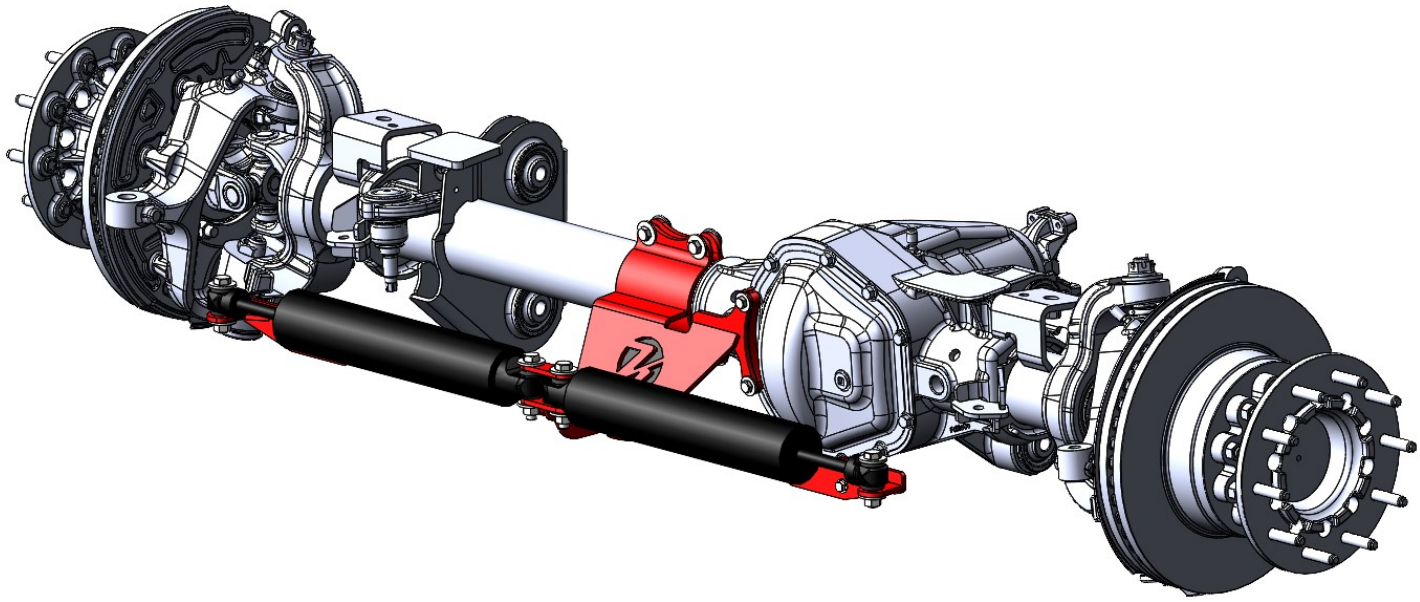
Version 1.5

Part # 69170

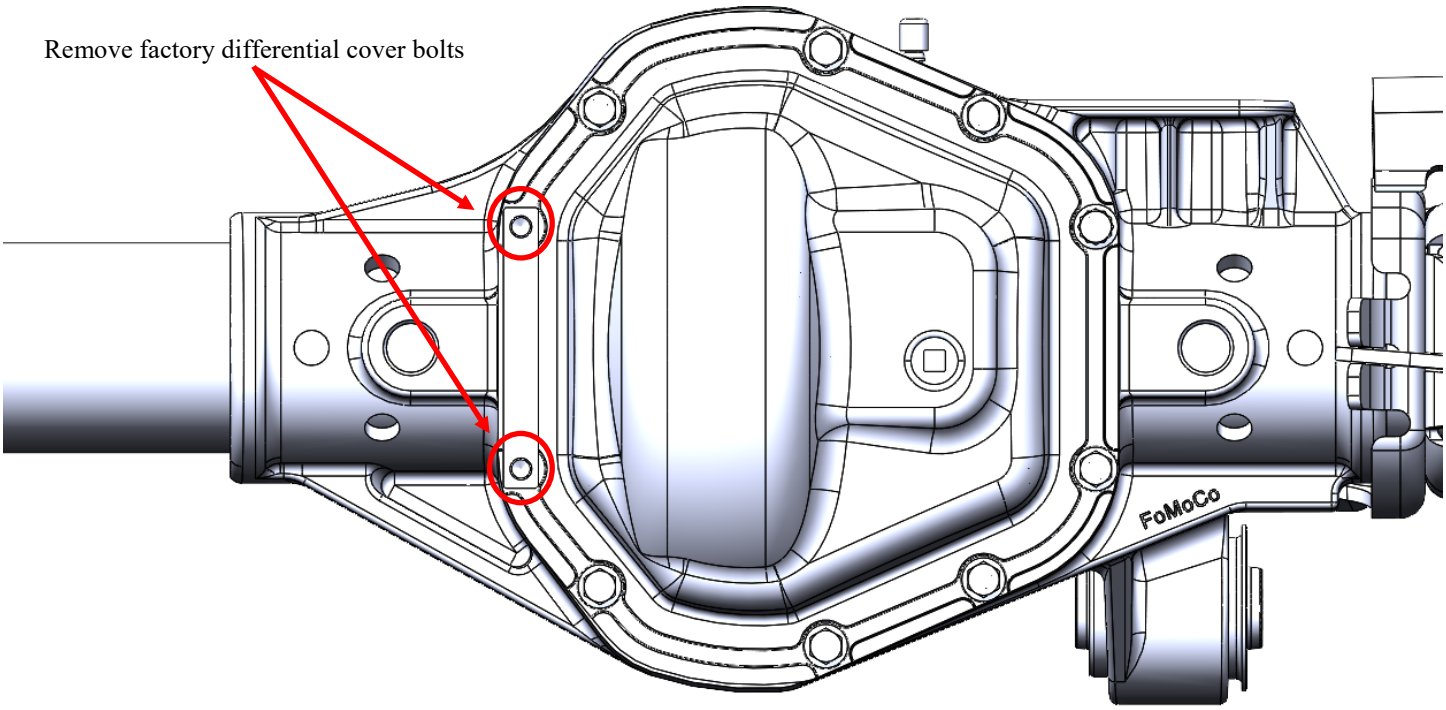
Part # 16978

2686 Highway 92 - Oskaloosa, IA 52577
