



SETTING FRONT TIRES

PROBLEM: **Correct setting of front tires**

Tractors with mid-mount rotaries, flails or booms need the front tires set to have as much steering possible throughout the full range of motion.



TOOLS NEEDED

- JACK
- JACK STANDS
- WRENCH TO FIT STEERING STOP BOLTS
- TORQUE WRENCH
- SOCKETS TO FIT LUG NUTS OR BOLTS



TRACTOR MODEL OR ATTACHMENT

All tractors with mid-mount attachments



SAFETY:

Carefully support the tractor with jack stands whenever a tire is removed from the tractor.

STEP BY STEP INSTRUCTIONS ARE ON THE FOLLOWING PAGE

CORRECT SETTING OF FRONT TIRES



STEP 1:

- Determine how the wheels and tires need to be positioned in order to have the best range of motion and not contact the mainframe or hoses.
- Position the centerline of the tire near the pivot point of the axle. This will give greater clearance between the tire and the mainframe or tank.
- Some tires will not have to be moved.
- Always re-torque lug nuts to manufacturer's specifications.



Possible wheel center position

STEP 2:

- Use a crane or other lifting device to safely support the tractor.
- Lift one side of the front axle until it contacts the axle stop, or from a solid point on the front of the tractor.
- Raise the front end enough that the axle will swing or oscillate from stop to stop.



Oscillate to the bump stops

STEP 3:

- Turn the steering wheel left and right from lock to lock.
- Watch for places that the tire might hit on both sides in all possible positions.



Clearance between tire and hose

**FOR MORE INFORMATION, CALL OUR WARRANTY/SERVICE TEAM AT
(605) 977-3300 OR TOLL FREE AT (888) 960-0364
OR EMAIL WARRANTY@DIAMONDMOWERS.COM**



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STEP 4:

- If contact occurs, limit the steering with the steering stop bolts.
- An alternative is limiting the oscillation. To do this, bridge the gap between the frame and the axle with an oscillation stop.



Steering and oscillation stop location

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