Steering Rack Overview

Oct 10, 2025

Important notes

- S3468 Steering rack to be used for Drag racing ***ONLY***
- Designed as a front steer rack (steering arms face towards the front) with slower control than our S3448
- See page 3 for pinion and clevis end adjustment
- If after reading, you have any questions or comments, please do not hesitate to call us.

Features

Steering rack and Pinion

- 1.12” of travel per pinion revolution
- 24.5” tie rod centers
- 20° horizontal pinion angle
- 9/16”-26 spline pinion - Same spline as Mustang/Pinto and fits steering U-joint made by Sweet Manufacturing Part #401-50613.
- 0° vertical pinion angle as shipped
- Pinion angle can be adjusted to 20˚ to 40˚
- 4.25”total rack travel (3.80 turns lock to lock)
- Mounting clamp centers -11.60”

Clevis Ends

-6061-T6511 billet aluminum
-Accepts 3/8” high misalignment rod ends HXAM-16T (RH threads) HXAB-16T (LH threads)
-Black anodzied finish

Mounting clamp - Pinion side

-6061-T6511 billet aluminum
-7/16”-14 bolt holes on 1.25” centers
-Black anodized finish

Mounting clamp - Opposing Side

-6061-T6511 billet aluminum
-3/8-16 bolt holes on 1.375” centers
-Black anodized finish