Phone: 641.673.0468
www.kelderman.com

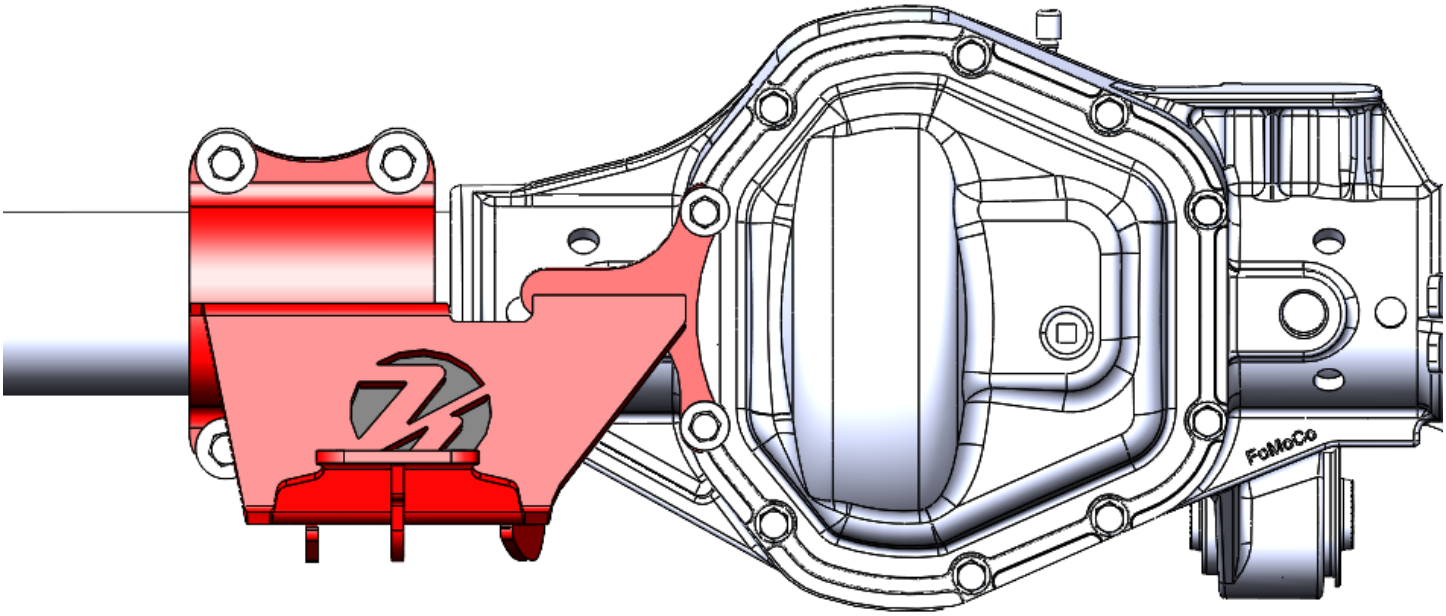
2005+ Ford Super Duty
Dual Steering Stabilizer Assembly
Installation Instructions



