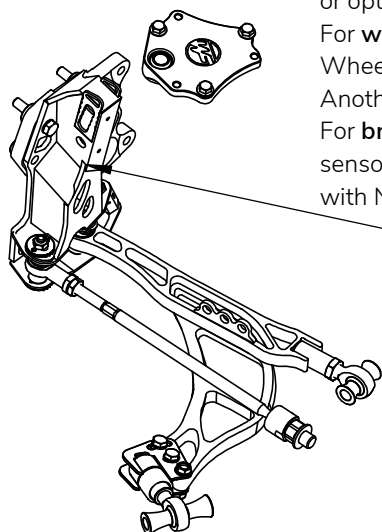


Ford Mustang S550 Front Lock Kit

This kit fits Ford Mustang S550 with electric steering rack or optionally with S197 hydraulic rack if Wisefab Rack Conversion (WF559) is used. For **wheel bearing** use the S550 Mustang Magnaride or Shelby bolt-on front wheel bearing. Wheel bearing part no FR3Z-1104-F (GT350/Magnaride) or FR3Z-1109-A (GT500, extra long studs). Another option is to use Nissan 370Z front wheel bearing with the supplied fitting kit. For **brakes** use Mustang S550 front brakes. For **wheel speed sensor** use Magnaride or Shelby speed sensor (JR3Z-2C205-B and JR3Z-2C204-B) with supplied 5mm spacer. Speed sensor **will not work** with Nissan bearing.



Overall view of assembled components in the right corner

All lengths (exc. tie rod) are pre set by Wisefab. No need to adjust before alignment.

Installing the Lower Arm and adjusting Caster

Install control arm with stock bolts, we recommend using new ones. Caster can be adjusted from the lower control arm with the Double Adjuster. Install the control arm so that the tie rod sits above the control arm.

How to adjust Double Adjuster

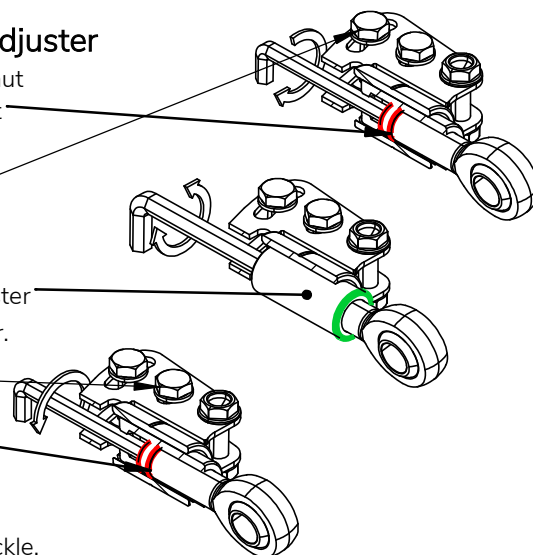
Step 1. Loosen rodend locking nut with **8mm Allen** key by turning it counter clockwise.

Step 2. Slightly loosen the three pinch bolts

Step 3. Turn Double Adjuster with **10mm Allen** key. Turning it counter clockwise will make the Double Adjuster assembly longer, turning it clockwise will make it shorter.

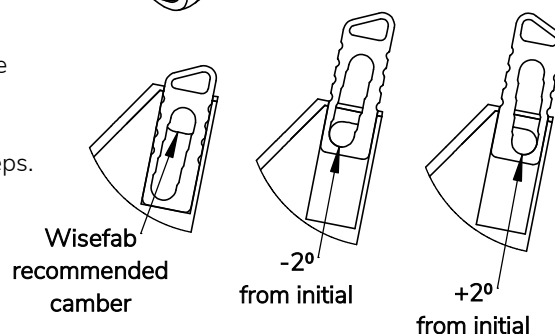
Step 4. Tighten the three pinch bolts

Step 5. Tighten rodend locking nut with **8mm Allen** key by turning it clockwise.



Camber adjustment

Camber is adjusted by moving the camber shim up or down in the knuckle. To adjust camber, loosen the shock absorber mounting bolts. When using stock Ford bolts with knurling on the shaft, the upper bolt has to be pushed out enough for the knurling to clear the camber shim. Total camber adjustment range from the knuckle is 4 degrees. With the shims in one position, camber can be adjusted by 2 degrees in five steps. Each step corresponds to a 0.5 degree camber change. To adjust camber in the opposite direction, turn the shims around.

