

1/2-20", 3/8-24",  
and 5/16 x 18"  
taps are required  
for installation.

Welding is  
also required.



PART # 10004537  
PART # 10006031

VERSION 1.5

\*inspect contents  
of kit prior to  
beginning  
installation\*

**2686 Highway 92 - Oskaloosa, IA 52577**  
**phone: 641.673.5396**  
**www.kelderman.com**

# **2019+ RAM 2500/3500**

## **5-6" Front Lift Kit**

### **Installation Instructions**



- 1.) While the vehicle is on a flat surface, measure the rear pinion angle. Record this measurement here \_\_\_\_\_.
- 2.) The first step in the installation of the kit is to index the transfer case. There are two different indexing plates: a six bolt plate and an eight bolt plate that is used for the AISIN transmissions. Remove the front and rear driveshafts. To remove the front driveshaft off the transfer case, the collar has to be spread apart and then the driveshaft will be slid forward. The easiest way to do that is with a pair of pliers like the one shown below.
- 3.) Place a jack stand under the transmission and remove the factory crossmember. Unhook the wires that go to the transmission. Remove the bolts that hold the transfer case in place. Locate the indexing plate (Part # 8129-AISIN or 8129-68RFE). If the ARP studs are not installed, insert them in the hole closest to the countersunk hole 13 degree hole. The hole furthest away from the countersunk hole is for the 10-12" lift. Use vice grips to remove the studs in the transfer case. Use red Loctite and fasten the indexing plate to the transfer case with the countersunk bolts. Torque these bolts to 40 ft./lbs. Locate the seal adaptor. Re-install the transfer case to the transmission. Use red Loctite on the studs, and use the 3/8" nuts and washers and torque to 55 ft./lbs. See photo on the next page.



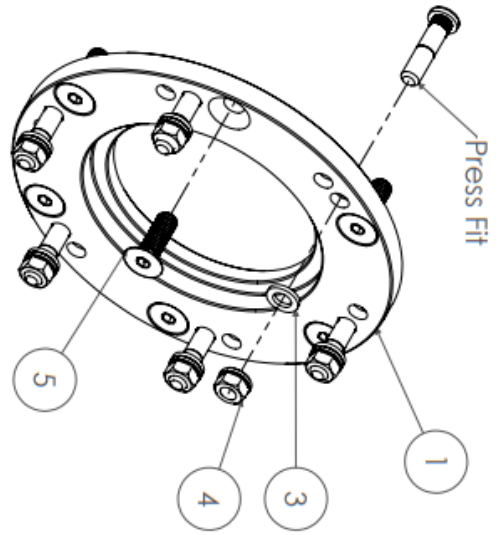
*Use vice grips to remove studs from transfer case.*

*Red Loctite will be used for assembly.*

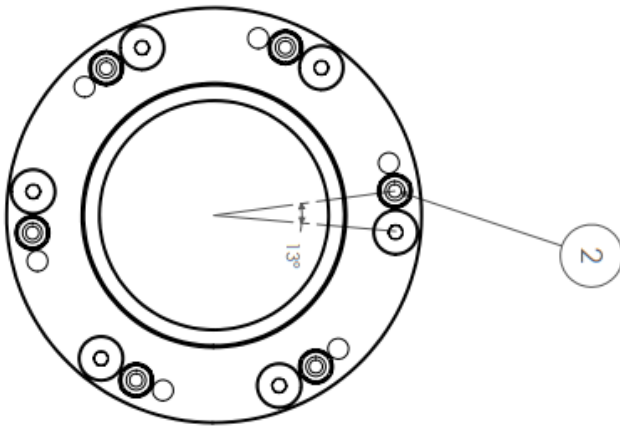
68RFE pictured



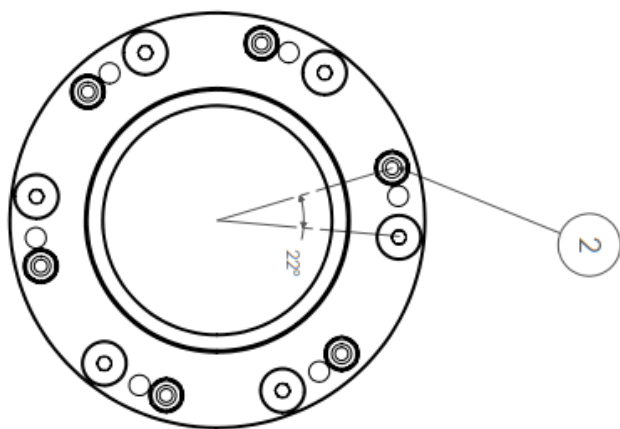
# AISIN Transmission



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	<i>Parts</i>		
1	10008129	Aluminum 3/4" - Transfercase Index Ring - 13°or 22° - Transmission: 688FE 6-Speed	1
	<i>Hardware</i>		
2	14121	ARP - Press-In Flanged Stud - 3/8"-24 X 1.645 - BO	6
3	14127	ARP - Flat Washer - 3/8" - Black Oxide	6
4	14129	ARP - Flange Nut - 3/8"-24 - Black Oxide	6
5	14131	M10-1.5 x 30mm - 12.9 - BO - Counter Sunk Flat Head Allen Screw	6



**13° Indexing Ring**



**22° Indexing Ring**

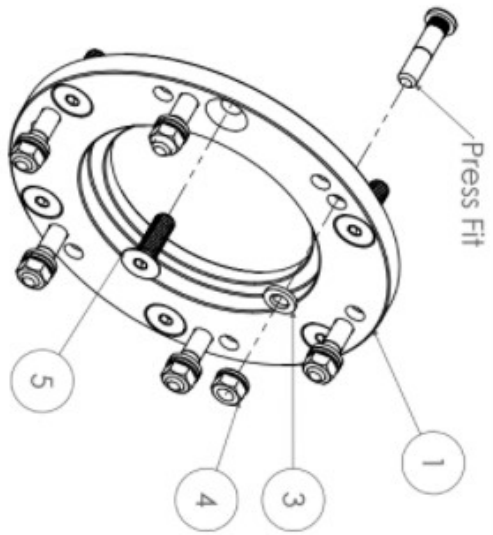
REV	ECN	CHANGE DESCRIPTION	CHANGE BY	DATE
A		Start Changed to Quick Transmission	TA	5/12/20
B		Start Welded the Ring	TA	9/14/20
C		Change to Transfercase Indexing Ring	TA	10/6/20

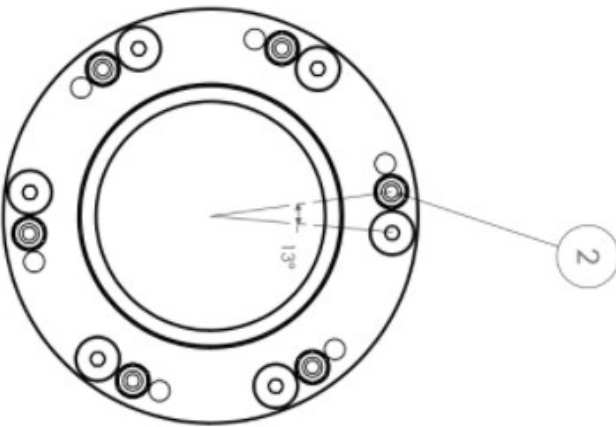
QDW:WSP STD. TOLERANCES XX ±.000 XXX ±.010 FRACTION 1/32"	MATL SPECS PROJECTION UNLESS OTHERWISE SPECIFIED	A DO NOT SCALE DRAWING 1:5 Approximate Weight = 8lb	PROJECT: 2010-2013 RAM 5-6 & 10" LH / 2014-2018 RAM 8-10" LH & 48R-6SP 10008129	DESIGN BY: Toy Anderson DATE: 1/4/2021
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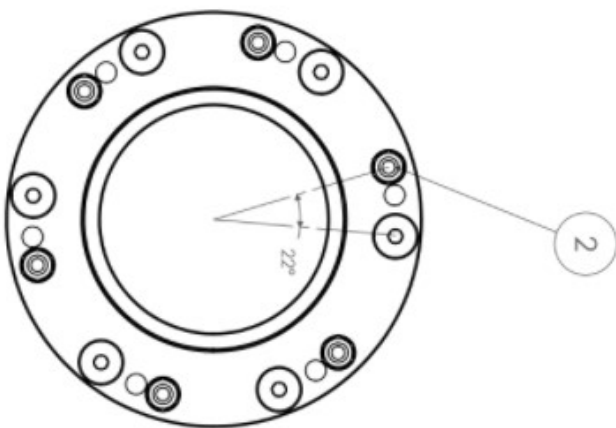
# 68RFE Transmission



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	<i>Parts</i>		
1	10008129	Aluminum 3/4" - Transfercase Index Ring - 13° or 22° - Transmission: 68RFE 6-Speed	1
	<i>Hardware</i>		
2	14121	ARP - Press-In Flanged Stud - 3/8"-24 X 1.645 - 80	6
3	14127	ARP - Flat Washer - 3/8" - Black Oxide	6
4	14129	ARP - Flange Nut - 3/8"-24 - Black Oxide	6
5	14131	M10-1.5 x 30mm - 12.9 - 80 - Counter Sunk Flat Head Allen Screw	6



