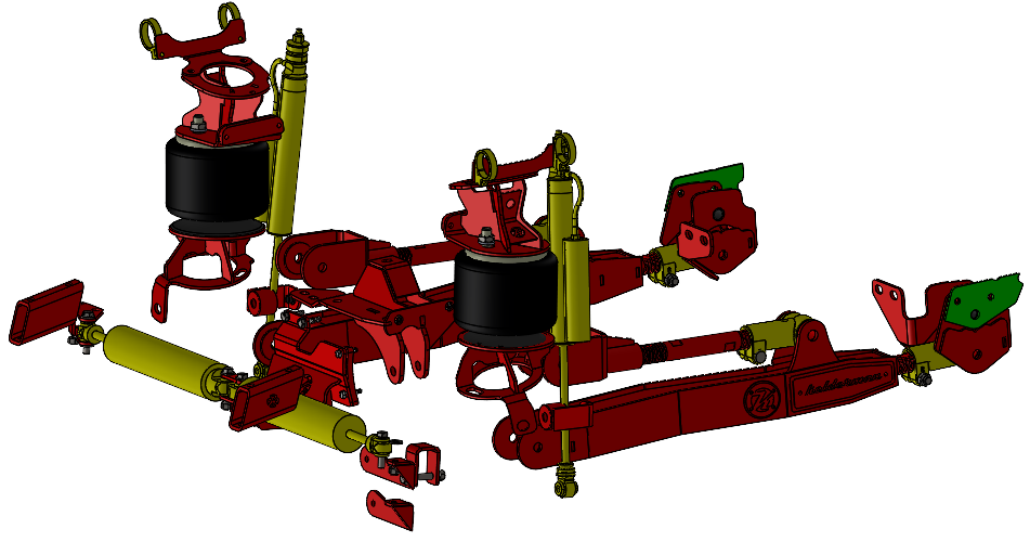


INSTALL INSTRUCTIONS

3" LIFT FRONT - 1" AXLE FORWARD
2025+ RAM 2500/3500



KIT# 10034769

kelderman



KELDERMAN MANUFACTURING

2686 HIGHWAY 92 EAST OSKALOUSA, IOWA 52577

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KIT NUMBERS

- THIS INSTALLATION MANUAL COVERS THE FOLLOWING AIR RIDE KITS.

KIT NUMBER	DESCRIPTION
10034769	KIT - 3 INCH LIFT - CONTROL ARM FRONT - AXLE 1" FORWARD



INTRODUCTION

IMPORTANT

- ♦ IT IS IMPORTANT THAT THE ENTIRE INSTALLATION INSTRUCTIONS BE READ THOROUGHLY BEFORE PROCEEDING WITH INSTALLATION.
- ♦ IF YOUR KIT WAS ORDERED RAW, OPEN EVERY BOX AND LOCATE ALL PARTS. THERE ARE SEVERAL SMALLER BUSHING PIECES AND BOLTS THAT ARE PACKAGED SEPARATELY INSIDE THE MAIN BOX.

PRODUCT INSTALLER RESPONSIBILITIES

- ♦ INSTALLER IS RESPONSIBLE FOR INSTALLING THIS PRODUCT IN ACCORDANCE WITH KELDERMAN MFG. INC. SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
- ♦ INSTALLER IS RESPONSIBLE FOR PROVIDING PROPER INSTALLATION OF VEHICLE COMPONENTS AND ATTACHMENTS AS WELL AS REQUIRED OR NECESSARY CLEARANCE FOR SUSPENSION COMPONENTS, AXLES, WHEELS, TIRES, AND OTHER VEHICLE COMPONENTS TO ENSURE A SAFE AND SOUND INSTALLATION AND OPERATION OF THIS PRODUCT.

DEFINITION OF TERMS

- ♦ **WARNING:** INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.
- ♦ **CAUTION:** A POTENTIAL HAZARDOUS SITUATION MAY RESULT IN PROPERTY DAMAGE.
- ♦ **NOTE:** PROVIDE INFORMATION OR SUGGESTIONS THAT HELP CORRECTLY PERFORM A TASK.
- ♦ **TORQUE:** WHEN ITALICIZED "TORQUE" ALERTS THE INSTALLER TO TIGHTEN FASTENERS TO A SPECIFIED VALUE.

BOLT TORQUE CHART

BOLT SIZE	GRADE 5 TORQUE	GRADE 8 TORQUE
1/4"-20	8 <i>FT-LB</i>	12 <i>FT-LB</i>
3/8"-16	19 <i>FT-LB</i>	26 <i>FT-LB</i>
3/8"-24	21 <i>FT-LB</i>	30 <i>FT-LB</i>
1/2"-13	45 <i>FT-LB</i>	64 <i>FT-LB</i>
1/2"-20	50 <i>FT-LB</i>	70 <i>FT-LB</i>
9/16"-18	70 <i>FT-LB</i>	100 <i>FT-LB</i>
5/8"-11	90 <i>FT-LB</i>	125 <i>FT-LB</i>
5/8"-18	100 <i>FT-LB</i>	150 <i>FT-LB</i>
3/4"-16	175 <i>FT-LB</i>	250 <i>FT-LB</i>
7/8"-14	275 <i>FT-LB</i>	400 <i>FT-LB</i>

SAFETY

YOUR SAFETY AND THE SAFETY OF OTHERS IS VERY IMPORTANT.

