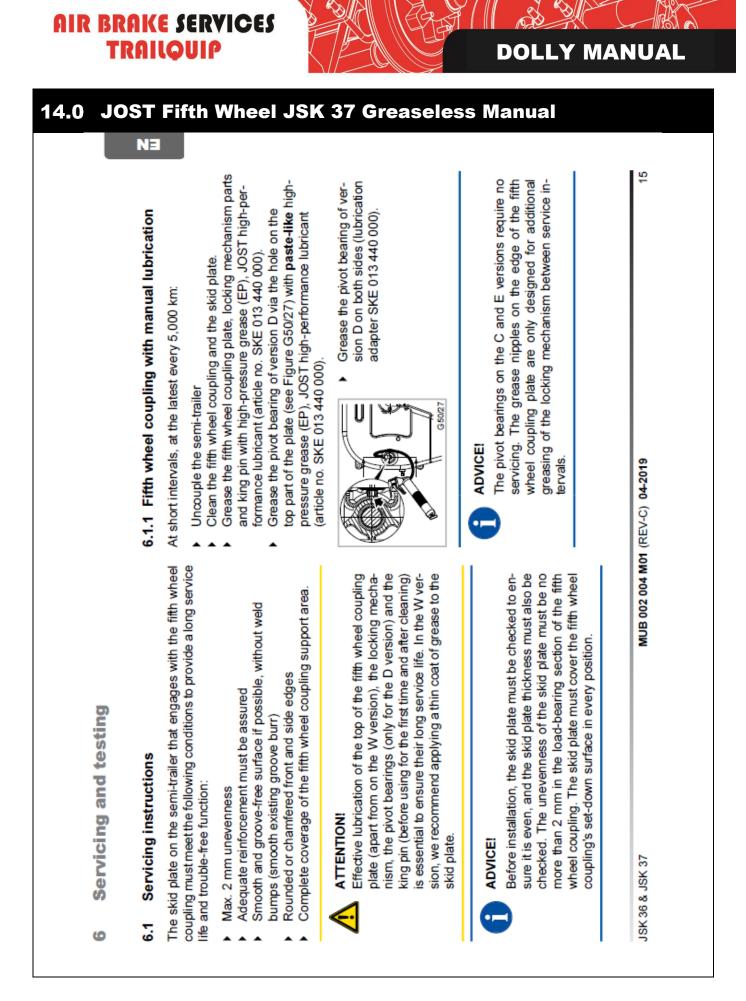
DOLLY MANUAL

Fastering material and tightening torques tening material separating material Standard thread M16 Strength agonal bott DIN EN 24014/24017 (DIN 931/9333) standard thread M16 210 Nm wagonal bott DIN EN 24014/24017 (DIN 960/961) fine thread M16 210 Nm wagonal bott DIN EN 28765/28676 (DIN 960/961) fine thread M16 210 Nm wagonal bott DIN EN 28765/28676 (DIN 960/961) fine thread M16 210 Nm wagonal bott DIN 7991 M16 or M16 x 1.5 330 Nm ADVICE1 The values shown above are guide values for a coefficient of friction µ tot. = 0.14. Further information is available				
M16 Strength M20 210 Nm M20 410 Nm M16 × 1.5 225 Nm M20 × 1.5 225 Nm M20 × 1.5 170 Nm M20 or M16 × 1.5 330 Nm M20 or M20 × 1.5 330 Nm	5.3 Fastening material and tightening torques			
M16 M20 M16 × 1.5 M16 × 1.5 M20 × 1.5 M20 or M16 × 1.5 M20 or M20 × 1.5 M20 × 1.5 W20 × 1.5	Fastening material		Strength class 8.8	Strength class 10.9
8765/28676 (DIN 960/961) fine thread M16 x 1.5 25 Nm M20 x 1.5 450 Nm M16 or M16 x 1.5 170 Nm M20 or M20 x 1.5 330 Nm m20 values for a coefficient of friction μ tot. = 0.14. Further information is available m18.00 000 000 000 000 000 000 000 000 000	xagonal bolt DIN EN 24014/24017 (DIN 931/933) standard thread	M16 M20	210 Nm 410 Nm	260 Nm 500 Nm
M16 or M16 x 1.5 170 Nm M20 or M20 x 1.5 330 Nm n above are guide values for a coefficient of friction µ tot. = 0.14. Further information is available	xagonal bolt DIN EN 28765/28676 (DIN 960/961) fine thread	M16 × 1.5 M20 × 1.5	225 Nm 460 Nm	280 Nm 500 Nm
es shown above are guide values for a coefficient of friction µ tot. = 0.14. Further information is available MIR mo nut MM (REVLC) 04.2019	xagonal bolt DIN 7991	M16 or M16 x 1.5 M20 or M20 x 1.5	170 Nm 330 Nm	250 Nm 400 Nm
	es shown above are guide	l µ tot. = 0.14. Further infor	rmation is availab	le in VDI 2230.
	MUB 002 004 M01 (REV-C)	04-2019		JSK 36 & JSK 37

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1



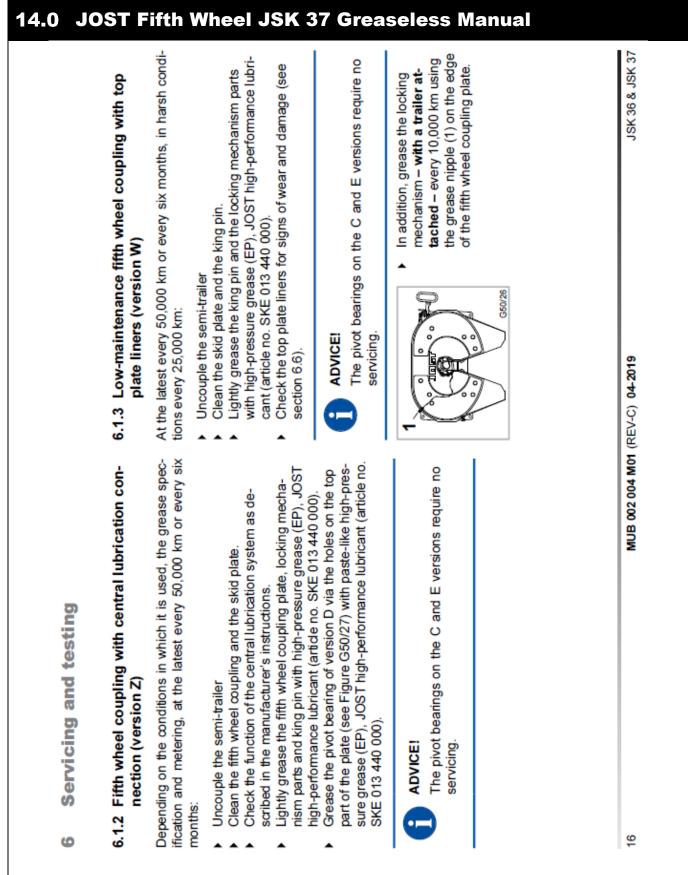
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