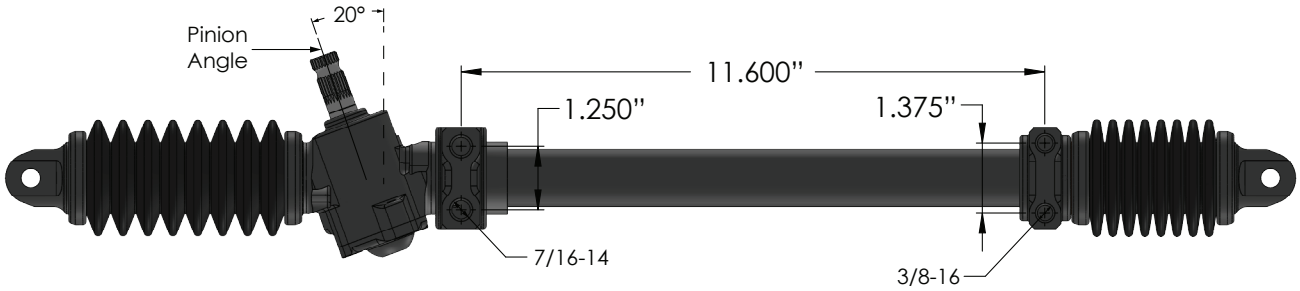
Housing Tube

-6061-T6511 billet aluminum
-Black anodized finish

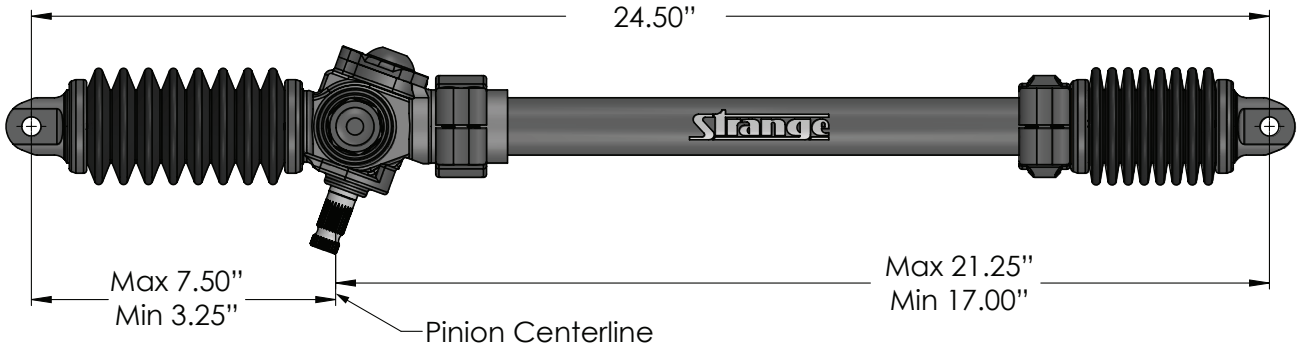
Pinion

-4140 premium alloy steel
-Heat treated for hardness

S3468 Steering rack mounting dimensions



S3468 Steering rack total travel

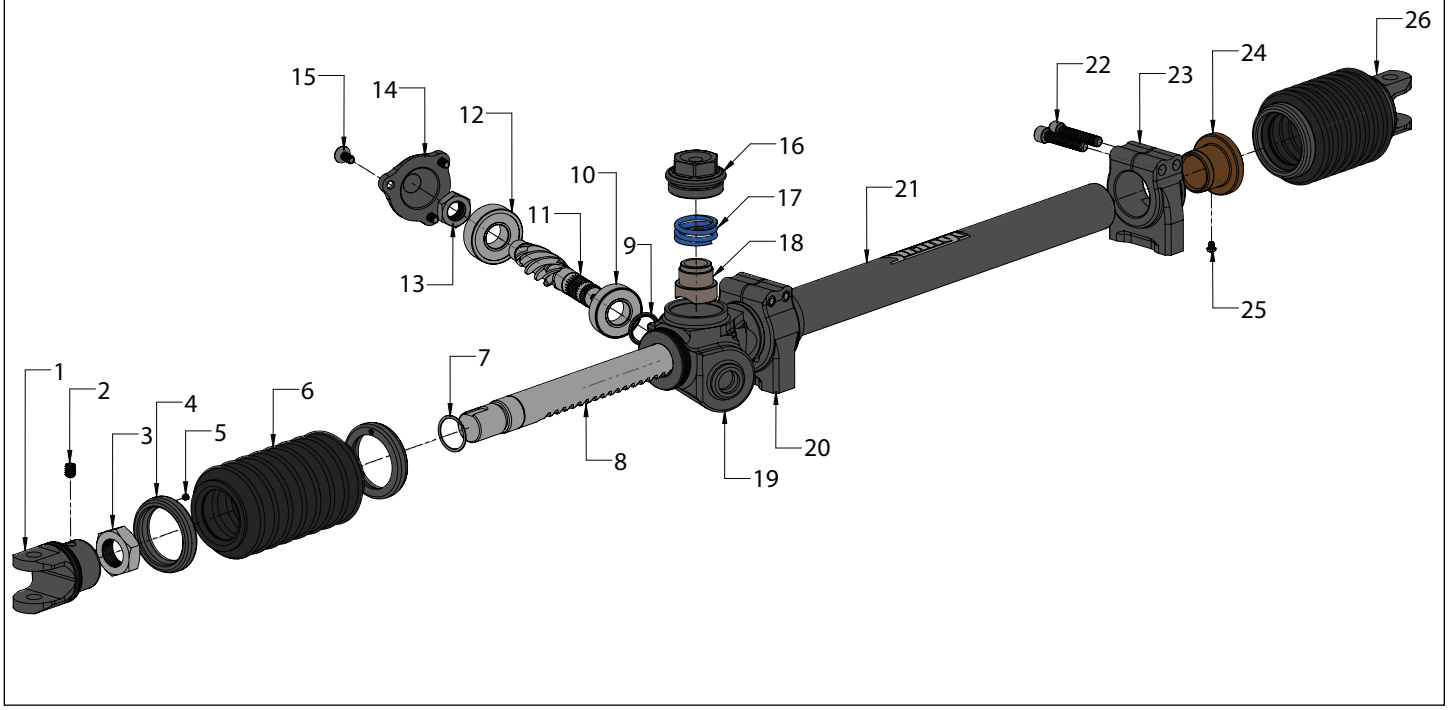


Steering Rack Parts List

S3468 Kit Contents

ITEM#	PART#	QTY	DESCRIPTION	ITEM#	PART#	QTY	DESCRIPTION
1	S3448K	1	End Clevis- St. Rack L	14	S3448F	1	Pinion Retainer Cap
2	S3448N	2	1/4-20 X 5/16 Set Screw SS	15	S3448O	3	10-24 x 1/2" FHS SS
3	S3400H	2	3/4-16 Nut - Clevis	16	S3448G	1	Preload Retainer Cap
4	S3448Q	4	Retainer Nut- Boot	17	S510E20	1	Preload Spring
5	SST158	4	6-32 X 1/8" Set Screw	18	S3448H	1	Preload Bushing
6	S3448U	2	2.18 OD x 6" Long Boot	19	S3448A	1	Steering Rack Housing
7	S3448T	2	VS-81 Smalley retainer	20	S3448I	1	Mounting Clamp "A"
8	S3448B	1	22.25" Round Rack Slow Ratio	21	S3448D	1	Rack Housing Tube
9	S3441O	1	O-ring #114	22	S3448M	4	1/4-20 X 1.25 SHCS SS (Locking)
10	S3448R	1	Bearing- 6002JEM SKF	23	S3448J	1	Mounting Clamp "B"
11	S3468C	1	Pinion Shaft - Slow Ratio	24	S3448E	1	Housing Bushing
12	S3448S	1	Bearing- 6202JEM SKF	25	S3448P	2	M3 x 4mm Stainless Steel Screw
13	H1135C	1	1/2-20 Flexlock Nut	26	S3448KR	1	End Clevis- St. Rack R