- ◆ READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND INSTRUCTIONS BEFORE INSTALLING THIS PRODUCT.

CAUTION: TRUCKS EQUIPPED WITH PARKING SENSORS OR OTHER LIKE DEVICES.

- ◆ RELOCATION OF THESE DEVICES WILL ALTER THE FIELD OF VIEW. IT IS THE RESPONSIBILITY OF THE OWNER TO UNDERSTAND HOW THESE CHANGES AFFECT THE OPERATION OF THESE SYSTEMS.

WARNING: COMPONENTS UNDER PRESSURE.

- ◆ BLEED ALL PRESSURE FROM THE AIR SYSTEM BEFORE PERFORMING ANY MAINTENANCE OR SERVICE. SERIOUS INJURY COULD OCCUR IF COMPONENTS ARE REMOVED WHILE SYSTEM IS PRESSURIZED.

WARNING: CARELESS INSTALLATION CAN RESULT IN SERIOUS INJURY OR PROPERTY DAMAGE

- ◆ WEAR EYE PROTECTION.
- ◆ DISCONNECT THE BATTERY BEFORE DOING ANY WORK ON THE VEHICLE.
- ◆ WORK ON FLAT LEVEL GROUND.
- ◆ ENSURE TRUCK IS PROPERLY SUPPORTED BY JACK STANDS. NEVER WORK UNDER A VEHICLE SUPPORTED ONLY BY HYDRAULIC JACKS.
- ◆ TAKE PRECAUTIONS WHEN LIFTING PRODUCT. DUE TO THE SIZE AND WEIGHT OF THIS PRODUCT TWO PEOPLE ARE RECOMMENDED FOR INSTALLATION.
- ◆ NEVER WORK DIRECTLY UNDER THE PRODUCT UNTIL IT HAS BEEN SECURELY FASTENED TO THE VEHICLE.
- ◆ AVOID SHARP, HOT, AND MOVING COMPONENTS WHEN ROUTING ELECTRICAL CABLES AND AIR LINES.
- ◆ IF DRILLING, INSPECT BOTH SIDES OF THE SURFACE AND REMOVE/RELOCATE ANY OBJECTS LOCATED IN THE WAY.
- ◆ ENSURE ALL BOLTS ARE PROPERLY TIGHTENED BEFORE DRIVING.

PRODUCT OWNER RESPONSIBILITIES

- ◆ PRODUCT OWNER IS SOLELY RESPONSIBLE FOR PRE-OPERATION INSPECTION, PERIODIC INSPECTIONS, MAINTENANCE, AND USE OF THE PRODUCT AS SPECIFIED BY KELDERMAN MFG. INC. OF PARTICULAR IMPORTANCE IS THE RE-TORQUE OF FASTENERS.
- ◆ THIS RE-TORQUE MUST BE PERFORMED WITHIN 2500 MILES OF THIS PRODUCT BEING PUT INTO SERVICE.
- ◆ THE KELDERMAN AIR SUSPENSION IS FULLY AUTOMATIC IN CONTROLLING THE HEIGHT OF THE CHASSIS WHEN PROPERLY INSTALLED.
- ◆ NO MANUAL INTERVENTION TO CONTROL AIR PRESSURE OR RIDE HEIGHT IS NEEDED DURING THE COURSE OF NORMAL OPERATION.
- ◆ PRODUCT OWNER IS RESPONSIBLE FOR “*DOWN TIME*” EXPENSES, CARGO DAMAGE, AND ALL BUSINESS COSTS AND LOSSES RESULTING FROM A WARRANTABLE FAILURE.

SERVICE INTERVALS

FIRST 2,500 MILES

- ◆ CHECK RIDE HEIGHT $\pm 1/4$ ”
- ◆ CHECK FOR AIR LEAKS AROUND FITTINGS.
- ◆ CHECK FOR ANY LOOSE OR RUBBING HOSES AND WIRES.
- ◆ RE-TORQUE ALL HARDWARE.

EVERY 30,000 MILES

- ◆ CHECK RIDE HEIGHT $\pm 1/4$ ”
- ◆ CHECK FOR AIR LEAKS AROUND FITTINGS.