f 94

Page 73 of 94



DOLLY MANUAL



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 74 of 94



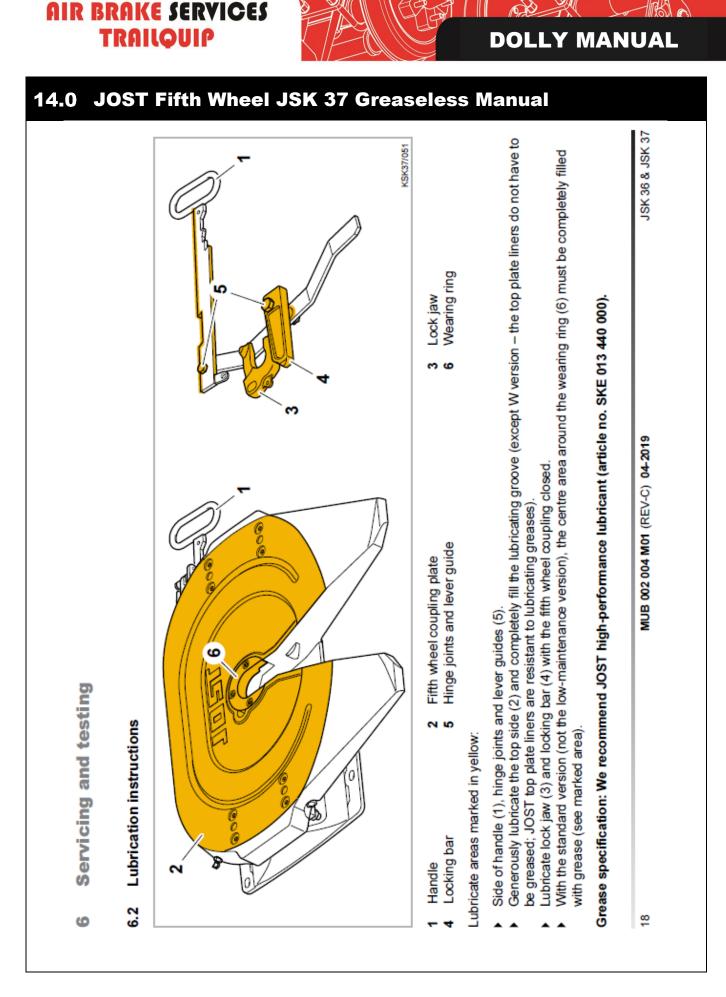
10 total and the second second



14.0 JOST Fift	th Wheel JSK 37 Greaseless Manual	
ЕИ	_	
 6.1.4 Grease specification We recommend high-pressure grease (EP), e.g. JOST high-performance lubricant (article no. SKE 013 440 000). 		MUB 002 004 M01 (REV-C) 04-2019 17
6 Servicing and testing You can also install automatic lubricant dispensers. To prevent corrosion on the skid plate, we recommend that the skid plate is greased lightly during the above service intervals.	you dean the fifth wheel coupling, y waste products that contain polluting ould like to point out that you must co s national waste regulations for the di	JSK 36 & JSK 37 MUB 002 004 MO