S3468 Steering rack assembly exploded view



Steering Rack Adjustments

Figure#1: Disassembly

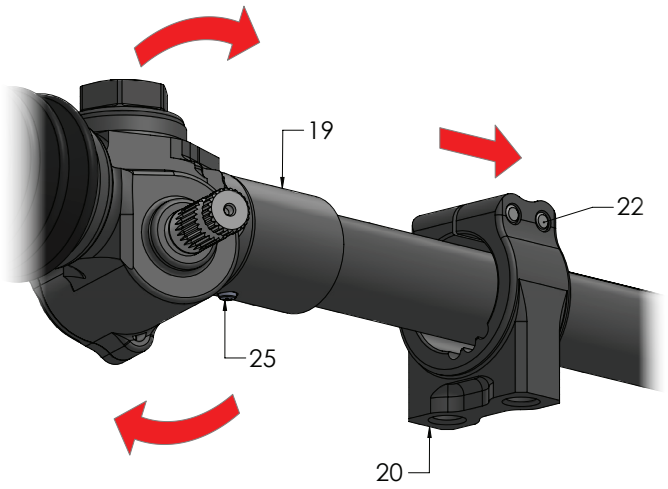
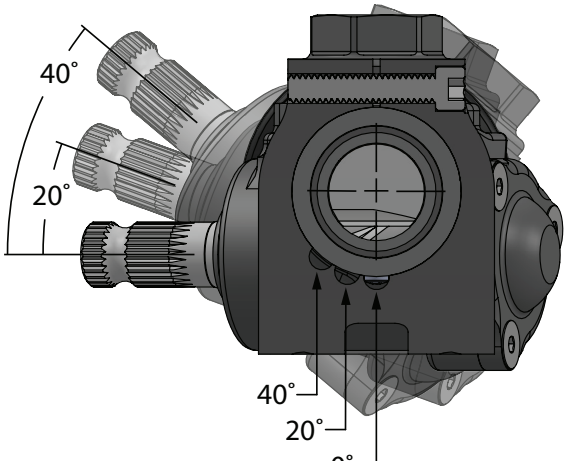


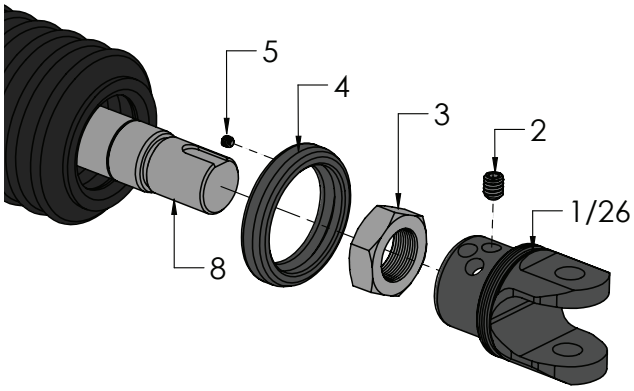
Figure #2: Housing Position



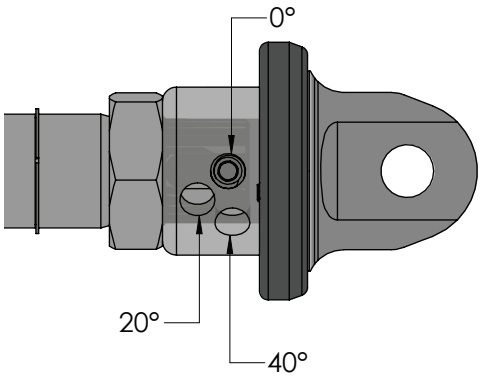
Steering rack housing adjustment

1. Loosen the screws (22) that are holding the mounting clamp (20) on the steering rack housing (19).
2. Slide the mounting clamps off of the steering rack housing.
3. Rotate the steering rack housing (19) to either the 0°, 20° or 40° position. (Figure 2)
4. Slide the mounting clamp back onto the housing and button head screw (25).
5. Retighten the screw to secure the mounting clamp to the housing.

Figure# 3: Clevis End Disassembly



Figure# 4: Clevis End Position



Driver's side shown

End Clevis adjustment

1. Loosen the set screw (5) attaching the boot (6) to the boot retainer nut (4) and unscrew the boot retaining nut from the clevis end. Pull away the boot and loosen the nut (3) from the clevis face.
2. Remove the set screw (2) inside the clevis end (1/26) and rotate the clevis end so that one of the holes shown in Figure 4 lines up with the keyway face on the steering rack (8). Reinstall the set screw. Secure the clevis by tightening the nut (3) firmly against the clevis face.
3. Retighten the boot retaining nut (4) onto the clevis end.
   Note: Apply some grease to the boot lip to smooth the tightening of the boot retaining nut.
4. Retighten the set screw (5) to lock the boot retainer nut in place.
   Note: After securing the clevis, a little up and down play is expected. This is due to the OE spring preload design of our rack (8). When pushing up & down on the rack the preload spring (17) force is overcome, allowing the bushing (18) on the rack a little play.