CONVERTER DOLLY OPERATORS MANUAL

TQA SPRING SUSPENSION 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 CONTRO	DL
VERSION	DATE	UPDATE
VO	23/11/22	Document Control
V1	13/12/22	Front Cover

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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 Spring Suspension 400mm Ride Height;
- 50mm Bolt-on Tow Eye;
- Fifth Wheel Greaseless; and
- Ball Race.

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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.

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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.

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

AIR BRAKE SERVICES TRAILOUIP

- 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;

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- 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;

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- 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.

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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.

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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.

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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

Mech. Suspension Torque Setting: Description	ft-lbs	Nm
U-Bolt (M22x1.5)	370 - 405	500 - 550
Equalizer Bolt (M24x3) Poly or Rubber Bush	215 - 260	290 - 350
Torque Arm Nuts (M24x3) Poly Bush	180 - 200	240 - 270
Torque Arm Nuts (M24x3) Rubber Bush	110 - 150	150 - 200
ADJ. Torque Arm Clamp Nuts, (M12x1.75)	70 - 75	90 - 100

Auxiliary Parts Torque Setting: Description	ft-lbs	Nm
Drawbar Pivot Bolts (M24x3)	215 - 260	290 - 350
Bolt-On Tow Eye Locking Nut Socket P/N: TQA-TOOL001	370 - 740	500 - 1000

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4.2 **Quick Service Reference Guide**

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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

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- 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; &

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; &

· 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

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)

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

Laser wheel-alignment must be carried out & documented.

- Shock absorber bolt nuts (295-310ft-lb, 400-420Nm)
- Spring eye bolts Cast arm (535-555ft-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.

- · Thorough inspection of all suspension components. Repair & replace as required;
- Check suspension bushes for wear & excessive movement. Repair & replace as required;
- Check suspension hangers for wear & damage. Repair & replace as
- required:
- · Check shock absorbers & shock absorber bushes for leaks, wear &

- 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.

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

Every 100.000km or Yearly:

- Check trailing arms for wear & damage. Repair & replace as required;
- required;
- · Check suspension air bags for leaks & wear. Repair & replace as
- excessive movement. Repair & replace as required; &
- · Check axle alignment & adjust as required.



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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 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.

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5.0 TP / Parallel Bearing TQA Trailquip Axle

5.2 Wheel Bearing Adjustments

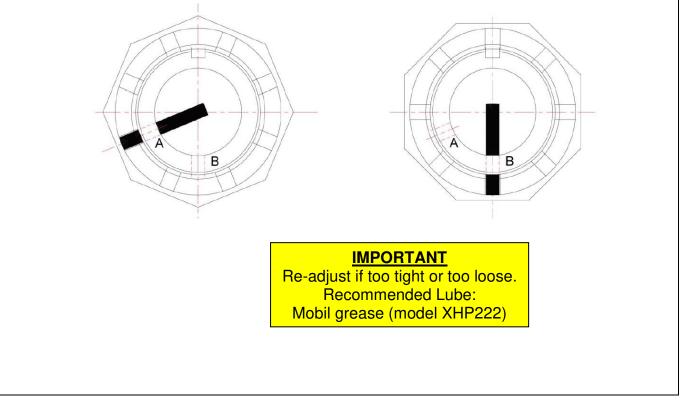
All axles are recommended to have the wheel bearings adjusted after the first 5,000km and then inspected at 25,000km and 100,000km intervals as per the **Recommended Service Intervals**. Depending on the axle service application, shorter service intervals may be required to maintain the axle in working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



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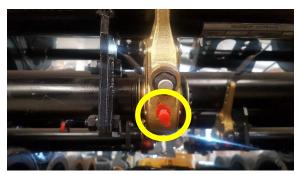
5.0 TP / Parallel Bearing TQA Trailquip Axle

5.3 Axle Component Lubrication

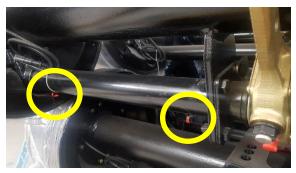
When installing a new axle, ensure all grease channels are filled with grease.

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

Lubricating the Slack Adjusters, Camshaft Tubes and Camshaft Bushes



Slack adjuster grease points



Camshaft tube grease points



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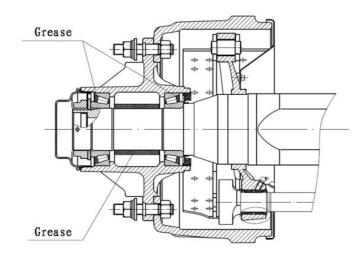


5.0 TP / Parallel Bearing TQA Trailquip Axle

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

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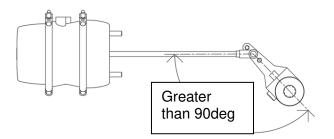
5.0 TP / Parallel Bearing TQA Trailquip Axle

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

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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:

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.



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 position" for all installations-all the way towards the axle, until the control arm comes to the end of the slotted bracket.



After positioning control arm and

tighten the flange nut to 40-50 ft.

anchor pin to desired location,

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.

The adjuster must be manually

adjusting hex clockwise until the

lining lightly contacts the drum.

adjusted at this time. Adjust

brakes by rotating the 7/16'

These common positions work well for most

applications. STEP 9:

STEP 8

INAS

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 3:

Secure adjuster to shaft with snap ring. Install enough washers to reduce end play to less than .060"





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.





STEP 10: 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

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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

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6.0 TQA Spring Suspension 400mm Ride Height

6.1 Recommended Service Intervals

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

• Check torque settings on all suspension fasteners and re-torque.

Every 10,000km:

- Check torque settings on all suspension fasteners;
- Conduct visual inspection of suspension components, including suspension bushes, U-bolts, leaf springs for wear, damage and cracking. Repair and replace as required.

Every 50,000km or Annually:

- Check torque settings on all suspension fasteners;
- 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 axle alignment and adjust as required.

Important Notes:

Depending on the suspension service application, shorter service intervals may be required to maintain trailer suspension in working order. In extreme or off-highway 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.

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6.0 TQA Spring Suspension 400mm Ride Height

6.2 Replacing / Servicing Torque Arms & Torque Arm Bushes:

When servicing or replacing worn suspension components it may be necessary to remove the fixed/adjustable torque rod arms.

- 1. Fit the end of the torque rod arm into the suspension hanger or spring axle plate;
- 2. Lubricate the tapered torque arm bushes with soapy water (50% water : 50% Soap) and insert from either side;
- 3. Fit the torque arm bolt through the bushes;
- 4. Fit the torque arm washer and lock nut onto the end of the torque arm bolt;
- 5. Check that the torque arms are located centrally in the end of the hanger and spring axle plate;
- 6. Tighten the nut to the specified torque setting; and
- 7. Perform a visual inspection to ensure the components are correctly installed.

6.3 Replacing / Servicing Equaliser & Equaliser Bushes:

- 1. Fit the equaliser hanger into the suspension hanger;
- Using a soapy water solution (50% water : 50% Soap), lubricate the bush and insert a bush into each end;
- 3. Install the equaliser bolt through the hanger and equaliser assembly;
- 4. Fit the washer and locknut to the end;
- 5. Ensure the equaliser casting is centrally located and then tighten the equaliser nut to the specified torque setting; and
- 6. Perform a visual inspection to ensure the components are correctly installed.

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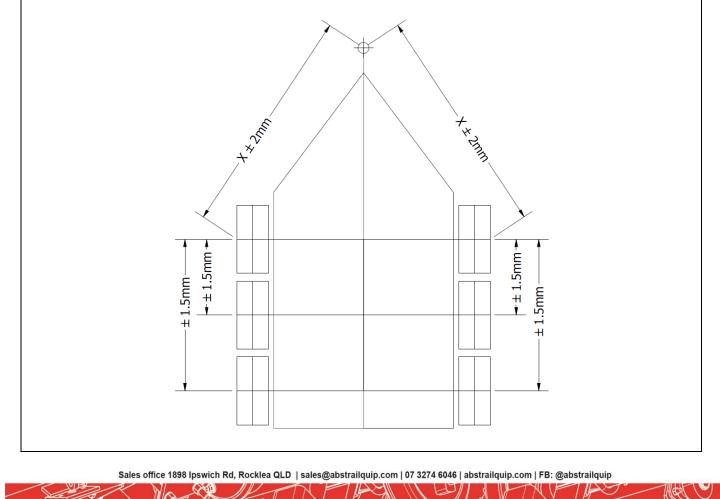
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6.0 TQA Spring Suspension 400mm Ride Height

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. To start the axle alignment procedure, release the trailer brakes and roll the trailer forward to undo any binding of the brakes. The ground must be level and smooth.
- 2. Use of axle extensions and a kingpin post or a laser alignment device is recommended.
- 3. First align the front axle to the kingpin by lengthening or shortening the adjustable torque arm. When the axles are aligned to +/- 2mm, tighten the torque arm clamp nuts on the front axle.
- 4. Next, align each axle to the front axle to within +/- 1.5mm. Once these are aligned tighten the adjustable torque arm clamp nuts on these axles.
- **5.** After the first 1500km of loaded use of the trailer the alignment should be rechecked and corrected if necessary.
- 6. Whenever possible, carry out axle alignment with a wheel alignment laser or optical aligning device for accurate measurements.

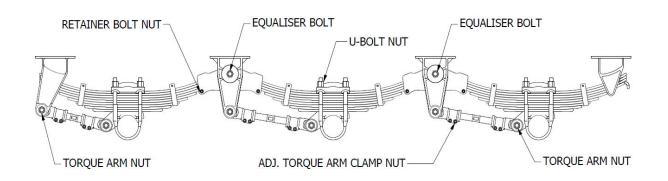


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6.0 TQA Spring Suspension 400mm Ride Height

6.5 Mechanical Spring Suspension Drawing



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6.6 Torque Settings Table

Description	ft-lbs	Nm
U-Bolt (M22x1.5)	370 - 405	500 - 550
Equalizer Bolt (M24x3) Poly or Rubber Bush	215 - 260	290 - 350
Torque Arm Nuts (M24x3) Poly Bush	180 - 200	240 - 270
Torque Arm Nuts (M24x3) Rubber Bush	110 - 150	150 - 200
ADJ. Torque Arm Clamp Nuts, (M12x1.75)	70 - 75	90 - 100

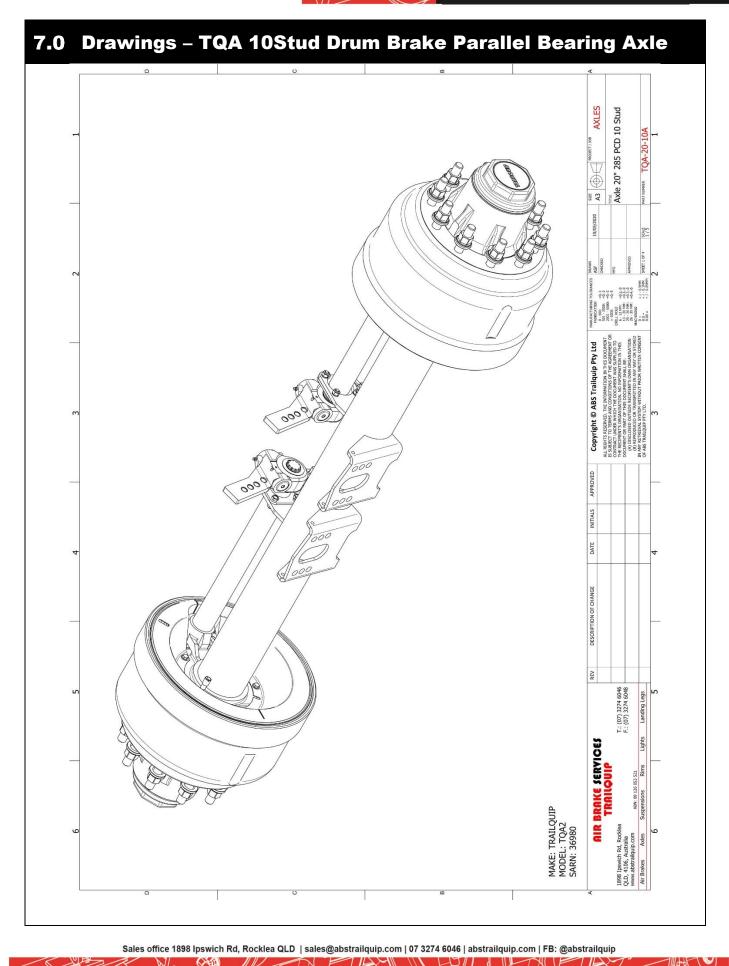
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1		DESCRIPTION	ack Aujuster - HUX Type 10-5pillite - 7110 ABS Sensor Right Angle 1 mtr	ABS Sensor Clamping Retainer Bush	Hub 20in 10 Stud 285 PCD	Brake Drum 20" 10 Stud 285PCD	Oil Grease Seal Parallel Axle	20" Propar Axle with Brake Spiders	Flanges Wheel Nut Suit 10-Ton Axle	Wheel Stud Long 20" Axle	Dust Cover Suit 20" 10-Stud Axle	Bearing - Parallel Suit TQA Axle HM518445/10 S-Cam 41 6mm TD (Ourt Side) (Part of TOA-ASP144 Kit)	Washer S-Cam 41.6mm ID (In Side) (Part of TQA-ASP144 Kit)	S-Cam Bush Retaining Circlip (Part of TQA-ASP144 Kit) Slack Adiustor Circlin (Past of TOA-ASD144 Kit)	Camshaft 20in Propar 10-Spline LHS	Camshaft 20in Propar 10-Spline RHS	S-Cam_Roller (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 TQA-ASP068 Kit)	M6 Grease Nipple (Part of TQA-ASP144 Kit) Camshaft Tube	Camshaft Tube Bush (Part of TQA-ASP144 Kit)	Washer S-cam Tub (Part of TQA-ASP144 Kit)	Washer S-Cam 38.5mm ID (Part of TQA-ASP144 Kit) 20in Brake Shoe (Part of TOA-ASP068 Kit)	Heavy Spring Pin (Part of TQA-ASP068 Kit)	S-Cam Roller Retainer (Part of TQA-ASP068 Kit)	S-Cam Roller Retainer Nut (Part of TQA-ASP008 Nit) S-Cam Roller Retainer Spring (Part of TQA-ASP068 Kit)	S-Cam Roller Retainer Bolt (Part of TQA-ASP068 Kit)	Spindle Lock Nut (Part of TQA-ASP143 Kit)	Thrust Washer (Part of TQA-ASP143 Kit) Spindle Split Pin (Part of TOA-ASP143 Kit)	ABS Sensor Bracket	Hub Cap O-Ring	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)	ASB Pole King 165-Mount Hub Cap Scew Propar Style		Axle 20" 285 PCD 10 Stud	PART NUMBER TQA-20-10A
7	PARTS LIST	Automatic Clack	Automatic Jiack /	ABS Ser	Hut	Brake	OIIO	20" Pro	Flanges	Wh	Dust C	Washer S-Cam 41.6m	Washer S-Cam 41.6n	S-Cam Bush Reta	Camshar Camshar	Camshat	S-Cam_R(Heavy Duty Ret	Brake Shoe An	Anchor Pin	M6 Grease	Camshaft Tut	Washer S-ca	Washer S-Cam 3 20in Brake	Heavy Sprir	S-Cam Roller	S-Cam Roller Ret	S-Cam Roller Re	Spindle Loc	Spindle Spi		T the Construction of the C	S-Cam Grase Seal 2-3	S-Cam Bush	AS	рядии ASF 15/05/2020 Фнескер	MFG APPROVED	SHEET 2 OF 4 SCALE 1/15
	- 10	PART NUMBER	FA4410328090	EA8997605104	TOA00008/1	TOA00009/1	TQA00010	TQA-20-BA-5	TQA00042	TQA-ASP003	TQA-ASP009	TOA-ASP017	TQA-ASP030	TQA-ASP033 TOA-ASP042	TQA-ASP047	TQA-ASP048	TQA-ASP050	TQA-ASP053	TQA-ASP059	TQA-ASP060	TQA-ASP061 TOA-ASP062	TQA-ASP063	TQA-ASP064	TQA-ASP066 TOA-ASP068-01	TQA-ASP068-09	TQA-ASP068-10	TQA-ASP068-11 TQA-ASP068-12	TQA-ASP068-13	TQA-ASP072	TQA-ASP073 TOA-ASP074	TQA-ASP115	TQA-ASP138	TQA-ASP144-01	TQA-ASP144-02	TQA-HC01-SILVER		> 5000 - 2000 > 5000: > 5000: 5 - 12 MM: 20 - 26 MM: 20 - 26 MM: 26 - 39 MM: 26 - 39 MM: 26 - 39 MM:	
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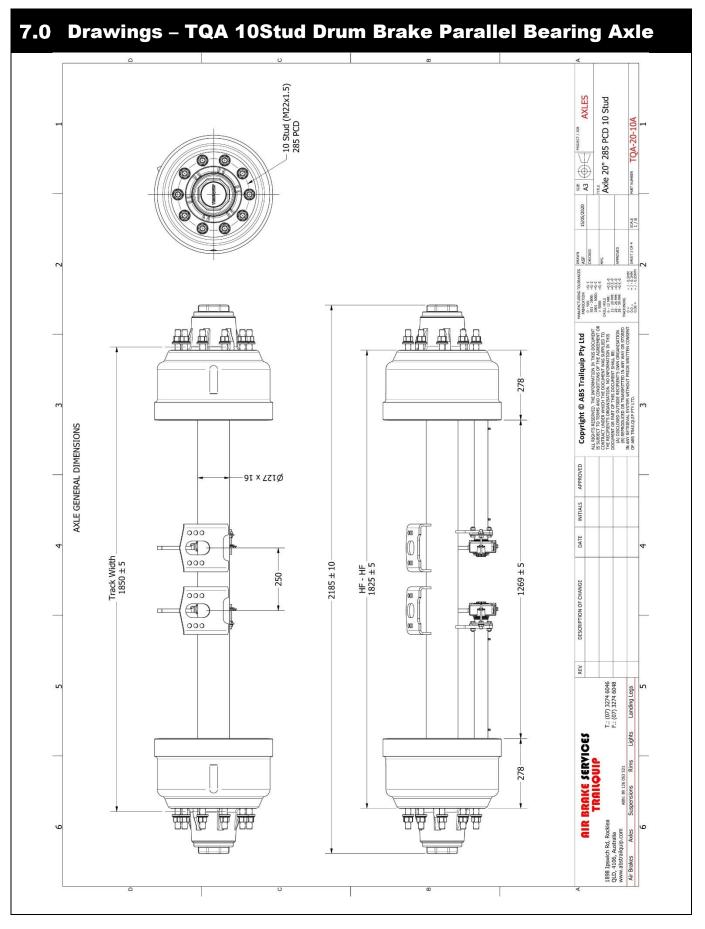
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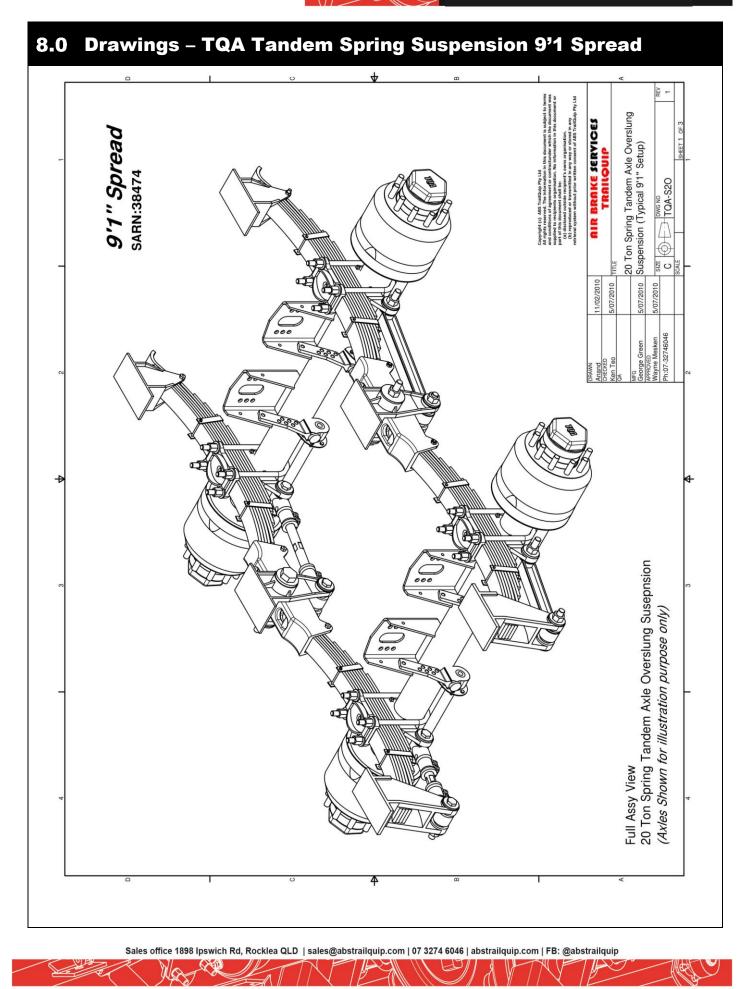


