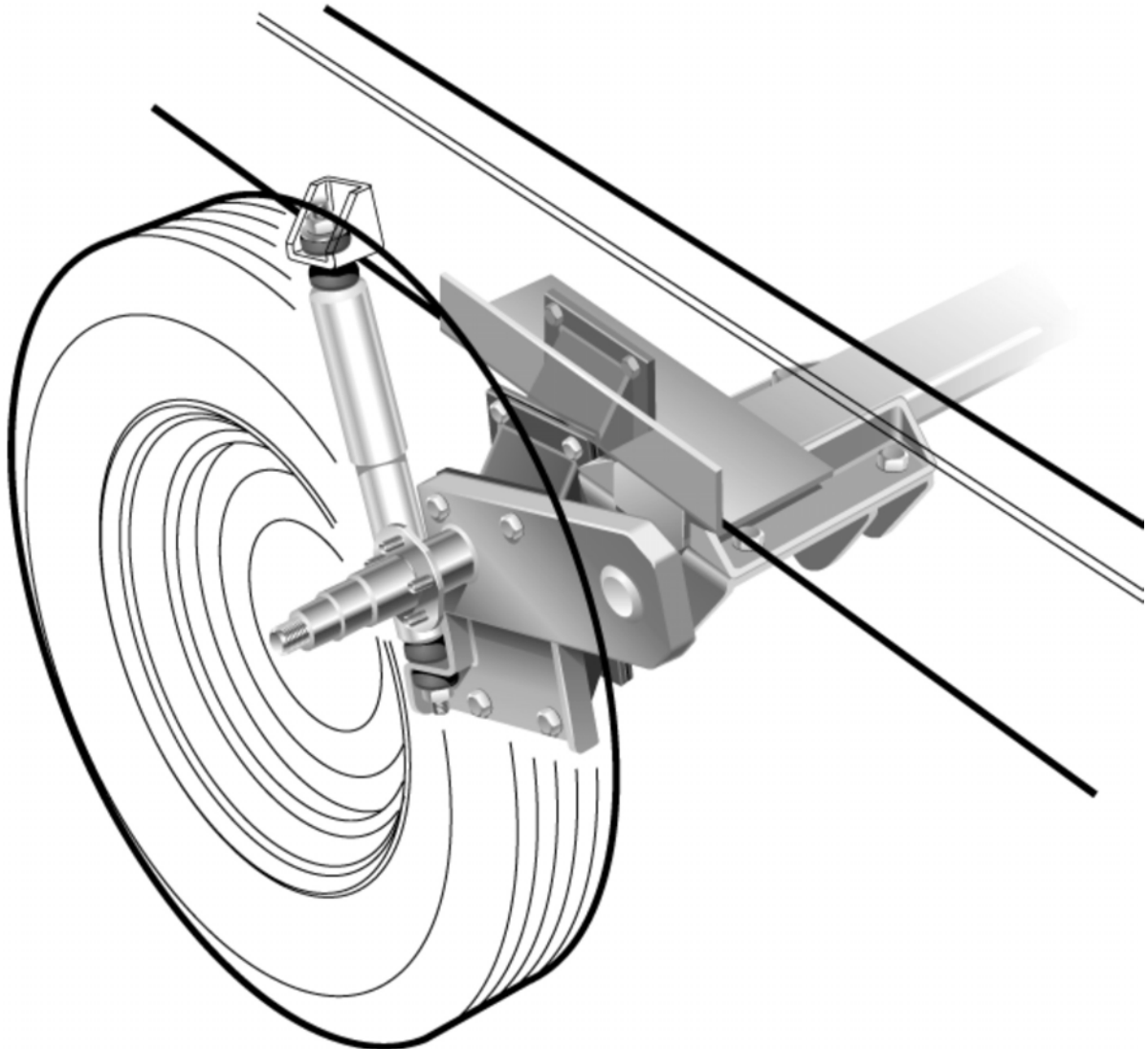




Above. Beyond. Always.

Independent Suspension System Alignment Guide



INTRODUCTION

DESCRIPTION

The MORryde "IS" Independent Rubber Suspension System uses 100% Natural Rubber Springs to support the trailer weight and absorb road shock. By absorbing the shock, the rubber provides a much smoother towing experience than steel leaf springs. With the new MORryde "IS" Independent Rubber Suspension System, there are no more broken leaf springs! The towing is virtually hassle-free with the smoothest towing available for fifth wheels and travel trailers.

