

JOY RIDER 2

PLUM BOB, TAPE MEASURE

Benefits:

1. Align axles to kingpin or coupler.
2. Can be used to spread axles for more clearance between tires.
3. Increases tire life.
4. Help reduce tire sidewall heating.
5. Adjusts up to 1/2 inches front to back, in 1/8 "increments.
6. Increases fuel mileage by not dragging misaligned tires.
7. Helps keep trailer straight when braking.

***READ ALL INSTRUCTIONS BEFORE STARTING INSTALLATION.**

Using a Plum Bob and Tape Measure:

Front Axle

1. Trailer must be on a level surface side to side and front to back before starting installation and doing measurements.
2. Make sure tires are properly inflated.
3. If your trailer was backed in then pull forward 1 foot to align to the towing mode.
4. Level trailer front-to-back using only the front jacks.
5. Measure from ground to the center tread of the front tires about 12 inches up and make a mark on both front tires.
6. Drop Plum Bob and mark spot on ground.
7. Measure from plum bob mark on ground to the mark on the front center of tire. Do the same and other side
8. Record these measurements for future use. (**Record measurements in the area provided on last page.**) Some trailers weigh more on different sides, allowing the springs to spread apart, and causing misalignment.
9. Measure from the right front center hub cap to the right rear hub cap Record the measurements. Do the same for the left side.
10. Check measurements for misalignment.
11. Check measurements and note which side of the axle needs to be moved forward or rearward. You will want to bring the left and right side of the axle into the same measurement from the king-pin or ball coupler.

TRIPLE AXLE REAR 2 AXLES

1. Measure between front hub cap and 2nd hub cap using a tape measure.
2. Measure between front hub cap and 3rd axle hub cap
3. Repeat on other side recording all measurements
4. Check measurements and note which side of the axle needs to be moved forward or rearward.
5. **Note: We recommend inspecting all shock absorbers, spring eyes, shackles and the equalizer for wear. This is a good time to do a brake inspection.**
6. **Be Sure to: Replace all inserts (plastic or bronze bushings) in the equalizer and springs with the new NeverFail© bushings. This will increase the life of the alignment correction by preventing premature suspension system parts deterioration. Bad bushings can cause a bad alignment.**
7. **DO NOT GREASE THE NEVER FAIL BUSHINGS THIS WILL CAUSE THEM TO FAIL. THEY ARE MADE TO NEVER NEED ANY MAINTENANCE.**

ALIGNMENT OF YOUR AXLES

Support trailer with jacks that are rated to carry the load of the trailer.

On U-Bolts that the nuts are facing downward you will need to support the axles.

If U-Bolts nuts are facing up you can remove U-Bolt nuts and remove gear hold down plate.

Loosen spring adjustment bolts to the desired length using a tape measure. If you want to move $\frac{1}{4}$ inch then loosen to $\frac{1}{4}$ inch in direction you want to move axle.

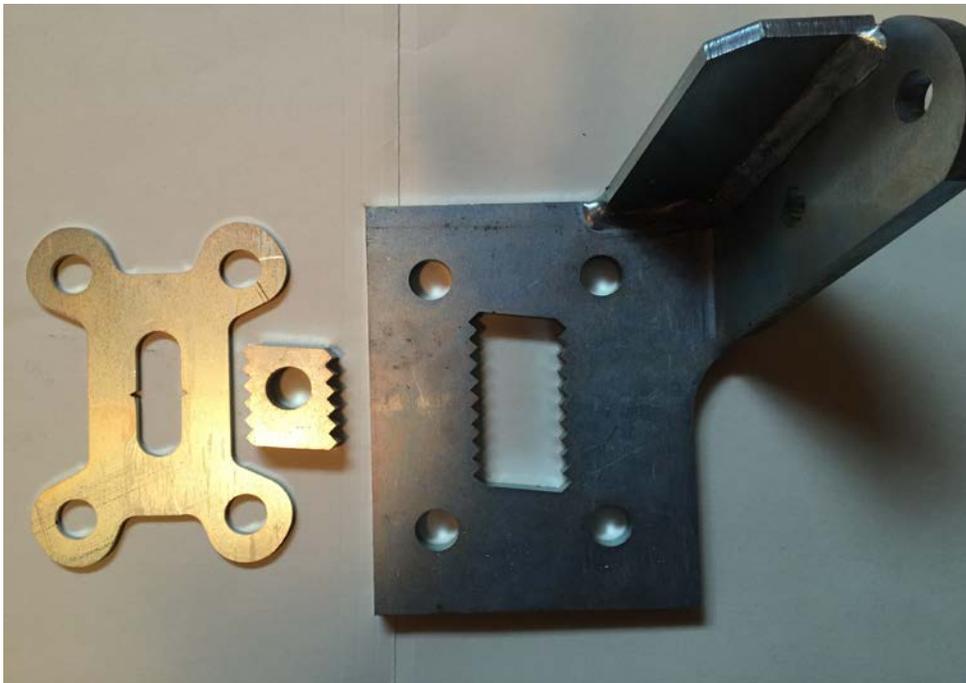
Remove gear and move axle forward or backwards using ratchet strap. Wrap around axle and attach to back axle and pull axle to the desired location.

If moving the axle forward attach strap to a solid part of the frame that will support but will not bend.

Tighten spring adjustment bolts to hold axle from moving front to back. Tighten jam nuts.

Reinstall the gear in slot. If the gear will not fit flip over and try and installing. Flipping gear over will either go $\frac{1}{8}$ or $\frac{1}{4}$ inch.