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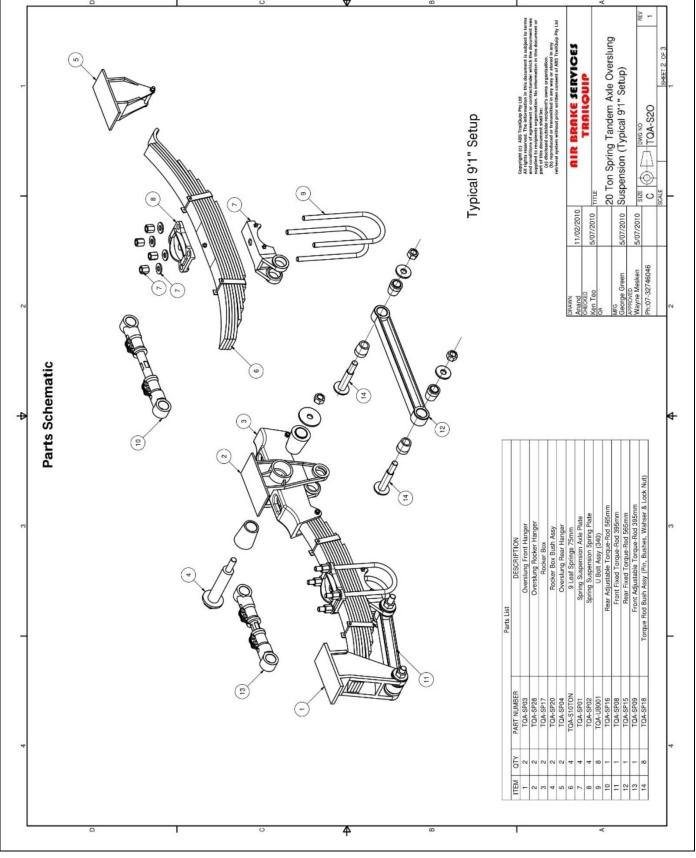
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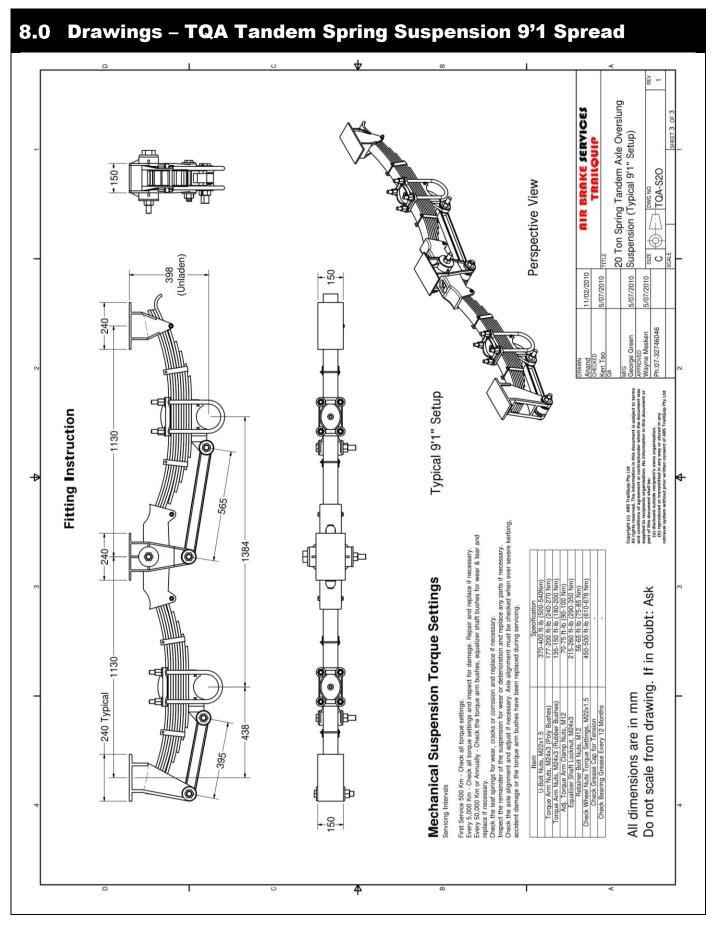




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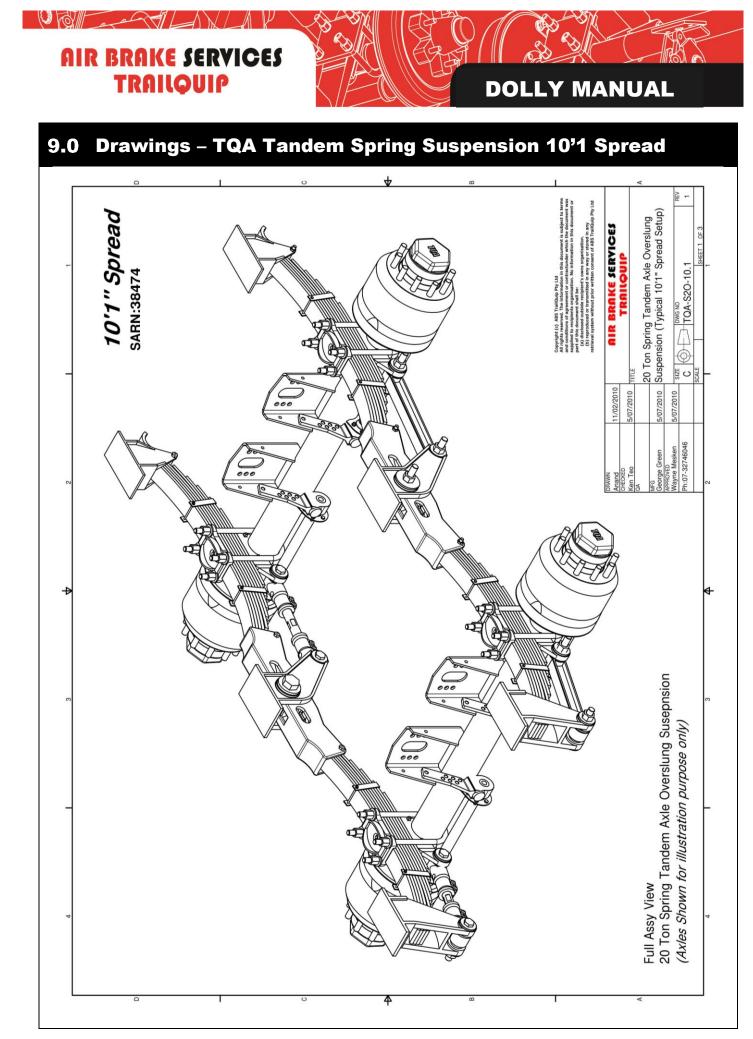
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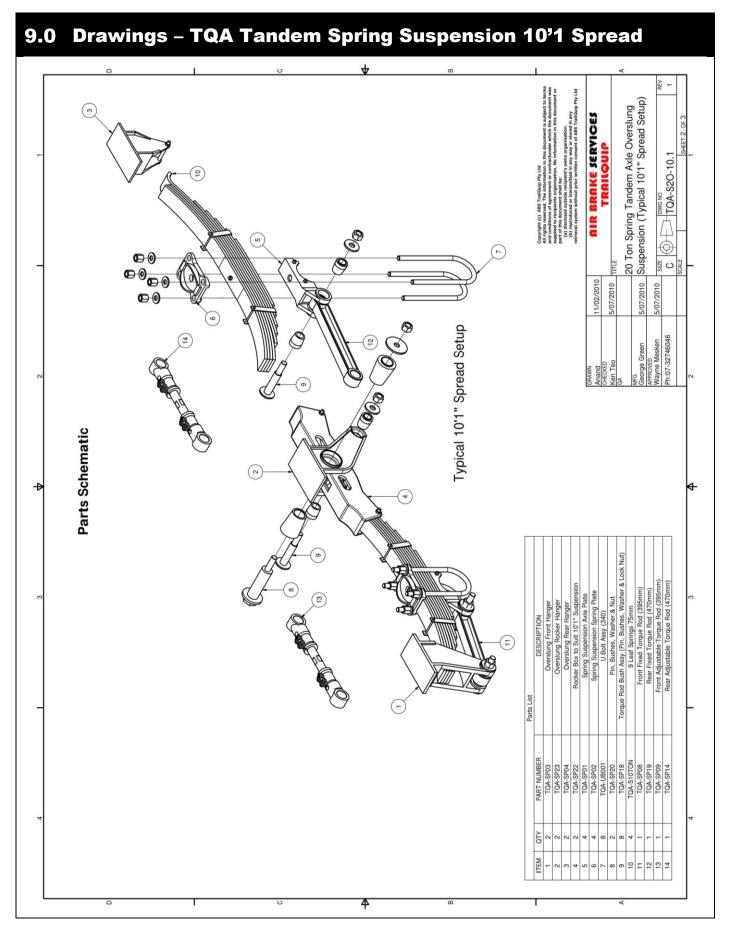


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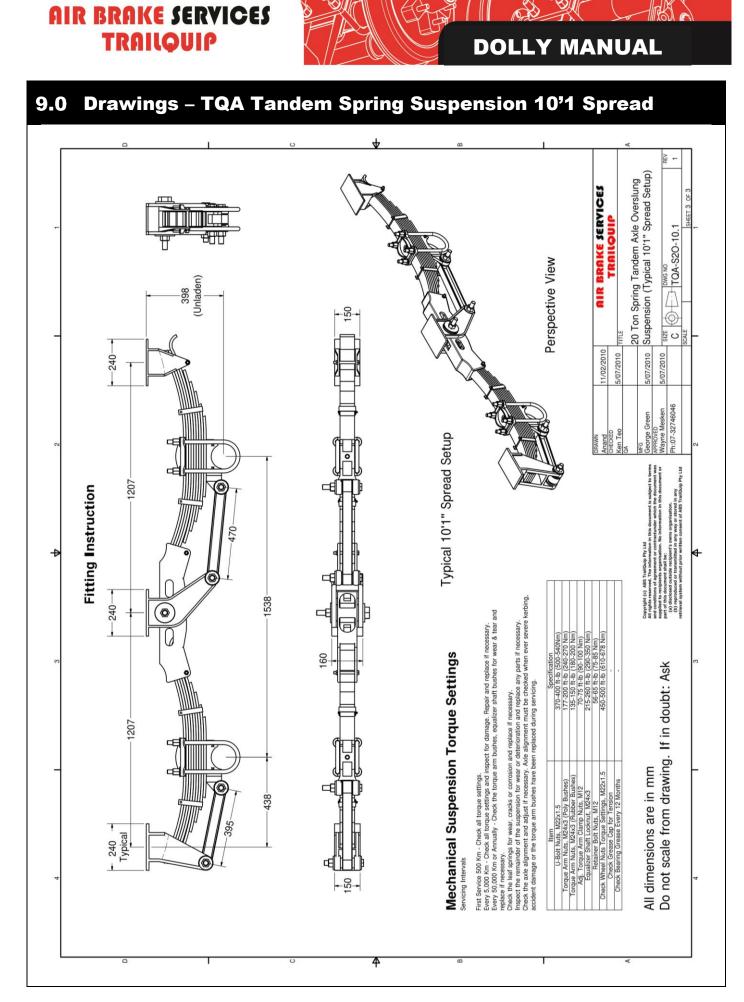


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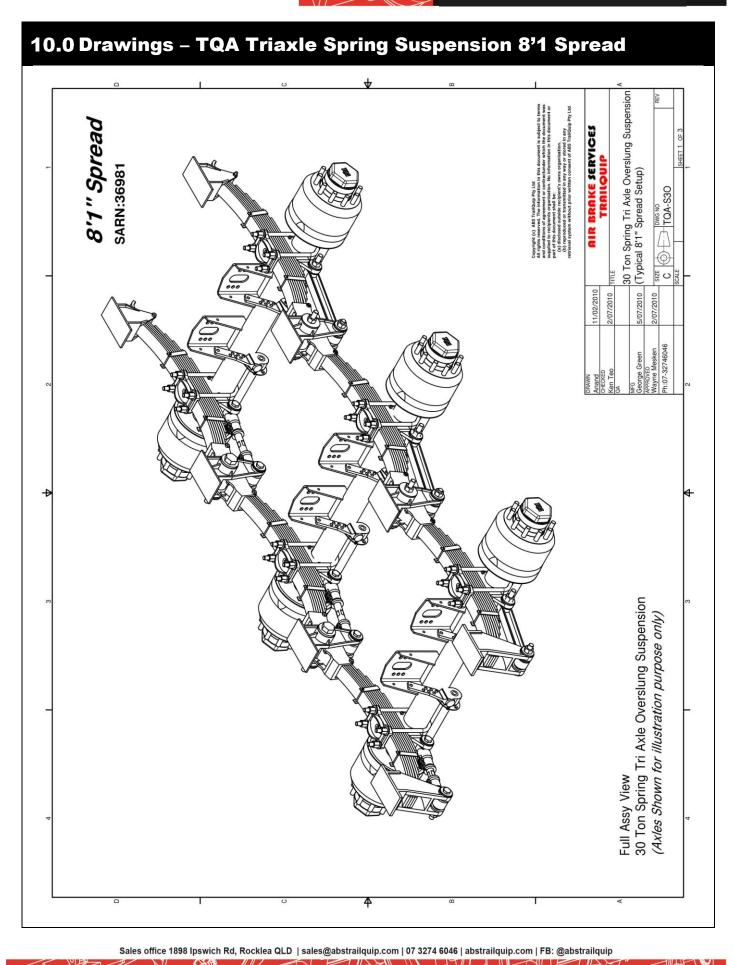


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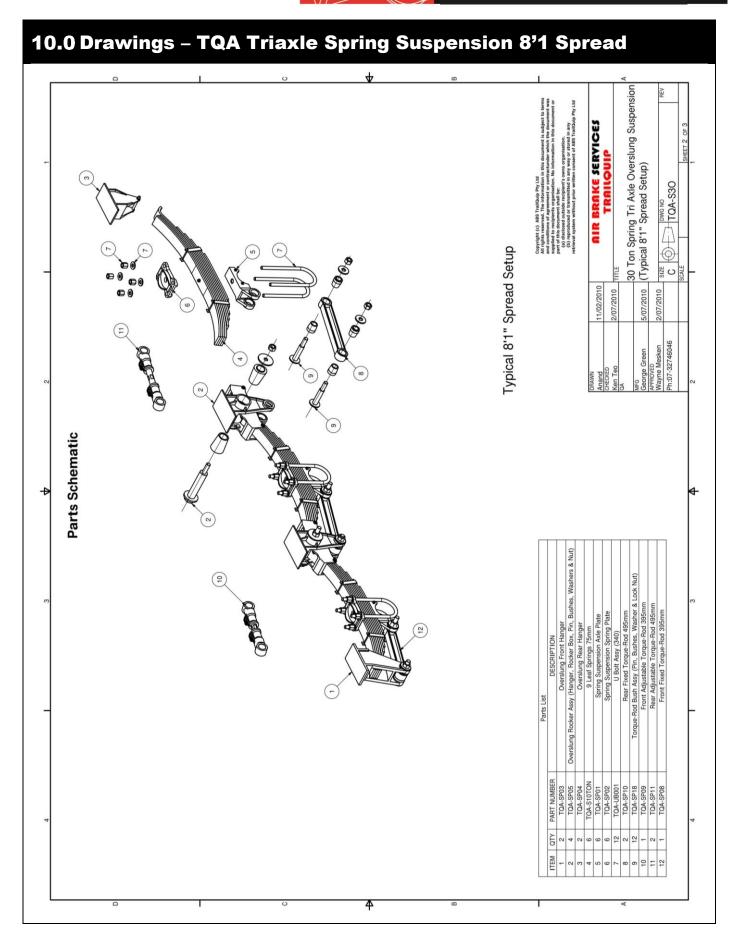
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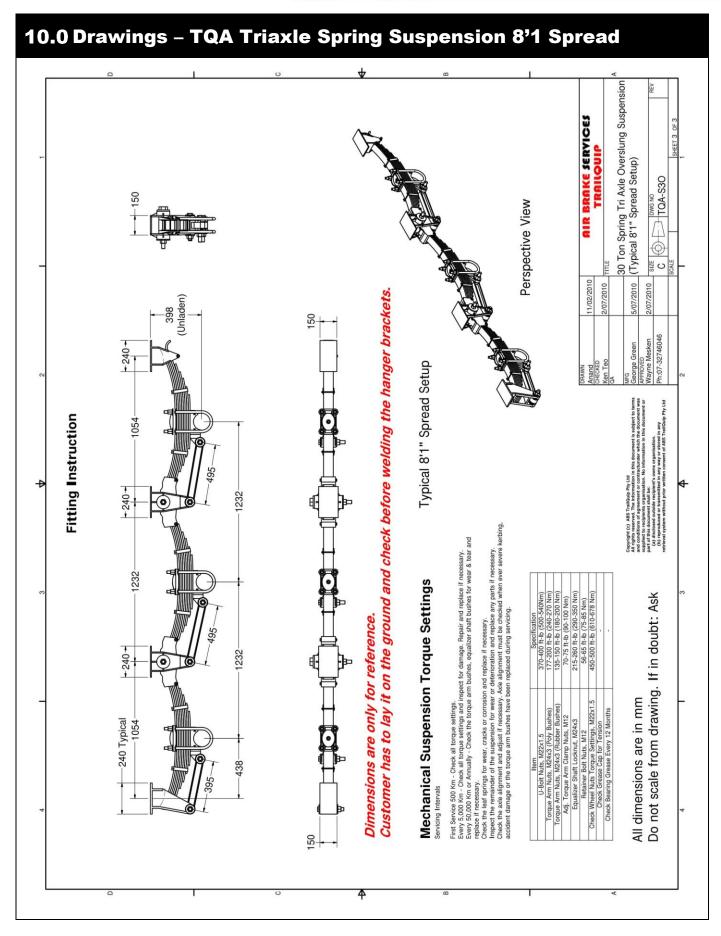