The Primary benefits that you can expect from the MORryde "IS" suspension are:

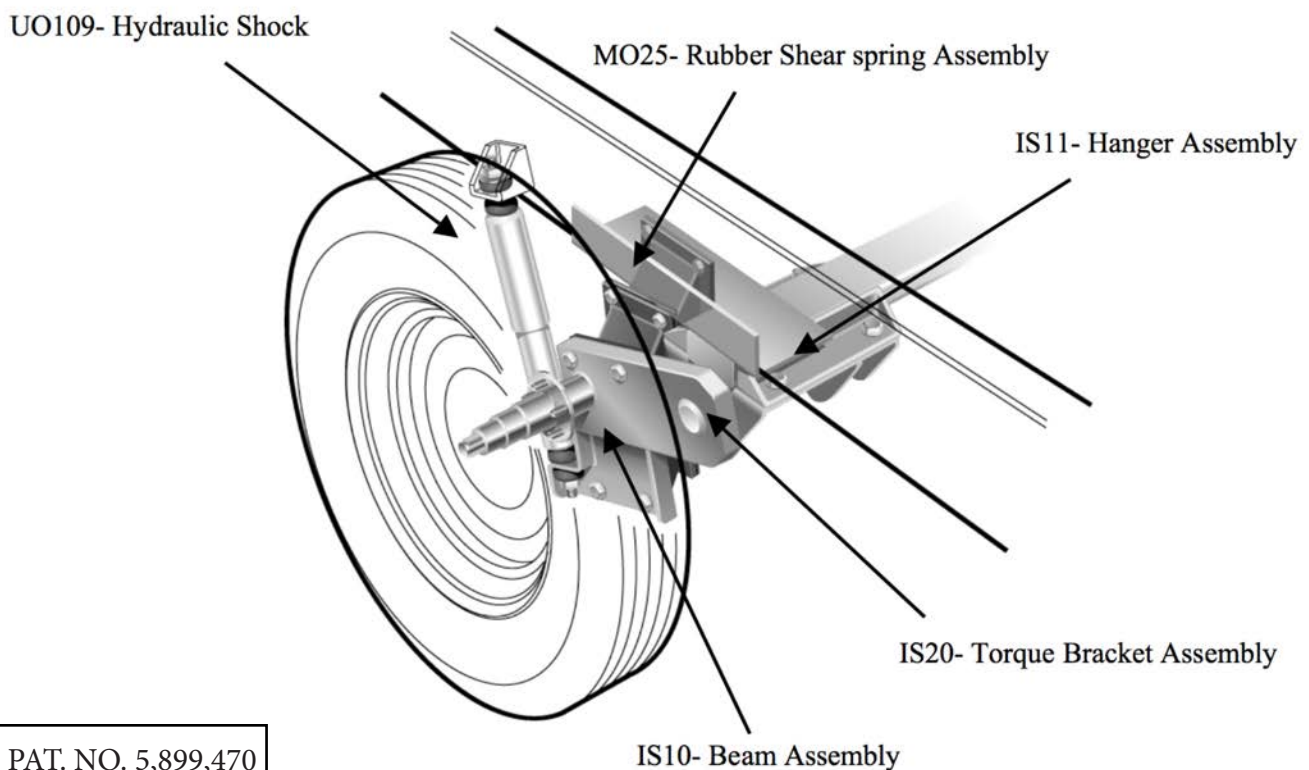
SMOOTHER TOWING - the MORryde suspension has up to 2 1/2 times the suspension travel of leaf springs or rubber axles, allowing the MORryde suspension to absorb road shock much better.

IMPROVED TOWABILITY - the MORryde suspension is designed to "block" body roll, improving the cornering and stability of the tow vehicle and trailer combination.

AUTOMOTIVE STYLE ALIGNMENT - a MORryde first! You can manage your tire wear through toe and camber adjustments, a feature no other towable suspension offers!

HEIGHT ADJUSTABILITY - the MORryde suspension can be adjusted easily to accommodate different tow heights and to compensate for side-to-side load variations.

PROVEN DURABILITY - the MORryde suspension has undergone strenuous testing to prove it's durability. The result? No more broken leaf springs!



U.S. PAT. NO. 5,899,470

ALIGNMENT PROCEDURES

The design of the MORryde Independent Suspension System allows for automotive style toe and camber wheel alignment. This allows the operator of the RV to effectively manage tire wear under normal towing conditions. There are four bolts and one torque bracket per wheel that allow for these adjustment. Refer to the directions below for proper tow and camper procedures.

NOTE: Always adjust the camper first followed by the toe.

ALIGNMENT SPECIFICATIONS

Camber (+0.5 degrees to +0.8 degrees)

Toe (+0.01 inches to +0.06 inches)