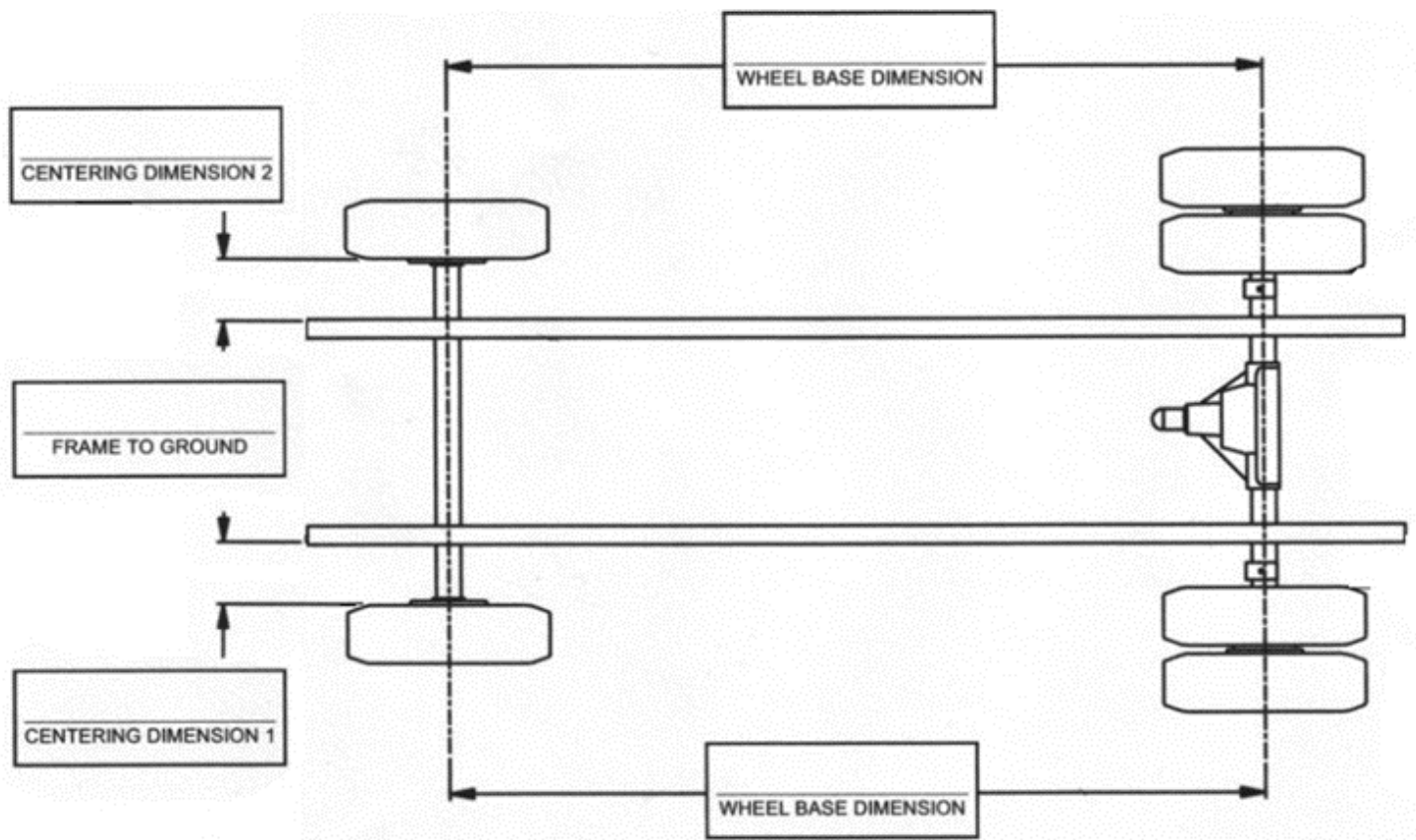
DISASSEMBLY

BEFORE DOING ANYTHING, MEASURE THE PINION ANGLE AND RECORD IT. THIS IS IMPORTANT BECAUSE YOU WILL NEED TO PUT THE AXLE BACK TO THIS MEASUREMENT AFTER INSTALLATION. SEE FIGURE 1.

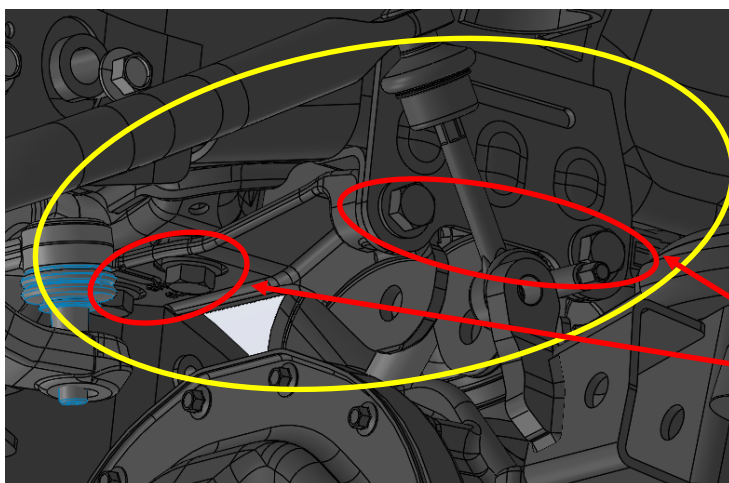
PINION ANGLE _____



TAKE THE FOLLOWING MEASUREMENTS FOR FUTURE REFERENCE. THESE MEASUREMENTS WILL BE USED TO ADJUST THE SUSPENSION AFTER INSTALLATION.