13° Indexing Ring



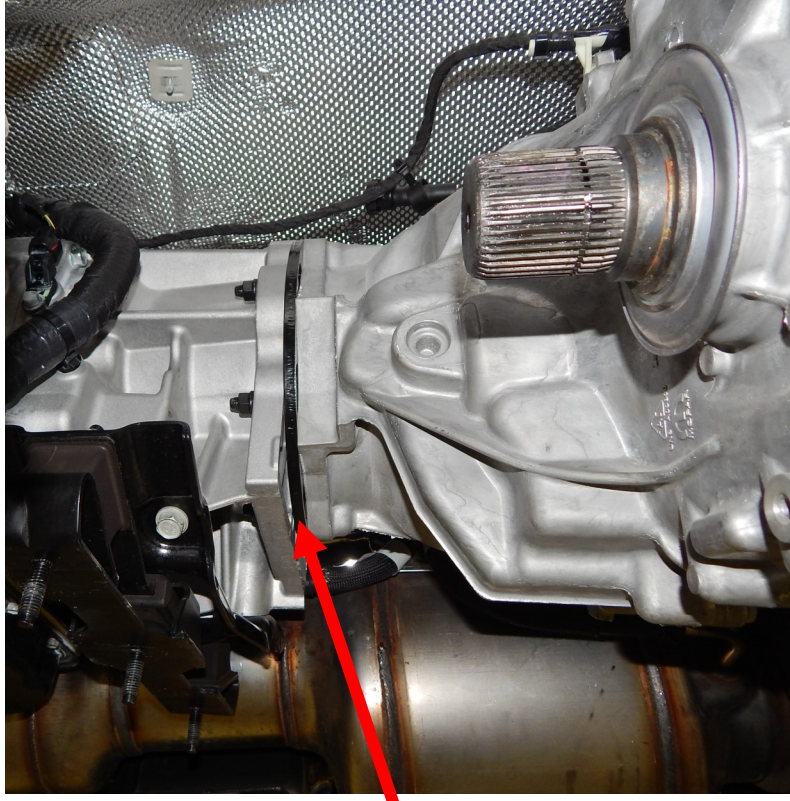
22° Indexing Ring

REV	ECN	CHANGE DESCRIPTION	ORDER BY	DATE	APPROVED BY	DATE	DESCRIPTION	APPROVED BY	DATE
A		Initial Design to Detail Requirements	TA	5/17/20					
B		Draws Modified from Ring	TA	9/14/20					
C		Change to Revised Assembly Drawing Ring	TA	10/6/20					

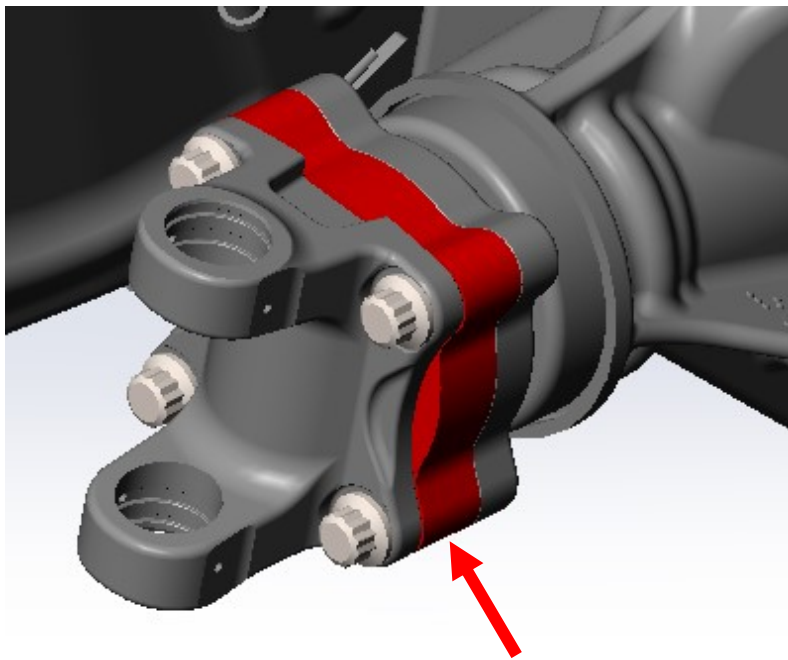
  

REV	ECN	CHANGE DESCRIPTION	ORDER BY	DATE	APPROVED BY	DATE	DESCRIPTION	APPROVED BY	DATE





*68RFE Transfer case shown re-installed with indexing plate*

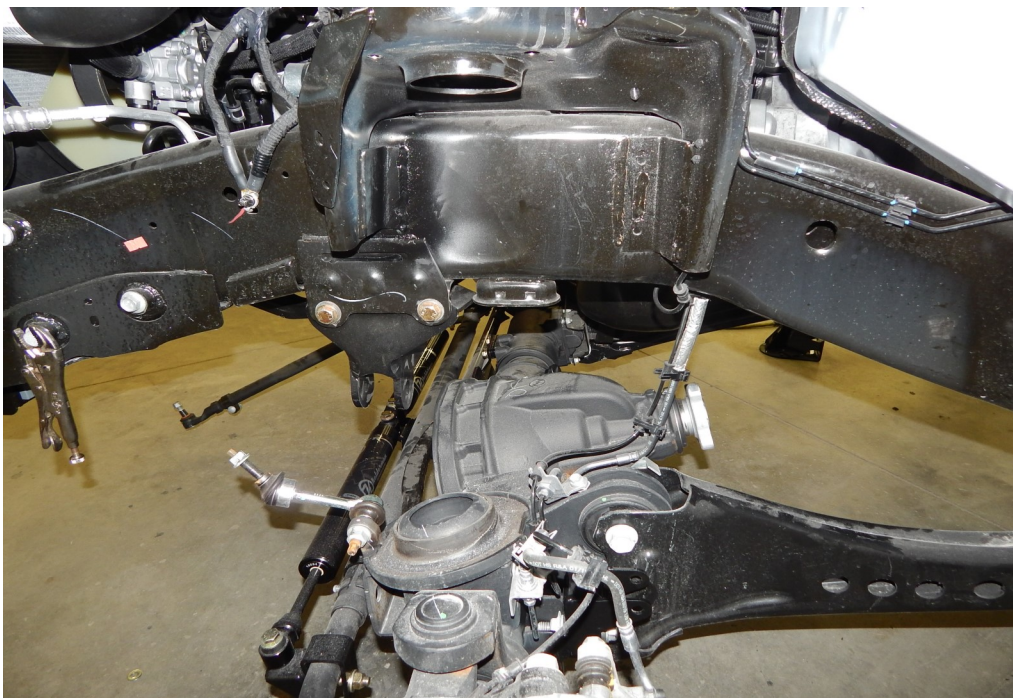


When reinstalling the driveshaft, locate the 1" spacer (Part # 10006015). It fastens between the axle flange and the driveshaft. Use the provided M12-1.75 x 50mm 12 Point bolts. Torque to 110 ft/lbs.

4.) If you do not have a vehicle hoist/lift, jack the truck up at the front axle and place jack stands under the front of the frame and just behind the radiator. Remove the wheels and remove the shocks.

5.) Lower the jack down so the tension is off the coil springs and remove the springs.

6.) Unfasten the steering arm from the pitman arm and unbolt the panhard bar from the panhard bar mount. ***Do not unhook the sway bar end links.***



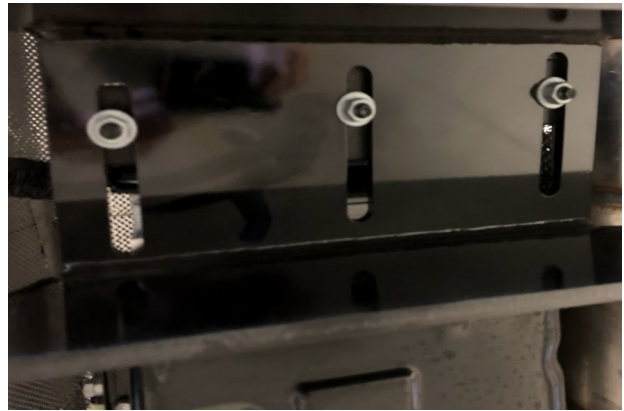
7.) Place a jack under the transfer case. Remove the three nuts from the transmission mount where it fastens to the crossmember and remove the four bolts that hold the transmission crossmember in place. You will have to cut the bolts on the passenger side with a Sawzall unless you remove the exhaust system.

8.) Remove the factory crossmember. Remove the two bolts that fasten the control arms to the frame. Keep the nuts for the transmission mount. The other bolts will not be used.



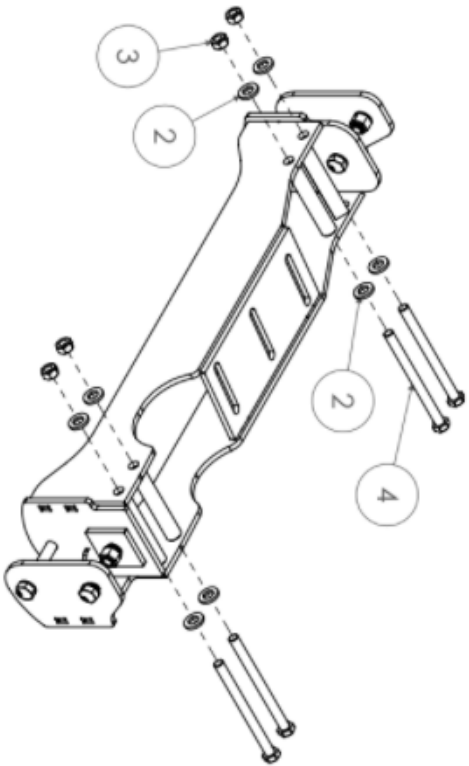
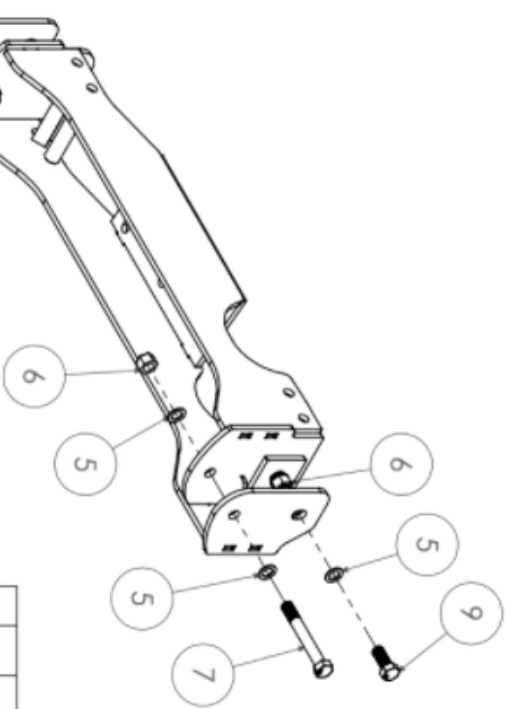
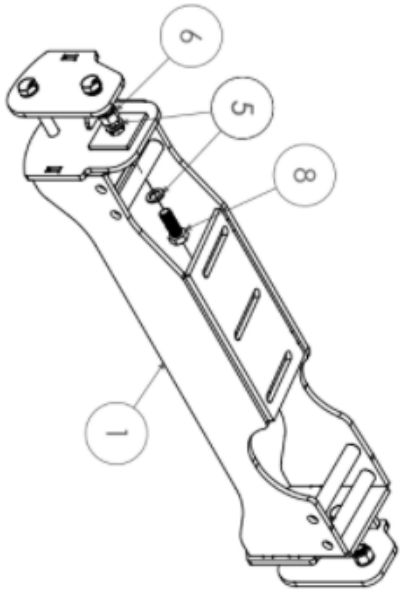
9.) Locate the crossmember (Part # 10005288). It fastens into the factory crossmember holes with the (4) 5/8 x 8" bolts. Also use the M18 x 40mm bolts to fasten the side of the crossmember into the original control arm mounts. Torque these bolts to 150 ft./lbs.

