



Tuffride Disc Brake Hose Installation

This document outlines the installation instructions for hydraulic disc brake hoses and lines. Please adhere to these instructions to ensure optimum brake performance and the longevity of the braking system. This document focuses on a tandem suspension setup; however, the same principles apply to a single suspension setup. This document does not override any ADR requirements or procedures.

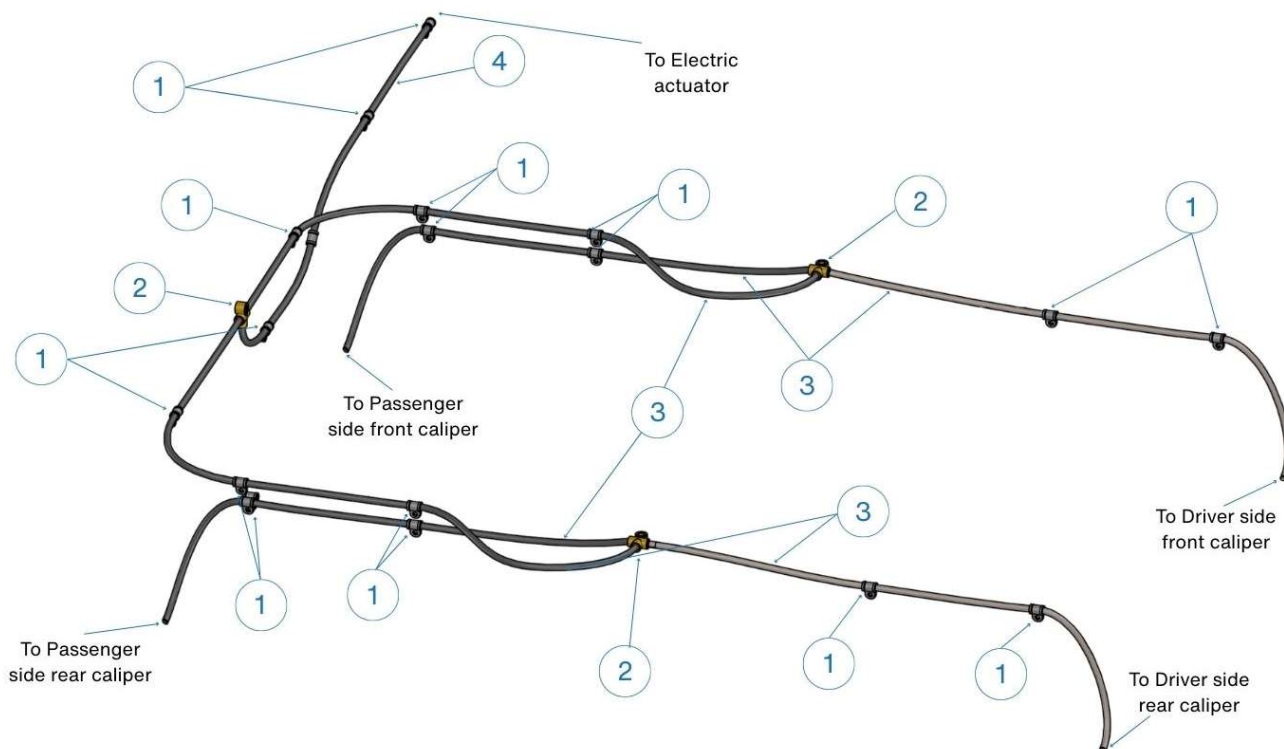
Tools required

- Installation manual
- Appropriate fasteners for clamps and connector blocks to chassis
- General tools and torque wrench

⚠ Precautions prior to Installing Brake Hoses and Lines to a Trailer or Caravan Chassis

- Ensure the trailer or caravan is securely supported on appropriately rated stands before working underneath.
- Always maintain a clean work area to prevent contamination of brake components.
- Inspect all brake hoses and rigid lines for damage, corrosion, cracks, or manufacturing defects prior to installation. Do not install any defective components.
- Ensure all fittings, hoses, and lines are clean and free from dirt, moisture, and debris before assembly.
- Use only new, uncontaminated brake fluid of the correct specification.
- Keep all protective caps and plugs in place until immediately prior to installation.
- Use this document as a guide for routing brake hoses and lines.
- Route brake lines to avoid sharp edges, moving parts, heat sources, and potential pinch points.
- Maintain adequate clearance from suspension components, tyres, and diesel heater exhaust systems.
- Avoid tight bends and adhere to the minimum bend radius requirements to prevent restriction or premature fatigue.
- Ensure all threads are clean, undamaged, and free from contaminants before assembly.
- Tighten all connections to the specified torque settings. Do not over-tighten.
- Do not use thread sealants unless specified by the manufacturer.