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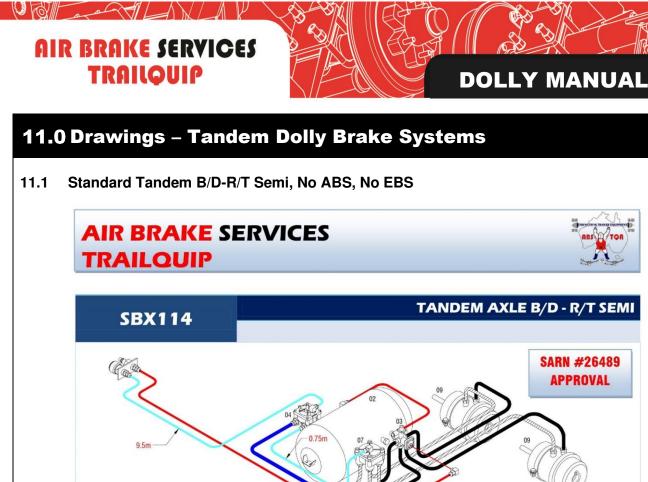


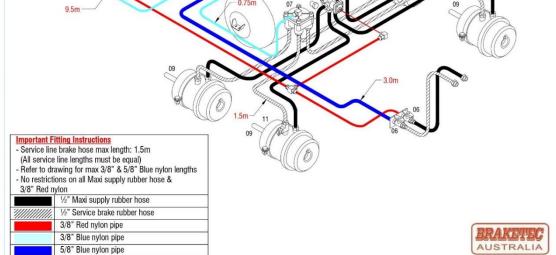
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No.	PART NO.	DESCRIPTION	QTY	No.	PART NO.	DESCRIPTION	QTY
02	Jumbo	60LT RESERVOIR	1		73325-12-85	3/4" x 1/2" NIPPLE STEEL	2
03	AA3802	SR38 SPRING BRAKE CONTROL	1		73220-12-6	3/4" x 3/8" REDUCING BUSH	1
04	AA065476	R12P PILOT RELAY VALVE	1		125-8-6	1/2" x 3/8" HOSE BARB MALE	12
06	23-FMT08	1/2" MALE x FEMALE BALL VALVE	2		125-8-8	1/2" x 1/2" HOSE BARB MALE	4
07	AA102626	R12 RELAY VALVE	1		12250	1/2" RUBBER HOSE	10
	968-6PXDOT	3/8" x 1/4" MALE CONNECTOR	1		6-500BU	3/8" BLUE NYLON	10
	968-6-6PXDOT	3/8" x 3/8" MALE CONNECTOR	1		6-500RD	3/8" RED NYLON	10
	968-6-8PXDOT	3/8" x 1/2" MALE CONNECTOR	3		10-250BU	5/8" BLUE NYLON	5
	968-10PXDOT	5/8" x 1/2" MALE CONNECTOR P/IN	1		41-022	HOSE CLAMPS	16
	968-10-6PXDOT	5/8" x 3/8" MALE CONNECTOR	1		145	1/4" AIR TANK DRAIN COCK	1
	964-6PXDOT	3/8" UNION TEE P/IN	1	11	PWM2076	3/8" TEST POINT	1
	969-6PXDOT	3/8" x 1/4" BSP MALE ELBOW	3		33-A420	1/2" MOUNTING BRACKET	2
	969-6-6PXDOT	3/8" x 3/8" MALE ELBOW	1		CA93-20	1/2" MALE ADAPTER	2
	73750-6	3/8" STREET TEE	1		CA93-85	1/2" MALE COUPLING	2
	73152-6	3/8" PLUG	2		220TMP	MOUNTING TANK PAD	2
	73152-8	1/2" PLUG	3	09	SB30/30	SPRING BRAKES	4

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.

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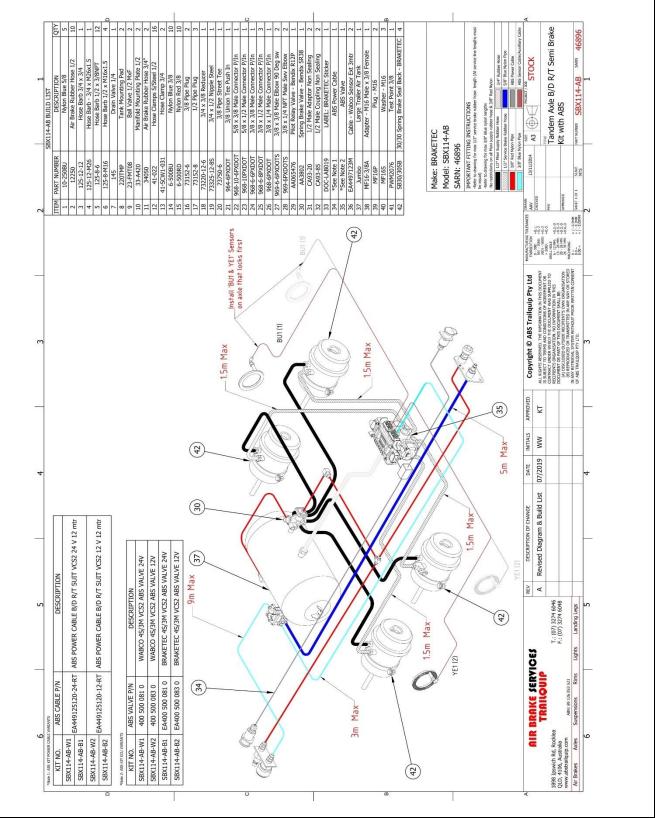


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11.0 Drawings – Tandem Dolly Brake Systems

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



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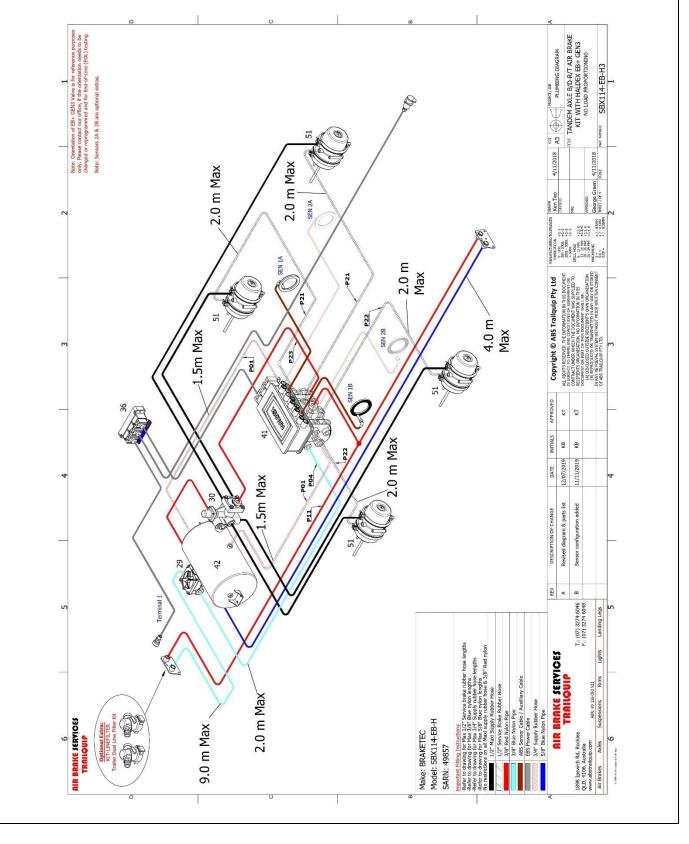
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11.3 Tandem B/D-R/T Semi with Haldex EB+ GEN3



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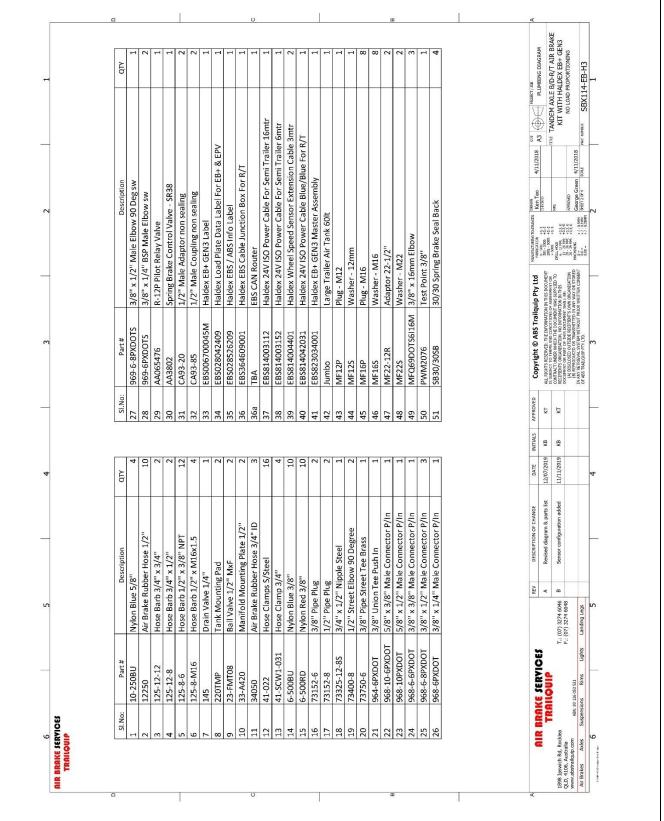
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11.0 Drawings – Tandem Dolly Brake Systems

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



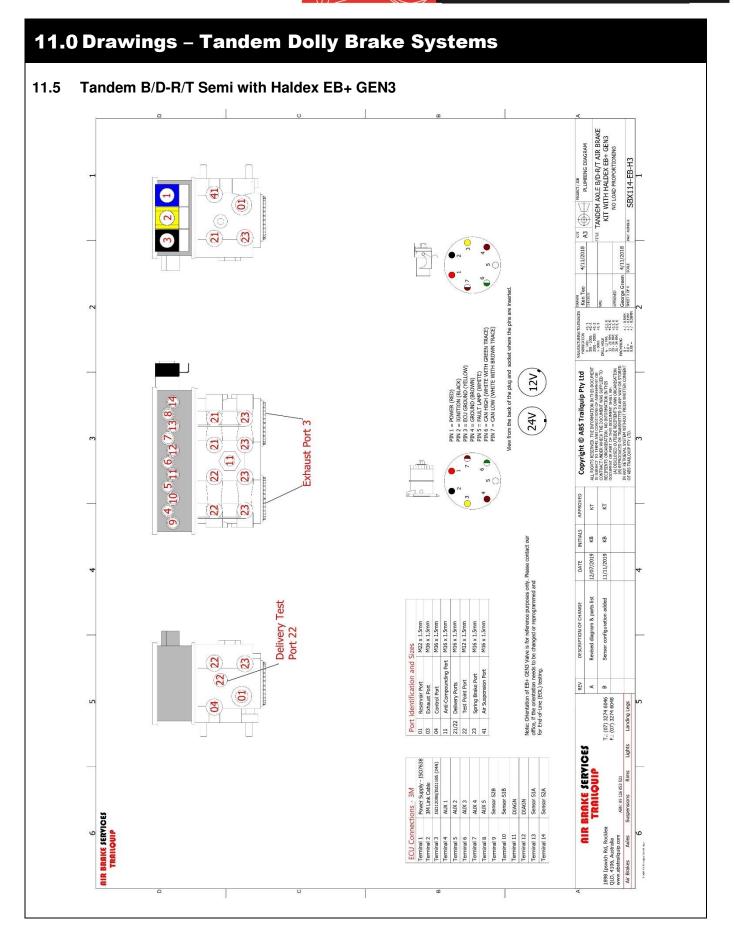
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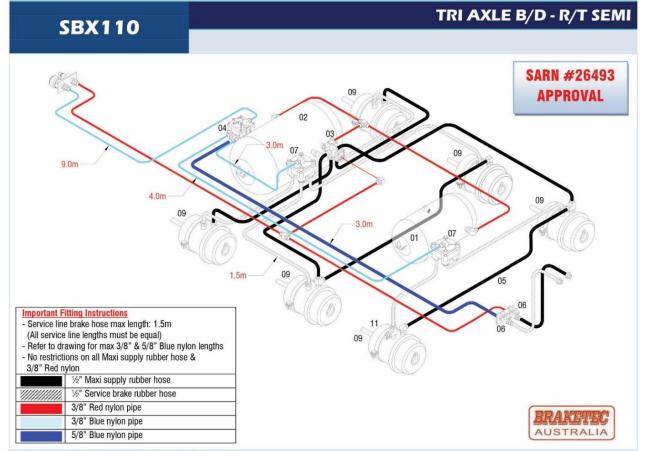
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12.0 Drawings – Tri Axle Dolly Brake Systems

12.1 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.

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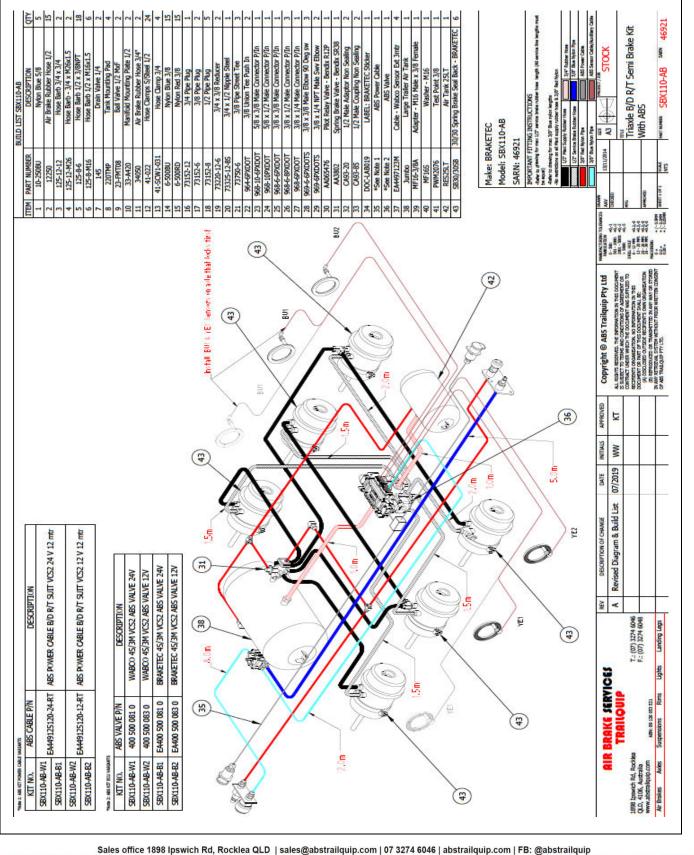
**ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_Spring_Suspension V1

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DOLLY MANUAL

12.0 Drawings – Tri Axle Dolly Brake Systems

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



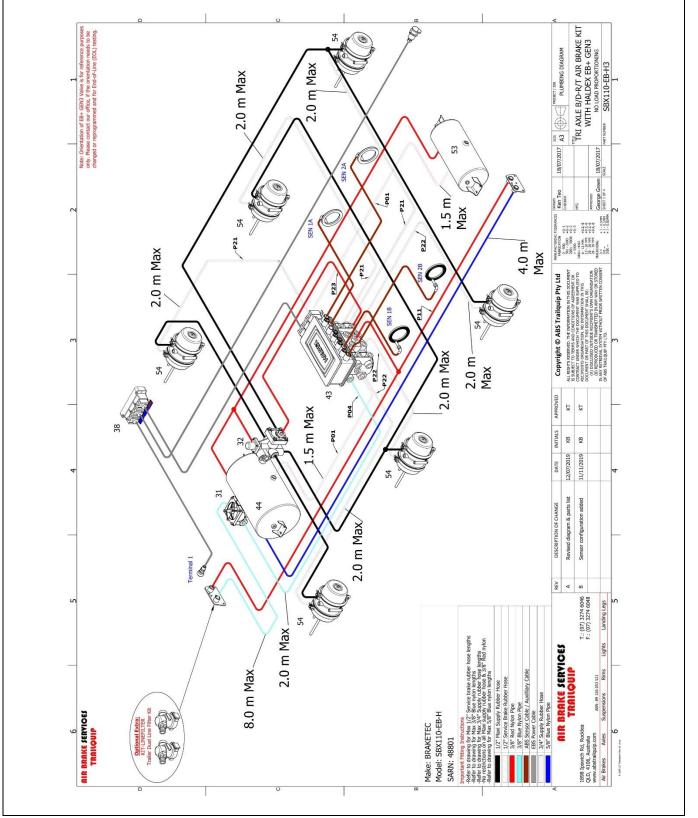
***ABS Trailquip reserves the right to alter specifications without notice 8.1.0 ABS Trailquip - Converter Dolly Operating Manual and Warranty_Spring_Suspension V1