10.) Locate the (3) factory transmission nuts and fasten them to the crossmember.





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10005298	Weldment - Transfercase Crossmember - 5" Control Arm Drop <i>Weldments</i>	1
<i>Hardware</i>			
2	13026	Washer - 5/8" Flat SAE Washer	8
3	13126	Lock Nut - 5/8" - 18 Gr. - 8 YZ	4
4	12459	Bolt - 5/8"-18 X 8" GR8	4
5	13892	Washer - M18 Flat Washer	12
6	13927	M18 x 2.5mm Nylon lock nut	6
7	13985	M18 x 2.5 mm Thread, 140mm Long	2
8	13987	M18 x 2.5mm Thread, 50mm Long	2
9	14063	Hex Bolt: M18-2.5 x 45 - Class 8.8 - Z	2



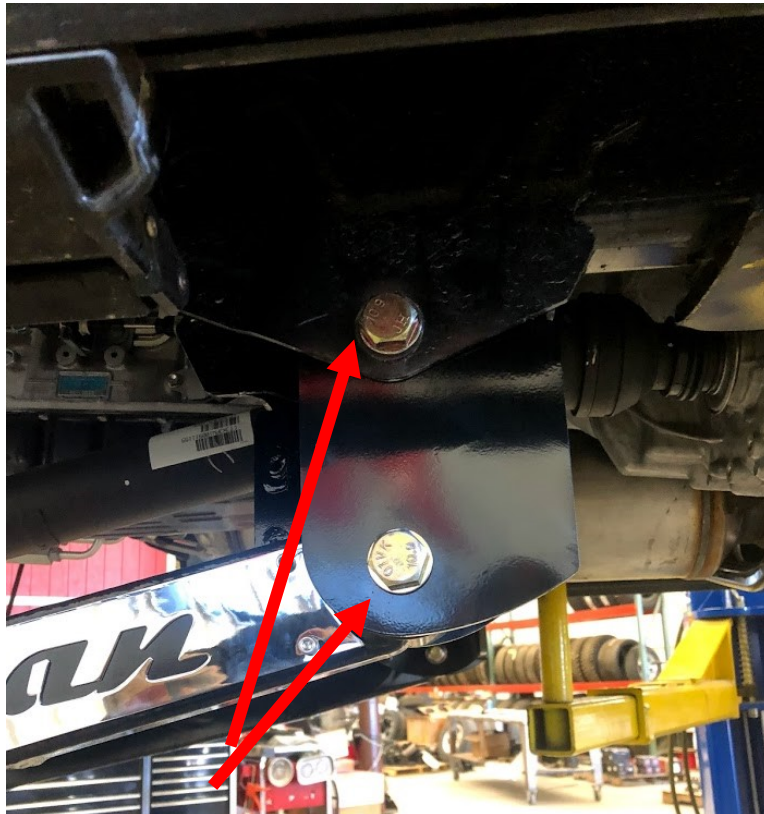
REV	ECN	CHANGE DESCRIPTION	ISSUED BY	DATE

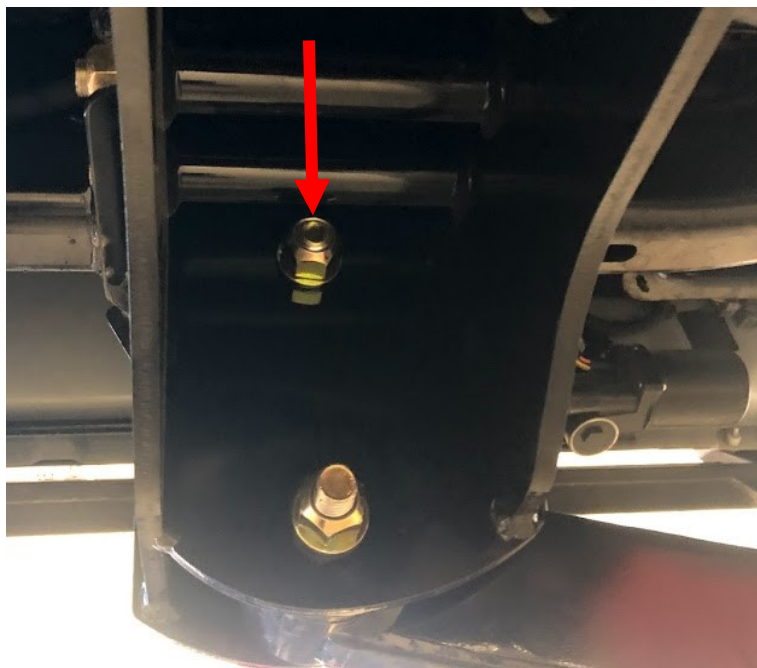
30° ANGLE PROJECTION	A	NONCIRCULAR MULTI VIEWS	1:20	ASSEMBLY WEIGHT = lbs
UNLESS SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES XXX ± .030 XXXX ± .010 XXXXX ± .005 FINISH: 1/2"	SIZE: 2019* Rem 2500/3500 - Control Arm Front - 6 Inch LR PART NUMBER: 10006011 DESIGNED BY: Tony Anderson DATE: 1/4/2021 CHECKED BY: Tony Anderson DATE: 1/4/2021 DRAWN BY: Tony Anderson DATE: 1/4/2021 MANUFACTURED BY: Tony Anderson DATE: 1/4/2021			



11.) Fit the optional Kelderman radius arms or the factory radius arms into the newly installed crossmember. Use the supplied M18 x 140mm bolts, inserting them from the outside in. Torque to 150ft/lbs.

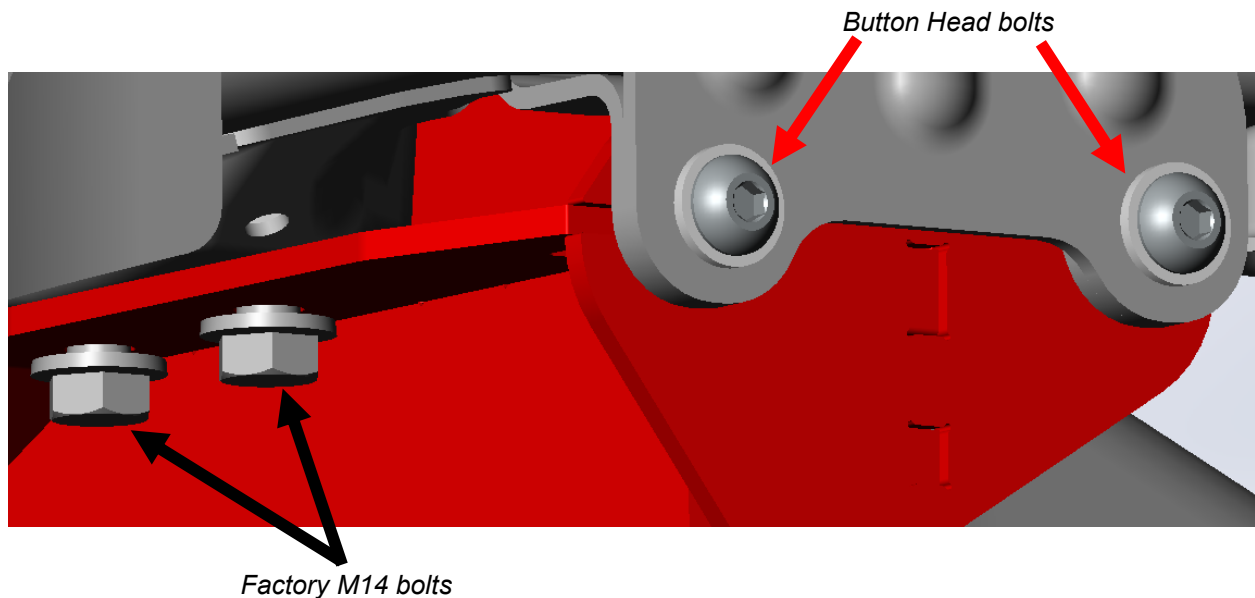


*Bolts shown installed into factory crossmember mounts.  
Insert bolts from the outside in.*



12.) Remove the factory pitman arm, the factory panhard bar drop bracket, and the panhard bar.

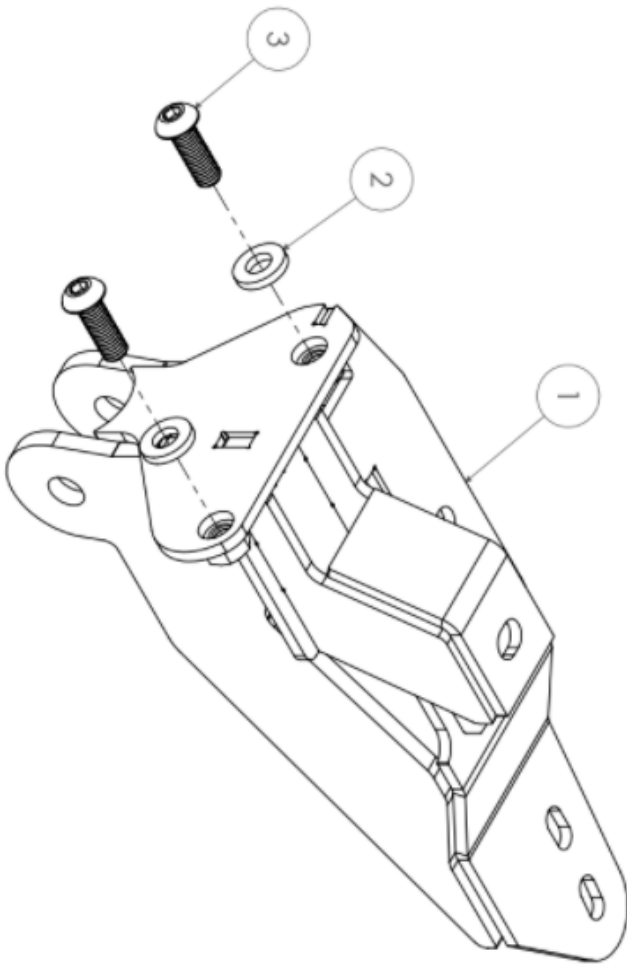
13.) Install the new panhard bar drop (Part # 10004649). It fastens to the side of the frame with the (2) 1/2-13 x 1-1/2 button head bolts and the OEM M14-2.0 x 34mm in the bottom of the frame. You will need to weld the outer two holes in the bottom of the pan hard bar mount to the frame. It works best to hold the mount in place and mark the bottom of the frame where you are going to weld so you can grind that area. Grind the powder coat off the mount where it gets welded to the bottom of the frame. Torque these bolts to 135 ft./lbs. NOTE: When welding be sure to use a battery saver or anti-zapper device to prevent damage to the electronics.