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

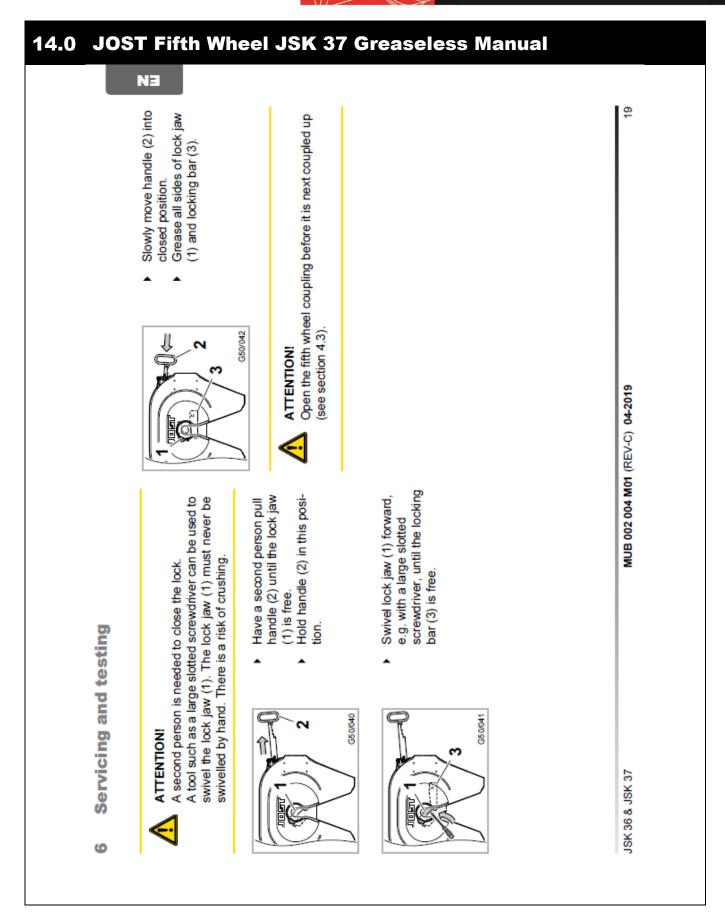
Page 75 of 94



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

Page 76 of 94

DOLLY MANUAL

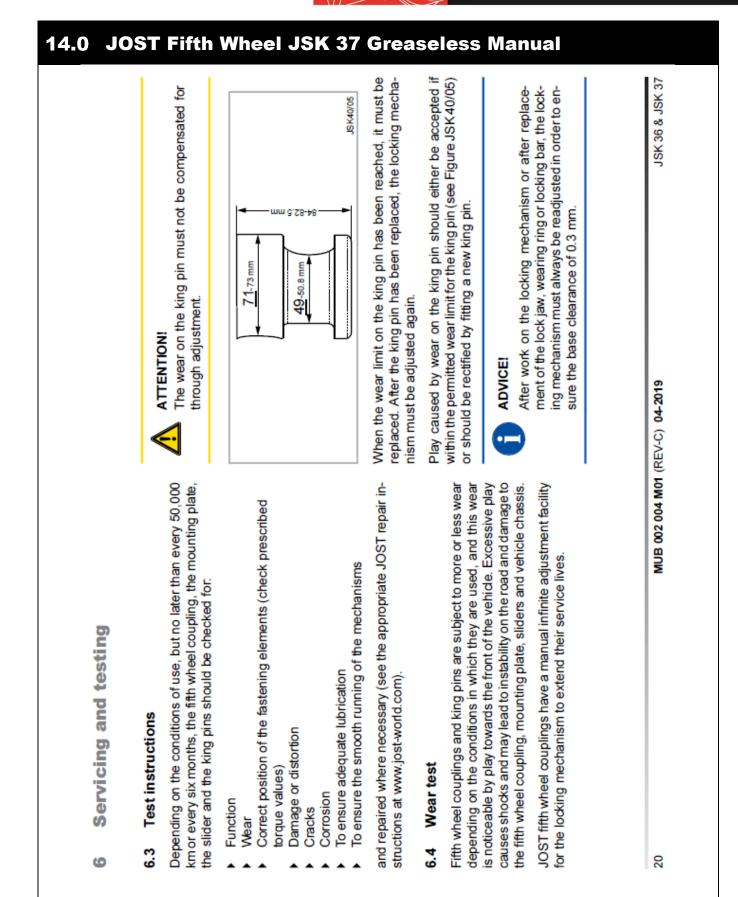


Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 77 of 94

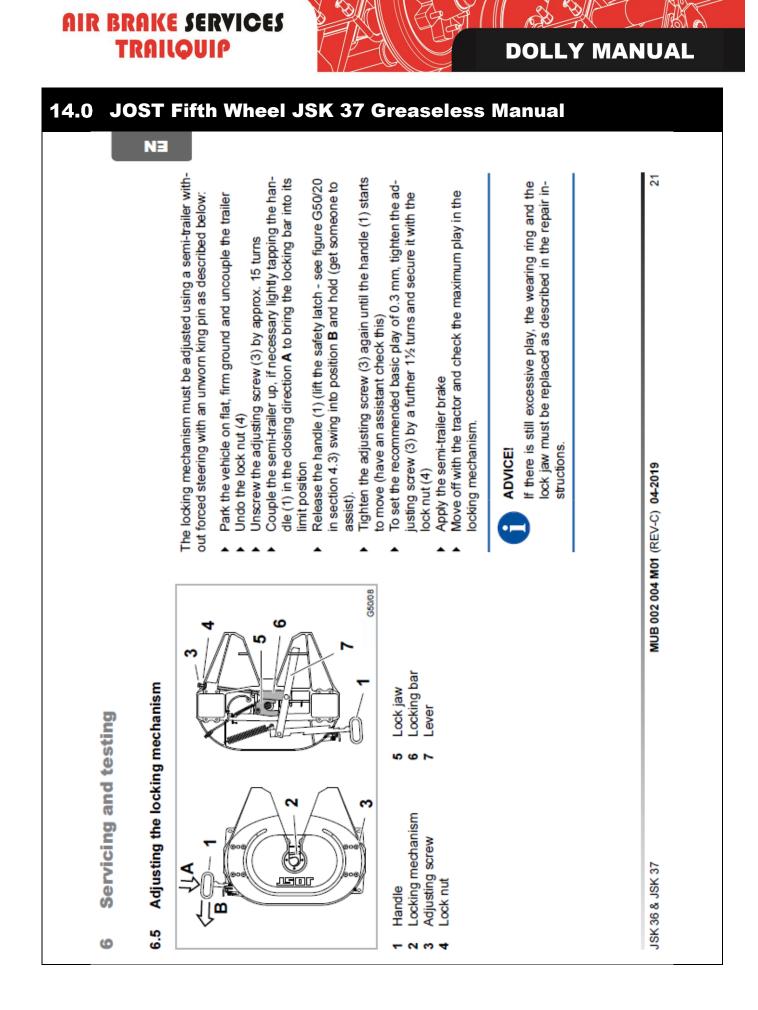
DOLLY MANUAL



Sales office 1898 lpswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

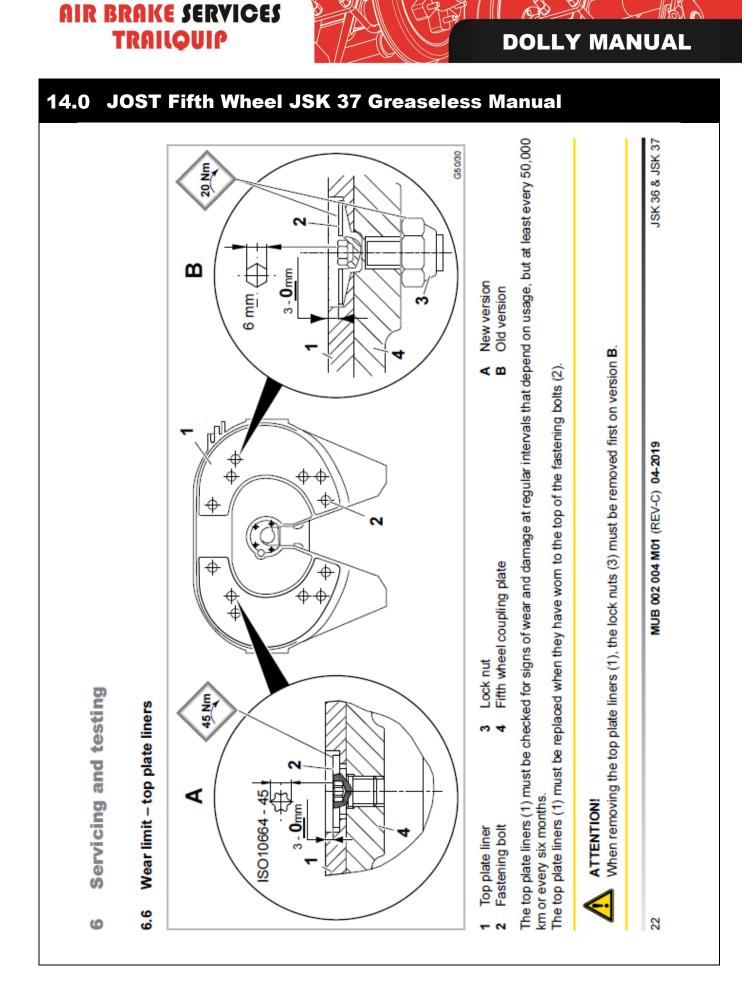
**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1 Page