and the

DOLLY MANUAL

12.0 Drawings – Tri Axle Dolly Brake Systems

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



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DOLLY MANUAL

12.0 Drawings – Tri Axle Dolly Brake Systems

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

Part # Description OTV Part # Description OTV 550BU Ntylon Blue 5/8" Bes. 6PXDOTS 550BU Air Brake Rubber Hose 1/2" 15 50BU Air Brake Rubber Hose 1/2" 15 50BU Air Brake Rubber Hose 1/2" 15 50BU Air Brake Rubber Hose 1/2" 15 12.12 Hose Barb 3/4" x 1/2 29 8-M16 Hose Barb 3/4" x 1/2 29 8-M105 Mantfold Mounting Pade 2 8-M105 Mantfold Mounting Pade 2 9-05 Mantfold Mounting Pade 2 9-05 Air Brake Rubber Hose 3/4" ID 3 <td< th=""><th>mer Description Other mer beneficien OT mer beneficien OT</th><th>IR BRAU</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	mer Description Other mer beneficien OT	IR BRAU												
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125-8-M16Hose Barb $1/2^*$ M16A.1.5633CA93-36 $1/2^*$ Male Coupling non sealing145Drain Valve $1/4^*$ 222000Tark Mounting Pad3CA93-35 $1/2^*$ Male Coupling non sealing231Ball Valve $1/2^*$ M16A2232-FMIO8Ball Valve $1/2^*$ M16A233-AZOManifold Mounting Pad3232-FMIO8Ball Valve $1/2^*$ M51233-AZOManifold Mounting Pad324050Air Back Rubber Hose $3/4^*$ D333-AZOHaldek EBS / ABS Info Label1434050Haldek EBS / ABS Info Label1441-SCN1-031Hose Clamp $3/4^*$ 342-SCN1-031Hose Clamp $3/4^*$ 146-5008UNylon Bue $3/8^*$ 136-5008UNylon Bue $3/8^*$ 146-5008UNylon Bue $3/8^*$ 146-5008U12/2* Nater Arrank Onti7315-653/8* Pre Plug17315-263/8* Pre Plug17315-263/8* Pre Plug17315-263/8* Nater Clamp on Cable For Semi Trailer fintr7315-263/8* Pre Plug17315-263/8* Nater Clamp on Cable for Semi Trailer fintr7315-263/8* Pre Plug17315-263/8* Nater Clamp on Cable for Semi Trailer fintr7315-263/8* Pre Plug17315-263/8* Nater Clamp on Cable for Semi Trailer fintr7315-263/8* Nater Clamp on Cable for Semi Trailer fintr7315-263/8* Nater Clamp on Cable f	125 8-M16 Hose Barb 1/2* M16AL.5 6 33 Cv3-30 1/2* Male Adaptor non sealing 1/2* Male Adaptor non sealing 1/2* 145 Tenti Value 1/4* 4 23 EBS05700045/M 1/2* Male coulding mon sealing 1/2* 20700 Tenti Value 1/2* Marifold Mounting Plate 1/2* 2 EBS0280045/M Haldee KBS 1 ABS 1 Indee K	S	125-8-6	Hose Barb 1/2";	x 3/8" NPT	18	32		A3802	Spring Brake	Control Valve - SR38			
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20TMPTark Mounting Pad43EBS06700045MHaldex EB+ GFN3 Label4 23 -FMT08Ball Valve J/2" MkF2 $33-A20$ Manifold Mounting Pitat J/2"2 $33-A20$ Manifold Mounting Pitat J/2"2 $33-A20$ Manifold Mounting Pitat J/2"2 $34-20$ Manifold Mounting Pitat J/2"2 $345-600$ Haldex EBS Call Nouter1 $41-022$ Hose Clamps S/Steel24 $41-022$ Hose Clamps S/Steel24 $41-022$ Hose Clamps S/Steel24 $41-022$ Hose Clamps S/Steel24 $41-022$ Nyon Rel 3/8"1 $41-022$ Nyon Rel 3/8"1 $41-022$ Hose Clamps S/Steel24 $41-022$ Nyon Rel 3/8"1 $41-022$ Steer Clamps S/Steel1 $41-022$ Nyon Rel 3/8"1 $41-022$ Nyon Rel 2/8"1 50000 Nyon Rel 2/8"1 $5125-12$ 3/4" Pipe Plug1 $73152-65$ 3/4" Pipe Plug1 $73152-65$ 3/4" Pipe Plug1 $73152-65$ 3/4" Niple Steel1 $73252-65$ 3/4" Niple Steel1 $73250-66$ 3/4" Niple Steel1 $73250-66$ 3/4" Niple Steel1<	220TMp Tank Mounting Pad 4 23-FMT06 Tank Mounting Pate 1/2** 2 34500 Alti Pade Rubber Hose 3/4*10 2 34050 Alti Pade Rubber Hose 3/4*10 2 341-022 Hose Clamps S/Steel 24 41-022 Hose Clamp 3/4* 4 6500R0 Nyon Red 3/8* 12 73152-12 3/4** Tope Plug 1 73152-12 3/4** S/Steel Ross 1	1	145	Drain Valve 1/4"		2	34		A93-85	1/2" Male Co	upling non sealing		2	
23-FMT08Ball Value 1/2" MAF223-FMT08Ball Value 1/2" MAF233-A200Manifold Mounting Plate 1/2"233-A200An Flack Rubber Hose 3/4" ID334-D50An Flack Rubber Hose 3/4" ID334-D50An Flack Rubber Hose 3/4" ID341-5CW1-031Hose Clamps 3/4"441-5CW1-031Hose Clamps 3/4"441-5CW1-031Hose Clamps 3/4"46-500BUNylon Blue 3/8"1581-500BUNylon Blue 3/8"173125-103/4" Flop Plug173125-123/4" Flop Plug173125-123/4" Flop Plug173125-123/4" Flop Plug173125-123/4" Si Flop Plug17315-163/4" Si Flop Plug17315-163/4" Si Flop Plug17315-163/4" Si Flop Plug17315-17	23-FMT08 Bail Valve 1/2* Mrf 23 33-A4200 Manfold Mounting Plate 1/2* 2 33-A4200 Manfold Mounting Plate 1/2* 2 33-A4200 Manfold Mounting Plate 1/2* 2 33-A420 Hoake EBN ABS / MS Info Label 2 41-022 Hose Clamps 5/Stell 24 41-021 Hose Clamp 3/4** 24 41-022 Hose Clamp 3/4** 24 41-022 Hose Clamp 3/4** 24 6-500BU Nylon Blue 3/8** 1 73152-12 3/4** Pipe Plug 1 73152-13 3/4** Pipe Plug 1 73152-14 3/8** NF 1 73152-15 3/4** 1/1** Niple Flug 1 73152-15 3/4** 1/1** Niple Flug 1 73152-15 3/4** 1/1** Niple Flug 1 73152-16 3/4** 1/1** Niple Flug 1 <	∞	220TMP	Tank Mounting F	ad	4	35		BS006700045M	Haldex EB+ G	EN3 Label			H
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41-022Hose Clamps S/steel2441-022Hose Clamps S/steel2441-5CW1-031Hose Clamp 3/4"441-5CW1-031Hose Clamp 3/4"46-500BUNylon Bue 3/8"156-500BUNylon Bue 3/8"156-500BUNylon Red 3/8"156-500BUNylon Red 3/8"1573152-12 $3/4$ " Pipe Plug173152-6 $3/4$ " S/8" Pipe Plug173152-8 $3/4$ " X 3/8" Reducer273152-8 $3/4$ " X 3/8" Reducer273152-8 $3/4$ " X 1/2" Nipple Steel173152-12-65 $3/4$ " X 3/8" Reducer273152-6 $3/4$ " X 1/2" Nipple Steel173252-12-65 $3/4$ " X 1/2" Nipple Steel173152-6 $3/4$ " X 1/2" Nipple Steel173252-12-65 $3/4$ " X 1/2" Nipple Steel173152-6 $3/4$ " X 1/2" Nipple Steel173250-12-6 $3/4$ " X 1/2" Nipple Steel173250-12-65 $3/4$ " X 1/2" Nipple Steel173250-12-65 $3/4$ " X 1/2" Nipple Steel173260-6 $3/8$ " Nipe Street Tee Brass473260-6 $3/8$ " Nipe Street Tee Brass473260-7 $3/8$ " Nipe Street Tee Brass473260-7 $3/8$ " Nipe Street Tee Brass473260-7 $3/8$ " Nibe Connector P/In1968-10FXD0T $5/8$ " X 1/2" Male Connector P/In1968-6FXD0T $5/8$ " X 1/2" Male Connector P/In1968-6FXD0T $3/8$ " X 1/2" Male Connector	41-022 Hose Clamps //steel 24 41-022 Hose Clamps //steel 24 41-5CW1-031 Hose Clamps //steel 24 41-5CW1-031 Hose Clamp 3/4" 4 6-50060 Nylon Red 3/9" 15 6-50070 Nylon Red 3/9" 15 6-50080 Nylon Red 3/9" 16 73152-6 3/4" Pipe Plug 17 73152-6 3/4" Pipe Plug 14 73152-6 3/4" Sylor Plug 14 73152-6 3/4" X/2" Pipe Plug 14 73152-6 3/4" X/2" Mipe Steel 14 73152-6 3/4" X/2" Mipe Steel 14 73250-6 3/4" X/2" Mipe Steel 14 73251-7 Marta Plug Plug-MILE 73250-7 8 Plug-MILE 73250-11-6 3/4" X/2" Mia	11		Air Brake Rubber	r Hose 3/4" ID	3	38		BS364609001	Haldex EBS C	able Junction Box For R/		-	H
	41-SCW1-031 Hose Clamp 3/4" 4 39 EBS814003112 Haldex 24V ISO Power Cable For Semi Trailer fimtr 6-500BU Nynon Blue 3/8" 15 6-500BU Nynon Blue 3/8" 15 6-500BU Nynon Blue 3/8" 15 73152-6 3/8" Pipe Plug 1 73152-6 3/4" Pipe Plug 1 73152-6 3/4" Pipe Plug 1 73152-8 1/2" Pipe Plug 1 73152-8 1/2" Pipe Plug 1 73152-8 3/4" Ya XJG" Reducer 2 73152-8 3/4" Ya XJG" Reducer 2 73152-8 3/4" Ya XJG" Reducer 2 73205-12-8 3/4" Ya XJG" Reducer 2 73205-12-8 3/4" Pipe Plug 1 73205-12-8 3/4" Pipe Street Tee Brass 3 73205-12-8 3/4" Pipe Street Tee Brass 3 964-6FXOOT 3/8" Pipe Street Tee Brass 3 964-6FXOOT 5/8" Ya Union Tee Push In 1 968-6FXOOT 5/8" Ya Us Aline Connector P/In 1	12		Hose Clamps S/5	steel	24	38		BA	EBS CAN Rou	ter		1	H
6-500BUNylon Blue 3/8"1540EBS81400312Haldex 24V ISO Power Cable For Semi Trailer 6mtr173152-12 $3/4$ " Fipe Plug11EBS81400401Haldex 24V ISO Power Cable Blue/Blue For R/T173152-12 $3/4$ " Fipe Plug111EBS81400401Haldex 24V ISO Power Cable Blue/Blue For R/T173152-12 $3/4$ " SiPipe Plug111111173152-12 $3/4$ " X1/2" Nipple Steel11111117325-12-85 $3/4$ " X1/2" Nipple Steel111111117325-12-85 $3/4$ " X1/2" Nipple Steel111 <td>6-500BU Nylon Blue 3/8" 15 6-500RD Nylon Rela 3/8" 13 6-500RD Nylon Rela 3/8" 15 73152-12 3/4" Pipe Plug 15 73152-65 3/4" Pipe Plug 1 73152-61 3/4" Pipe Plug 1 73152-65 3/4" Yajb" Reducer 2 73152-61 3/4" X-1/2" Nipple Blug 1 73152-61 3/4" X-1/2" Nipple Steel 1 73152-61 3/4" X-1/2" Nipple Steel 1 73152-61 3/4" X-1/2" Nipple Steel 1 73125-12-83 3/4" X-1/2" Nipple Steel 1 73125-12-83 3/4" X-1/2" Nipple Steel 1 73250-12-6 3/4" X-1/2" Nipple Steel 1 73250-12-6 3/4" X-1/2" Nipple Steel 1 73250-12-83 3/8" Union recetter Plans 1 73250-12-83 3/8" Union recetter Plans 1 73470-83 5/8" Plane Street Tee Blans 1 73470-93 5/8" Yult 1 1 73470-15 3/8" Union recetter P</td> <td>13</td> <td></td> <td>Hose Clamp 3/4</td> <td>_</td> <td>4</td> <td>35</td> <td></td> <td>BS814003112</td> <td>Haldex 24V I:</td> <td>SO Power Cable For Semi</td> <td>i Trailer 16mtr</td> <td></td> <td>H</td>	6-500BU Nylon Blue 3/8" 15 6-500RD Nylon Rela 3/8" 13 6-500RD Nylon Rela 3/8" 15 73152-12 3/4" Pipe Plug 15 73152-65 3/4" Pipe Plug 1 73152-61 3/4" Pipe Plug 1 73152-65 3/4" Yajb" Reducer 2 73152-61 3/4" X-1/2" Nipple Blug 1 73152-61 3/4" X-1/2" Nipple Steel 1 73152-61 3/4" X-1/2" Nipple Steel 1 73152-61 3/4" X-1/2" Nipple Steel 1 73125-12-83 3/4" X-1/2" Nipple Steel 1 73125-12-83 3/4" X-1/2" Nipple Steel 1 73250-12-6 3/4" X-1/2" Nipple Steel 1 73250-12-6 3/4" X-1/2" Nipple Steel 1 73250-12-83 3/8" Union recetter Plans 1 73250-12-83 3/8" Union recetter Plans 1 73470-83 5/8" Plane Street Tee Blans 1 73470-93 5/8" Yult 1 1 73470-15 3/8" Union recetter P	13		Hose Clamp 3/4	_	4	35		BS814003112	Haldex 24V I:	SO Power Cable For Semi	i Trailer 16mtr		H
$6-500RD$ Nylon Red $3/8^{"}$ 15 41 $E8S81400401$ $Haldex$ Wheel Speed Sensor Extension Cable $3mt$ $13152-12$ $3/4^{"}$ Pipe Plug 11 $11252-12$ $3/4^{"}$ Pipe Plug 11277 11277 11277 11277	6-500RD Nylon Red 3/s ¹ 15 73152-12 3/4" Pipe Plug 1 73152-15 3/4" Pipe Plug 1 73152-15 3/4" Pipe Plug 1 73152-16 3/4" Pipe Plug 1 73152-12-65 3/4" Tope Plug 1 73152-16 3/4" Tope Plug 1 73152-16 3/4" X 1/2" Pipe Plug 1 73250-16 3/4" X 1/2" Nipple Steel 1 73250-12-65 3/4" X 1/2" Nipple Steel 1 73250-16 3/4" X 1/2" Nipple Steel 1 73250-16 3/6" Union Tee Push in 1 73750-6 3/6" Union Tee Push in 1 568-10-EKDOOT 5/8" Union Tee Push in 1 568-10-EKDOOT 5/8" X 1/2" Male Connector P/In 1 568-10-EKDOOT 5/8" X 1/2" Male Connector P/In 1 568-6FXDOT 5/8" X 3/8" Male Connector P/In 1 568-6FXDOT 5/8" X 3/8" Male Connector P/In 1 568-6FXDOT 3/8" X 1/2" Male Connector P/In 1 568-6FXDOT <	14		Nylon Blue 3/8"		15	40		BS814003152	Haldex 24V I	50 Power Cable For Semi	i Trailer 6mtr	_	H
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73152-8 1/2" Pipe Plug 5 44 Lumbo Large Trailer Air Tank 60It 2 73220-12-6 3/4" x 3/8" Reducer 2 45 MF12P Plug-M12 2 73220-12-6 3/4" x 1/2" Nipple Steel 1 2 45 MF12P Plug-M12 2 2 7325-12-85 3/4" x 1/2" Nipple Steel 1 2 47 MF16P Plug-M16 2 2 73400-8 1/2" Street Elbow 90 Degree 2 47 MF16S Washer - 12mm 2	73152-8 1/2" Pipe Plug 6 73220-12-6 3/4" x 3/8" Reducer 2 73220-12-6 3/4" x 3/8" Reducer 2 73220-12-6 3/4" x 1/2" Nipple Steel 1 7325-12-8S 3/4" x 1/2" Nipple Steel 1 7320-12-6 3/4" x 1/2" Nipple Steel 1 7320-12-8 3/4" x 1/2" Nipple Steel 1 7320-12-8S 3/4" x 1/2" Nipple Steel 1 7320-12-8S 3/4" x 1/2" Nipple Steel 1 7340-8 1/2" Street Elbow 90 Degree 2 7370-6 3/8" Union Tee Push in 2 964-6FXDOT 5/8" Nuloin Tee Push in 2 964-6FXDOT 5/8" x 1/2" Male Connector P/in 1 968-6FXDOT 5/8" x 1/2" Male Connector P/in 2 968-6-FXDOT 3/8" x 1/2" Male Connector P/in	17		3/8" Pipe Plug		1	43		BS823034001	Haldex EB+ 6	iEN3 Master Assembly		_	H
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73400-8 1/2" Street Elbow 90 Degree 2 47 MF16F Plug-M16 73750-6 3/8" Pipe Street Tee Brass 3 48 MF165 Washer - M16 964-6PXDOT 3/8" Union Tee Push In 2 29 MF22-12R Adaptor 22-1/2" 968-10-6PXDOT 5/8" x 3/8" Male Connector P/In 1 50 MF225 Washer - M22 968-10-FXDOT 5/8" x 1/2" Male Connector P/In 1 51 MF069DOTS6116M 3/8" x 16mm Elbow 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 1 52 PWM2076 Test Point 3/8" 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 1 52 PWM2076 Test Point 3/8" 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 3 3/8" x 555LT Air Tank 25It	73400-8 1/2" Street Elbow 90 Degree 2 73750-6 3/8" Pipe Street Tee Brass 3 964-6FXD0T 3/8" Pipe Street Tee Brass 3 964-6FXD0T 3/8" Vinion Tee Push in 2 964-6FXD0T 3/8" Vinion Tee Push in 2 964-6FXD0T 3/8" Vinion Tee Push in 2 968-10-6TXD0T 5/8" x 1/2" Male Connector P/in 1 968-10-FXD0T 5/8" x 1/2" Male Connector P/in 1 968-6FXD0T 3/8" x 1/2" Male Connector P/in 3	20		3/4" × 1/2" Nipp	ile Steel	1	46		1F12S	Washer - 12r	mm		_	-
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964-6PXDOT 3/8" Union Tee Push In 2 49 MF22-12R Adaptor 22-1/2" 968-10-6PXDOT 5/8" x 3/8" Male Connector P/In 1 50 MF225 Washer - M22 968-10PXDOT 5/8" x 1/2" Male Connector P/In 1 51 MF069DOT56116M 3/8" x 16mm Elbow 968-6-6PXDOT 3/8" x 3/8" Male Connector P/In 1 52 PWM2076 Test Point 3/8" 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 1 52 PWM2076 Test Point 3/8" 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 1 53 RES25LT Air Tank 25It 968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 53 RES25LT Air Tank 25It	964-6PXDOT 3/8" Union Tee Push In 2 968-10-FXDOT 5/8" x 3/8" Male Connector P/In 1 968-10-FXDOT 5/8" x 1/2" Male Connector P/In 1 968-10-FXDOT 5/8" x 1/2" Male Connector P/In 1 968-10-FXDOT 3/8" x 1/2" Male Connector P/In 1 968-6-FXDOT 3/8" x 3/8" Male Connector P/In 1 968-6-FXDOT 3/8" x 3/8" Male Connector P/In 1 968-6-FXDOT 3/8" x 1/2" Male Connector P/In 1 968-6-FXDOT 3/8" x 1/2" Male Connector P/In 3 52 PWM2076 Test Point 3/8" 53 RES25LT Air Tank 25lt 54 SB30/305B 30/30 Spring Brake Seal Back	22		3/8" Pipe Street	Tee Brass	£	48		1F16S	Washer - M1	9			10
968-10-6PXDOT 5/8" x 3/8" Male Connector P/In 1 50 MF22S Washer - M22 968-10PXDOT 5/8" x 1/2" Male Connector P/In 1 51 MF069DOTS6116M 3/8" x 16mm Elbow 968-6-6PXDOT 3/8" x 3/8" Male Connector P/In 1 52 PWM2076 Test Point 3/8" 968-6-6PXDOT 3/8" x 1/2" Male Connector P/In 1 52 PWM2076 Test Point 3/8" 968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 1 52 PWM2076 968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 53 RES25LT Air Tank 25lt	968-10-6PXDOT 5/8" x 3/8" Male Connector P/in 1 968-10PXDOT 5/8" x 1/2" Male Connector P/in 1 968-6-6PXDOT 3/8" x 3/8" Male Connector P/in 1 968-6-6PXDOT 3/8" x 3/8" Male Connector P/in 1 968-6-6PXDOT 3/8" x 3/8" Male Connector P/in 1 968-6-6PXDOT 3/8" x 1/2" Male Connector P/in 3 968-6-8PXDOT 3/8" x 1/2" Male Connector P/in 3 53 RES25LT Air Tank 25lt Air Tank 25lt 54 SB30/305B 30/30 Spring Brake Seal Back 4	23		3/8" Union Tee	Push In	2	49		1F22-12R	Adaptor 22-1	/2"		2	
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968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 53 RES25LT Air Tank 25lt Air Tank 25lt Air Connector P/In 54 530/305B 30/30 Spring Brake Seal Back	968-6-8PXDOT 3/8" x 1/2" Male Connector P/In 3 53 RES25LT Air Tank 25lt Air Tank 25lt 54 5830/30SB 30/30 Spring Brake Seal Back 10/30 Spring Brake Seal Back 10/3	26		3/8" x 3/8" Male	e Connector P/In	1	52		WM2076	Test Point 3/	8"			H
SB30/30SB 30/30 Spring Brake Seal Back	SB30/30SB 30/30 Spring Brake Seal Back	27		3/8" x 1/2" Malt	e Connector P/In	3	53		ES25LT	Air Tank 25lt				H
]					54		B30/30SB	30/30 Spring	Brake Seal Back		•	6
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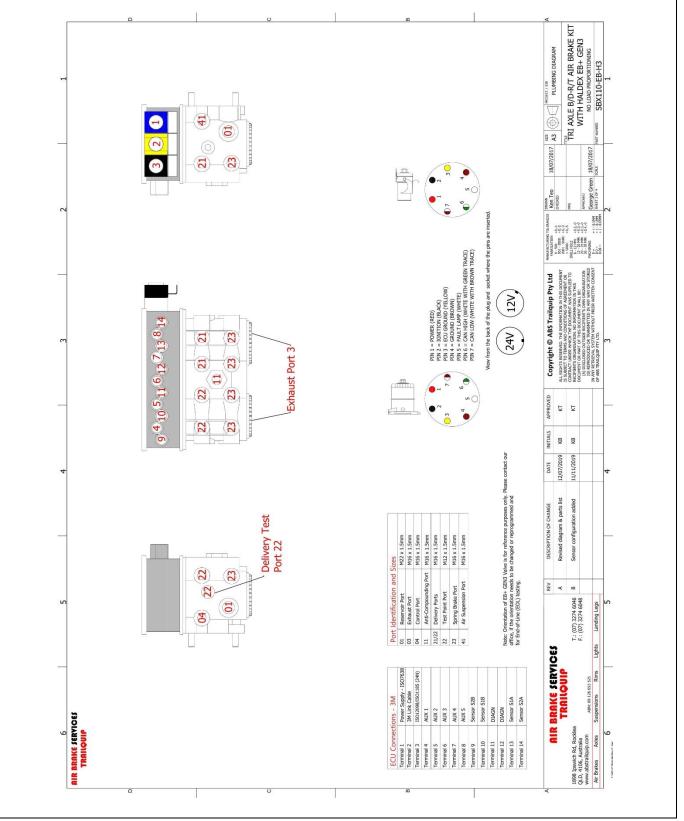
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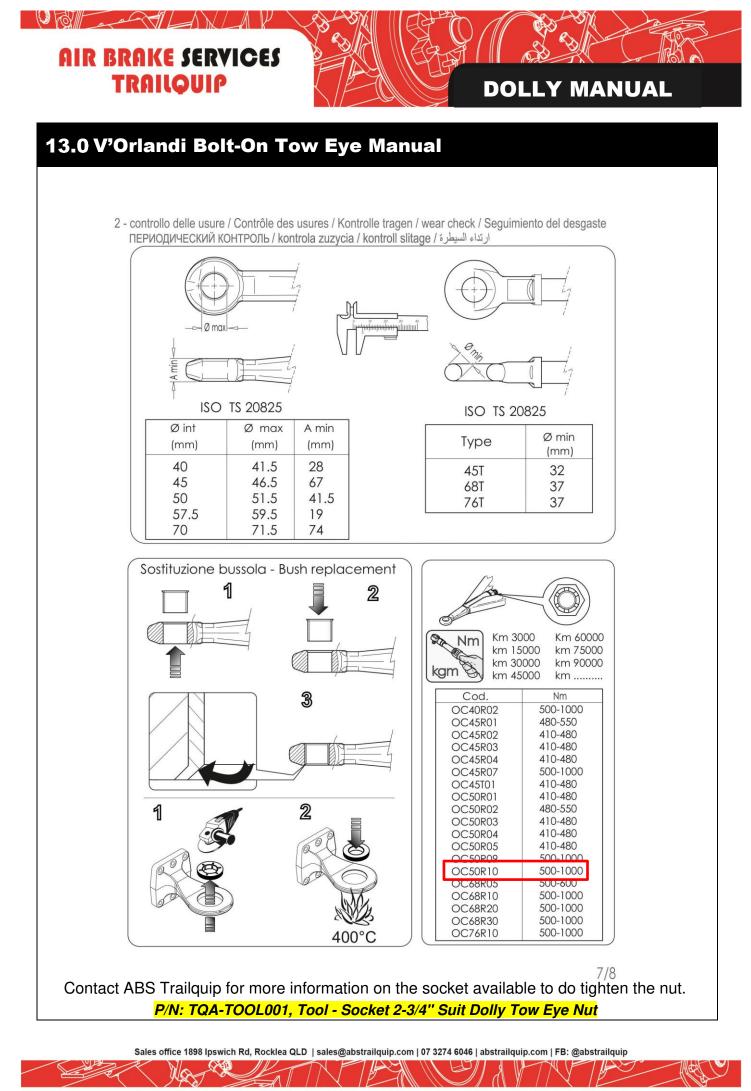
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DOLLY MANUAL