*Pictures shown with panhard bar installed*



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10004649	Weldments - PH8 Drop	1
2	13024	Washer - 1/2" Flat SAE Washer	2
3	13640	1/2"-13 x 1-1/2" Button Head Socket Cap Screw	2



REV	ECN	CHANGE DESCRIPTION	CHG BY	DATE

3RD ANGLE PROJECTION UNLESS OTHERWISE SPEC. ALL DIMENSIONS ARE IN INCHES FRACTIONS 1/32" DECIMALS 0.005" DIMS TO CENTER UNLESS SHOWN OTHERWISE	<b>A</b>	[ISO] NOT TO SCALE DRAWING 1:10 Approximate Weight = lbs
MFG SPEC DESCRIPTION: <b>Assembly - PH8 Drop</b> PROJ ECT <b>2019+ Kom 2500/3500 - Control Arm Front - 6 Inch LH</b> PART NUMBER: <b>10004010</b> DATE: 1/4/2021 DRAWN BY: <b>Boj Anderson</b>		SHEET 1 OF 1

14.) Locate the provided pitman arm (Part # 80269). It looks just like the OEM, but has been reworked so the ball joint comes up from the bottom instead of the top.

15.) Install the pitman arm and torque the nut to 275 ft./lbs.

16.) Loosen the ball joint on the steering arm and rotate the ball joint end out about halfway out of the adjustment sleeve.

17.) Roll the ball joint 180 degrees and run it back into the adjustment sleeve. Insert the ball joint into the pitman arm and torque the steering arm nut on the ball joint to 100 ft./lbs. NOTE: The pitman arm needs to be re-torqued after 300 miles.

18.) Once the installation is complete and the air bags are at ride height, use the adjustment sleeve to straighten the steering wheel.

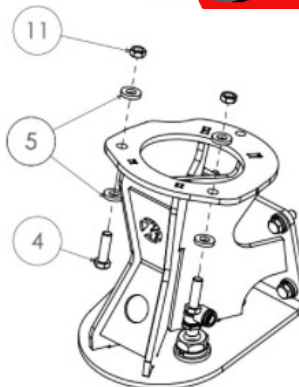


19.) Locate the upper bag mounts (Part # 10003648-DS and 10005191-PS), upper shock reservoir mounts (Part # 10004566) and Spacer Plates (10013536-DS and 10013536-PS). If your truck is running monotube shocks you will not use the upper reservoir mounts.

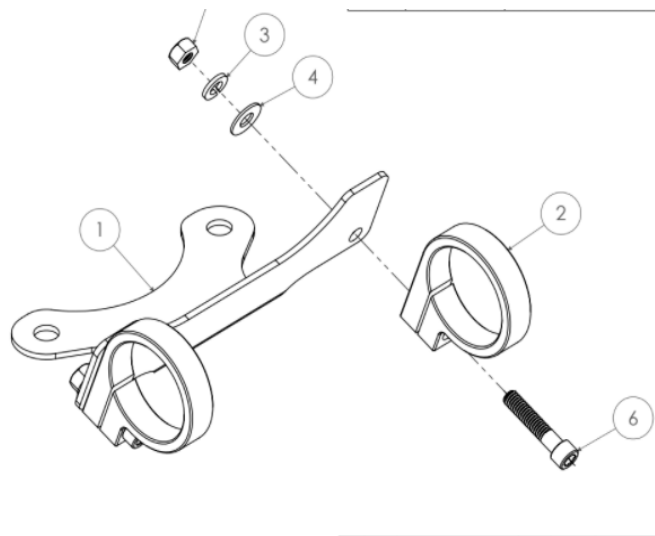
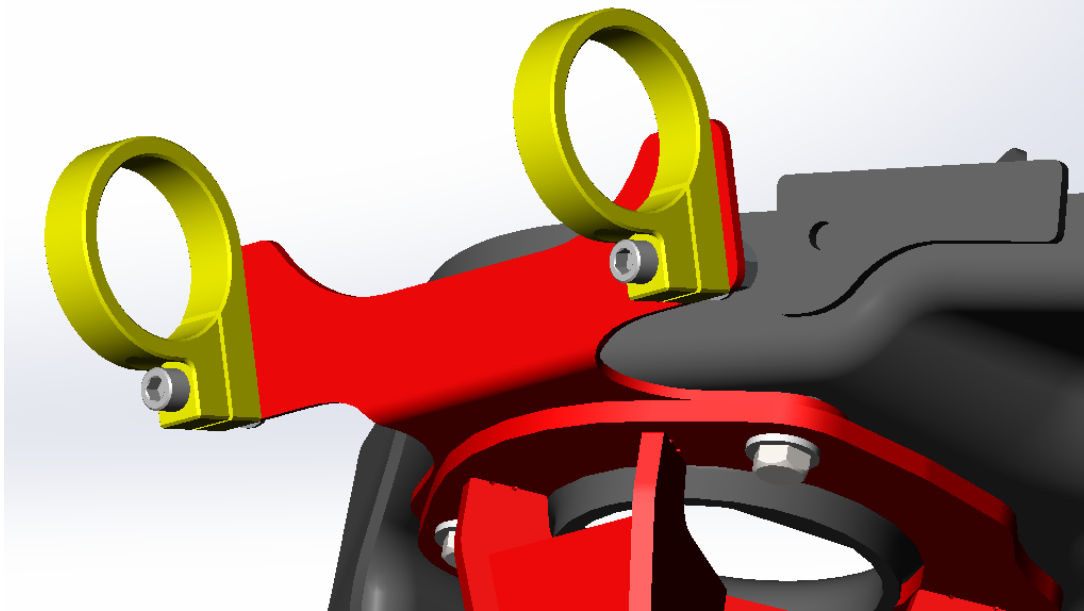
20.) Line up the hole in the spring perch with the hole in the upper bag mount. Hold the upper bag mount in place and mark the other hole. Remove the upper bag mount, center punch the mark and drill both holes to 13/32".

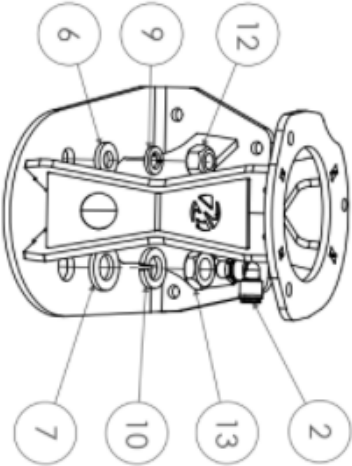
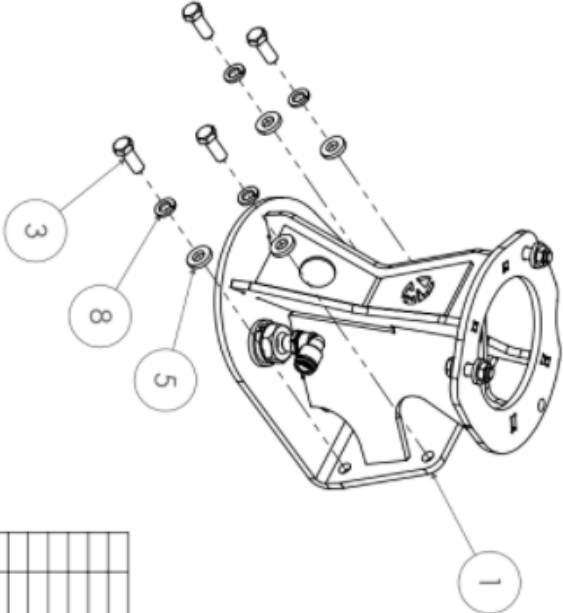
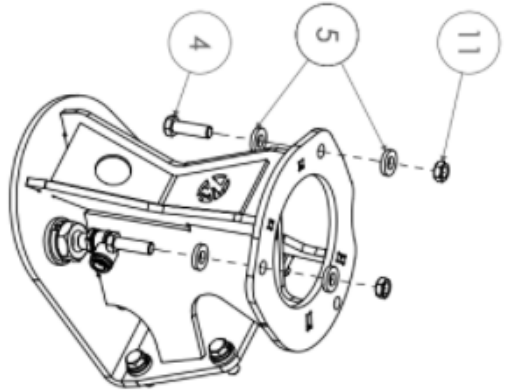
21.) Attach Spacer plate to the Upper Bag Mount with 3/8"-24 x 1" bolts and line up the hole in the spring perch with the hole in the upper bag mount. Hold the upper bag mount in place and tack the Spacer into place. Remove the upper bag mount, weld around the spacer. **NOTE:** When welding and tacking, would recommend covering the powder coated parts, to keep sparks from damaging the powder coat.

22.) Fasten the upper bag mount in place by installing the (4) 3/8"-24 x 1" bolts in the spacer plate (USE BLUE LOCTITE) and only snug up with a ratchet. **Do not use an impact as it will strip the hole.** Tighten the top (2) 3/8"-24 x 1-1/4" bolts in the top to 35 ft./lbs.



23.) Slide reservoir mount between the upper coil bucket and the upper bag mount. Attach split clamps with 5/16"-18 x 1-1/2" socket head cap screws.