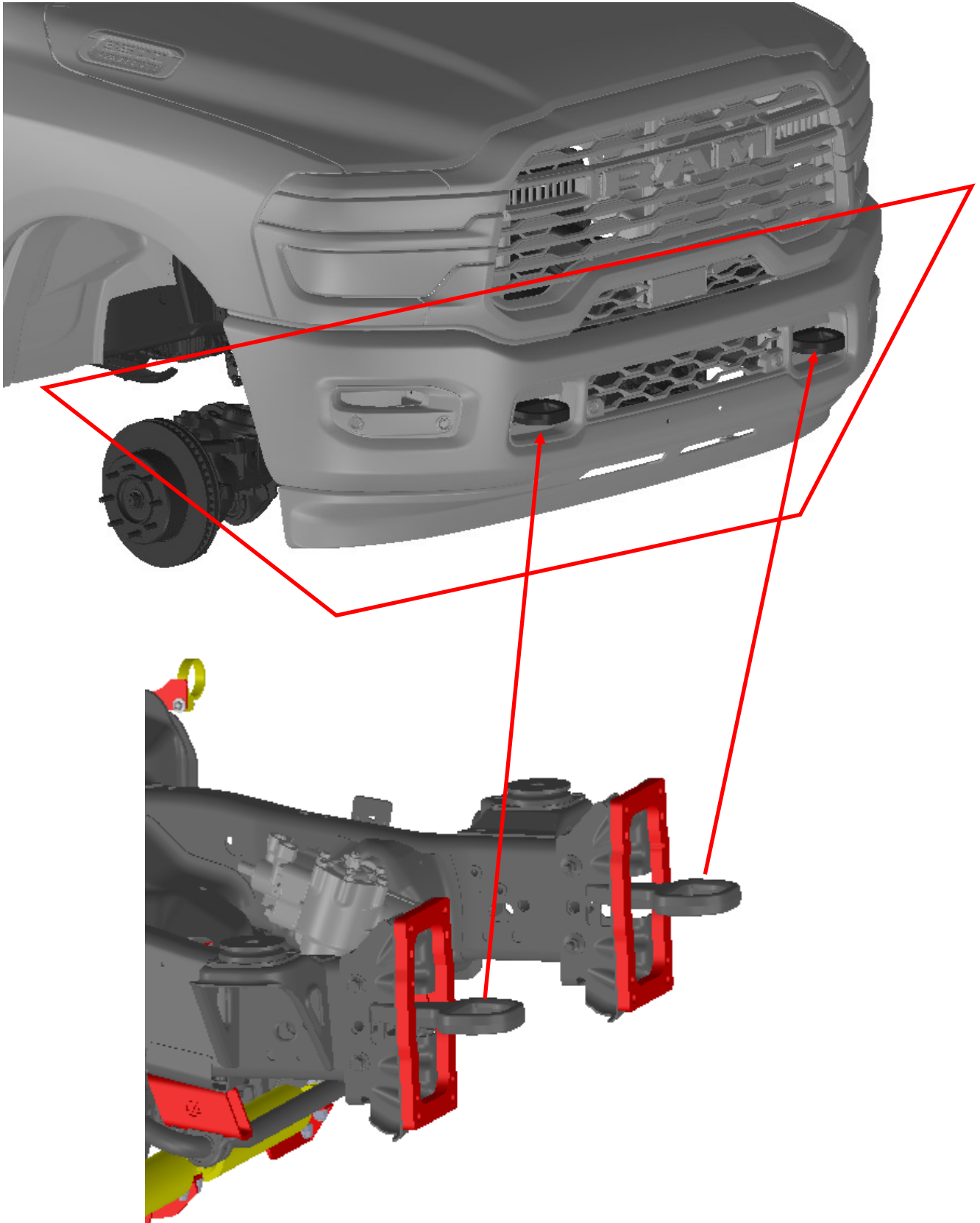
1. IF YOU DO NOT HAVE A LIFT, JACK THE TRUCK UP AT THE FRONT AXLE AND PLACE JACK STANDS UNDER THE FRONT OF THE FRAME JUST BEHIND THE RADIATOR. REMOVE THE WHEELS AND REMOVE THE SHOCKS. LOWER THE JACK DOWN SO THE TENSION IS OFF THE COIL SPRINGS AND REMOVE THE SPRINGS. REMOVE FACTORY TRACK BAR MOUNT AND KEEP HARDWARE. TRANSFER CASE SKID PLATE NEEDS TO BE REMOVED BEFORE INSTALLING DROP BRACKETS.



REMOVE FACTORY TRACK
BAR MOUNT

KEEP HARDWARE FOR
LATER INSTALL

NOTE: IF YOU ARE USING THE FACTORY BUMPER AND 37" TIRES, YOU WILL HAVE TO INSTALL THE BUMPER SPACES SO THE TIRES DON'T RUB ON THE FENDER. REMOVE THE FRONT BUMPER AND INSTALL BUMPER SPACERS (#10038709) IN BETWEEN BUMPER MOUNTS AND FACTORY FRONT BUMPER. RE-INSTALL USING THE FACTORY HARDWARE.