14.0 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
- Intrucciones de montaje y uso
- Руководство по установке и эксплуатации
- PL Instrukcja montażu i eksploatacji
- SE Monterings- och bruksanvisningar
- لطريقة تعليم التركيب و الاستعمال (SA)

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



tightened with forque wiench Apriete con llave dinamométrica Затяжка с помощью динамометрического ключа Átvridning med momentnyckel Przykręcanie przy pomocy klucza dynamometrycznego حركى مفتاح مع قفل Implica attenzione e cautela.



Achtung und Vorsicht. Implique attention et précaution. Attention and caution. Implica la atención y la precaución Требует внимания и осторажности Postępować z uwagą i ostrożnością Kräver uppmärksamhet och försiktighet "III vard o ulacit.



Possibilità di schiacciamento degli arti. Gefahr einer Gledmaßenverletzung. Risque d'écraser les membres. Risk of a limb injury Poslibidad de aplastamiento de los miembros Onachocth повреждения суставов Niebezpieczeństwo uszkodzenia stawów Risk för klämning av armar eller ben Illed i e ureb liter ben



Sichtprüfung Contrôle visuel Visual check control visual Визуальный контроль Kontrola wizualna Synkontroll المجر ده بلعين الكثف

Controllo visivo



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Synkontroll جردہ بلعین الکٹف Lubrificare Schmieren Lubricate para lubricar Смазка Smarowanie Smarowanie

التزييت

Controllo dimensionale Dimensional Control Contrôle dimensionnel Dimensional check Control dimensional Контроль соответствия размеров Контоla prawidłowych wymiarów Dimensionskontrol دالسيطرة الأبعاد

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AIR BRAKE SERVICES TRAILQUIP **DOLLY MANUAL** V'Orlandi Fifth Wheel RP10 Greaseless Manual 14.0 1 - Montaggio / Einbau / Montage / Installation/ Montaje / MOHTAX / Montaz / Montering / تصاعد/ V.ORLANDI SAA BAESCA ITALY Fiftht Wheel RP10 -E50-X D = 152 kN U = 20 t 0 \cap e11 XX YYYYYY MADE IN ITALY 00 - 4649Nm Nm > 270-300 Nm kgm M16x1,5-6g DIN 692 kgm > 270-300 Nm > 200 Nm M 16x1,5-8.8 M16x1,5-10.9 0 ς M16x1,5-6HDIN 6923 0

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M 16x1,5-10

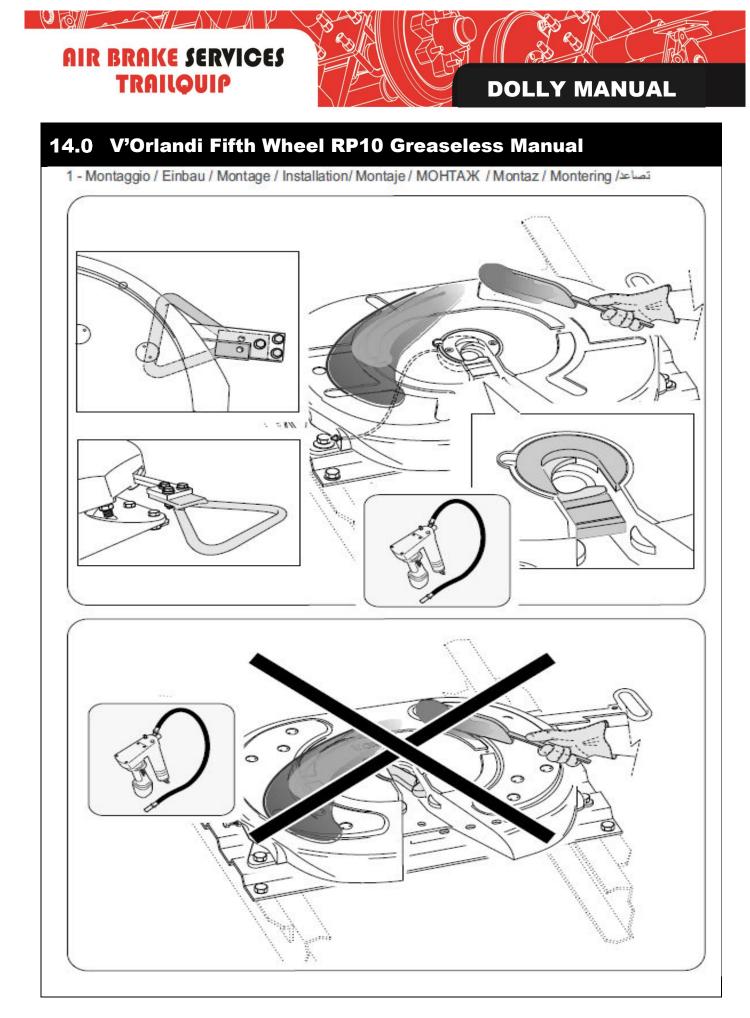
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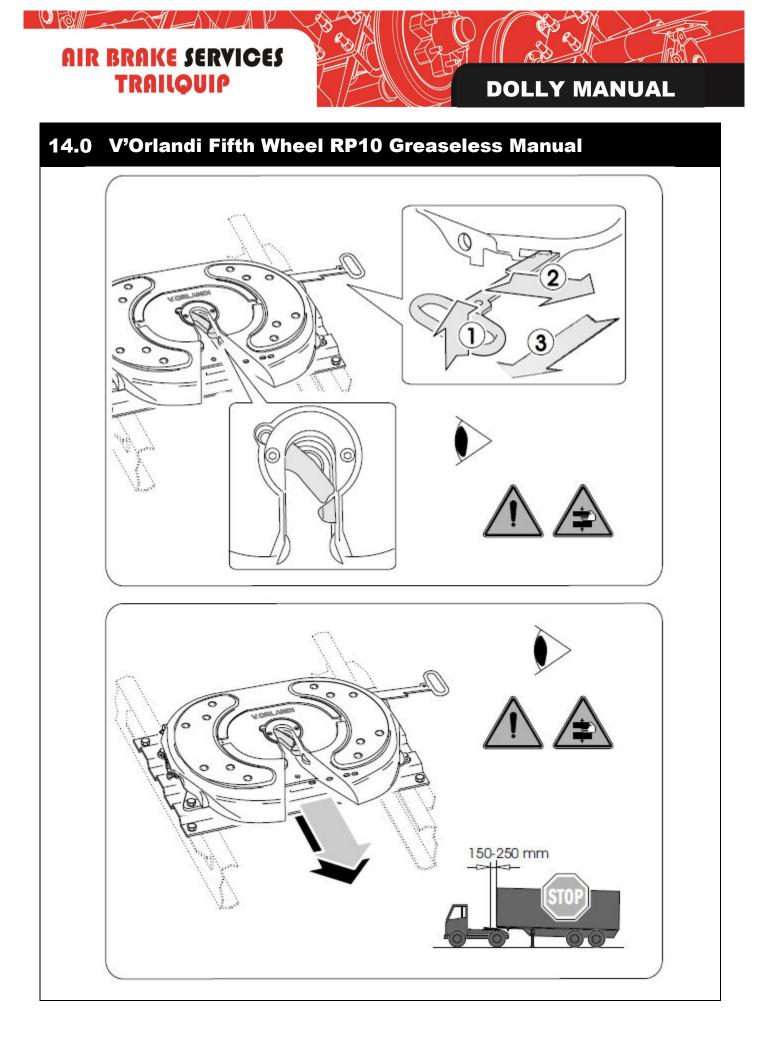
M16x1,5-8G

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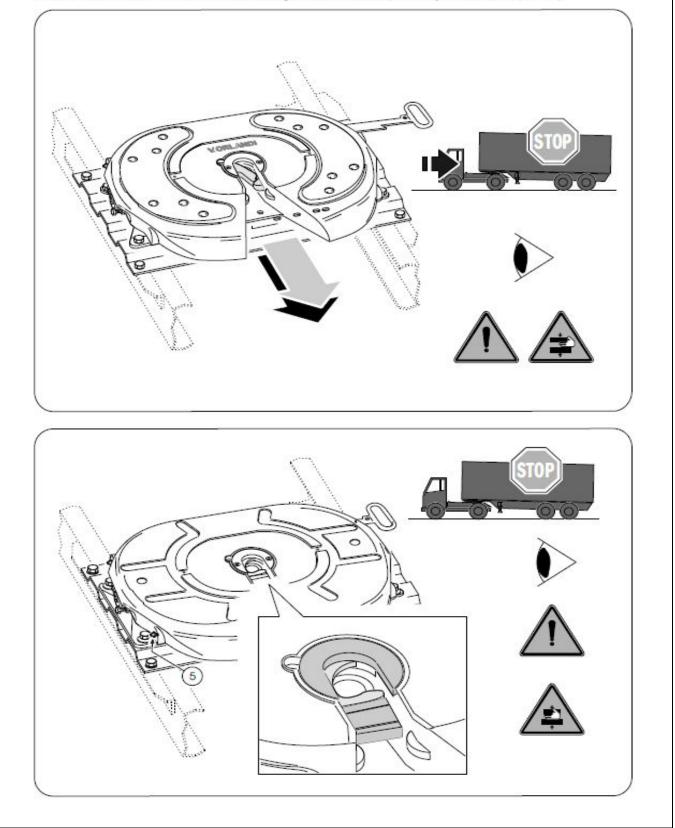


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14.0 V'Orlandi Fifth Wheel RP10 Greaseless Manual