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10005191	Weldments Weldment - Upper Bag Flare (FS)	1
2	80168	Purchased Parts KV2L11-35S - 90° Elbow, 3/8" x 1/4-18 NPT	1
<b>Hardware</b>			
3	12211	Bolt - 3/8"-24 X 1" Gr. 8	4
4	12213	Bolt - 3/8"-24 X 1 1/4" Gr. 8	2
5	13022	Washer - 3/8" - Flat SAE Washer	8
6	13024	Washer - 1/2" Flat SAE Washer	1
7	13028	Washer - 3/4" - Flat SAE Washer	1
8	13046	Spill Lock Washer - 3/8" - YZ	4
9	13050	Lock Washer - 1/2"	1
10	13056	Lock Washer - 3/4"	1
11	13122	Lock Nut - 3/8"-24 Gr - 8	2
12	13204	1/2"-13 Jam Nut	1
13	13208	Jam Nut - 3/4"-16 Gr. 5	1

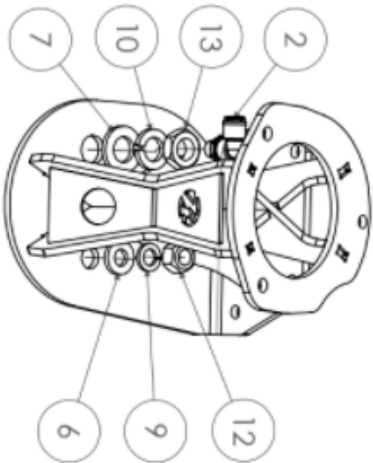
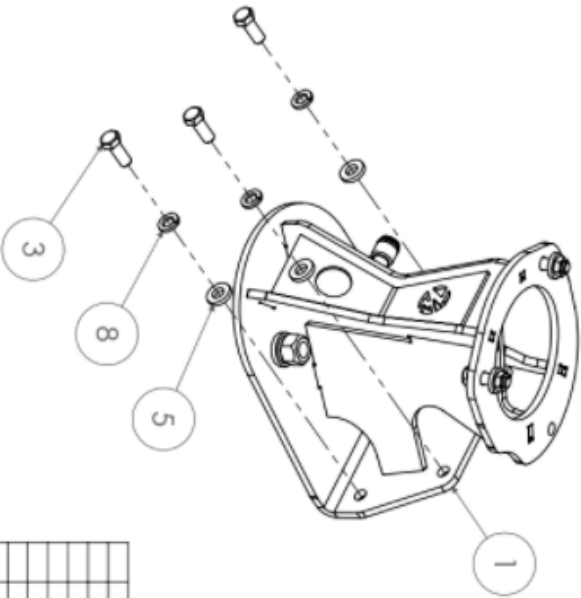
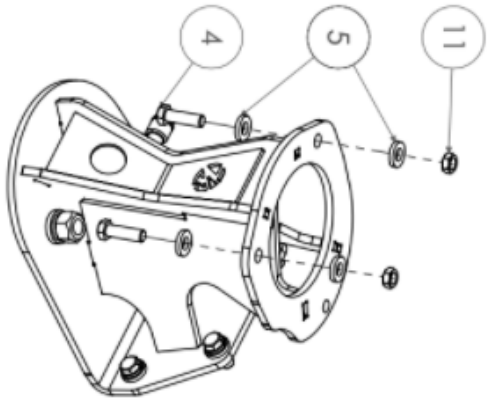
REV	ICON	CHANGE DESCRIPTION	ISSUED BY	DATE

3RD ANGLE PROJECTION	A	DO NOT SCALE DRAWING	1:5	Approximate Weight = lbs
UNITED STATES DIMENSIONS DIMENSIONS IN INCHES STD. TOLERANCES X.XX ± .003 X.XXX ± .010 RF Dim ± .010 Dwg ± .010	DESCRIPTION: Assembly - Upper Bag Mount - FS	MATERIAL SPEC:		
NOTES:	201 FS Item 2500/3500 - Control Arm Front			
	PART NUMBER: 10005191			
	DESIGN BY: Roy Anderson	DATE: 1/4/2021		



SHEET 1 OF 1





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10003648	<i>Weldments</i> Weldment - Upper Bag Plate (DS)	1
2	80168	<i>Purchased Parts</i> KV2L11-35s-90° Elbow, 3/8" x 1/4-18 NPT	1
		<i>Hardware</i>	
3	12211	Bolt - 3/8"-24 X 1" Gr.8	3
4	12213	Bolt - 3/8"-24 x 1 1/4" Gr.8	2
5	13022	Washer - 3/8" - Flat SAE Washer	7
6	13024	Washer - 1/2" Flat SAE Washer	1
7	13028	Washer - 3/4" - Flat SAE Washer	1
8	13046	Split Lock Washer - 3/8" - YZ	3
9	13050	Lock Washer - 1/2"	1
10	13056	Lock Washer - 3/4"	1
11	13122	Lock Nut - 3/8"-24 Gr. - 8	2
12	13204	1/2"-13 Jam Nut	1
13	13208	Jam Nut - 3/4"-16 Gr. 5	1

REV	ECN	CHANGE DESCRIPTION	ISSUED BY	DATE	3RD ANGLE PROJECTION	HEAT STRENGTH	APPROXIMATE WEIGHT - lbs
					UNLESS SPECIFIED OTHERWISE, DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF ARE TO TOLERANCES XXXX.XX AND XXXX.XX ± .010 FRACTIONS 5/16"		
					PROJECT: 2019* Kom 2500/3500 - Control Arm Front		
					PART NUMBER: 10003648		
					DESIGN BY: Roy Anderson		
					DATE: 1/4/2021		



SHEET 1 OF 1

24.) Locate lower bag mounts (Part # 10005081-DS and 10006065-PS) and the air bags (Part # F5323). Fasten the air bag to the lower air bag mount with the 1/2"-20 x 3-3/4" bolt. Do not torque yet. The air bag will need to be turned to line up with the upper air bag mounts.

25.) Find the holes in the bottom of the spring bucket. The hole towards the rear of the truck will be tapped to 1/2-20". Once that hole is tapped, drop the lower bag mount in fasten with the 1/2"-20 x 1" bolt.

26.) Locate the 3/8" hole in the side of the air bag mount. Drill a 21/64" hole into the lower spring perch, using the 3/8" hole guide. Tap this hole to 3/8-24".

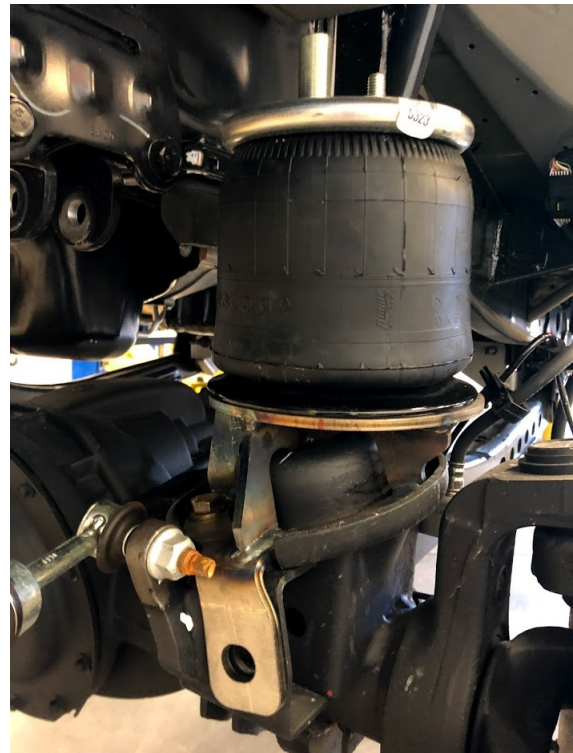
27.) Insert the 3/8"-24 x 1-1/2" bolt and torque both bolts to 35 ft./lbs. The passenger side also uses the pan hard bar to hold the lower bag in place. Torque the lower air bag bolt to 35 ft./lbs.

28.) Re-install the panhard bar. Tighten the OEM bolts on both ends to 175 ft./lbs. The drivers side uses the 5/8"18 x 1-1/2" bolt on the front to hold the lower bag mount.