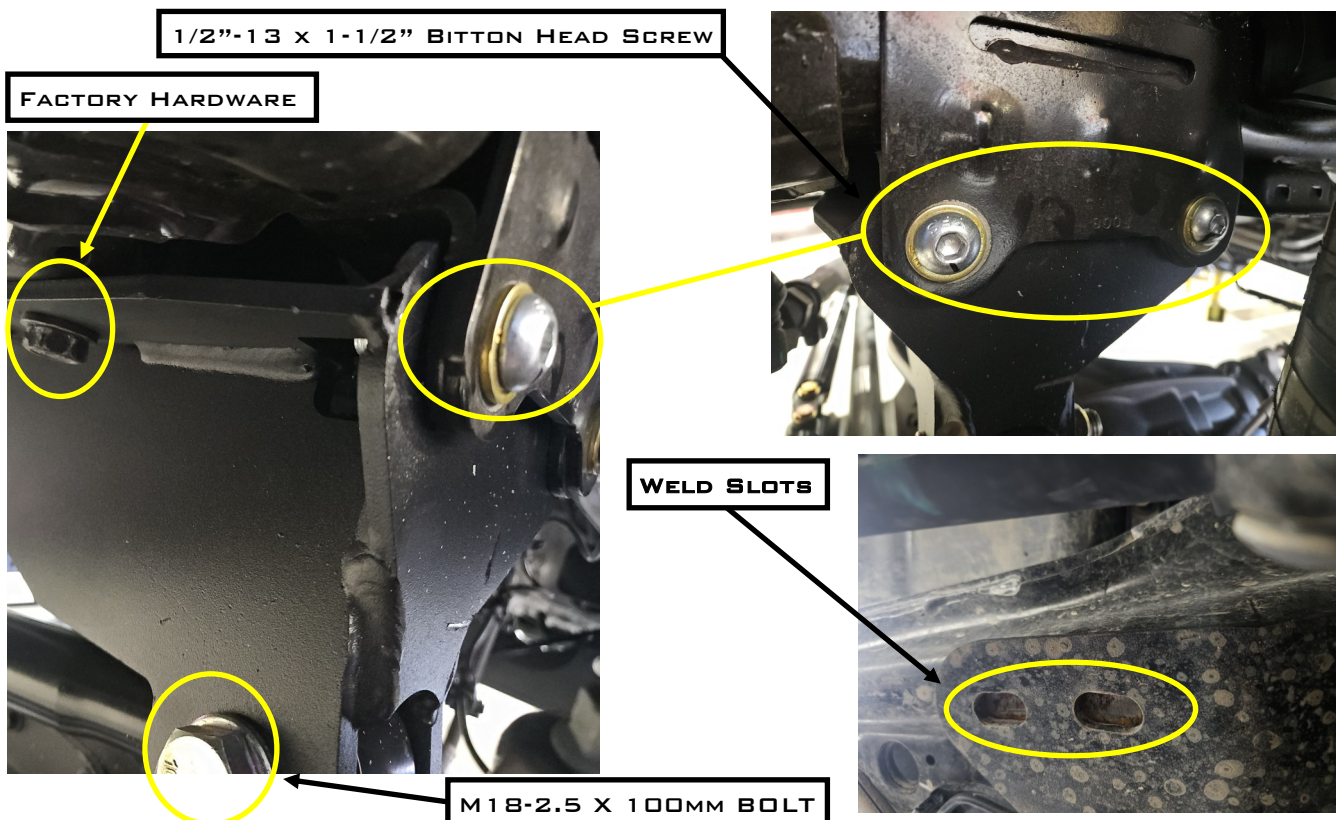


ASSEMBLY

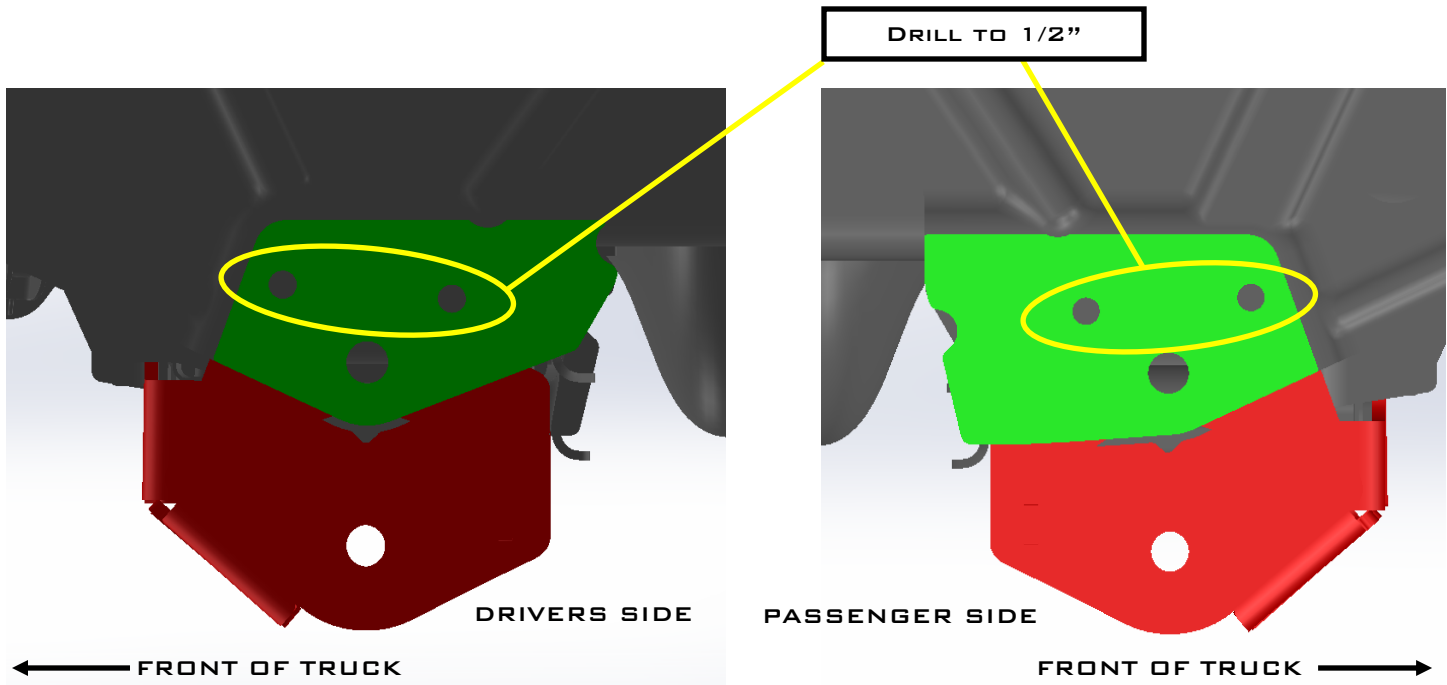
1. LOCATE THE DRIVESHAFT SPACER (#10004625). THE SPACER WILL INSTALL BETWEEN THE AXLE AND THE DRIVESHAFT WITH M12-1.75MM X 50MM FERRY CAP SCREWS.