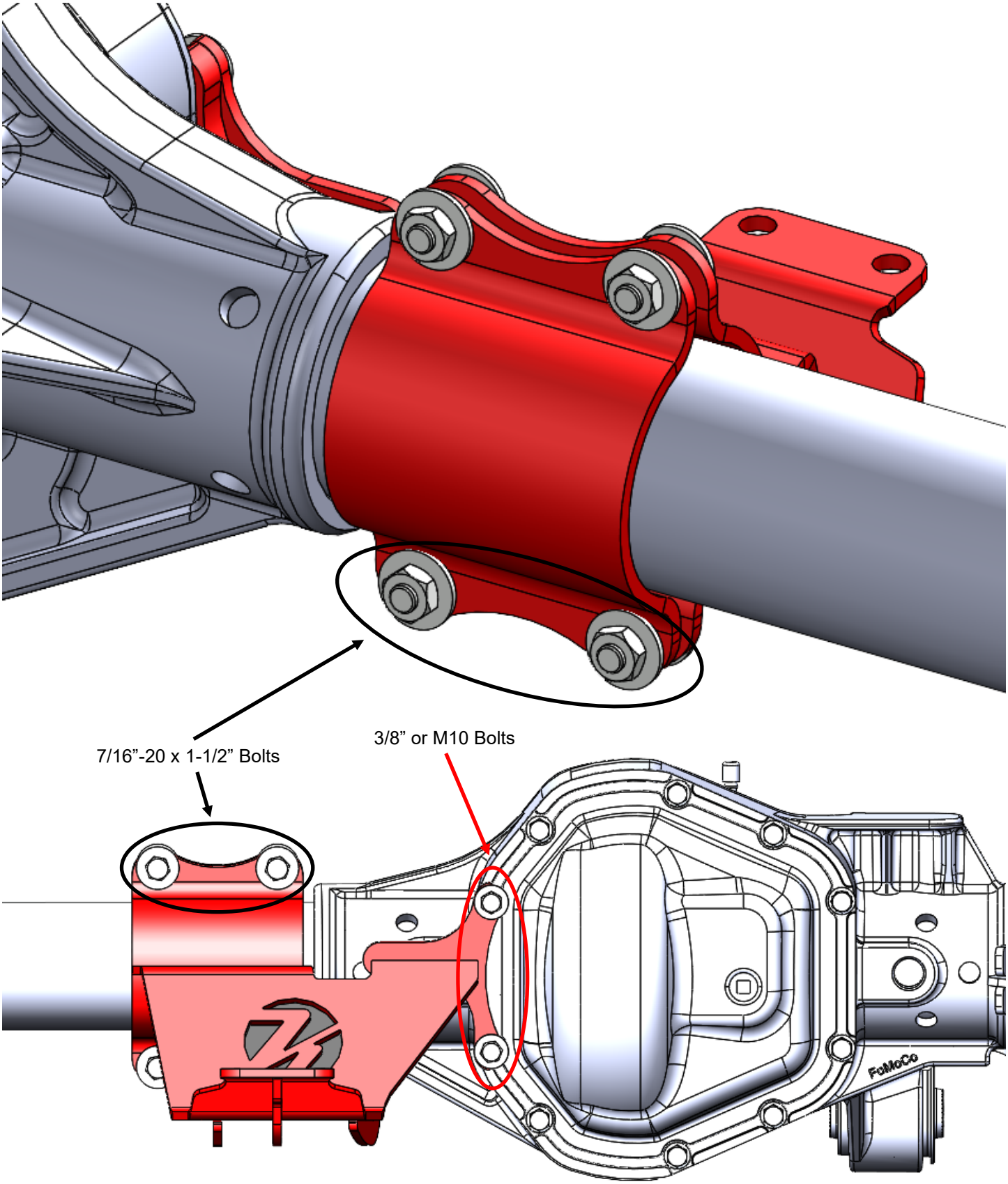
1. Locate the steering stabilizer kit then remove the middle (2) bolts on the passenger side of the differential cover. M10 and 3/8” bolts are provided so check and see what bolts fit in your differential.