Component overview



Number	Part number	Quantity	Description
1	03-602-1	19	P-Clamp 8mm diameter
2	08-519-3	3	Brake line fitting – T-Piece
3	08-508-3	6	Brake line – 1200mm
4	08-513-3	1	Brake line – 2500mm

Additional components and materials required

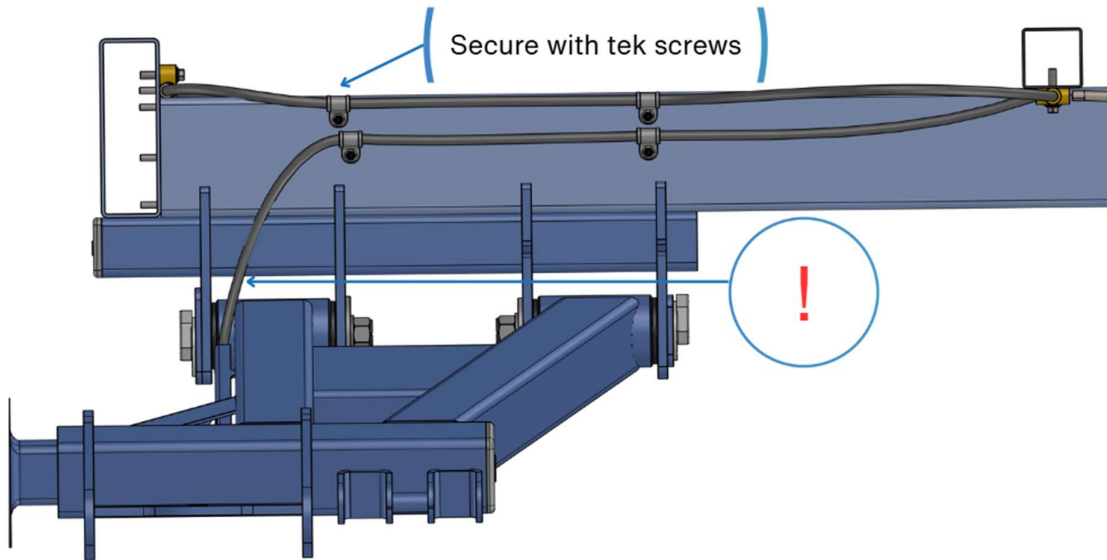
- DOT4 Brake fluid
- Appropriate fasteners for P-Clamps and connector blocks

Specifications

- Minimum brake hose/line bend radius: 30 mm
- Brake fittings torque specification: 2.75 N.m



Securing the brake lines

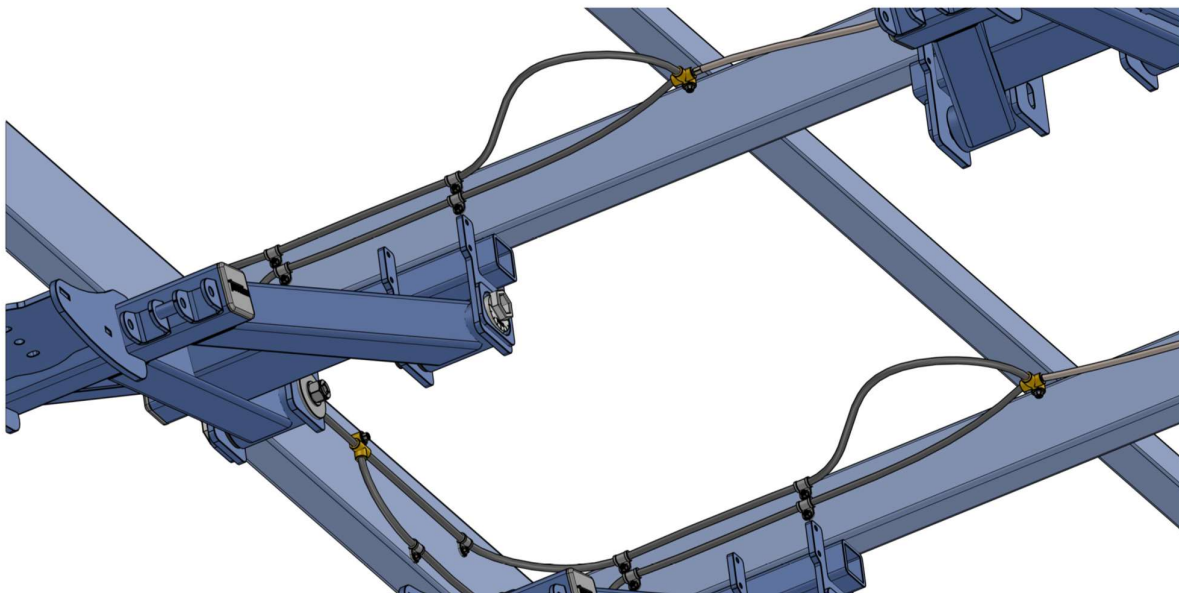


Secure the brake lines with the supplied P-Clamps to the chassis.