Tighten all U-Bolts to Axle MFG Recommendation. Most torques will be between 45 and 90 foot pounds. Do not over tighten axles you may bend axle tubes.



Verify Alignment

1. After trailer is back on the ground pull forward 1 foot to set the towing mode.
2. Level trailer front to back using only the front jacks.
3. Measure from ground to the center tread of the front tires about 12 inches up and make a mark on both front tires on center tread.
4. Drop Plum Bob and mark spot on ground.
5. Measure from plum bob mark on ground to the mark on the front center of tire. Do the same on other side.
6. Record these measurements for future use. (**Record measurements in the area provided on last page.**) Some trailers weigh more on different sides, allowing the springs to spread apart, and causing misalignment. Measure from the right front center hub cap to the right rear hub cap Record the measurements. Do the same for the left side.
7. Check measurements and note which side of the axle needs to be moved forward or rearward. You will want to bring the left and right side of the axle into the same measurement from the king-pin or ball coupler.
8. If measurements are with-in 1/8 inch this is OK.

Record Measurements for future references.

1. Kingpin or coupler to front right axle with weight on axles. _____
2. Kingpin or coupler to front left axle with weight on axles. _____
3. Front axle to rear axle right side with weight on axles. _____
4. Front axle to rear axle left side with weight on axles. _____

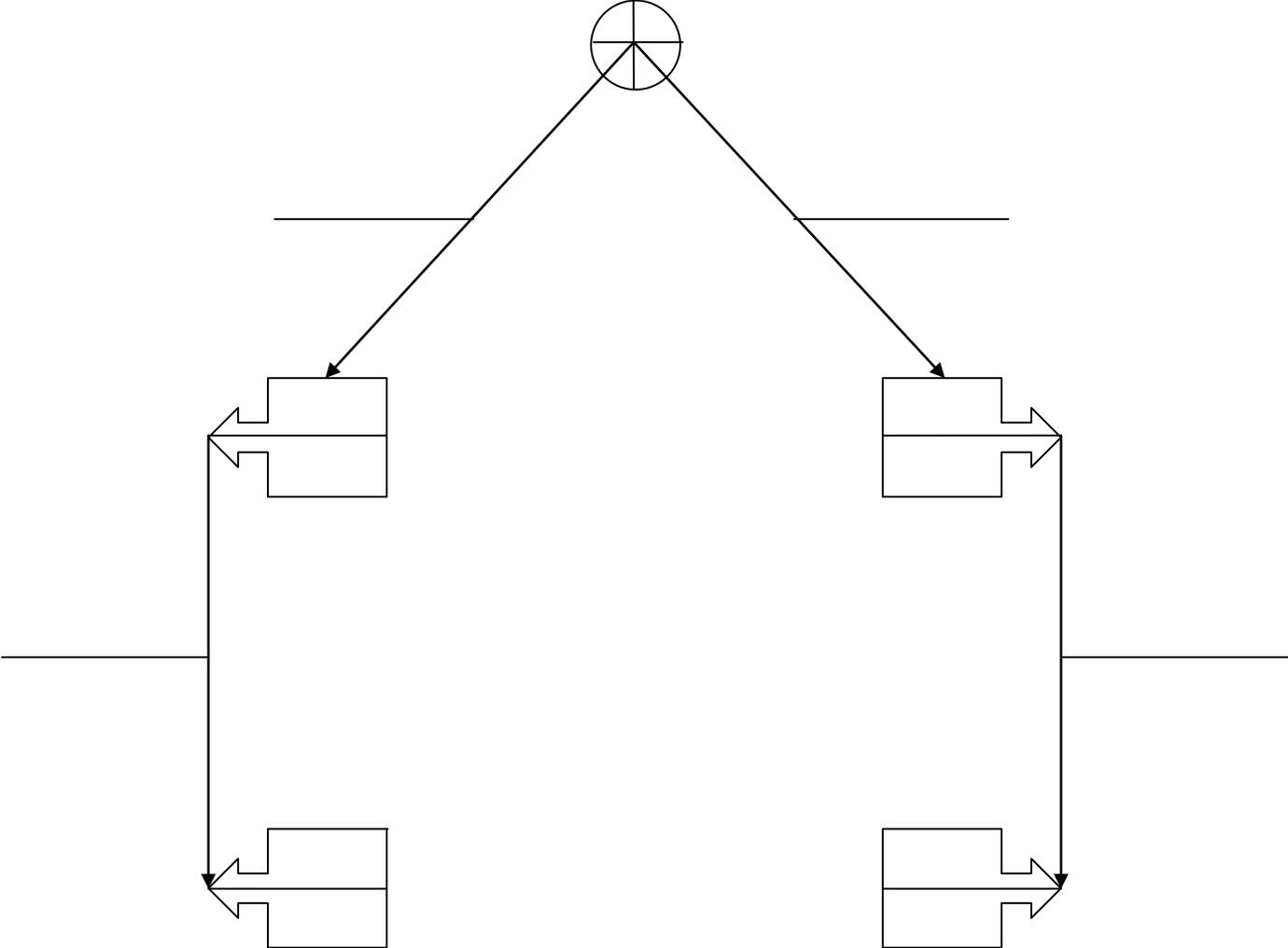
Measurements of new Correct Track II System

5. Kingpin or coupler to front right axle with weight on axles. _____
6. Kingpin or coupler to front left axle with weight on axles. _____
7. Front axle to rear axle right side with weight on axles. _____
8. Front axle to rear axle left side with weight on axles. _____

For technical help call Sonny @ 574-370-4515 7 to 7 EST 7 days a week

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Work sheet



Notes