2. Locate “K” Bracket (# 16005) and place it on the front side of the axle. Place some RTV sealer on the differential bolts and attach the “K” bracket to the differential. If you are using the stock differential cover, use the spacer (t# 30168) between the tab on the “K” bracket and the differential. If you are using an aftermarket differential cover, you will not need the spacer. If RTV sealer isn't used, the differential may leak oil out of these (2) bolts. Snug up the differential bolts.

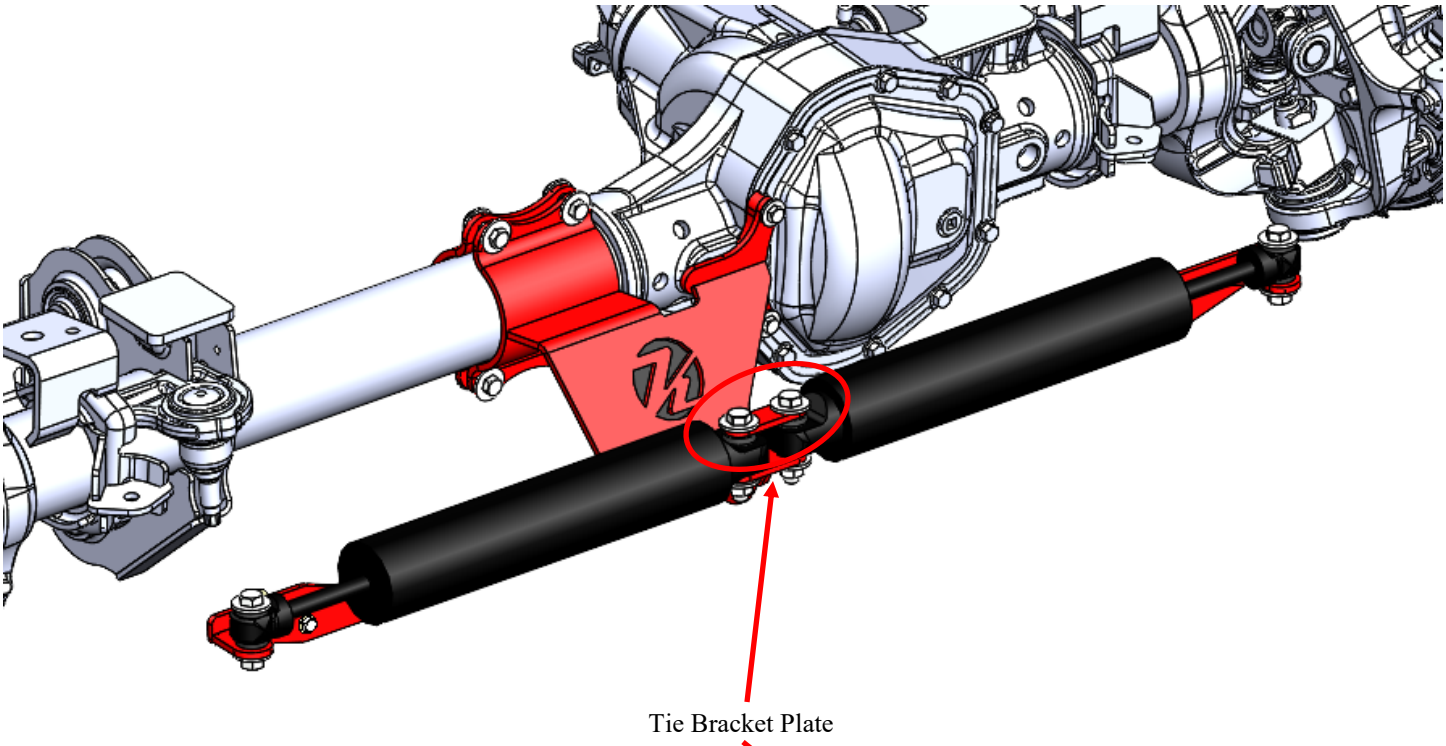


3. Locate the Backing Clamp (# 16008) and attach to the “K” bracket using the (4) 7/16”-20 x 1-1/2” bolts. Tighten down 7/16” bolts with impact. Next, tighten the differential bolts.