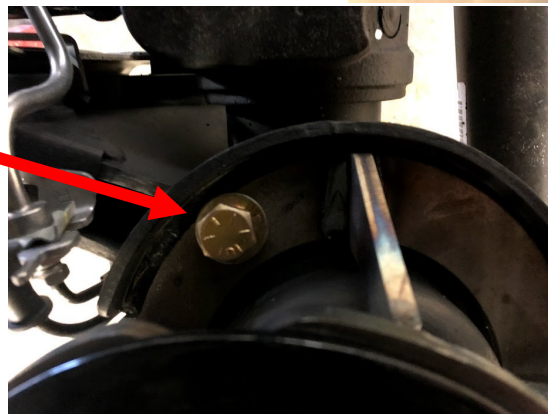
*Passenger side*

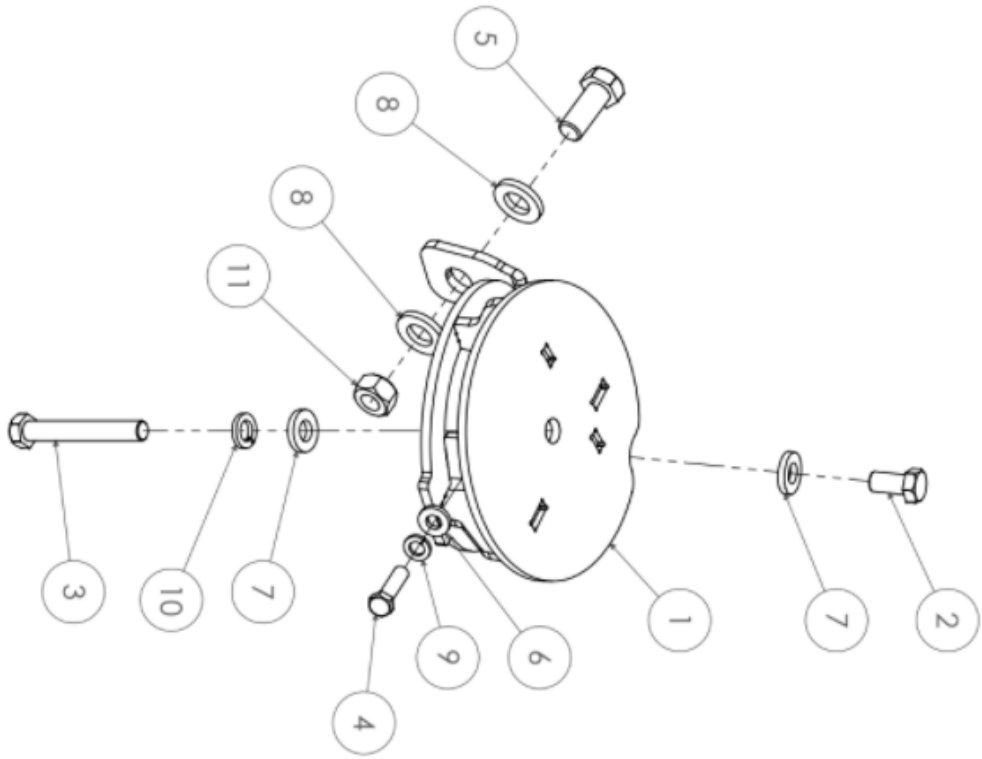


*Drivers side*



*Drill and tap*





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10005081	Weldment - (DS) Axle / Lower Bog Mount	1
		<b>Hardware</b>	
2	12003	Bolt - 1/2"-20 x 1.00" - Gr.8	1
3	12024	BOLT - 1/2"-13 X 3 1/2" GR8	1
4	12217	Bolt - 3/8"-24 X 1.5" Gr. - 8 YZ	1
5	12405	Bolt - 5/8" - 18 X 1 1/2" Gr. 8 YZ	1
6	13022	Washer - 3/8" - Flat SAE Washer	1
7	13024	Washer - 1/2" Flat SAE Washer	2
8	13026	Washer - 5/8" Flat SAE Washer	2
9	13046	Split Lock Washer - 3/8" - YZ	1
10	13050	Lock Washer - 1/2"	1
11	13126	Lock Nut - 5/8" - 18 Gr. - 8 YZ	1

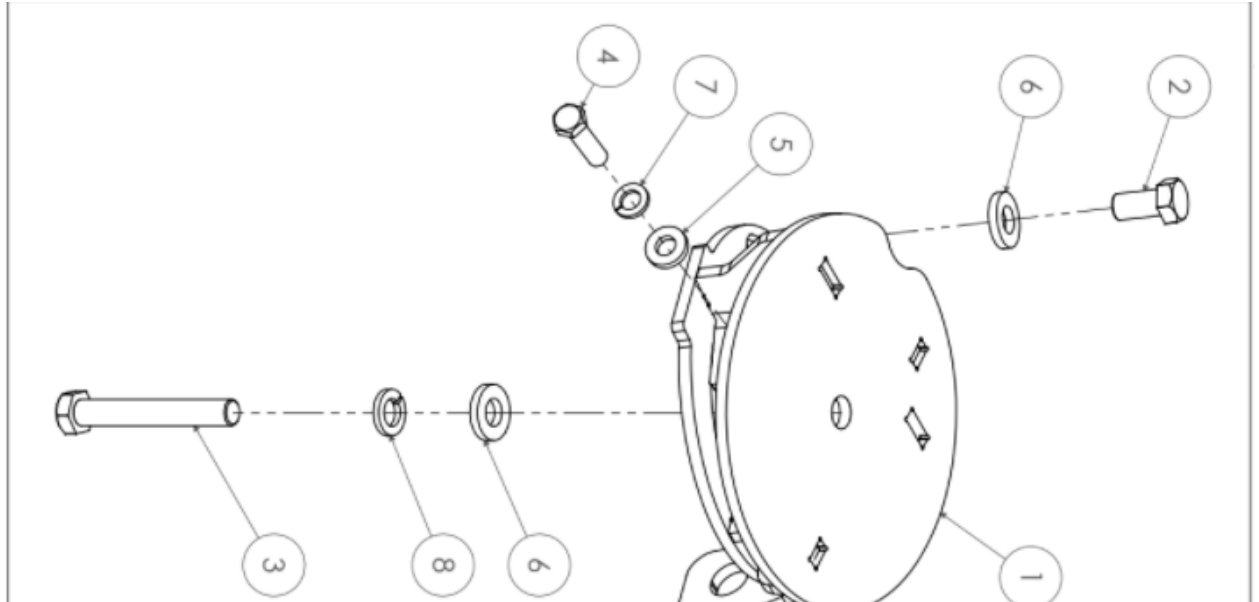
REV	ECO	CHANGE DESCRIPTION	CHANGED BY	DATE

	<b>A</b>	1:10	Approximate Weight = lbs
UNLESS SPECIFIED OTHERWISE DIMENSIONS ARE IN INCHES X.XX ±.000 X.X ±.040 FRAC.DIM. ±.1/32" Dwg # 3	MAIL SPECK DESCRIPTION: <b>Assembly - Lower Bog Frame - DS</b>		
	PROJECT 2019+ Kom 3500/3500 - Control Arm Front - 6 Inch LH		
	PART NUMBER: <b>10000412</b>		
	DESIGN BY: <b>Boj Anderson</b>	DATE: <b>1/4/2021</b>	



SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10005065	Weldment - (FS) Axle / Lower Bag Mount	1
		<i>Hardware</i>	
2	12003	Bolt - 1/2"-20 x 1.00" - Gr.8	1
3	12024	BOLT - 1/2"-13 X 3 1/2" GR8	1
4	12217	Bolt - 3/8"-24 X 1.5" Gr. - 8 YZ	1
5	13022	Washer - 3/8" - FIDT SAE Washer	1
6	13024	Washer - 1/2" FIDT SAE Washer	2
7	13046	Split Lock Washer - 3/8" - YZ	1
8	13050	Lock Washer - 1/2"	1

REV	ECN	CHANGE DESCRIPTION	ISSUED BY	DATE

3RD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED	ALL DIMENSIONS IN INCHES	STRAIGHT SLOPES TO BE SHOWN AT AN ANGLE OF 30°
FRAC. DIM. 1/32"	NO. DEC.	2019+ Item 2500/3500 - Central Arm Front - 4 Inch LH	DATE: 1/4/2021
DESIGN BY: Boy Anderson	DATE: 1/4/2021	APPROXIMATE WEIGHT = lbs	1.5

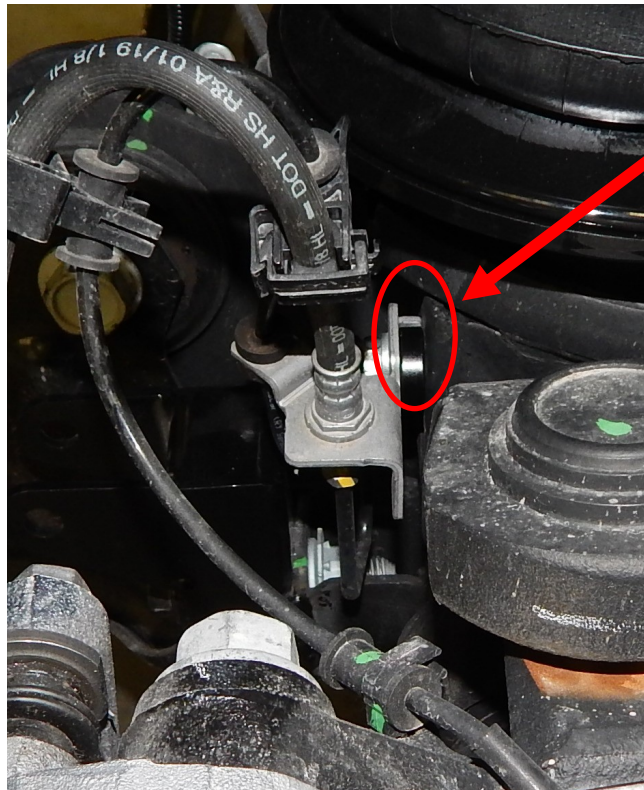


29.) Fasten the air bags into the upper air bag mounts. Use the 3/4" and 1/2" nuts and lock washers on the top and the 1/2"-20 x 3-1/2" bolt on the bottom (with flat washer and lock washer). Tighten all the nuts and bolts to 35 ft./lbs.

30.) Locate the air fitting and install into the air port on top of the bag. Tighten finger tight then one complete turn after that.



31.) Locate the brake line spacer (Part # 10005158). It is a small plate. Install it between the brake line mounting bracket and the axle. This will prevent the brake line from rubbing on the lower air bag mount.



*Brake line spacer  
shown installed*

32.) Locate the lower shock mounts (Part # 18336DS and 18314PS). They fasten into the lower OEM shock mounts with the factory shock bolt. A down hand weld is also required to add additional strength to the shock mount.



*Weld here*

33.) Locate the shocks (the part # varies by shock manufacturer) and lower shock mounts (Part # 18378). Kelderman-Raptor shocks have RH and LH shocks. The difference is the remote reservoir sticker location. Fasten the lower end of the shock into the shock mount with the 9/16"-18 x 5-1/2" bolt and slide the round end of the mount in the factory shock location on the axle. Depending on which shock you use, it may be necessary to use a washer in between the lower shock ears if the spacing is over 3/16" wide. Torque this bolt to 125 ft./lbs.

34.) Locate the rubber bushings and steel cups. Place a cup (dish side up) on the shock and then slide a bushing (large ring up) over the shock and slide into the factory shock mount.



35.) Place a bushing over the shock shaft so the large ring is down. Install the washer dish down. Thread on the lock nut until it bottoms out. Fasten the remote reservoirs to mounts.

36.) If using the Kelderman-Raptor shocks, use the billet clamps.



Correct installation

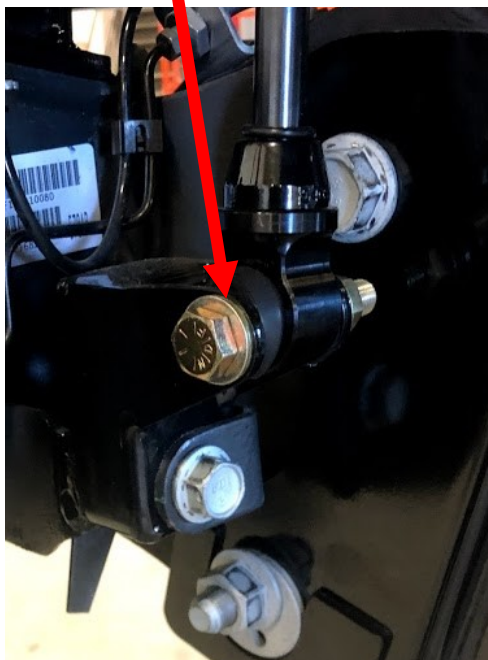
Should be installed like the picture on the left. Rubber bushing should go in between the factory shock mount location. With a washer down on the shock on the lower portion and washer on top of the bushing for the upper portion.