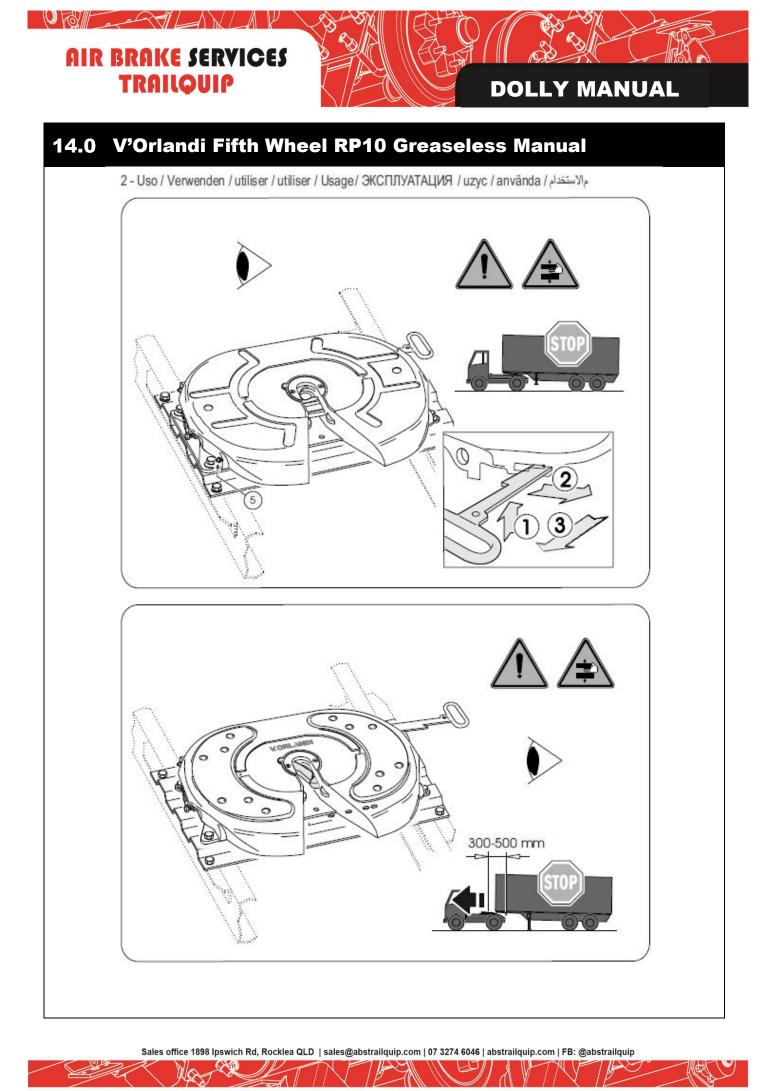
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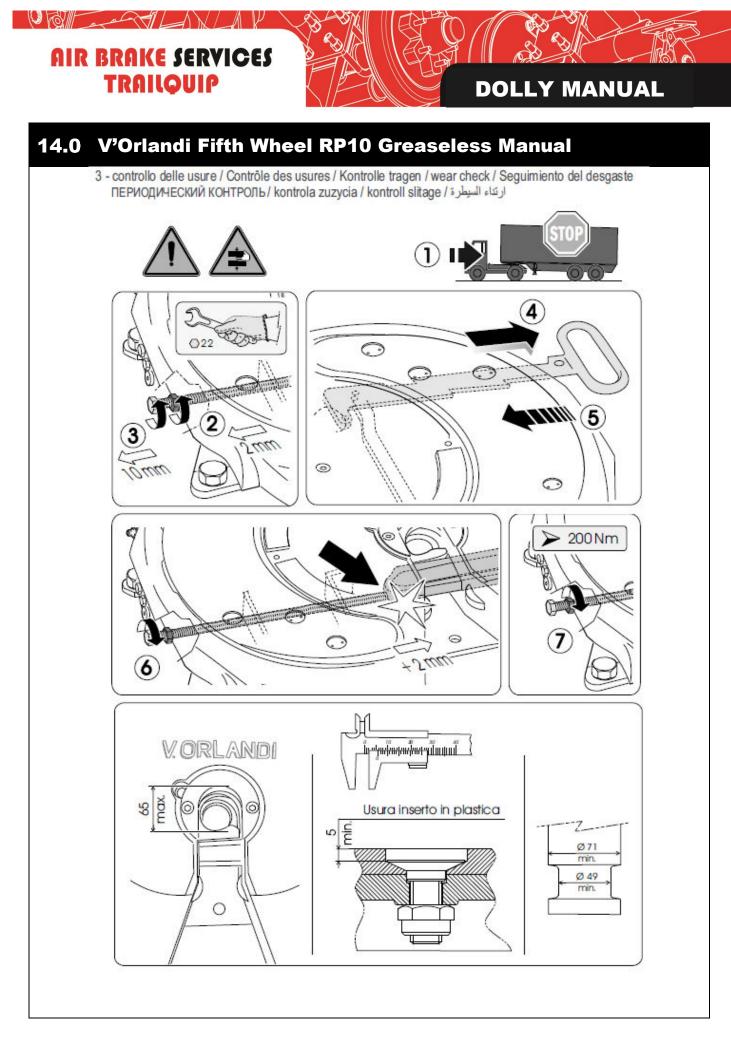
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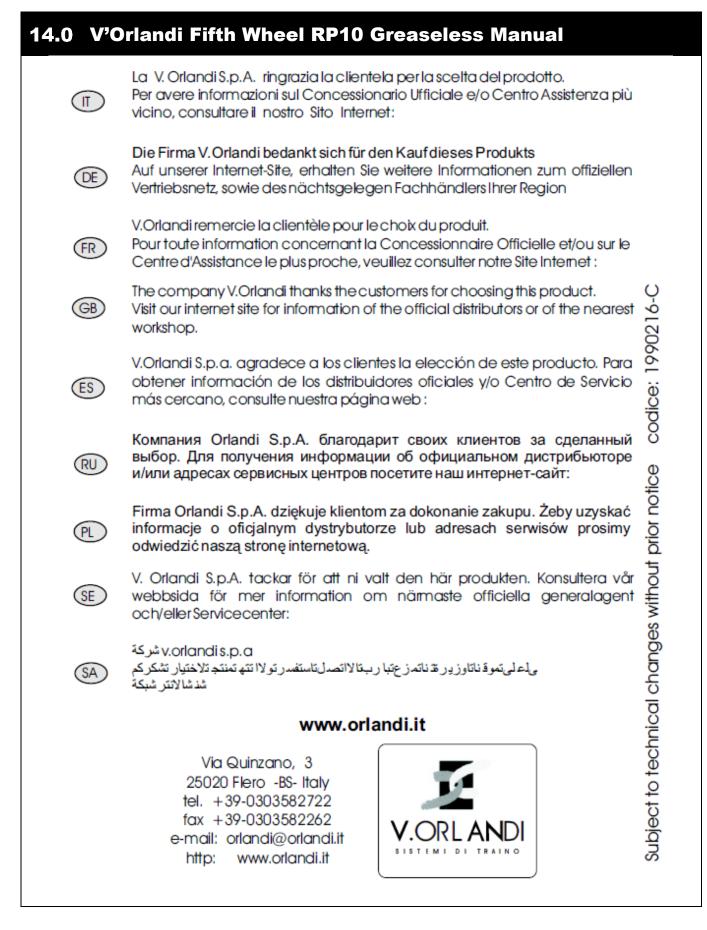
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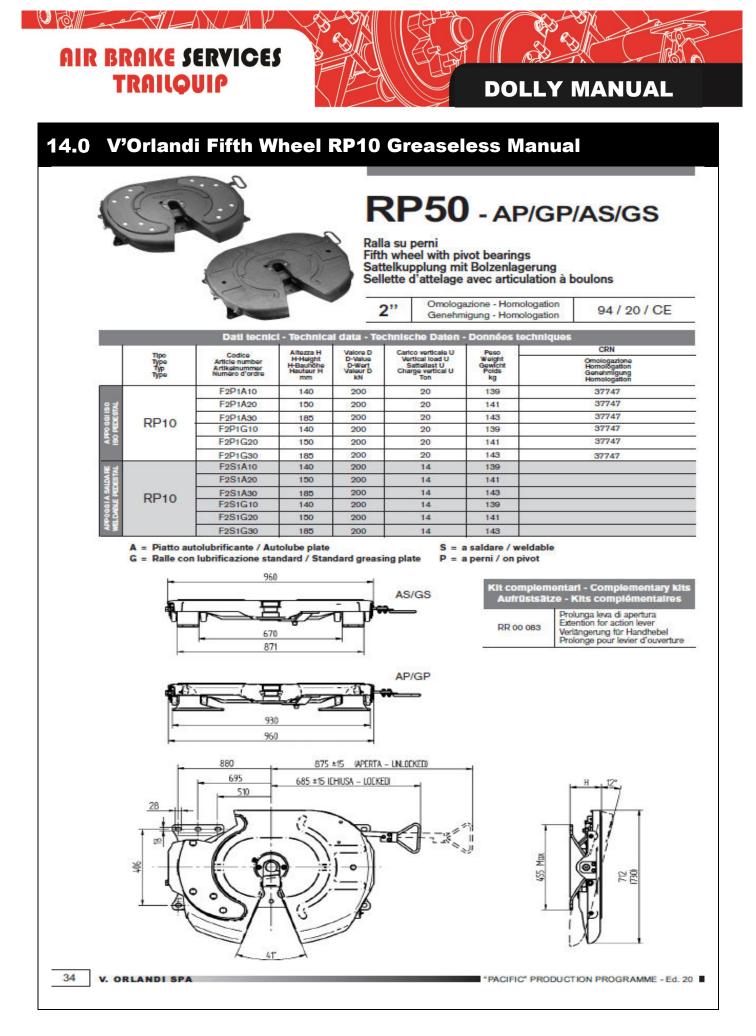
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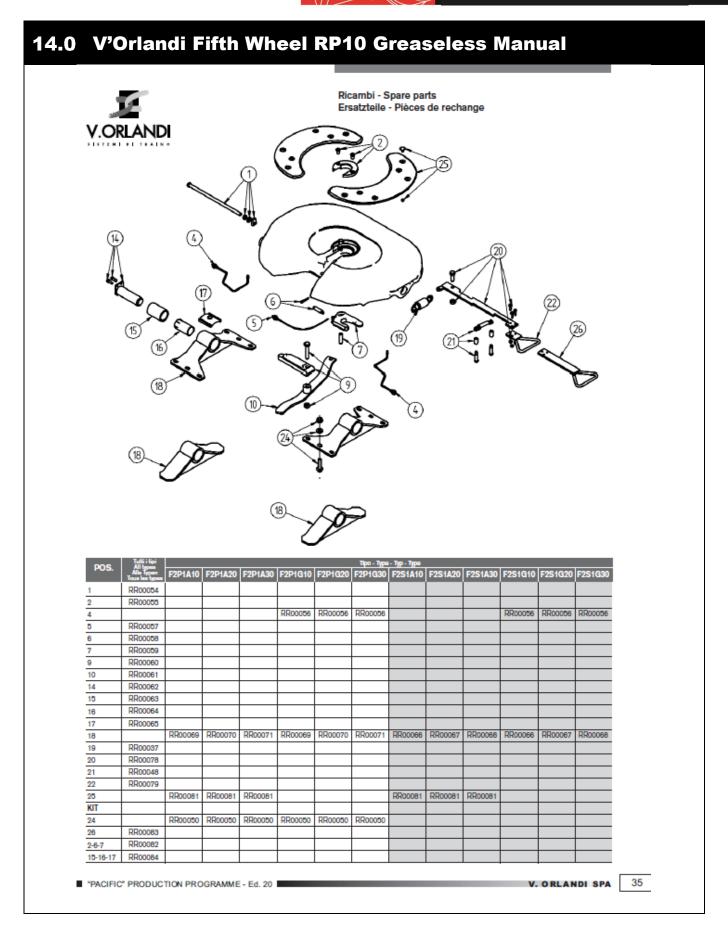
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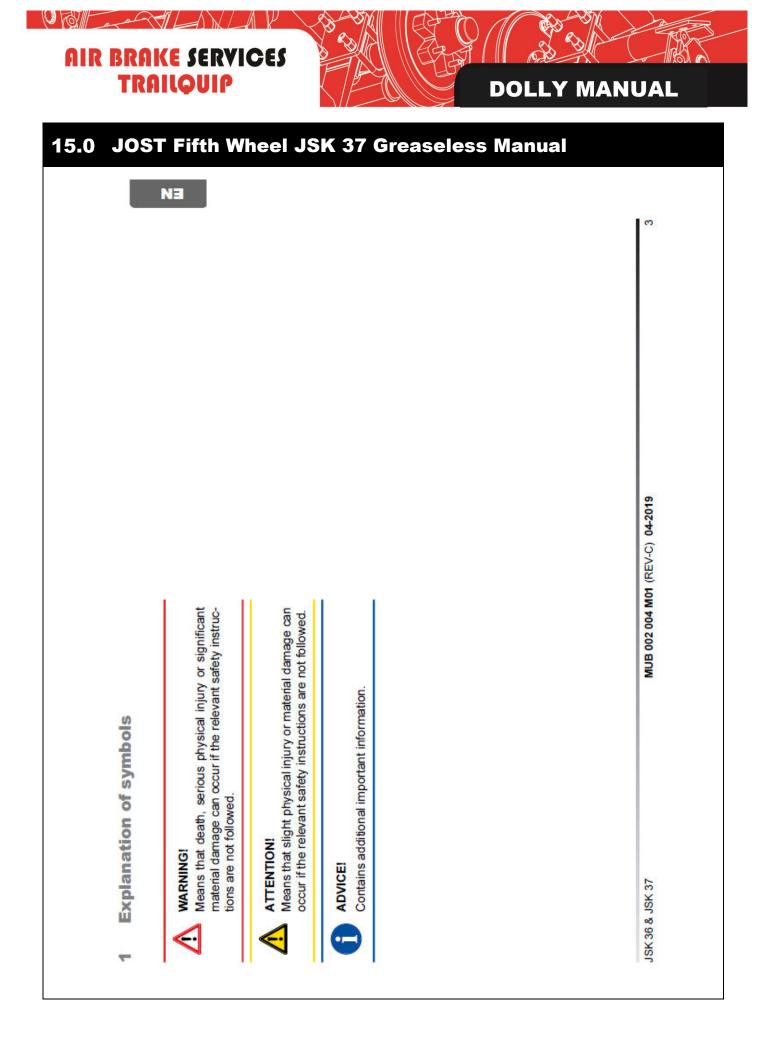
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-	Table of contents					JOS
-	Explanation of symbols 3	9	Servicing and testing	5 6	EN	ST I
2	Safety information 4 2.1 Safety information for operation 4 2.2 Safety information for servicing 4 2.3 Safety information for installation 5			5 4 4 4 5 4 4		Fifth Wh
3	Proper usage		6.1.4 Lubrica Test ins Wear te Adjustir			eel JSK
4	Operation94.1Fifth wheel coupling closed and locked94.2Fifth wheel coupling ready for engagement94.3Opening the fifth wheel coupling104.4Coupling up a semi-trailer104.5Uncoupling a semi-trailer114.6Checking the locking mechanism11		6.6 Wear limit – top plate liners	8		37 Greasele
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2	MUB 002 004 M01 (REV-C) 04-2019	101 (REV-1) 04-2019 JSK 36 & JSK 37	SK 37		

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15.0 The front edge of the skid plate must not be sharp, otherwise it a ensure that it is properly locked. Only drive the vehicle with the semi-trailer, for example the Health and Safety at Work Regu-Comply with the relevant safety regulations when connecting Check the locking mechanism before starting your journey to coupling plate on the fifth wheel coupling. Pressure losses in The fifth wheel coupling may only be operated by authorised the air suspension may change the height of the semi-trailer. may damage the fifth wheel coupling or the top plate liners. locking mechanism locked and secured, even when driving Only use the fifth wheel coupling and skid plate on the se-When coupling up a semi-trailer, the skid plate must be at the same height as or ideally max. 50 mm lower than the lations. Only couple up a semi-trailer on firm, flat ground. mi-trailer if they are in perfect technical condition. Safety information for operation without a semi-trailer (solo driving) personnel 5

Safety information for servicing 22

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

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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.

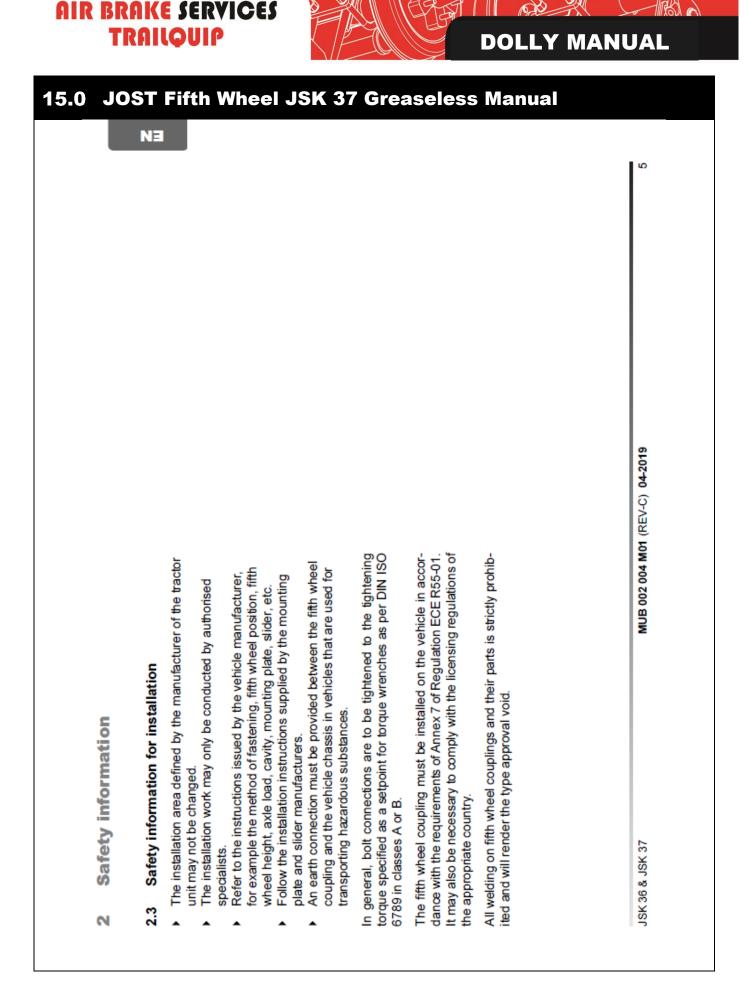
tor units and semi-trailers. The appropriate safety information in the operating manual for the tractor unit and the semi-trailer continues tion applies to the installation, servicing and mounting work. Items to remain valid and must be followed. The following safety informaof safety information directly 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

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ISK 36 & JSK 37

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Proper usage

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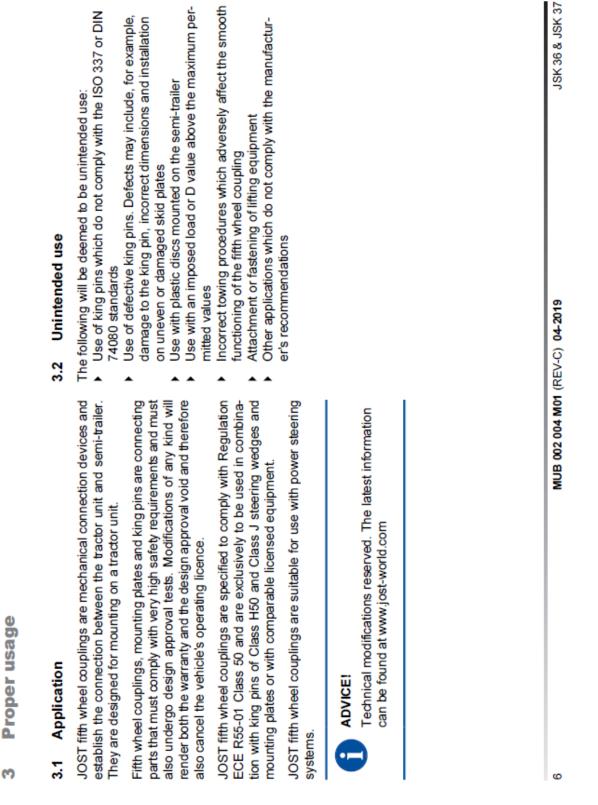
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15.0 JOS	T Fifth Wheel JSK 37 Greaseless Manual	
	EN	
	JOST catalogue sheets and stamped on the type plate. This load da- ta is applicable for proper usage pursuant to regulation ECE R55-01.	MUB 002 004 M01 (REV-C) 04-2019 7
	3.3 Design The fifth wheel coupling is designed in combination with the vehicle manufacturer (the design must comply with Regulation ECE R55-01, Annex 7). In addition to the imposed load, the D value is a criterion for the load capacity of fifth wheel couplings and mounting plates. It can be calculated using the following formula: $D = Drawbar value [KN]$ $D = Drawbar value [KN]$ $B = 0.81 \text{ m/s}^{2}$ $R = Permissible gross weight of the tractor unit including U [1] D = g \times \frac{0.6 \text{ x T x R}}{\text{T + R - U}} \text{ [kN]} D = g \times \frac{0.6 \text{ x T x R}}{\text{T + R - U}} \text{ [kN]} Sample calculation:R = 33 \text{ t} T = 1.7 \text{ t} D = 9.81 \text{ x} \frac{0.6 \text{ x T x R}}{\text{T + R - U}} \text{ [kN]} D = 9.81 \text{ x} \frac{0.6 \text{ x T x R}}{1.7 + 33 - 10.5} = 83,6 \text{ kN} Figure (1) and (1) an$	JSK 36 & JSK 37 MUB 002 004 M01