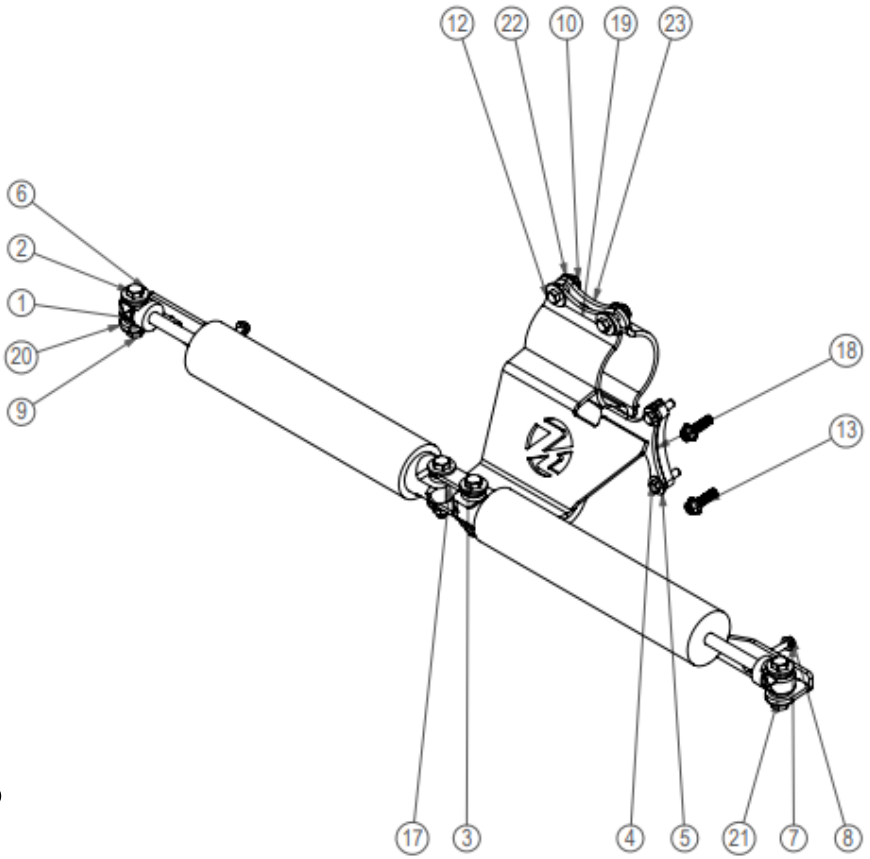


4. Locate the Shock End Mounting Brackets (# 69356-DS and 69355-PS) and fasten them to the pinch bolts on the tie rod. **THERE IS A DIFFERECE BETWEEN THE RIGHT AND LEFT HAND SHOCK END MOUNTING BRACKETS.** Remove the nuts off the factory pinch bolts and place the mount over the OEM bolt. Reuse the factory nut and tighten down. Next, use the supplied 5/16”-18 x 3” bolts to attach the outer holes on the bracket through the outer clips on the tie rod. Make sure the 5/16”-18 x 3” bolts face the rear of the truck. If installed incorrectly, the threaded end of the bolts will rub on the shock and cause damage. Tighten down 5-16”-18 bolts.

5. Locate the Steering Stabilizer Shocks. Use the 1/2” x 3” bolts to fasten the shocks to the center bracket with the Tie Plate (# 20227). Use the 1/2” x 2-1/2” bolts to fasten the shock end mounts to the other end of the shocks.



F250-350 Steering Stabilizer



ITEM NO.	Number	DESCRIPTION	QTY.
1	985-24-068	Purchased Parts - Fox Shock	2
2	12017	Hex Bolt - 1/2"-20 x 2-1/2" - GR8 - YZ	2
3	12021	Hex Bolt - 1/2"-20 x 3" - GR8 - YZ	2
4	12216	Hex Bolt - 3/8"-16 x 1-1/2" - GR5 - Z	2
5	13002	Flat Washer USS - 3/8" - GR8 - YZ	2
6	13004	Flat Washer USS - 1/2" - GR8 - YZ	8
7	13021	Flat Washer SAE - 5/16" - GR8 - YZ	4
8	13101	Top Distorted Thread Lock Nut - 5/16"-18 - GR5 - Z	2
9	13164	Hex Nut - 1/2"-20 - GR8 - YZ	4
10	13173	Hex Nut High - 7/16"-20 - GR8 - YZ	4
11	13322	Hex Bolt - 5/16"-18 x 3" - GR5 - Z	2
12	13411	Hex Bolt - 7/16"-20 x 1-1/2" - GR8 - YZ	4
13	13872	Flange Bolt - M10-1.5mm x 35mm - Class 10.9 - Z	2
14	14062	FLAT WASHER - SAE - #10	2
15	14086	SPLIT LOCK WASHER - #10 - SS	2
16	14097	Hex Nut: #10-24 - GR5 - Z	2
17	20227	Plate - 1/4" - Shock Strap	1
18	30168	Plate - 1/2" - (SS) Front Differential Spacer	1
19	69171	Weldment - Steering Stabilizer "K" Bracket	1
20	69355	Assembly - (PS) Axle/Shock Mounting Bracket (6.75")	1
21	69356	Assembly - (DS) Axle/Shock Mounting Bracket (6.75")	1
22	13003	Flat Washer USS - 7/16" - GR8 - YZ	8
23	2001946	Plate - 1/4" - 4" Axle Mount Bracket - Stamped	1
24	10007430	Plate - 16ga - Logo Backing Plate	1