Page 78 of 94



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

SUSP VIABS Trailquip Pty Ltd 2018 Page 79 of 94



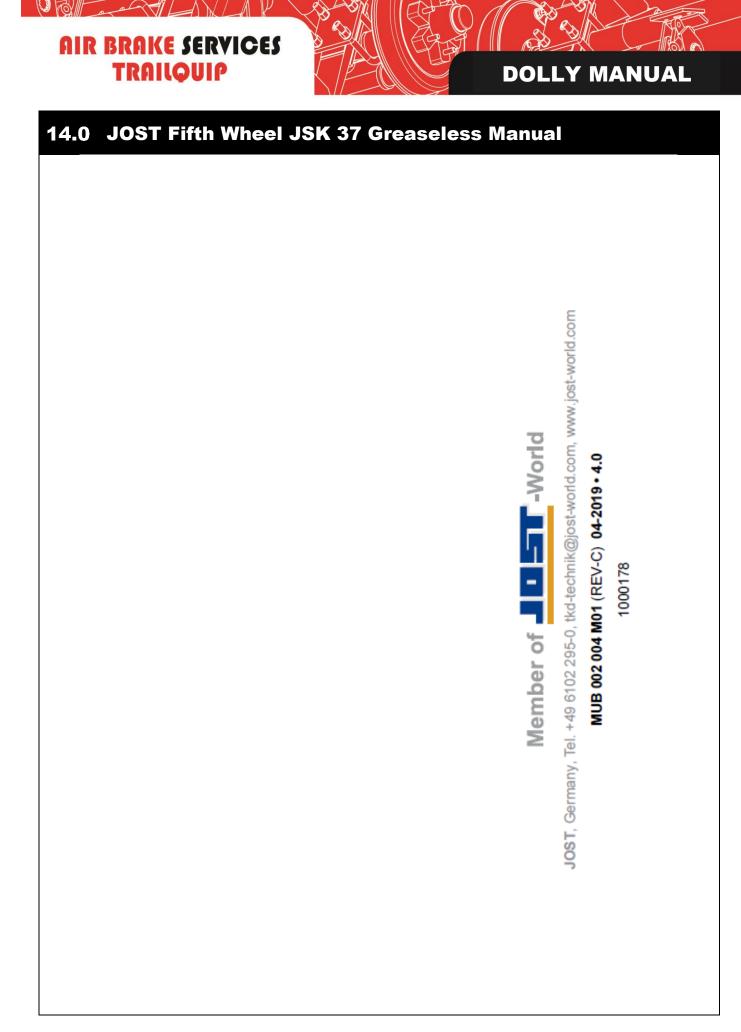
L

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

ions without notice

**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 80 of 94



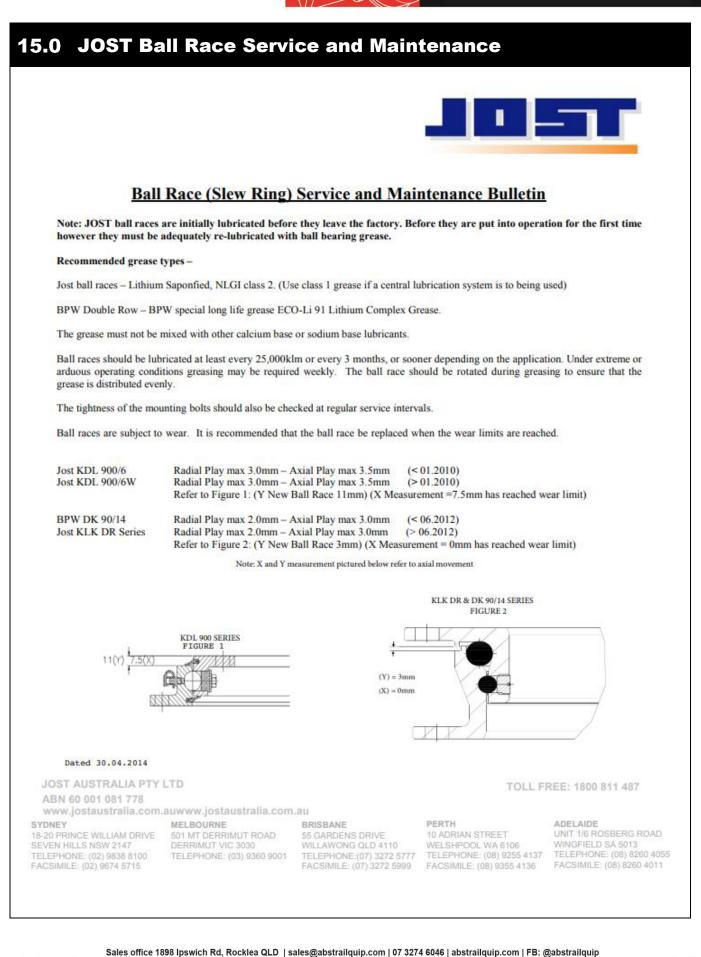
Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 81 of 94



DOLLY MANUAL



*ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 82 of 94

DOLLY MANUAL



V Re and A LAN LA K

AIR BRAKE SERVICES TRAILOUIP

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 83 of 94

V Relation of Land Land



16.0 JOST Fifth Wheel LubeTronic Manual

Safety informatio

The relevant safety regulations in your country (for example Health & Safety at Work) apply for working with fifth wheel couplings, tractor units, semi-trailers and the JOST LubeTronic. The appropriate safety information in the owner's handbook for the

The appropriate safety information in the owner's handbook for the tractor unit and the semi-trailer are valid and must be followed. The safety information set out below must be observed when assembling the JOST LubeTronic. Safety information directly linked to the activity is listed again individually.

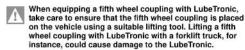
A

Safety information in the following sections is shown with the warning triangle symbol. You must comply with this safety information!