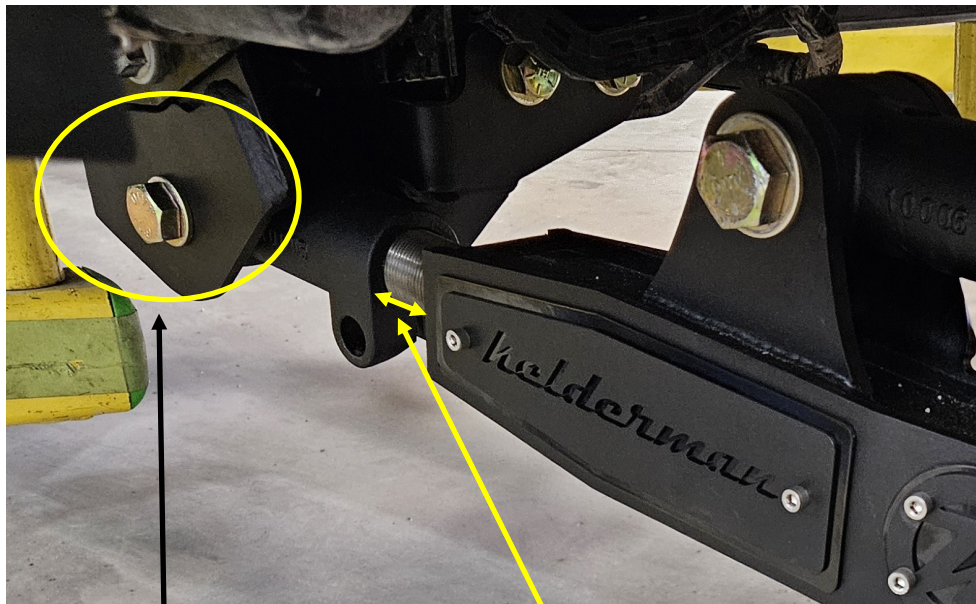
2. LOCATE THE PANHARD BAR DROP (#10034825). THE DROP ATTACHES TO THE FACTORY LOCATION WITH 1/2"-13 X 1-1/2" BUTTON HEAD SCREWS AND FACTORY HARDWARE. YOU WILL ATTACH THE FACTORY TRACK BAR WITH M18-2.5 X 100MM BOLT AND SPACER (#15815). THE SPACER WILL BE TOWARDS THE REAR OF THE TRUCK. WELD SLOTS AFTER TIGHTENING BOLTS.



3. LOCATE RADIUS ARM DROP WELDMENT (#10037498-DS & #10037502-PS). REMOVE FACTORY RADIUS ARM, ***ONLY DO ONE SIDE AT A TIME***. USING THE DRILL TEMPLATE, DRILL THE HOLES TO ATTACH THE RADIUS ARM DROP. DRILL THE HOLES TO $1\frac{7}{32}$ " FOR BOLT CLEARANCE. BACK OUT THE CROSSMEMBER BOLTS AND INSTALL THE MOUNTING BRACKETS WITH $\frac{1}{2}$ "-20 X $1\frac{1}{2}$ " BOLTS. USE THE FACTORY RADIUS ARM BOLT IN THE TOP HOLE AND USE THE $\frac{5}{8}$ "-18 X $8\frac{1}{2}$ " BOLTS TO ATTACH THE FRONT OF THE RADIUS ARM DROPS. USE THE M18-2.5MM X 130 BOLT TO CONNECT THE RADIUS ARM TO THE MOUNT. TORQUE THE M18 BOLTS TO 150 FT./LBS. AND THE $\frac{5}{8}$ " CROSSMEMBER BOLTS TO 130 FT./LBS.