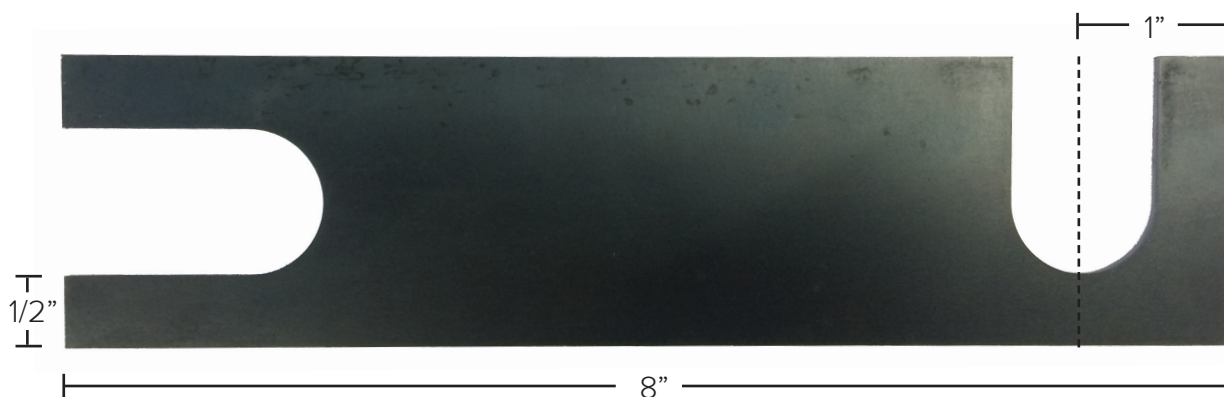
ADJUSTING CAMBER

1. Connect the alignment machine and level the unit on the alignment turntables.
2. Loosen the four torque bracket bolts
3. If the camber is negative, add a shim(s) to the outside of the torque bracket.
4. If the camber is positive, add a shim(s) to the inside of the torque bracket.
5. A 1/4" shim will change the camber approximately 1 degree.
6. Tighten torque bracket bolts.

NOTE: The unit will need to be raised to add camber.

CAMBER SHIM SPECIFICATIONS

Shims are available in three sizes: 1/4", 1/8", and 1/16"



ADJUSTING TOE

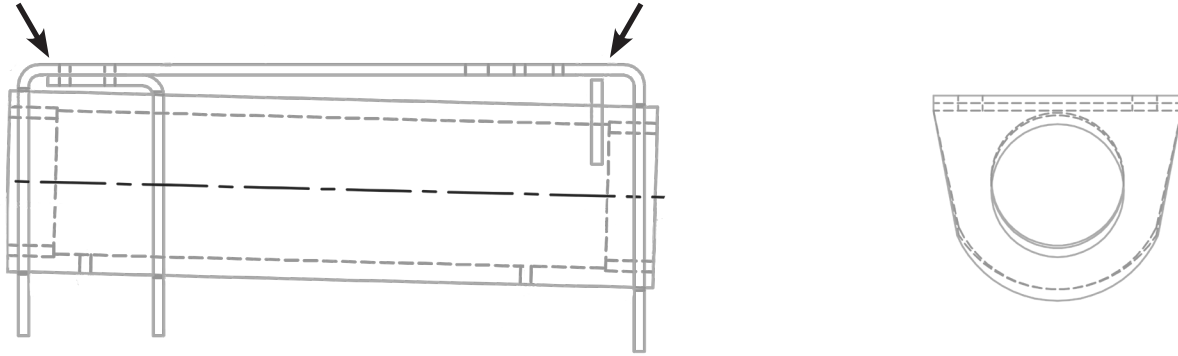
1. Connect the alignment machine and level the unit on the alignment turntables.
2. Loosen the four torque bracket bolts.
3. Adjust the torque bracket assembly to obtain the correct toe readings on the alignment machine.
4. Tighten the torque bracket bolts.

NOTE: Toe adjustments can be eased by the use of a "port-a-power" or large adjustment bar.

TORQUE BRACKET ALIGNMENT

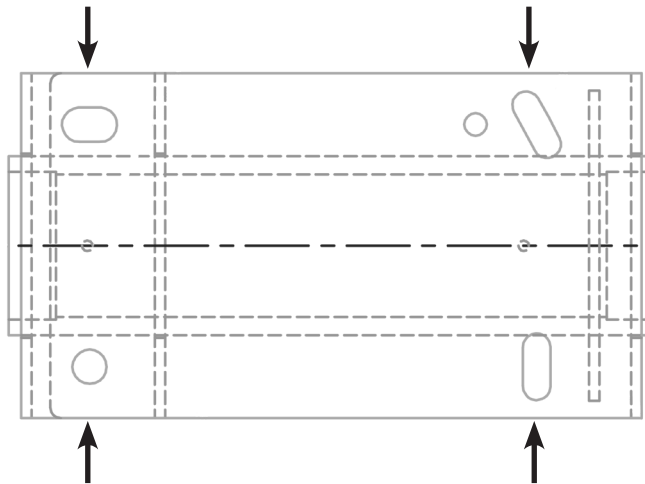
ADJUSTING CAMBER

1. Loosen highlighted bolt and nut assembly.
2. Add shims to the inside or outside of the torque bracket to achieve proper camber alignment.
3. Tighten 1/2" bolts to 60 ft-lbs.
4. Tighten 3/4" bolts to 180 ft-lbs.



ADJUSTING TOE

1. Loosen highlighted bolt and nut assembly.
2. Adjust torque bracket side to side to achieve proper toe alignment.
3. Tighten 1/2" bolts to 60 ft-lbs.
4. Tighten 3/4" bolts to 180 ft-lbs.



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