1.1 Safety information for installation

- The JOST LubeTronic must be attached to the fifth wheel
- coupling as shown in section 4. The JOST LubeTronic must be installed by trained personnel in suitable workshops. Follow the installation directive supplied by the vehicle manufacturer, the requirements of Directive 94/20 EC, Appendix VII and/or ECE R55-01 Appendix 7 and, if applicable, Sections 19, 20 and 21 of the Road Traffic Act and the installation
- instructions. If the equipment is not installed correctly, all warranty claims against the manufacturer and the supplier of the LINET rule Transmither rendered void
- JOST LubeTronic will be rendered void. For ADR/GGVS vehicles, the regulations and country-specific legislation must be observed.
 - The ADR report can be viewed at www.jost-world.com

2 Correct use



The JOST LubeTronic is an automatic lubricating system for lock jaws that comprises a fully-automatic lubricant dispenser and speciallycoated lock jaw.

The JOST LubeTronic is designed for attachment to low-maintenance fifth wheel couplings of type JSK 37 W, JSK 40 W and JSK 42 W.

The JOST LubeTronic also permits the lubrication of articulated connections and bearings on fifth wheel coupling components, such as on lifting equipment for fifth wheel couplings.

The system must not be installed in tractors that are operated on building sites.

The permissible operating temperatures of the lubricant dispenser lie between -20°C and +70°C.

At operating temperatures below -20°C, the lubricant dispenser will not dispense any lubricant. The specially-coated lock jaw allows the system to continue operating without problems even without lubricant. As soon as the temperature returns to the operating temperature range specified, the lubricant dispenser will resume working as normal.

The system is not suitable for continuous use at temperatures below -20°C.

The LubeTronic's service life is around 3 years.

16 JOST

1006181 · ZDE 199 002 128 · 10/2015

LubeTronic

3 General information

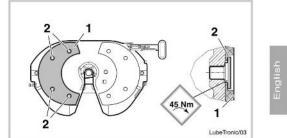
During the LubeTronic's operational life, the LED will flash once every 2 minutes on the lubricant dispenser. When the lubricant dispenser is empty, the LED on the lubricant dispenser will flash once every 5 seconds.

Spent lubricant dispensers should be disposed of as electronic scrap. Such materials must be disposed of in accordance with legal requirements. For more information, contact your local waste collection facility or JOST.

Once the operating life has expired, the lock jaw and lubricant dispenser must be replaced. Spare parts kit: SKE004070100

4 Assembly and commissioning

4.1 Installing the lubricant dispenser



Note

Comply with the tightening torque!

Remove the screws (2) on the left-hand liner (1). Remove the top plate liner (1) from the fifth wheel coupling.

LubeTronic

1006181 · ZDE 199 002 128 · 10/2015

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1 ABS Trailquip Pty Ltd 2018 Page

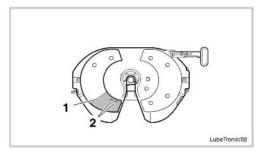
Page 84 of 94

V Re and Law A

DOLLY MANUAL

JOST Fifth Wheel LubeTronic Manual 16.0

4 Assembly and commissioning

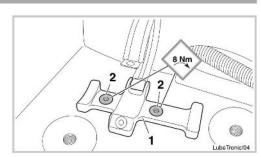


Note

- Only use the template (1) appropriate for the JSK type
- Insert template (1) as shown in the holder for the left-hand liner. b

Note

- Ensure that the distance between the two drill-holes is the same as on the mounting clip.
- Transfer the drilling points (2) of the template (1) onto the fifth wheel coupling and drill through with a spiral drill bit Ø 5 mm.
- Tap an M6 thread. Re-install the left-hand liner.



Note Comply with the tightening torque!

• Screw the fastening clip (1) to the fifth wheel coupling using the countersunk head screws (2). If you wish, you may also secure the screws further by using Loctite, for instance.

18 **JOST**

1006181 · ZDE 199 002 128 · 10/2015

5

LubeTronic

4 Assembly and commissioni

2

3

3 Nm

4.2 Painting

If the fifth wheel coupling with LubeTronic is painted and a paint dryer is used, or the paint is dried in a drying chamber, care must be taken to ensure that the LubeTronic is not subjected to direct exposure to the rays. Persistent heating of the LubeTronic to over 70°C must be avoided.

On ADR vehicles, the earth strap (6) must be attached between the lubricant dispenser (1) and the upper section of the fifth wheel coupling plates. The earth strap must also be attached between the coupling plate and the base of the fifth wheel coupling. The ADR report can be viewed at www.jost-world.com

Note Ensure that the groove of the fastening clip (2) lies in the recess on the lubricant dispenser (1).

Insert the lubricant dispenser (1) into the fastening clip (2) and close the fastening clip (2).

Note

- Comply with the tightening torque!
- Secure the fastening clip (2) using Allen screw M5 x 10 mm (3), toothed ring (4) and washer (5). b

1006181 · ZDE 199 002 128 · 10/2015 LubeTronic **JOST** 19

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

O Real A LANGAR

DOLLY MANUAL

JOST Fifth Wheel LubeTronic Manual 16.0 4 Assembly and commissioning 4.3 Replacing the lock jaw (JSK 37 W) Unhook the double spring (1). Release the spring (2). Undo the screws (3) on the wear part. 2 49 Nm Remove the wear part (4). Remove the pin (5). Remove the lock jaw (6). Install specially-coated lock jaws in the reverse sequence using assembly parts, some of which are new To adjust the fifth wheel coupling, test king pin SKE 008630000 can be used. This must however 6 1 lie over its entire surface on top of the fifth wheel coupling! 5 Note The detailed steps for removing the lock jaw can be found in the repair instructions for JSK 37 (available on the 2 Internet at www.jost-world.com). LubeTronic/08 20 .057 1006181 · ZDE 199 002 128 · 10/2015 LubeTronic 4 Assembly and commissioning Replacing the lock jaw (JSK 40 & JSK 42) 4.4 Unhook the double spring (1). Release the spring (2). Undo the screws (3) on the wear part. Remove the wear part (4). Remove the wear part (4). Remove the pin (5). Rotate and remove the lock jaw (6). Install specially-coated lock jaws in the reverse se-quence using assembly parts, some of which are new To adjust the fifth wheel coupling, test king pin SKE 008630000 can be used. This must however 1 lie over its entire surface on top of the fifth wheel coupling! 6 Note The detailed steps for removing the lock jaw can be found in repair instructions for JSK 40 & JSK 42 (available on the Internet at www.jost-world.com). 2 LubeTronic/09 LubeTronic 1006181 · ZDE 199 002 128 · 10/2015 JOST 21

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



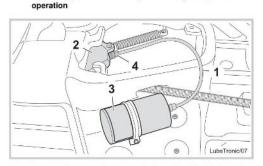
U To The ALAN A

DOLLY MANUAL

16.0 JOST Fifth Wheel LubeTronic Manual

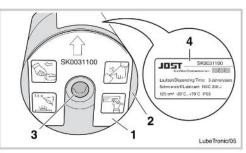
4 Assembly and commissioning

4.5 Connecting the lubricant dispenser and putting it into



Remove the protective cap on the hose (1) of the lubricant dispenser (3). Connect the hose (1) on the lubricant dispenser (3) correctly to the connecting piece on the lock jaw (2). To do this, slide the locking nut onto the hose (1). Place the end of the hose on the grommet of the connecting piece.