⚠ Secure the brake line to the suspension control arm, ensuring that it does not contact the coil spring or airbag.

⚠ Install flexible hoses so they can accommodate full suspension travel without stretching or rubbing against surrounding components.

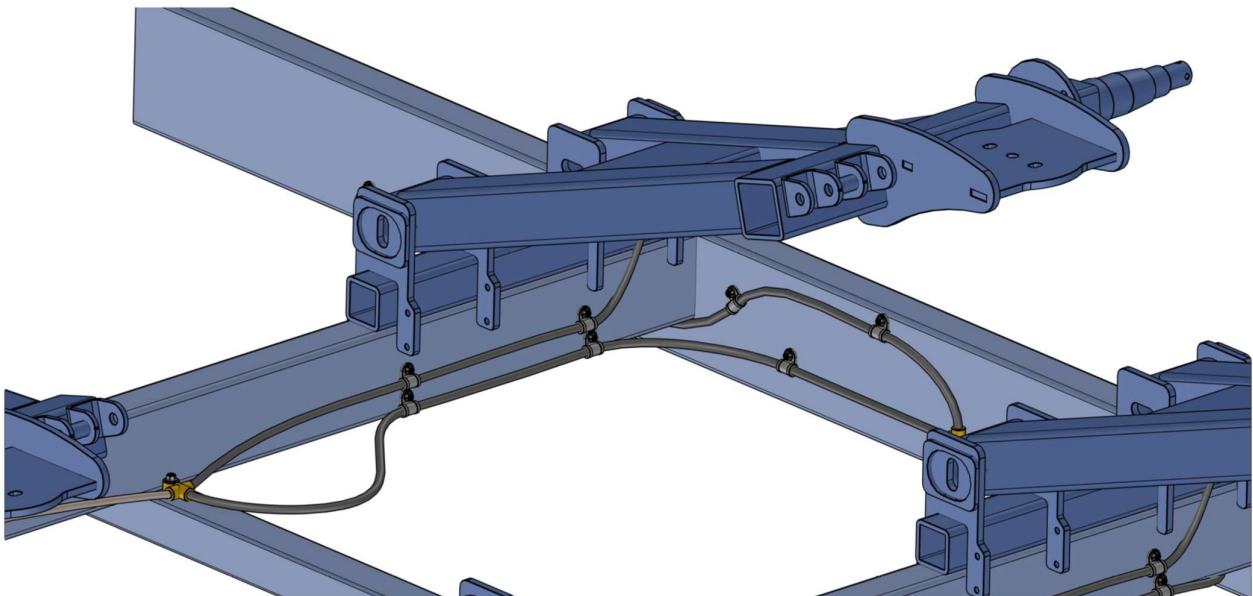
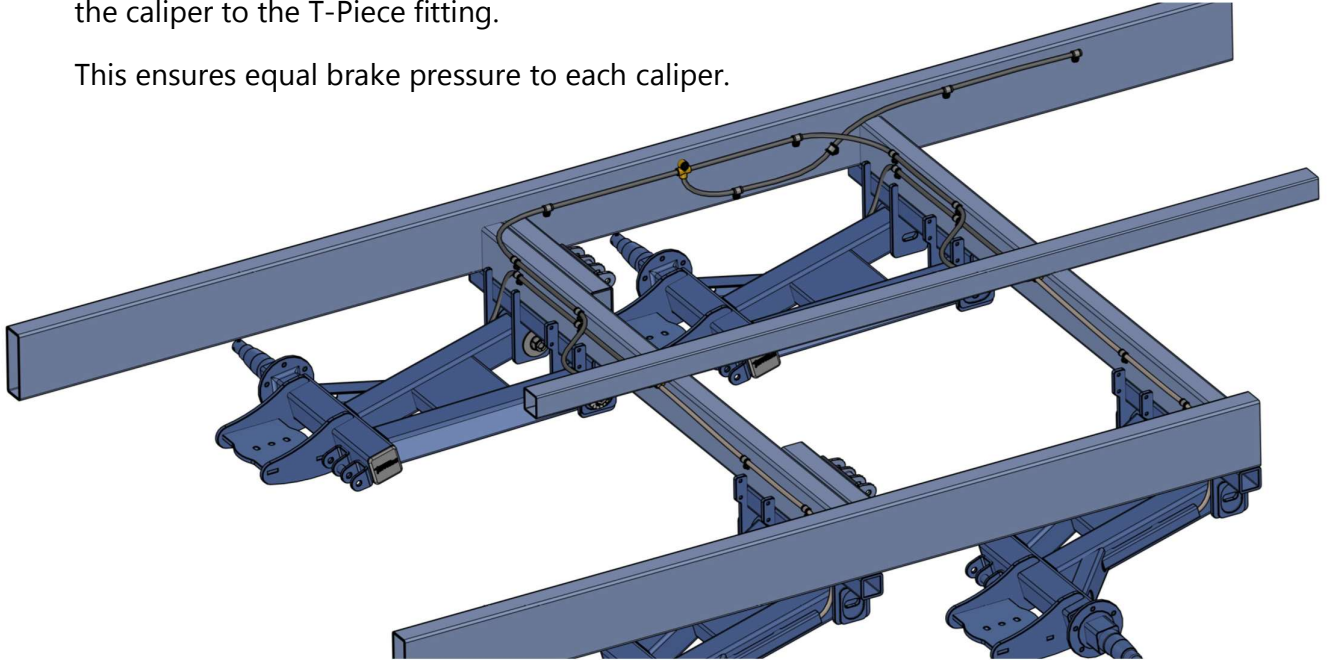
Tandem brake line routing