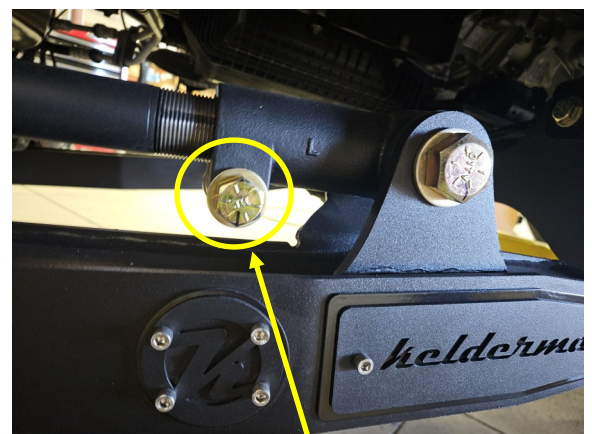
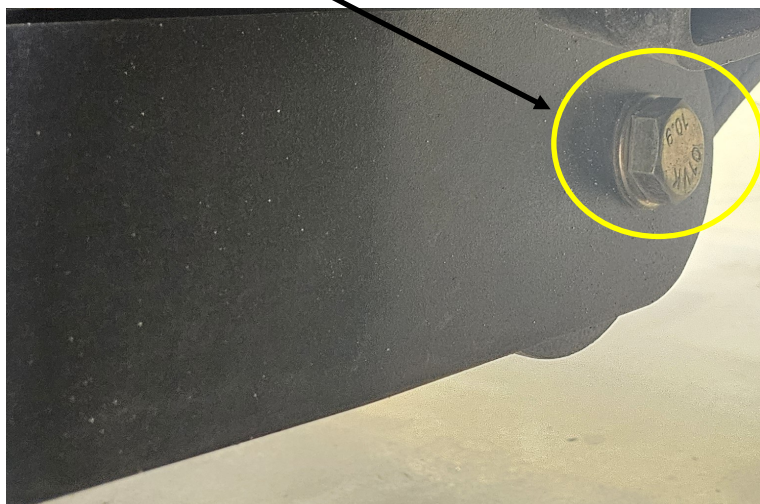
4. LOCATE RADIUS ARM ASSEMBLY (#10034775-DS & #10034756-PS). INSTALL THE RADIUS ARM ASSEMBLY TO THE DROP MOUNT WITH M18-2.5MM X 130MM BOLT. SET THE GAP BETWEEN THE CAST KNUCKLE AND RADIUS ARM TO APPROXIMATELY 2". YOU MAY NEED TO ROTATE THE CAST KNUCKLES TO GET THE CORRECT LENGTH DURING INSTALL. THE RADIUS ARM BOLTS TO THE LOWER FACTORY RADIUS ARM LOCATION WITH THE M18-2.5MM X 130MM BOLTS. INSTALL SPACERS (#158150 AND #18777). THE 15815 SPACER TOWARDS THE CENTER OF THE TRUCK ON THE REAR SIDE OF THE RADIUS ARM. THE 18777 SPACER TOWARDS THE CENTER OF THE TRUCK ON THE FRONT SIDE OF THE RADIUS ARM. ONCE THE KNUCKLES ARE SET, INSTALL THE 5/8"-18 X 3" PINCH BOLTS IN THE KNUCKLES. TORQUE THE M18 BOLTS TO 150 FT./LBS. AND 5/8" BOLTS TO 175 FT./LBS.



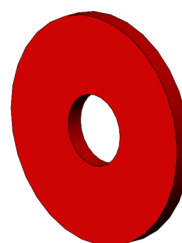
MEASURE TO THE END OF THE THREADED ROD PLATE, NOT TO THE SIDE PLATE THAT STICKS OUT.