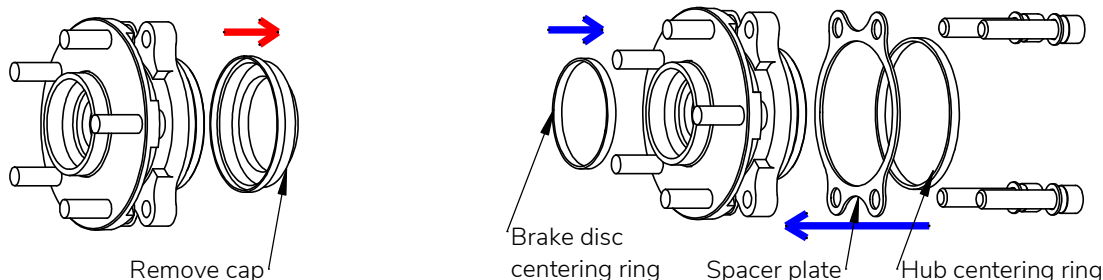


Installing 370Z wheel bearing

Step 1. Remove the stamped steel cap from the Nissan bearing.

Step 2. Press on the supplied centering rings and spacer plate in the order shown below.

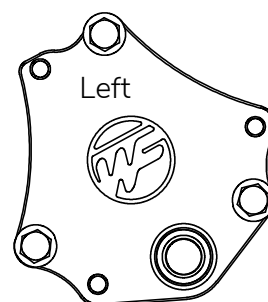
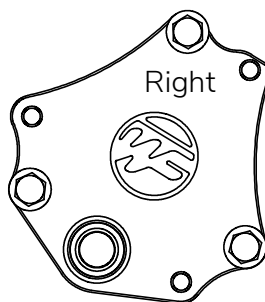
Step 3. Use the supplied M12x1.25 thread Allen bolts with washers to attach the bearing to the knuckle.



Installing the top mount

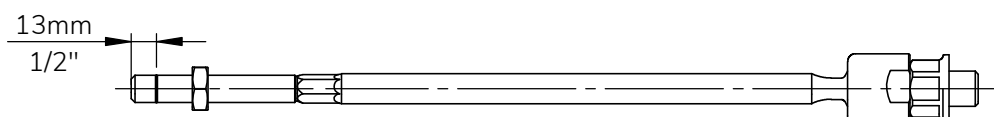
Top mount is the same for the right and left side.
Use different bolt holes for either side.
To fit the top mount, a hole must be cut into the strut tower for the shock absorber top nut.

On the right side, the **earth cable** that attaches to the strut tower has to be relocated and the welded nut inside the strut tower removed.



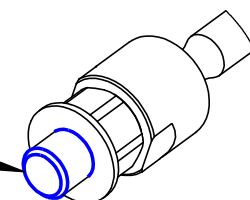
Tie rods

When toe-in or reverse ackermann is used, the tie rod must be shortened by 13mm or 1/2"



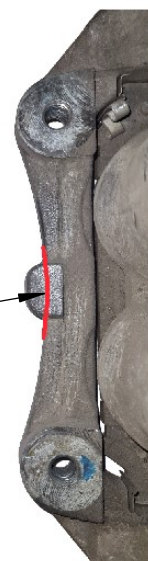
Installing rack spacer

Before installing the rack spacer use thread locker on the thread between the steering rack and spacer.



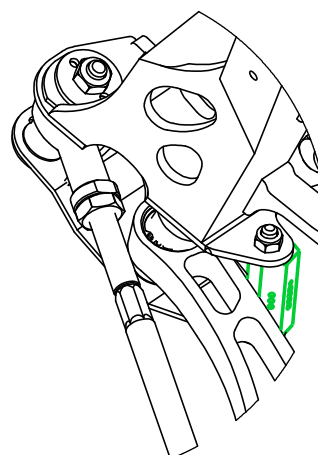
Brake caliper

If the base model 2-piston brakes are used, a small tab must be ground off from the caliper holder.



Lock stopper adjustment

WiseFab lock kits are equipped with hexagonal lock stoppers, where each side has a different offset. The more dimples, the less usable lock. When installing, make sure that the tie rod is not binding in any way.



Important

If the lock stopper is set, check the clearance between car body, suspension components and the wheel with tire in all range of the suspension travel. For that the spring needs to be removed. If there is clearance issues then limit the steering lock more, limit the suspension travel or change your wheel alignment.

Recommended alignment specs

Camber: -4°

Caster: 6°

Toe: if ackerman is 0 or negative, use 2mm toe-out,
if ackerman is positive, use 0mm toe.

Front track: 80 mm wider per side than OEM

Strut lenght (A) :

max: 530 mm

min: 410 mm

Wheel backspace (B) :

max 19": 156 mm

18": 150 mm

17": 147 mm

Some 17" wheels will not fit