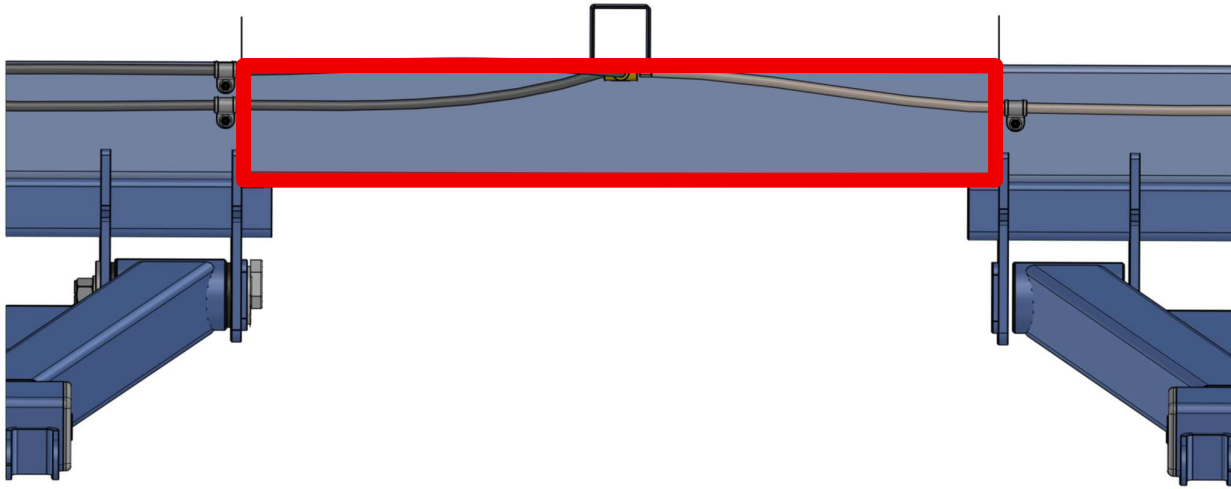




⚠ Important: The brake line from each brake caliper must be the same length from the caliper to the T-Piece fitting.

This ensures equal brake pressure to each caliper.





⚠ IMPORTANT: Do not drill or fasten screws within the red boxed area shown above. This restriction also applies to the opposite side of the beam. Failure to comply may result in structural weakening and potential cracking. The T-Piece fitting must be secured to the North/South floor support member.



Post installation requirements

After installation of all brake components, all air must be removed from the brake lines by thoroughly bleeding the braking system.

During the bleeding procedure, all fittings and components must be inspected for leaks. If any leaks are identified, they must be repaired before continuing with the bleeding process.

Ensure the brake reservoir remains full during the bleeding procedure to prevent additional air ingress.

Top up the brake fluid reservoir after final bleeding and prior to handover.