Tighten the locking nut (4) to its terminal position.



Pull the protective cap (1) upwards from the lubricant dispenser (2). Firmly press the push-button (3) of the lubricant dispenser (2)

- inwards.
- Write the start date on the sticker (4). Write the start date on the enclosed second label and stick it on in a clearly-visible place.

Note

As confirmation that the lubricant dispenser (2) has been activated, the LED in the push-button (3) lights up for at least 15 seconds. The lubricant dispenser can only be activated once.

An activated lubricant dispenser cannot be deactivated.

The specially coated lock jaw is supplied with an initial lubrication. The initial lubrication guarantees lubrication of the lock jaw until the lubricant cartridge has supplied a sufficient quantity of grease. This significantly improves the operating life. If the lubricant is wiped off the lock jaw, e.g. as a consequence of cleaning, we recommend greasing the functional surfaces of the lock jaw again by hand before continuing to operate the vehicle.

22

1006181 · ZDE 199 002 128 · 10/2015

LubeTronic

.

No.	Fault	Cause	Remedy
1	The lubricant dispenser is not lubricating or is not lubricating adequately.	The lubricant dispenser is not activated.	Activate the lubricant dispenser. See Section 4.5 "Connecting the lubricant dispenser and putting it into operation" in these A&O.
		The lubricant line is damaged or crushed.	Check the lubricant line for damage and crushing and replace any lines that are damaged or crushed.
		The grease supply has run out.	The lubricant dispenser and lock jaw must be replaced. Spare parts kit: SKE004070100
		The housing is damaged.	The lubricant dispenser and lock jaw must be replaced. Spare parts kit: SKE004070100
2	Function light flashes once every 5 seconds	The grease supply has run out.	The lubricant dispenser and lock jaw must be replaced. Spare parts kit: SKE004070100

LubeTronic

1006181 · ZDE 199 002 128 · 10/2015

JOST 23

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip



8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1





DOLLY MANUAL

16.0 JOST Fifth Wheel LubeTronic Manual

24 JOST

1006181 · ZDE 199 002 128 · 10/2015

LubeTronic



Siemensstraße 2, D-63263 Neu-Isenburg, Telefon +49 6102 295-0, Fax +49 6102 295-298, www.jost-world.com 1006181 • ZDE 199 002 128 • 10/2015

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

Page 88 of 94

A A KA

DOLLY MANUAL

17.0 Right Weigh – Analogue Load Scale

Calibration Instructions:

Step 1: The vehicle must be loaded. For best results, calibrate with a loaded weight that is within 650 KG of the legal limit for the axle group. Do Not Calibrate Empty!

Step 2: Using a certified in-ground scale, obtain a loaded weight for the axle group attached to the Right Weigh load scale.

Step 3: Park on a level surface. Shift the transmission to neutral and set the parking brakes.

Step 4: Chock the wheels to prevent unexpected vehicle movement.

Step 5: Release the parking brakes.

Step 6: Make sure the Height Control Valve (HCV) has fully inflated the air bags. If needed, briefly dump the air from the suspension and allow the HCV to refill the system. (This may take several minutes depending on the type of HCV.)

Step 7: Pull the "push-pull" valve to switch the valve into the open position. (Fig. 4)

Step 8: Using a small flathead screwdriver, turn the calibration screw on the dial face until the gauge matches the certified scale weight. (Fig. 5)

Write the date and the certified scale weight in the calibration log. Calibration should be checked every 6 months. Your scale is now calibrated and ready to use!

Operating Instructions:

Step 1: Park on a level surface. Shift the transmission to neutral and set the parking brakes.

Step 2: Chock the wheels to prevent unexpected vehicle movement.

Step 3: Release the parking brakes.

Step 4: Make sure the Height Control Valves (HCV) have fully inflated the air bags. If needed, briefly dump the air from the suspension and allow the HCV's to refill the system. (This may take several minutes depending on the type of HCV.)

Step 5: Pull the "push-pull" valve to switch the valve into the open position. (Fig. 1)

Step 6: View the load scale gauge to determine the on-the-ground axle group weight.

Troubleshooting:

Erratic or inaccurate readings could result from the following:

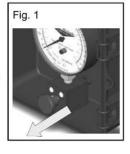
1) The vehicle is <u>NOT</u> parked on a level surface. Parking on a sloped or banked surface will cause the vehicle weight distribution to shift between the axle groups.

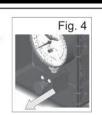
2) The vehicle's brakes are on. When the vehicle's brakes are set, they could potentially apply additional pressure or torque on the suspension air bags.

3) The vehicle is parked on an uneven or rough surface. If one or more of the vehicle's wheels are in a pothole, that could result in additional pressure or torque on the suspension air bags.

4) The height control valve (HCV) is malfunctioning and/or broken. To test for an HCV problem, follow steps 1 to 5 of the operating instructions (the trailer should be loaded). Write down the weight reading from the load scale. Then, drive the vehicle around the block and return to the same location. Follow steps 1 to 5 of the operating instructions again to get a second reading for the load scale. If the two readings are significantly different then the HCV might be malfunctioning and/or broken.

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip





Axle Load Scale

CALIBRATE

000 LBS



Fig. 5

54

DOLLY MANUAL

18.0 Right Weigh – Digital Bluetooth Load Scale

igh.

The 201-EBT-01(B) load scale must be calibrated both empty and loaded to work properly. The scale associates the air pressure in the suspension system to the weight you enter at the time of calibration. You will need to calibrate once while the vehicle is empty, and again while the vehicle is loaded for each axle group being monitored.