REV	ECN	CHANGE DESCRIPTION	CHANGE BY	DATE
A		Updated "K" Logo	ZB	12/3/20
B		Added 5/16" Hardware	TA	3/31/21
C		Added Parts 10006756	TA	4/19/21
D		Added M10 Hardware	TA	5/10/21
E		Removed Parts 10006756	TA	6/17/21

3RD ANGLE PROJECTION
UNLESS OTHERWISE SPEC. DIMNS. IN INCHES
STD. TOLERANCES X.X ± .060 X.XX ± .030 X.XXX ± .010 FRAC. DIM. ± 1/32" Deg. ± .5°

A | DO NOT SCALE DRAWING | 1:10 | Approximate Weight =**24.51 lbs**

MATL SPECS: **SEE ABOVE**

DESCRIPTION: **Assembly - Dual Steering Stabilizer**

PROJECT: **2005+ F250-350 Pickup**

PART NUMBER:**69170**

DESIGN BY:**Aaron Meppelink** DATE: **2/10/2023**

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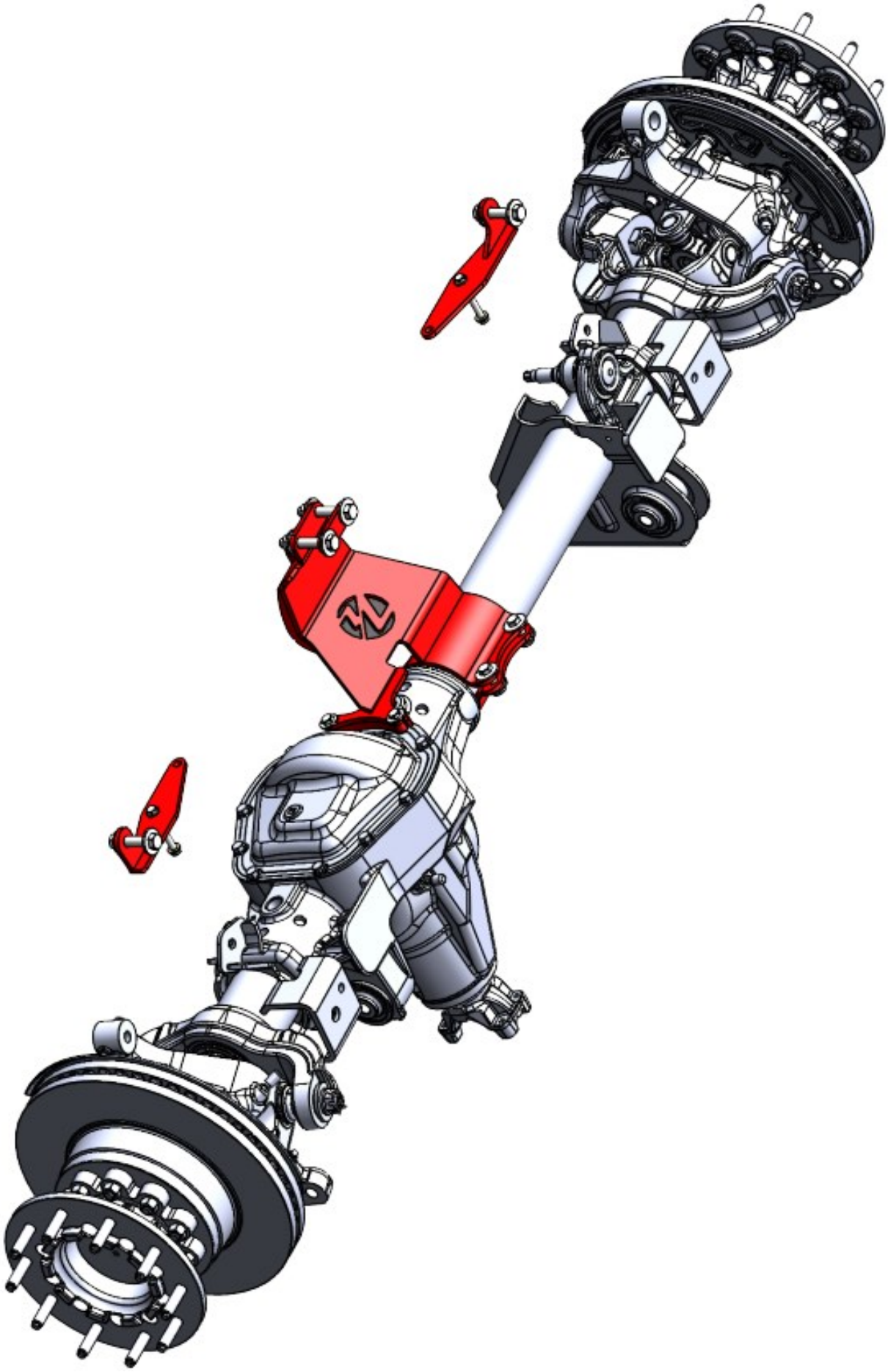
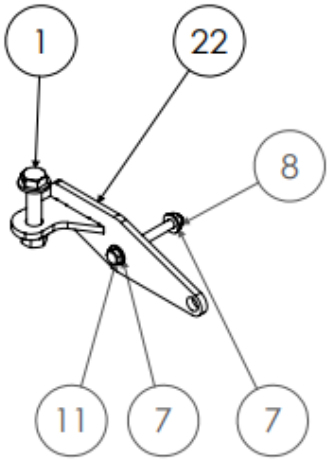
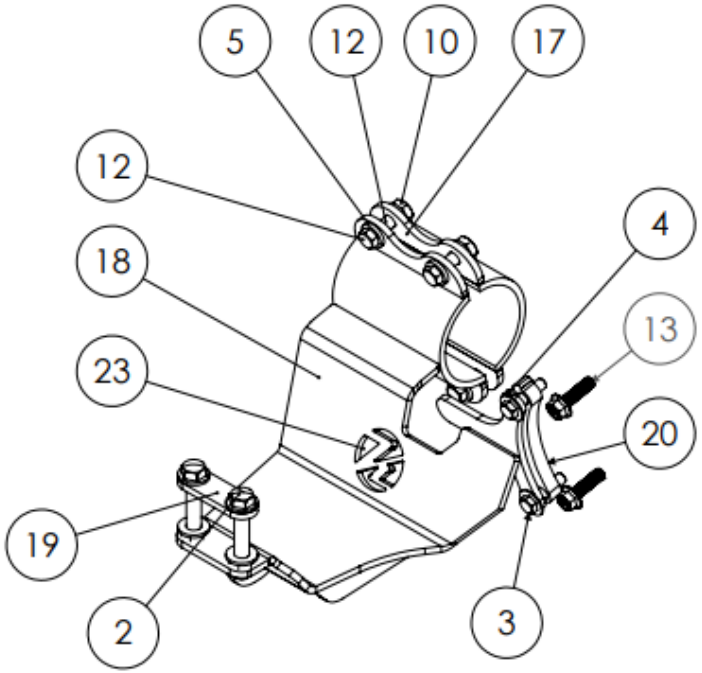
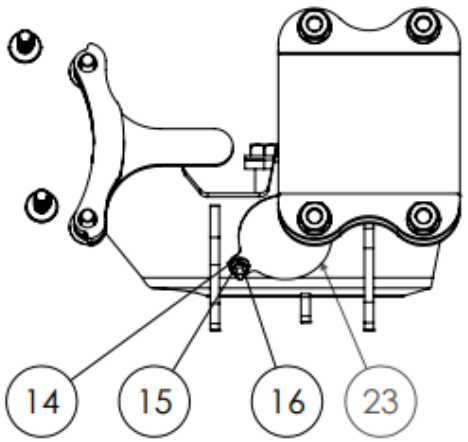
SHEET 1 OF 3