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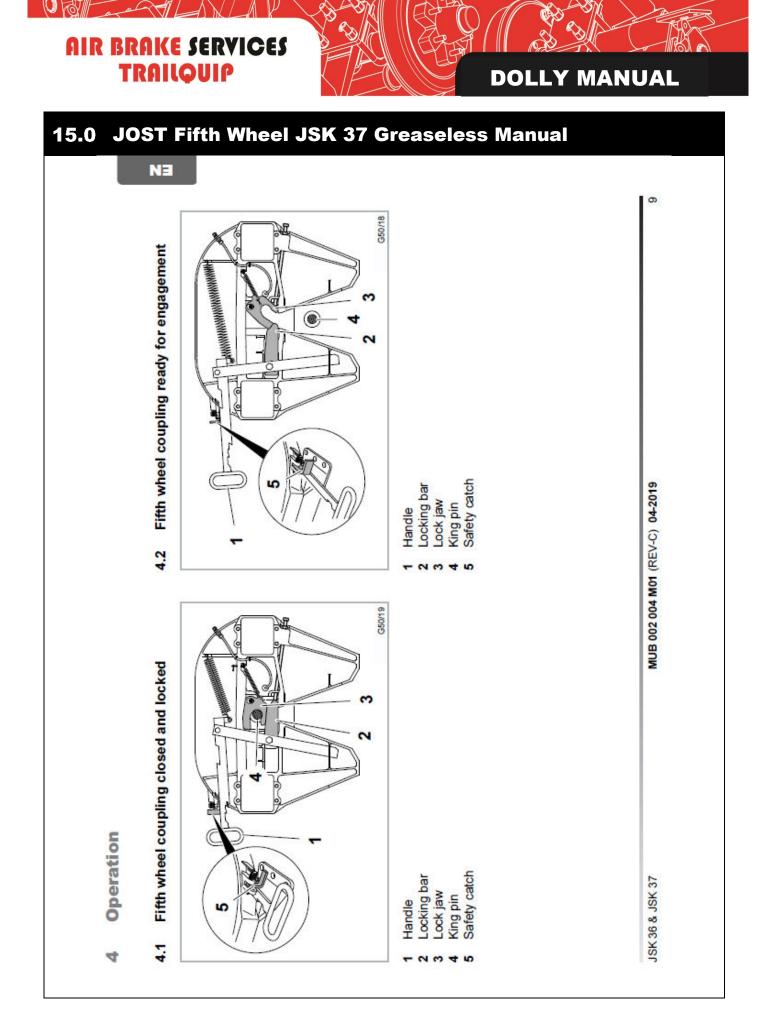
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5.0 JOST	Fifth V								nual	37
	D value [kN]	152	152	135	126	170	152	152		JSK 36 & JSK 37
	Im- posed [t]	20	20	18	15	24	20	20		JSK 36
	Fifth wheel coupling	JSK37C, JSK37CW	JSK37E, JSK37EW, JSK37ER, JSK37ERW	JSK37EA, JSK37EAW	JSK37ME140, JSK37ME140W	JSK37CX	JSK37CX-1	JSK36D		
data	Type	JSK37C		JSK37E		JSK37CX	JSK37CX-1	JSK36D		
Permissible load data	ECE Test symbol and approval number	EI) 55R-01 0116	((EI) 55R-01 0294		(E1) 55R-01 1929	E.) 55R-01 1927	(EI) 55R-01 0301		REV-C) 04-2019
3 Proper usage If they are subject to additional dynamic forces, for example if they are subject to additional dynamic forces, for example of not are not proven road surfaces or on construction sites do not	use the complete fifth wheel load and D value, or use a heavier fifth wheel coupling. Alternatively, consult JOST.	on the type plate. This gives the coupling a unique identity.		Ver Marker Desknolsen annrel Merk operating annotal Nerve Ver Marker All Personen annre Lagger stanmarkt. Einste		Example of a type plate	ECE approval	Maximum D value in kn Maximum imposed load U in t Article no.	Factory number Type	MUB 002 004 M01 (REV-C) 04-2019

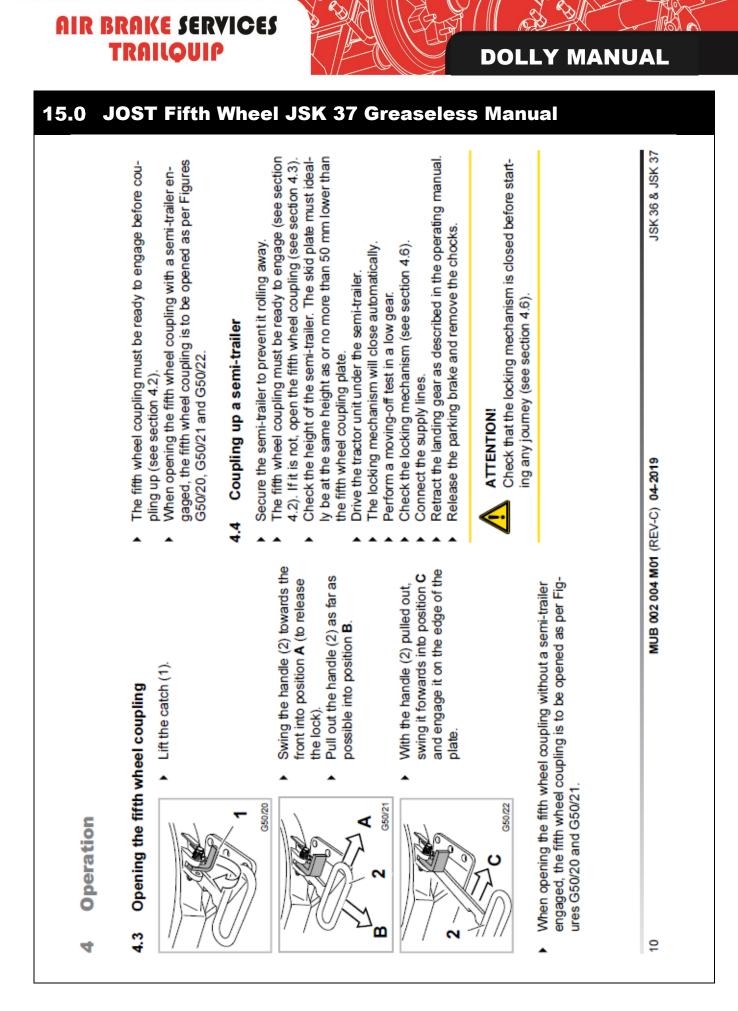
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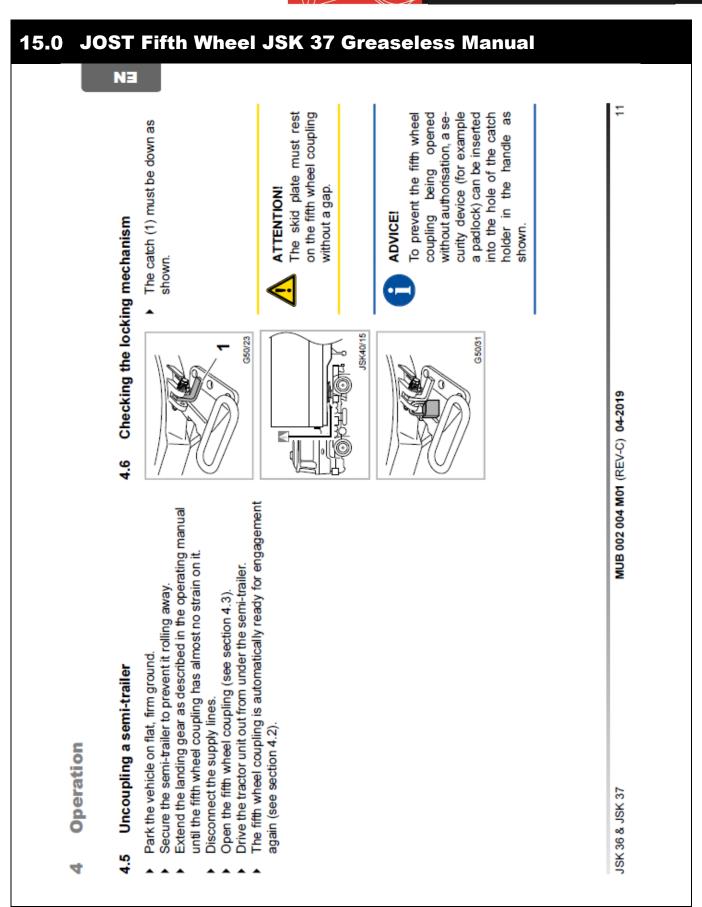
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Installation

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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

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.

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.

logue 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

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

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

BRAKE SERVICES

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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.

JOST Fifth Wheel JSK 37 Greaseless Manual

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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.

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JSK 36 & JSK 37

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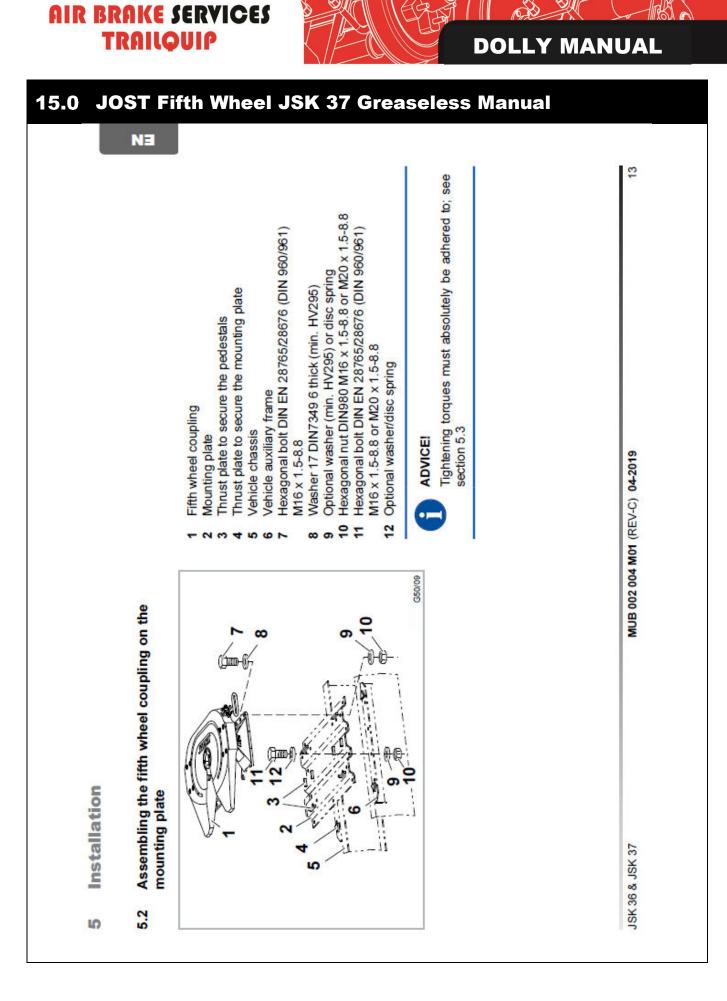
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and lateral axes of the fifth wheel coupling

Fifth wheel couplings with a design height of over 250 mm and a D

We recommend that you use JOST fastening kits (see JOST cata-



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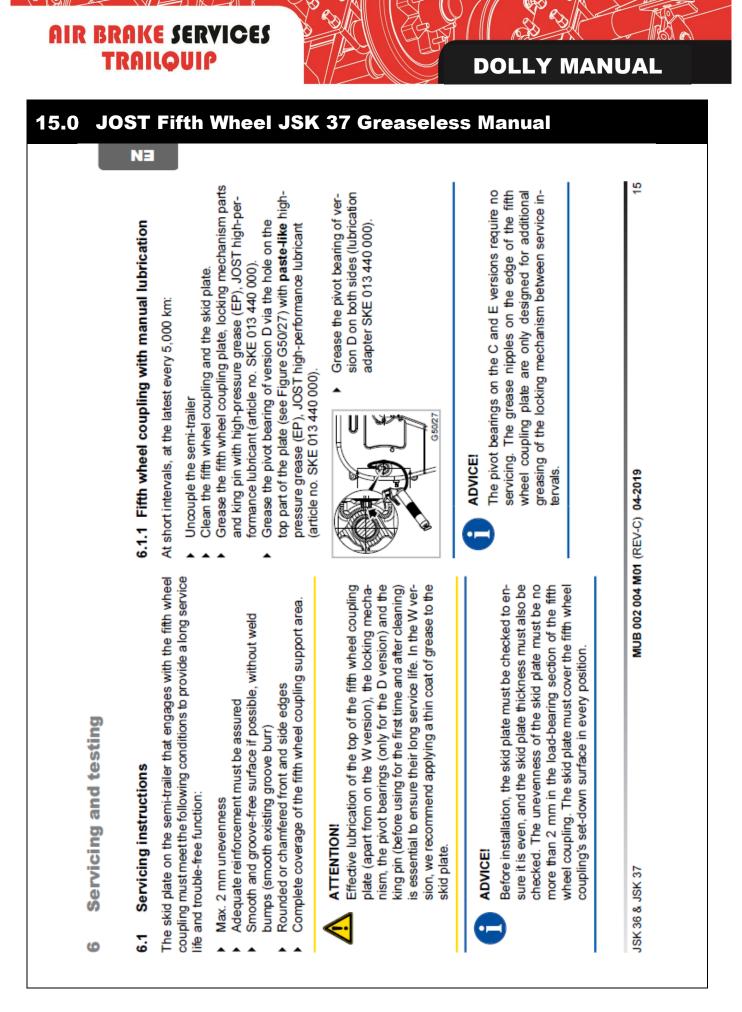
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5.0 J	OST	Fift	h WI	neel	JSK	37 Greaseless Manual	
		Strength class 10.9	260 Nm 500 Nm	280 Nm 500 Nm	250 Nm 400 Nm	le in VDI 2230.	JSK 36 & JSK 37
		Strength class 8.8	210 Nm 410 Nm	225 Nm 460 Nm	170 Nm 330 Nm	mation is availabl	
			M16 M20	M16 x 1.5 M20 x 1.5	M16 or M16 x 1.5 M20 or M20 x 1.5	on µ tot. = 0.14. Further info) 04-2019
	al and tightening torques		Hexagonal bolt DIN EN 24014/24017 (DIN 931/933) standard thread	Hexagonal bolt DIN EN 28765/28676 (DIN 960/961) fine thread		l above are guide values for a coefficient of friction μ tot. = 0.14. Further information is available in VDI 2230.	MUB 002 004 M01 (REV-C) 04-2019
5 Installation	5.3 Fastening material and tightenin	Fastening material	Hexagonal bolt DIN EN 24(Hexagonal bolt DIN EN 287	Hexagonal bolt DIN 7991	The values shown above are guide	14

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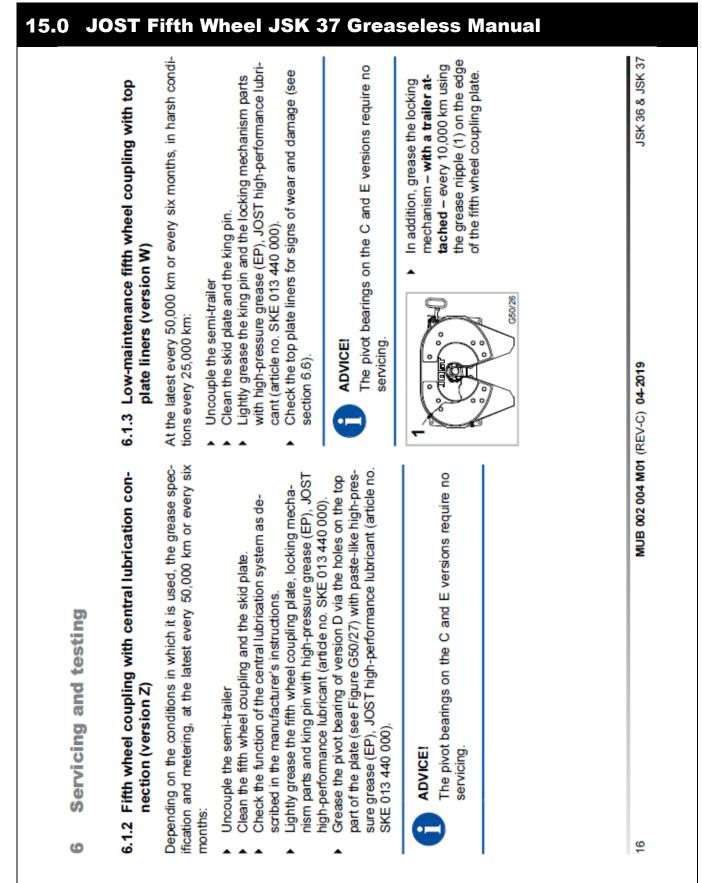




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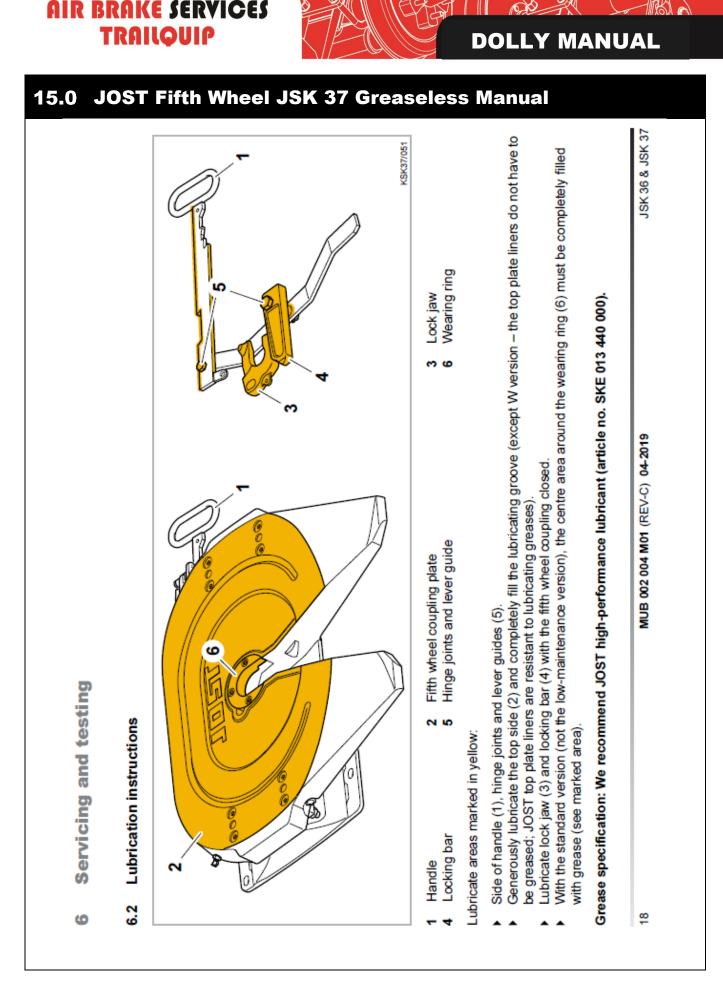


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15.0 JOST Fifth Wheel JSK 37 Greaseless Manual			
EN			
6.1.4 Grease specification We recommend high-pressure grease (EP), e.g. JOST high-perfor- mance lubricant (article no. SKE 013 440 000).			MUB 002 004 M01 (REV-C) 04-2019 17
6 Servicing and testing 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.	ADVICE: When you dean the fifth wheel coupling, you may pro- duce waste products that contain polluting substances. We would like to point out that you must comply with the various national waste regulations for the disposal of this waste.		JSK 36 & JSK 37 MUB 002 004 M01