Calibration

 When entering the loaded weight value, be sure that your vehicle is as close to the maximum legal weight limit as possible.

1. Enter Empty Weight

Step 1: While your vehicle is empty, obtain a weight value for the specific axle group attached to the Right Weigh load scale using a certified ground scale.

Step 2: Park on a level surface. Shift the transmission to neutral and set the parking brakes. If you can stay on the ground scale, that is ideal.

Step 3 : Chock the wheels to prevent unexpected vehicle movement, then release the parking and service brakes.

Step 4: Make sure the height control valve (HCV) has fully inflated the air bags. If needed, briefly dump the air from the suspension and allow the HCV to refill the system. (This may take several minutes depending on the type of HCV.)

Step 5: Press the Obstrain button to turn on the Right Weigh load scale.

Step 6: Press and hold the output button for 3 seconds until "C/L" appears.

Step 7: Using the **U** and **a** arrow buttons, adjust the Right Weigh load scale until the weight displayed matches the certified weight from the ground scale.

Step 8: Press and hold the the button again for 3 seconds until "C/L" disappears.

Operating and Weighing Instructions

In order for the gauge to provide the most accurate weight values, you must take care to position the vehicle correctly. For best results, follow these steps:

Step 1: Park on a level surface. Shift the transmission to neutral and set the parking brakes.

Step 2: Chock the wheels to prevent unexpected vehicle movement, then release the parking and service brakes.

Step 3: Make sure the height control valve (HCV) has fully inflated the air bags. If needed, briefly dump the air from the suspension and allow the HCV to refill the system. (This may take several minutes depending on the type of HCV)

Step 4: Press the Obstrain button to turn on the Right Weigh load scale.

Step 5: Adjust the suspension or the load itself until the Right Weigh load scale displays a weight value below your legal limit.

Step 6: Press the Obstraction to turn off the Right Weigh load scale.

The display will turn itself off after 60 minutes.

To change the units from pounds to kilograms, hold 1, and press

10



Weigh the entire axle group being monitored. Do not use values such as gross weight, tare weight, or just one axle from a group of 2 or

more. 2. Enter Loaded Weight

Step 1: While your vehicle is fully loaded, obtain a weight value for the specific axle group attached to the Right Weigh load scale using a certified ground scale.

Step 2: Park on a level surface. Shift the transmission to neutral and set the parking brakes. If you can stay on the ground scale, that is ideal.

Step 3: Chock the wheels to prevent unexpected vehicle movement, then release the parking and service brakes.

Step 4: Make sure the height control valve (HCV) has fully inflated the air bags. If needed, briefly dump the air from the suspension and allow the HCV to refill the system. (This may take several minutes depending on the type of HCV.)

Step 5: Press the Object button to turn on the Right Weigh load scale.

Step 6: Press and hold the C button for 3 seconds until "C/H" appears.

Step 7: Using the that and arrow buttons, adjust the Right Weigh load scale until the weight displayed matches the certified weight from the ground scale.

Step 8: Press and hold the button again for 3 seconds until "C/H" disappears

Scale Operating Modes

9

The next few pages cover the operation modes that are built into the 201-EBT-01(B). The load scale can only be setup in one operating mode at a time. If the mode is changed, the calibration data will be reset to factory defaults, requiring re-calibration.

Average Mode (AVG): This is the default mode of the scale.

Estimated Steer Mode Average (S-AVG): For monitoring a drive axle group weight and also calculating an estimated steer axle weight based on the weight ratio between the drive axle group and the steer axle.

Multiple Calibration Mode (4CAL): Four sets of calibration data can be stored for use when the axle group is weighed under different conditions, such as when an integrated air ride lift axle is used on the same HCV.

Changing Scale Mode:

1: With the scale OFF, hold the mand up buttons, and press the man button. The scale will display the current mode.

2: Press the button to cycle through the configuration modes. To confirm your selection, turn the scale off by pressing the button.



11

Sales office 1898 lpswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

V Re and Law A

DOLLY MANUAL

Right Weigh – Digital Bluetooth Load Scale 18.0

SAVE

Multiple Calibration Mode (4Cal Mode) The 201-EBT-01(B) digital load scale can be used in a mode which stores 4 sets

of calibration data. This can be useful for an axle group which has an integrated air ride lift axle using the same HCV, or a suspension which has many operating conditions. Follow these steps to setup in this mode

Step 1: With the gauge OFF, hold the and U buttons, then press the 🕐 button



Step 2: Press the 🟠 button until "4CAL" is displayed. To save the new configuration, turn the scale off by pressing



Calibration

The calibration process is the same as Average mode, however, you now have the ability to change between the 4 calibration modes using the mouth button. When calibrating, make sure to calibrate both empty and loaded for each calibration set that you plan on using.

Operation

Use the not between the saved calibrations. A number will appear in the lower right letting you know which calibration set is active.



Overweight Warning

As an added visual warning, the display can be set to flash when above a set weight. For example, you may choose to have the display flash any time the weight on the axle group goes above 33,500 pounds.

Setting an Overweight Warning

Step 1: With the scale turned on, press and hold C and C. The C/H symbol will appe



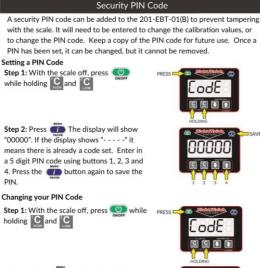
Step 2: The display will show the warning value. "O" is the default setting and the display will not flash the weight at any time if it is set to "0".

Step 3: Use the 🚺 and 🏠 arrow buttons to set the desired warning weight. Press and hold C and C to save.



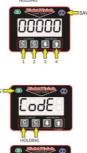
Setting the warning value to "0" will disable the overweight warning feature.

16



Step 2: Press is the display will show - -". Enter the previous PIN code. If the correct code was entered, The display will show "Good".

Step 3: Press and enter the new 5 digit PIN code using buttons 1, 2, 3, and 4. Press again to save the new PIN.





Right Weigh Load Scales App Overview

15

When connected with Bluetooth[®] wireless technology enabled Right Weigh load scales, axle group weight readings are displayed on the Right Weigh Load Scale App.

The basic steps to connect your Right Weigh load scale to your smart device are

- Discover the unique name of your load scale(s)
- Setup your load scales to the desired configuration
- Sync your load scale(s) with your smart device

1. Menu, Settings and Support: Use this button to view stored weight data, change the unit of measure (LBS or KG), set warning weight and overload weights, change or add weight data settings and to toggle the option to show the support page on app startup.