Do not stack the bushings underneath the shock mount location.



Incorrect installation

*May need a washer in between shock and shock mount ears*





37.) Locate the dual steering stabilizer kit. Locate the center K bracket (Part # 18393) and spacer (Part # 18399). Remove the center two bolts off the differential cover. Remove the OEM factory steering shock and stabilizer bracket off the bottom of the axle. Only the bolts will be re-used. Place the center K bracket on the front of the axle. Use the M10 and M8 bolts to attach the top of the bracket to the axle and over the diff cover. If using the stock differential cover, make sure to place the spacer between the diff cover and bracket. Locate the OEM bolts that held the factory steering shock in place and use those bolts to attach the K bracket to the bottom of the axle. Torque all the bolts to 20 ft./lbs.





38.) Locate the center plate (Part # 20227 ), stabilizer shocks, and outer shock mounts (Part # 1840-PS and 18389/18409-DS). The driver side outer shock mounts fasten to the tie rod with the OEM bolt and the 1/2"-20 x 2-1/2" bolt.



*The passenger side outer shock mount attaches to the tie rod with the OEM bolts that held the OEM shock bracket in place.*



*Use the 1/2"-20x 2-1/2" bolts to fasten the body end of the shocks to the K bracket.*

*The tie plate goes on top.*

*The shaft end of the shocks attach to the outer shock mounts with the 1/2"-20 x 2-1/2 bolts.*

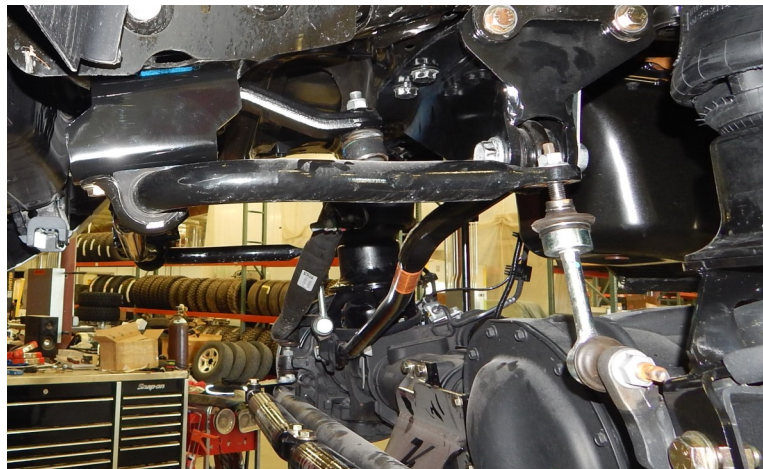
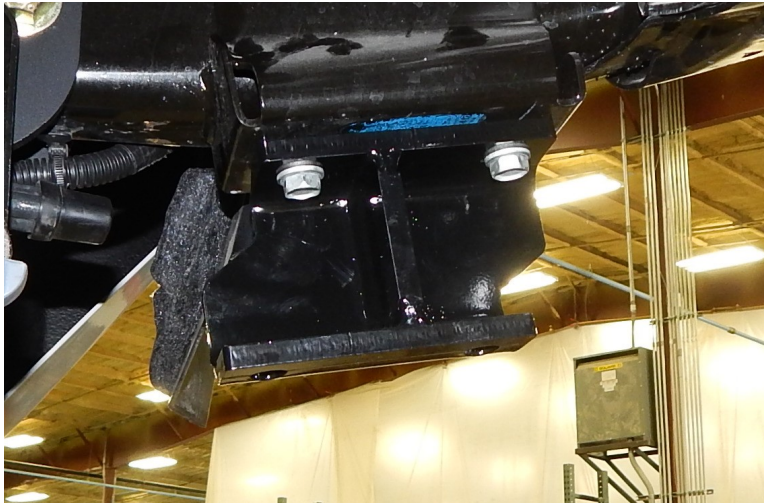
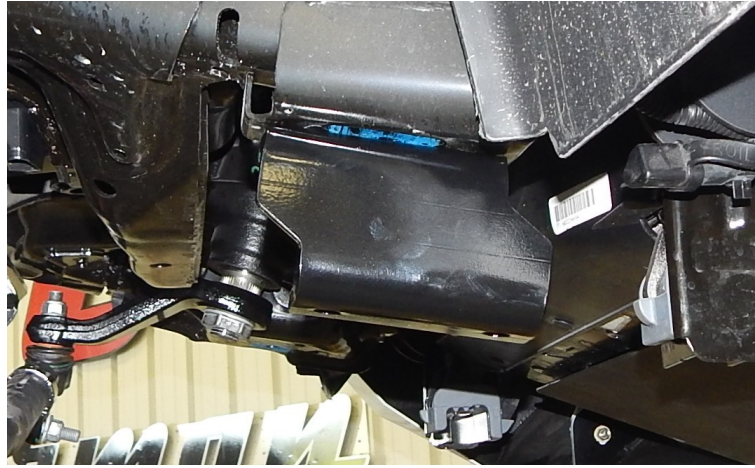
**See pictures on the next page for completed assembly.**

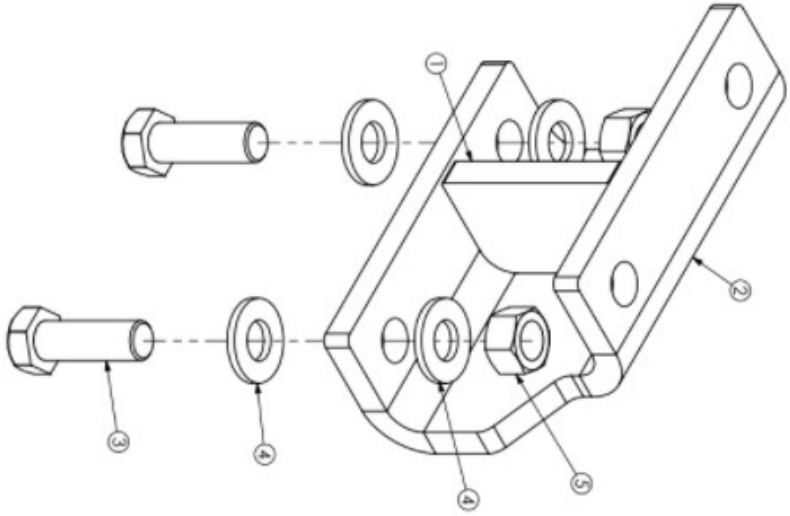
Completed Stabilizer Assembly Shown



39.) Locate the sway bar drops (Part # 18314-PS and 18336-DS). They attach to the bottom of the frame with the factory sway bar bolts.

40.) The sway bar attaches to the bottom of the sway bar drops with the 7/16"-20 x 1-1/2" bolts. Torque all the bolts to 55 ft./lbs.





ITEM NO.	PART NUMBER	DESCRIPTION	Hardware #/QTY.
1	18313	Sway Bar Support Gussel	1
2	18337	(DS) Swoer Bar Plate w/ Bends	1
		<b>Hardware</b>	
3	12007	Bolt - 1/2"-20 x 1.50" Gr.8	2
4	13004	1/2" Flat Washer	4
5	13164	Hex Nut - 1/2"-20 Gr.8	2

REV	ECN	CHANGE DESCRIPTION	CHGSR	DATE

 THIRD ANGLE PROJECTION	<b>A</b> ISO NOT SCHIZ DRAWING	1:2 Approximate Weight = 4.08 lbs
MATERIAL UNLESS OTHERWISE SPEC STD. TOLERANCES X.X ± .040 X.XXX ± .010 FIN. DIM. ± .007 DIM. ± .015	PART NUMBER: 18336 DATE: 1/4/2021	DESIGN BY: 2818

DESCRIPTION: (DS) Sway Bar Mount PKG. QTY: 2013+ From 2500-3500 Pickup 5'-6" 8-10" LH (From)	 WELDING SYMBOL QW 1/8" 45° TYPICAL WELDING SYMBOL
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**SHEET 1 OF 2**

41.) Locate the optional ride height sensor, ball stud and linkage. The sensor will mount to the side of the frame. The inner fender liner will need to be trimmed at the bottom inside where it is close to the frame. Place the sensor against the frame with the mounting holes straight up and down. Mark the holes in the sensor to locate where to drill the holes. Use a 13/64" drill bit to drill the holes and a 1/4-20 tap to thread the holes. Mount the sensor to the frame with the 1/4"-20 x 1" bolts. Adjust the linkage to 10".

42.) Locate the ball stud. It will thread into the radius arm (factory and Kelderman). Use the 17/64" drill bit to drill the hole and thread the ball stud into the hole.

43.) Remove the clip on the end of the linkage and attach the linkage to the sensor and control arm. Re-install the clip and the linkage install is complete.



*The sensor arm must be straight out at ride height. This will allow for even up and down sweep of the sensor. This is required for the air management system to calibrate correctly.*



44.) When programming the control system, the front air bag needs to be at a ride height of 7-1/2—8-1/2.” When measuring the air bag, measure between the mounting brackets.

45.) Move the truck in and out of the shop in order to get an idea of adjustment required for straightening the steering wheel. Use the adjustment on the drag link to set the wheel straight and conduct a test drive. If the truck pulls to one side or the other, a caster adjustment should be made. Take the truck to an alignment shop and get an alignment.

46.) Once the suspension has 300 miles on it, re-torque all the bolts.

47.) Inspect all components and check the bolts at regular service intervals after that.