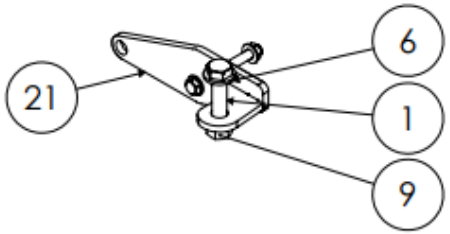


F450-550 Steering Stabilizer









ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY.
1	12017	Bolt - 1/2"-20 X 2 1/2" Gr.8	2
2	12021	Hex Bolt - 1/2"-20 X 3" GR.8	2
3	12216	Bolt - 3/8-16 x 1.50 - Gr.5	2
4	13002	Flat Washer USS - 3/8" - Z	2
5	13003	7/16" Flat Washer	8
6	13004	Flat Washer USS - 1/2" - Z	8
7	13021	5/16" Flat Washer	4
8	13101	Lock Nut - 5/16"-18 Gr.5 - YZ	2
9	13164	Hex Nut - 1/2"-20 Gr.8	4
10	13173	Hex Nut - 7/16"-20 Gr.8	4
11	13322	Hex Bolt - 5/16"-18 x 3.00" Gr.5 - YZ	2
12	13411	Bolt - 7/16"-20 X 1 1/2" Gr.8	4
13	13872	Flange Hex Bolt: M10-1.5 x 35mm - 10.9	2
14	14062	#10 SAE Flat Washer	2
15	14070	#10-24 Hex Nut	2
16	14086	#10 Split Lock Washer Stainless Steel	2
17	16008	Weldment - Steering Stabilizer Axle Clamp	1
18	16973	Weldment - Steering Stabilizer "K" Bracket	1
19	20227	Plate - 1/4" - Shock Strap	1
20	30168	Plate - 1/2" - Shim	1
21	69386	Weldment - (DS) Axle/Shock Mounting Bracket (5.75")	1
22	69388	Weldment - (PS) Axle/Shock Mounting Bracket (5.75")	1
23	10008381	Plate - 16ga - Logo Backing Plate	1

REV	ECN	CHANGE DESCRIPTION	CHANGE BY	DATE
A		Updated "K" Logo	ZB	12/3/20
B		Added 5/16" Hardware	TA	3/31/21
C		Added Parts 10006756	TA	4/19/21
D		Added M10 Hardware	TA	5/10/21
E		Removed Parts 10006756	TA	6/17/21

3RD ANGLE PROJECTION

UNLESS OTHERWISE SPEC. DIMNS. IN INCHES STD. TOLERANCES X.X ±.060 X.XX ±.030 X.XXX ±.010 FRAC. DIM. ±1/32" Deg. ± .5°

A | DO NOT SCALE DRAWING | 1:20 | Approximate Weight = 17.58 lbs

MATL SPECS: SEE ABOVE

DESCRIPTION: Assembly - Steering Stabilizer

PROJECT: 2011+ F450/550 Pickup-Chassis Cab

PART NUMBER: 16978

DESIGN BY: ZB18 DATE: 2/10/2023

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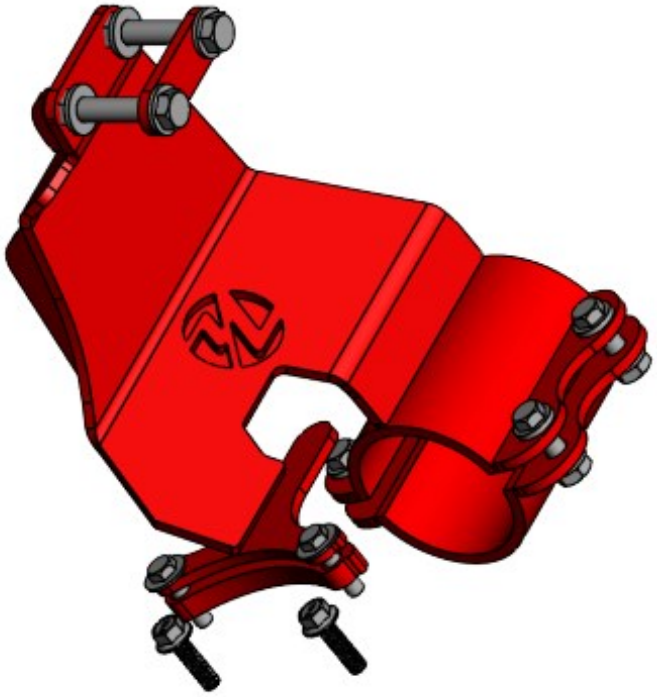
SHEET 1 OF 3