2. Scale Name (Truck): The name of the connected truck-mounted scale appears here. Tap the name to set a new name for the scale. The name you set will be saved to the scale itself and the scale will be identified by that name in the future when visible to a device.

3. Scale Name (Trailer): Names of connected trailer-mounted scales appear here. Tap the name to set a new name for the scale. The name you set will be saved to the scale itself and the scale will be identified by that name in the future when visible to a device.

4. Axle Group Name: This name represents the axle group which the scale is monitoring and reflects the operating mode of the scal

5. Share: This button will open the share data view to send weight data via email.

6. Total Weight: Shows vehicle's total weight

7. Signal Status: A blue icon represents that the device is connected to the scale and is receiving data. A grayed-out icon means the scale has been disconnected. Pressing the refresh button will attempt to reconnect the device to the scale

8. Add a Scale: Press the "+ Truck" button to add a truck mounted scale to the app. Press the "+ Trailer" button to add a trailer mounted scale to the app.

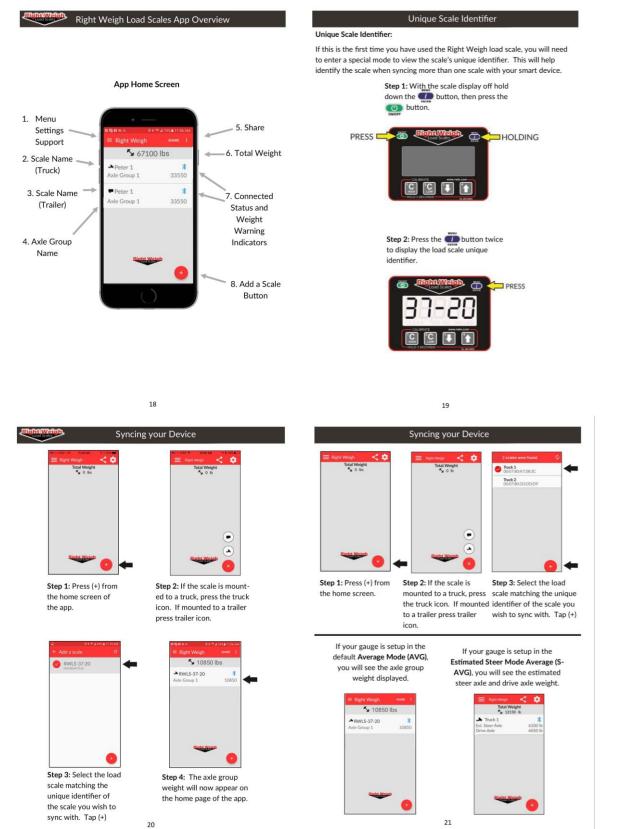
17

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

V Re and LAN

DOLLY MANUAL

18.0 Right Weigh – Digital Bluetooth Load Scale



Sales office 1898 lpswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

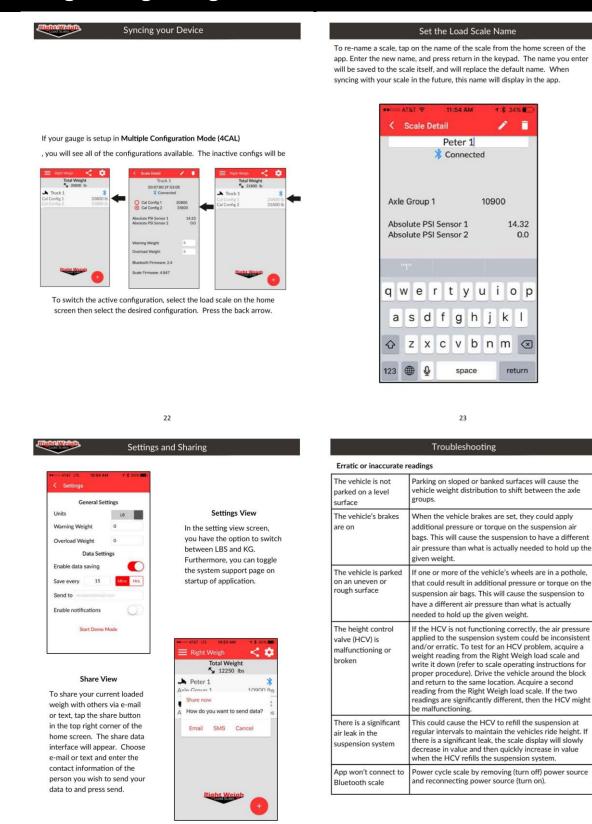
Page 92 of 94

**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_ROBUST SUSP V1

V R and L N

DOLLY MANUAL

18.0 Right Weigh – Digital Bluetooth Load Scale



Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip

25

All -

Page 93 of 94

24

DOLLY MANUAL

18.0 Right Weigh – Digital Bluetooth Load Scale

RightWalah	Troubleshooting	
Scale does not power	on:	
Scale is not connected to a switched power source of between 9 and 32 volts	If there is a bad connection in the circuit which causes voltage to drop below 9 volts, the scale will not power on. Test the power source with a voltmeter. Scale must be connected to a switched source to allow for occasional software reboot.	
Polarity is incorrect	The red wire must be connected to positive, and the black to negative.	
Scale Display is Blink	ing	
Current weight is above the alarm limit programed by the user	With scale on, press and hold the 1 & 2 buttons simultaneously. The display will show the alarm limit weight. To remove the alarm weight, set this number to 0 using the down arrow, and then hold 1 & 2 again until the display is cleared.	
Cannot Change Calib	ration Data	
The scale has an active user-defined security PIN.	If the scale is protected with a passcode, the PIN number must be entered before calibration data can be changed. The scale will display "CodE" and the previously set 5 digit PIN number must be entered to change the data.	
Scale will not Calibrat	e Low	
Air Pressure in system is not changing	 To enter C/L mode, the 201-EBT-01(B) load scale must see a measurable change in air pressure from when you calibrated high. Make sure you calibrate high while your trailer is near the legal limit, and cal low when the trailer is empty. Be sure the air line is connected to an air bag and not connected to the main air supply or air brake system. 	

26

Sales office 1898 Ipswich Rd, Rocklea QLD | sales@abstrailquip.com | 07 3274 6046 | abstrailquip.com | FB: @abstrailquip