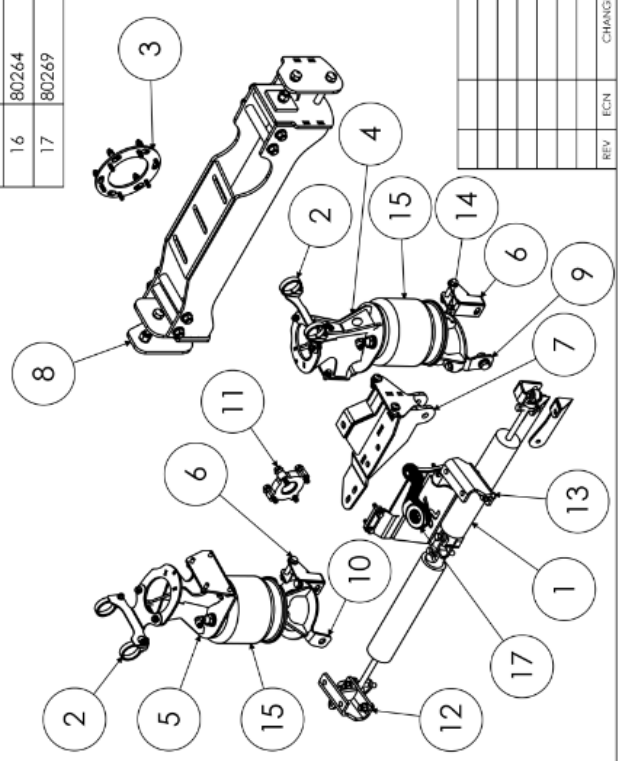
*Ride height of  
air bag is between  
7 1/2-8 1/2.”*

Measure here





# 68RFE Transmission

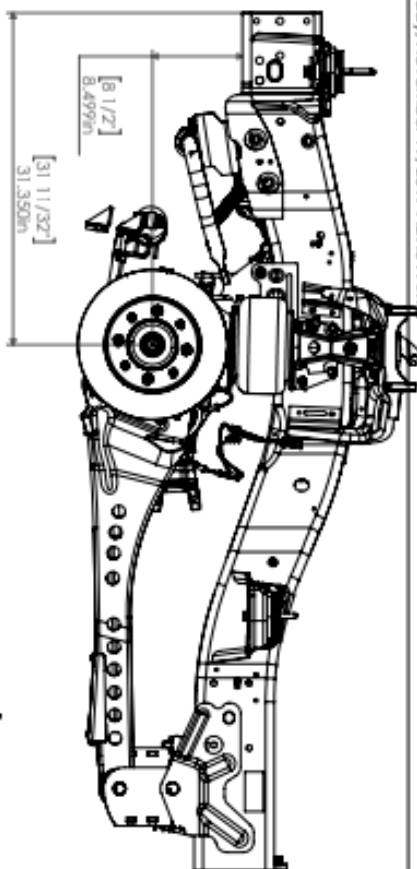


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
<b>Assemblies</b>			
1	18401	Steering Stabilizer	1
2	10004545	Assembly - Raptor Shock Reservoir Bracket	2
3	10004642	Assembly - Transfer Case Indexing Ring - 13° or 22° - Transmission: 68RFE 6-Speed	1
4	10005850	Assembly - Upper Bag Mount - DS	1
5	10005851	Assembly - Upper Bag Mount - PS	1
6	10005858	Assembly - Lower Shock Mount Extension	2
7	10006010	Assembly - PHB Drop	1
8	10006011	Assembly - Transfercase Crossmember - 5" Control Arm Drop	1
9	10006012	Assembly - Lower Bag Plate - DS	1
10	10006013	Assembly - Lower Bag Plate - PS	1
11	10006015	Assembly - Drive Shaft Spacer - 1"	1
<b>Weldments</b>			
12	18314	(PS) Sway Bar Mount	1
13	18336	(DS) Sway Bar Mount	1
<b>Parts</b>			
14	10005178	Plate - 1/4" - Brake Line Bracket Stand-Off	2
<b>Purchased Parts</b>			
15	80012-5323	Firestone 5323	2
16	80264	Purchased - Vibration-Damping Loop Clamp - 1/2" ID	1
17	80269	Purchased - 2019+ Ram 2500/3500 Flipped Taper Pitman Arm (7° Taper)	1

REV	ECN	CHANGE DESCRIPTION	CHANGE BY	DATE

<b>A</b>	DO NOT SCALE DRAWING	1:100	Approximate Weight = lbs
<b>MAT. SPECS:</b>			
DESCRIPTION KIT - Control Arm Front - 6 Inch Lift - Transmission: 68RFE 6-Speed			
PART NUMBER 10004545			
DATE 6/10/2020			
DESIGN BY: Troy Anderson			

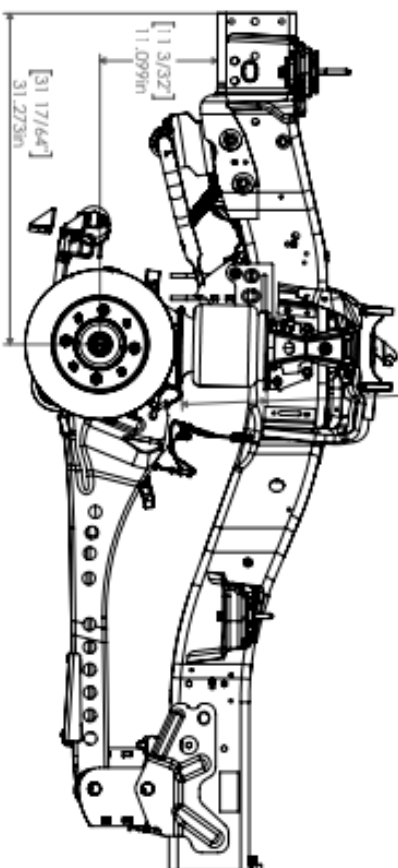
**SHEET 1 OF 2**



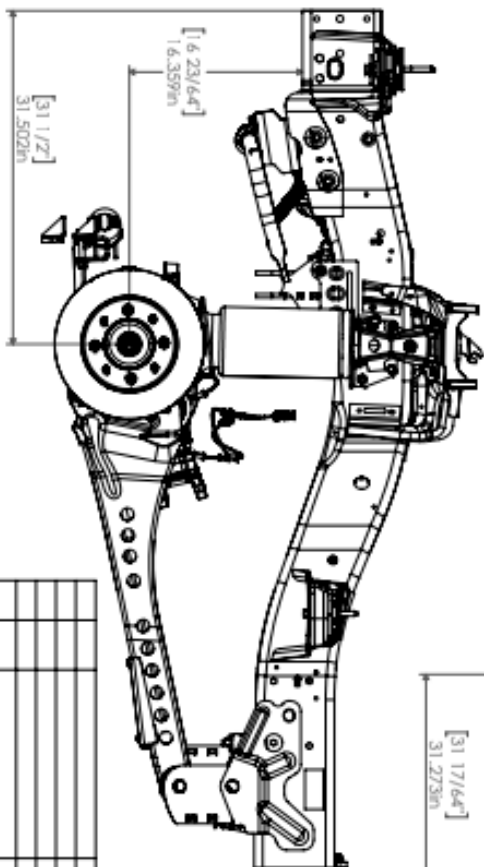
**Air Dumped**

[8"]  
8.000  
Bog Height

**Kelderman Ride Height**



**Full Droop**



REV	DCN	CHANGE DESCRIPTION	DATE	BY	CHK	APP	DATE	DESCRIPTION

**DESIGNER:** [Signature]  
**DATE:** 1/4/2021  
**PROJECT:** 2019\* KRM 2500/3500 - Control Arm front - 4 inch LB - Transmission: 48RTE 6-Speed  
**DESCRIPTION:** KRM - Control Arm front - 4 inch LB - Transmission: 48RTE 6-Speed  
**UNLESS OTHERWISE SPECIFIED:**  
 DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF.  
 TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 XX .0005  
 XXX .001  
 XXXX .010  
 FRACTIONAL 1/16"  
 DIMS 1/32"  
 ANG 1/2°





Commercial Product Warranty, Disclaimers and Warnings  
Kelderman techs are available at 641-673-0468 M-F 7:00-4:00 CST

Kelderman Air Suspension Systems offer a 3 year/ 100,000 mile Limited Warranty, parts and labor, to the original retail purchaser who owns the vehicle on which the unit was installed, for defects in materials and workmanship related to the fabricated parts. Non fabricated parts such as air bags, air compressors, gauges, solenoid kits, and electronic or mechanical air ride control systems are covered for 1 year/ 50,000 miles for parts and labor. In cases where ride control systems manufactured by The Air Lift Company or Hadley Products are provided, the ride control warranty in this document will not apply. Instead, the warranty will be that of Hadley and Air Lift.

Kelderman Air Suspension Systems must be contacted for warranty authorization before any diagnostic work or repairs are performed. At that time, Kelderman will provide diagnostic assistance and authorization for the repairs if warrantable. Any unauthorized diagnostic work performed before contacting Kelderman will not be covered under the warranty program if deemed unreasonable.

Kelderman Air Suspension System does not warrant any product for finish, alterations, modifications and/or installation different from Kelderman's instructions. Alterations / modifications to the final product include, but are not limited to powder coating, plating, and/or welding which will void the warranty. Some damage may occur to the finish of the parts during shipping. This is considered normal and is not covered under warranty.

Kelderman tries to ensure that the suspension parts fit the vehicles they were designed for, but due to unknown vehicle manufacturer's production changes and/or inconsistencies by the vehicle manufacture, Kelderman cannot be responsible for 100% fitment.

Kelderman's obligation under this warranty is limited to the replacement of the defective parts only. Freight charges, incidental or consequential damages are expressly excluded from this warranty. Kelderman is not responsible for damages and/or warranty of other vehicle parts related or non-related to the installed Kelderman Air Suspension System. This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been subject to accident, negligence, alteration, abuse or misuse as determined by Kelderman.

Kelderman Air Suspension Systems are designed to be installed, and run at the recommended ride heights provided by Kelderman. All warranties will become void if Kelderman systems are run outside the recommended ride heights, or if the systems are combined/substituted with other suspension kits. Combination and/or substitution of other components may cause premature wear and inhibit the Kelderman Air Suspension from operating as designed, which may cause severe injury or death. Kelderman does not warrant parts not manufactured by Kelderman.

It is the installer and sellers reasonability to review all these warranties, warnings and disclaimers with the consumer prior to installation.

Kelderman reserves the right to supersede, discontinue, change designs, finishes, part numbers and/or applications of parts deemed necessary without written notice. Kelderman is not responsible for misprints, or typographical errors within the catalog or price sheets.