



## BANUR DRIVING SCHOOL LTD.

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12511 82 Ave, Surrey, BC V3W 3E8

## SLIDING TRAILER AXLES PROCEDURE

# SLIDING TRAILER AXLES ADJUSTMENT PROCEDURE

Step-by-Step Procedure • Professional Reference • Banur Driving School Ltd.

FLOW: Park & Prepare → Release Pins → Slide Axle → Relock Pins → Verify & Test

STEP

1

## PARK & PREPARE

*Position the vehicle safely before adjusting the axle*

### POSITION THE VEHICLE

1. Park the vehicle in a straight line on level, stable ground.
2. Set tractor and trailer parking brakes.
3. Drain trailer air suspension, if required.



**SAFETY FIRST:** Never attempt to slide the trailer axle on uneven, sloped, or soft ground. The vehicle must be straight to prevent binding of the slide mechanism.

STEP

2

## RELEASE LOCKING PINS

*Disengage all locking pins before moving the axle*

### EXIT CAB & RELEASE PINS

1. Exit the cab.
2. **Release locking pins:** Pull the release handle to disengage the locking pins from the subframe holes.
3. **Confirm all pins are disengaged:** Visually check that all locking pins are fully retracted (unlocked) and clear of the subframe. Do not proceed if any pin remains engaged.



**Critical Check: All pins must be fully retracted**

*A partially engaged pin will bind or shear during sliding. Inspect each pin individually before returning to the cab.*

STEP

## SLIDE THE AXLE

*Move the tractor to reposition the trailer axle to the desired location*



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### 3

#### ENTER CAB & MOVE THE VEHICLE

1. Enter the cab.
2. **Release tractor parking brakes only:** Leave the trailer brakes set this holds the trailer while the tractor moves the axle.
3. **Engage inter-axle diff. lock, if required:** Engage the inter-axle differential lock to ensure even traction during the slide.
4. **Gently pull forward or backward:** Move the tractor slowly in the required direction to slide the axle to the correct position. Watch mirrors closely.
5. Set tractor parking brakes and exit the cab.



**IMPORTANT:** Move slowly and gently. Sudden or aggressive movement can cause the axle to travel past the desired position or damage the slide mechanism.

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#### STEP

### 4

## RELOCK THE SLIDE PINS

*Engage all locking pins and confirm they are fully seated*

#### ENGAGE THE LOCKING PINS

1. **Relock the slide pins:** Push the locking pin release handle back to the locked position. The pins should spring into the subframe holes.

#### VERIFY PIN ENGAGEMENT

1. Enter the cab.
2. **Release tractor parking brakes only:** Leave trailer brakes set.
3. **Move vehicle gently:** Slowly pull forward or push backward a short distance to allow the pins to fully seat into the subframe holes under load.
4. Set tractor parking brakes and exit the cab.
5. **Visually check all pins:** Confirm every pin is fully extended and properly engaged (locked) in the subframe holes. No pin should appear retracted or partially seated.

#### STEP

### 5

## FINAL CHECKS & TUG TEST

*Confirm air lines, pin security, and complete the tug test*

#### VISUALLY CHECK AIR LINES



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## SLIDING TRAILER AXLES PROCEDURE

- 1. Check air line position:** Visually inspect the air lines along the trailer frame. Ensure they are not kinked, caught, or at risk of being damaged in the new axle position.
- 2. Secure air lines if required:** Re-clip or re-tie any air lines that have shifted out of their brackets or are hanging loosely after the axle slide.

### RESTORE SYSTEMS & PERFORM TUG TEST

1. Enter the cab.
- 2. Release tractor parking brakes:** Disengage the inter-axle differential lock, if it was engaged.
- 3. Recharge trailer air suspension:** If the trailer air suspension was drained in Step 1, allow it to fully recharge before proceeding.
- 4. Perform tug test:** Apply tractor brakes only. Slowly pull forward against the locked trailer brakes to confirm the axle pins are securely locked and the axle assembly is stable.



#### **Tug Test Result: No axle movement = Pins locked**

*If any movement is detected in the axle during the tug test, stop immediately and repeat Steps 2–4 before operating the vehicle.*



**FINAL REMINDER:** Always confirm the axle position complies with bridge law weight distribution requirements for your load before departing. Re-check after the first stop.

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### QUICK REFERENCE SUMMARY

- Step 1:** Park straight on level ground • Set all brakes • Drain trailer air suspension if required
- Step 2:** Exit cab • Release locking pins • Confirm ALL pins are fully disengaged
- Step 3:** Release tractor brakes only • Engage diff. lock if needed • Slide axle gently
- Step 4:** Relock pins • Roll vehicle slightly to seat pins • Visually verify all pins engaged
- Step 5:** Check & secure air lines • Recharge suspension • Perform tug test • Confirm no axle movement