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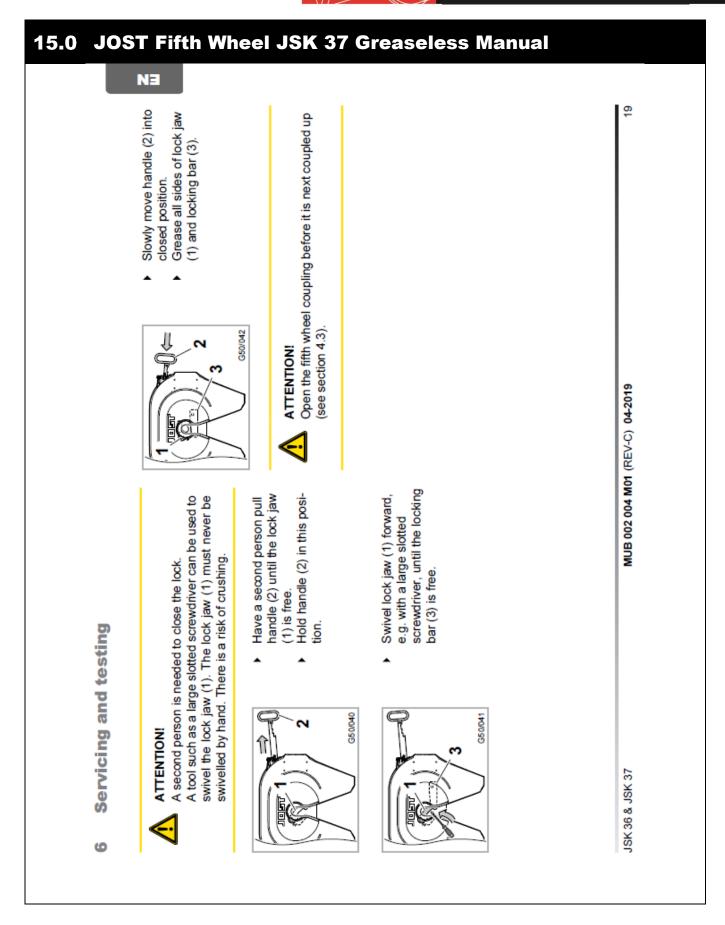
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AKE SERVICES TRAILOUIP

15.0 **JOST Fifth Wheel JSK 37 Greaseless Manual** Play caused by wear on the king pin should either be accepted if When the wear limit on the king pin has been reached, it must be replaced. After the king pin has been replaced, the locking mecha-ISK 36 & JSK 37 within the permitted wear limit for the king pin (see Figure JSK 40/05) ment of the lock jaw, wearing ring or locking bar, the lock-The wear on the king pin must not be compensated for After work on the locking mechanism or after replaceing mechanism must always be readjusted in order to en-ISK40/05 or should be rectified by fitting a new king pin 978-93 sure the base clearance of 0.3 mm. 71-73 mm 49-50.8 mm nism must be adjusted again. through adjustment. ATTENTION ADVICE MUB 002 004 M01 (REV-C) 04-2019 •= Depending on the conditions of use, but no later than every 50,000 and repaired where necessary (see the appropriate JOST repair incauses shocks and may lead to instability on the road and damage to km or every six months, the fifth wheel coupling, the mounting plate, Fifth wheel couplings and king pins are subject to more or less wear depending on the conditions in which they are used, and this wear is noticeable by play towards the front of the vehicle. Excessive play the fifth wheel coupling, mounting plate, sliders and vehicle chassis. JOST fifth wheel couplings have a manual infinite adjustment facility Correct position of the fastening elements (check prescribed for the locking mechanism to extend their service lives To ensure the smooth running of the mechanisms the slider and the king pins should be checked for: Servicing and testing To ensure adequate lubrication structions at www.jost-world.com) Test instructions Damage or distortion

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Wear test

6.4

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orque values)

Function

6.3

6

Wear

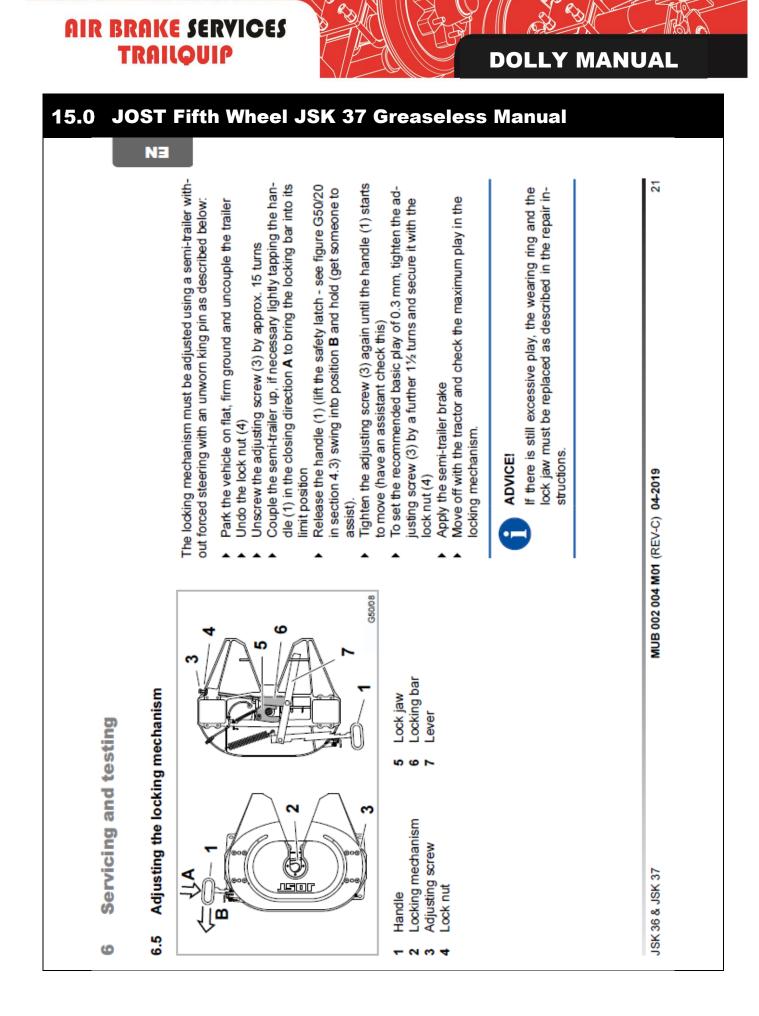
Corrosion

Cracks

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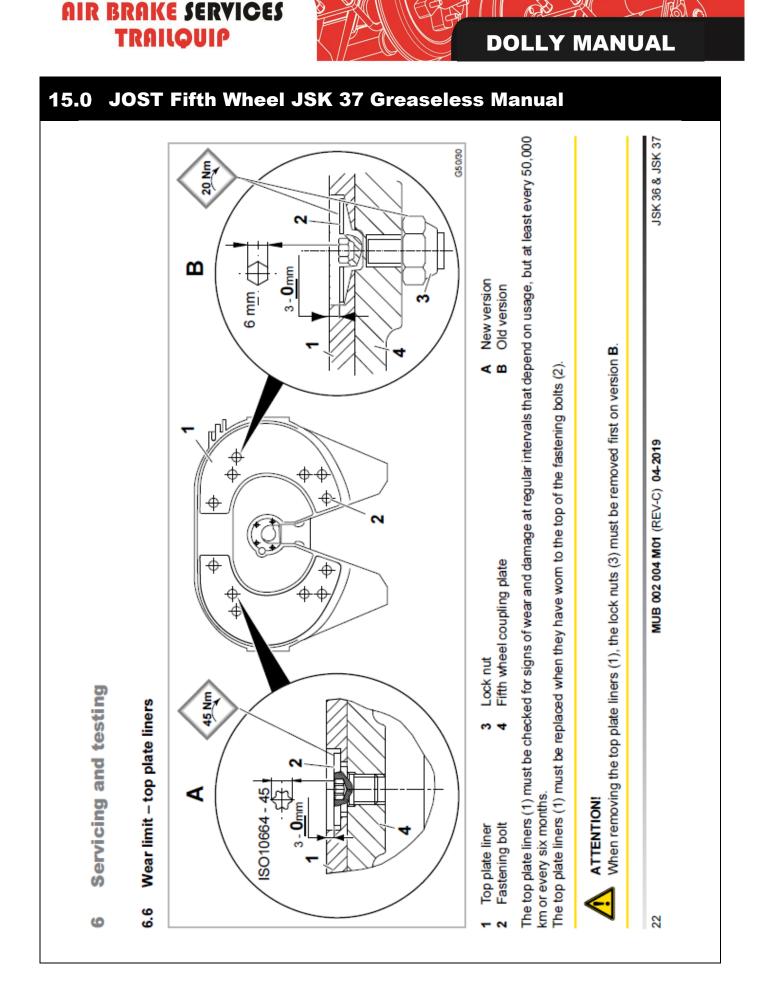
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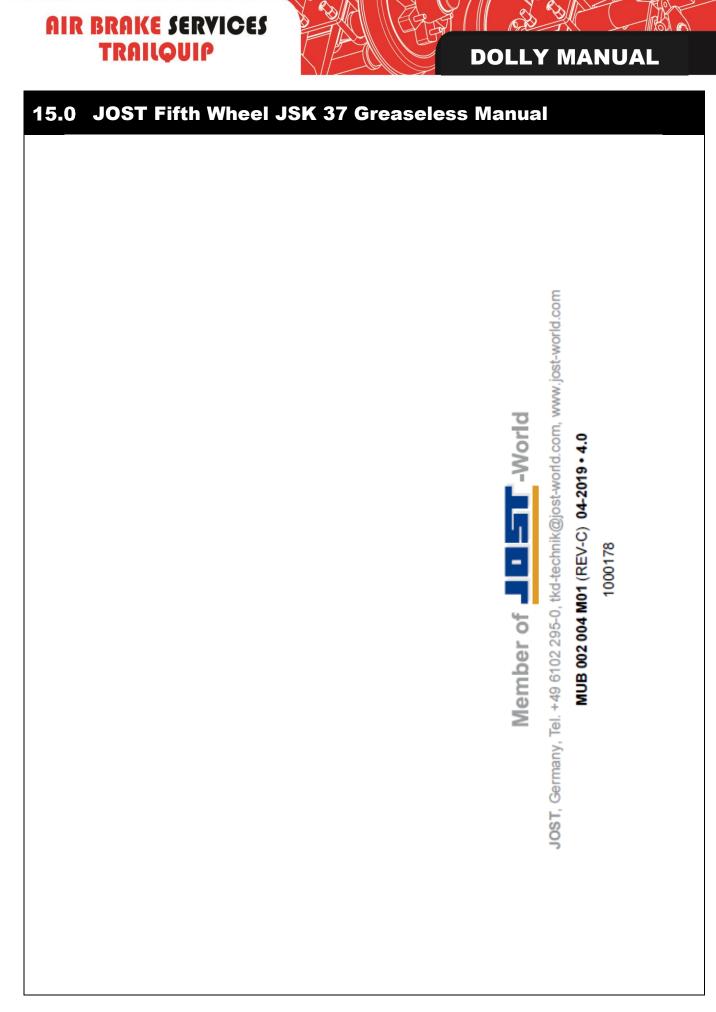


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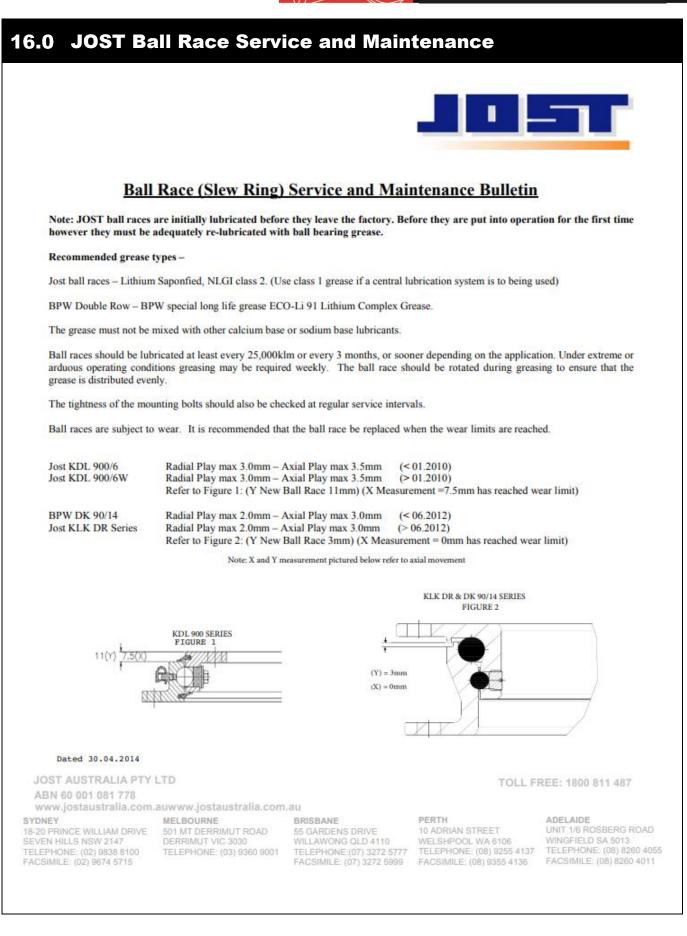
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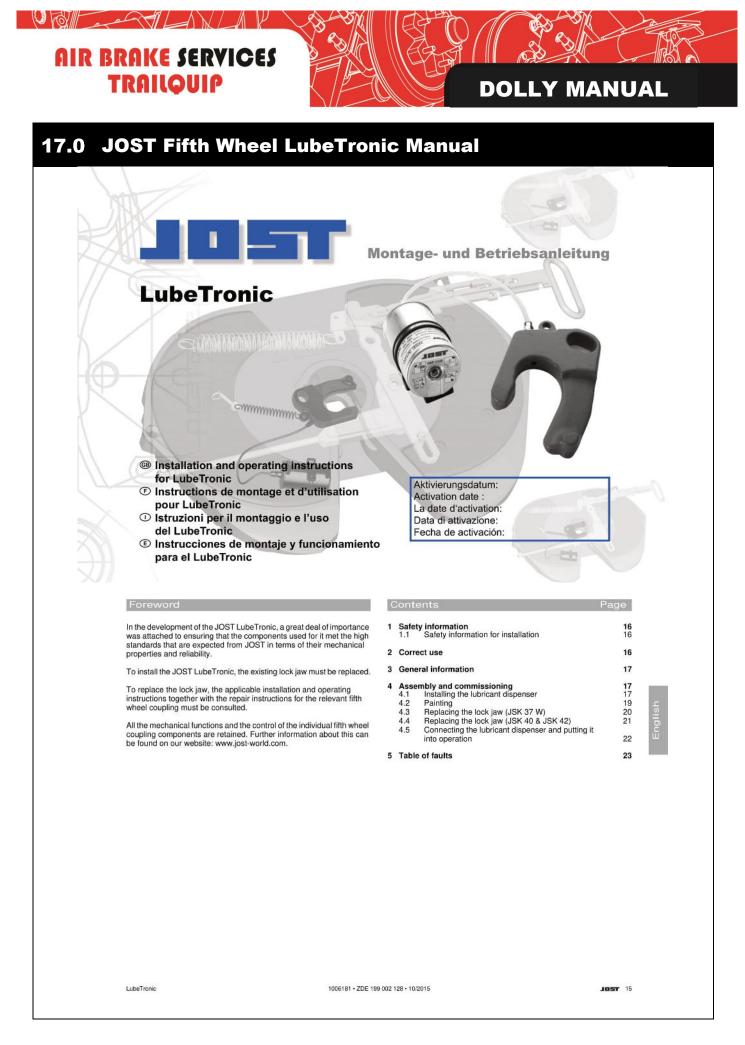


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17.0 JOST Fifth Wheel LubeTronic Manual

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.



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 JOST LubeTronic will be rendered void. For ADR/GGVS vehicles, the regulations and country-specific
- For ADR/GGVS vehicles, the regulations and country-specific legislation must be observed. The ADR result on the served.
 - The ADR report can be viewed at www.jost-world.com

2 Correct use

A	When equipping a fifth wheel coupling with LubeTronic, take care to ensure that the fifth wheel coupling is placed
	on the vehicle using a suitable lifting tool. Lifting a fifth
	wheel coupling with LubeTronic with a forklift truck, for
	instance, could cause damage to the LubeTronic.

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.

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LubeTronic

3 General information

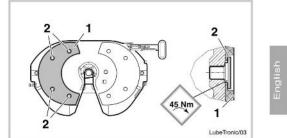
During the LubeTronic's operational life, the LED will flash once every 2 minutes on the lubricant dispenser. When the lubricant dispenser is empty, the LED on the lubricant dispenser will flash once every 5 seconds.

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.

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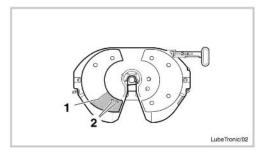
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4 Assembly and commissioning

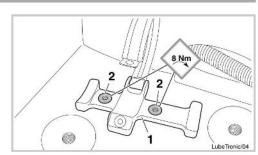


Note

- 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.

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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

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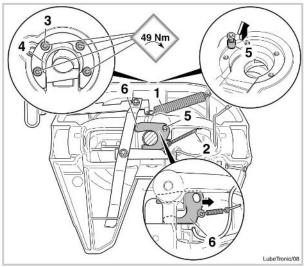
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- 4 Assembly and commissioning
- 4.3 Replacing the lock jaw (JSK 37 W)



- Unhook the double spring (1).
- Release the spring (2). Undo the screws (3) on the wear part.
- 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 lie over its entire surface on top of the fifth wheel coupling!

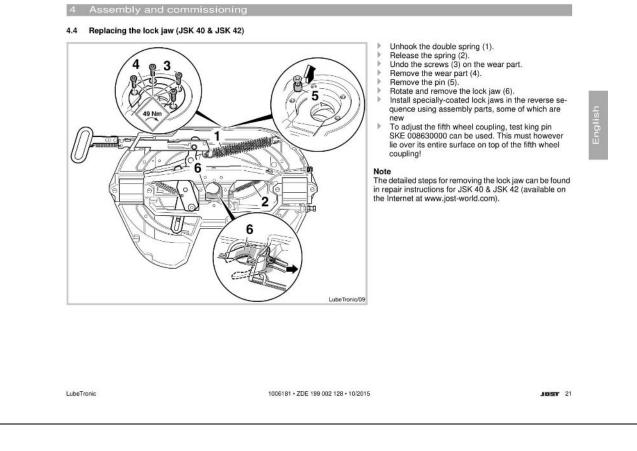
Note

The detailed steps for removing the lock jaw can be found in the repair instructions for JSK 37 (available on the Internet at www.jost-world.com).

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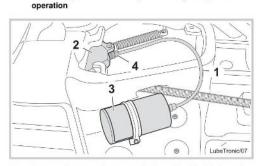
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17.0 JOST Fifth Wheel LubeTronic Manual

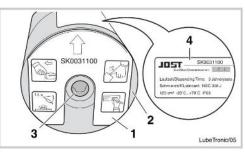
4 Assembly and commissioning

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.

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5 Table of faults

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	

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