M18-2.5 X 130MM BOLT

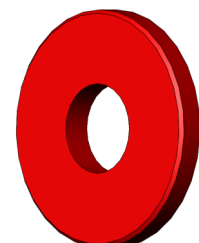
2" SPACING



5/8"-18 X 3" BOLTS

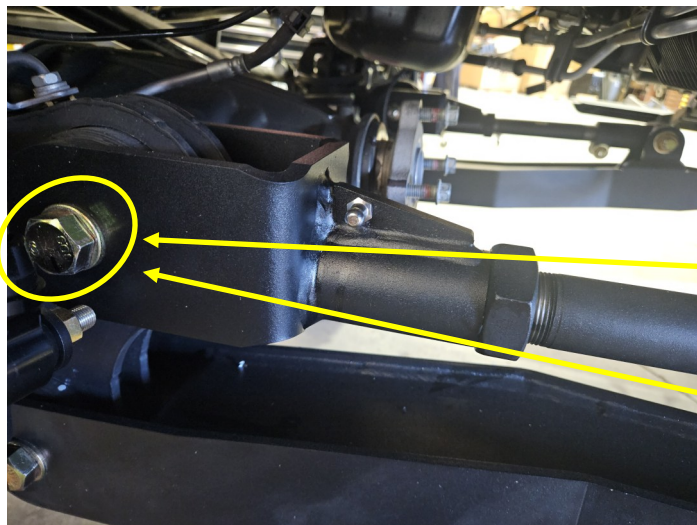
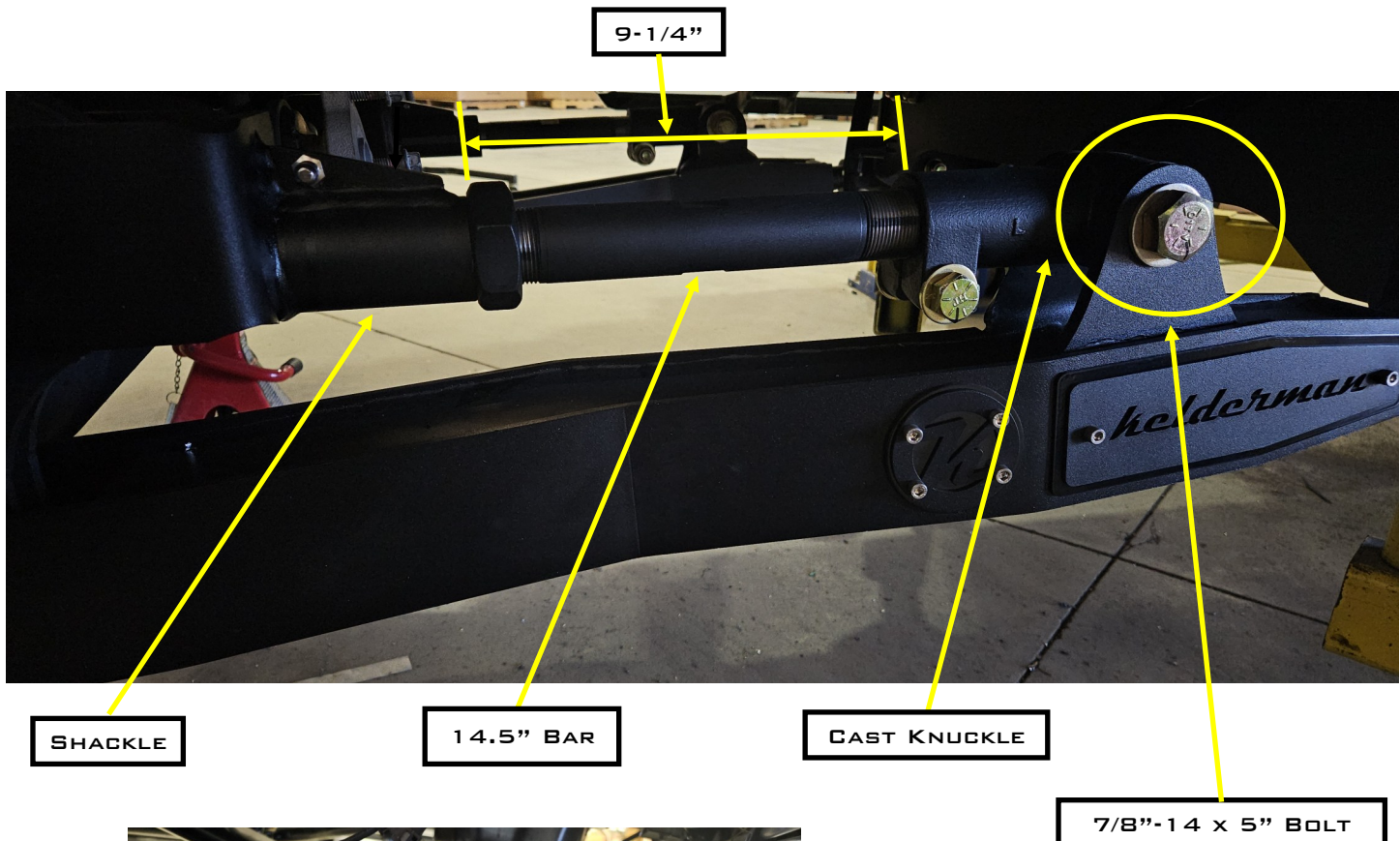


15815



18777

5. LOCATE RADIUS ARM SHACKLE (#10014992-DS & #10015016-PS), CAST KNUCKLE (#10006), 14.5" TRAILING ARM BARS (#52114.5), 1-1/2"-12 JAM NUTS (#13219) AND SPACER (#15815). ASSEMBLE JAM NUT TO THE BAR THEN THREAD BAR INTO SHACKLE. THREAD THE CAST KNUCKLE ON THE OTHER END OF THE BAR. THERE SHOULD BE ABOUT 9-1/4" BETWEEN THE SHACKLE AND THE CAST KNUCKLE (ADJUSTMENT MAYBE NEEDED DEPENDING ON THE PINION ANGLE). ATTACH TO THE UPPER FACTORY RADIUS ARM LOCATION WITH M18-2.5MM X 140MM BOLT. ATTACH THE KNUCKLE END TO THE RADIUS ARM ASSEMBLY WITH 7/8"-14 X 5" BOLT. INSTALL 5/8"-18 X 3" BOLT TO THE CAST KNUCKLE. TORQUE THE M18 AND 7/8" BOLTS TO 150 FT./LBS.



4. PROCEED WITH THE OTHER SIDE FOLLOWING THE STEPS 1-3.

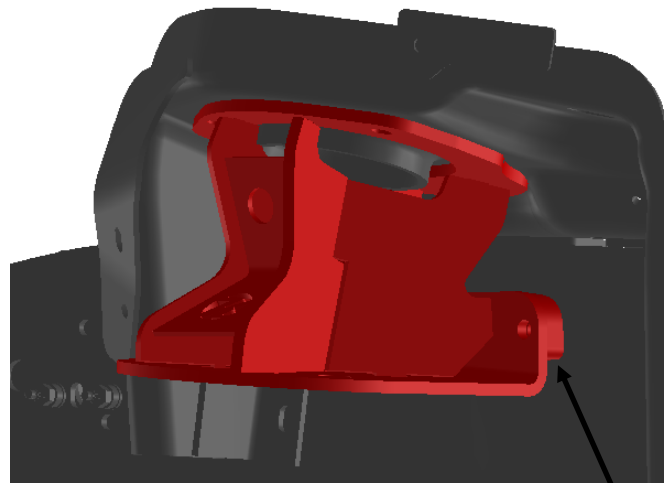
6. LOCATE THE UPPER BAG MOUNTS (#10034804-DS AND 10034847-PS), UPPER RESERVOIR MOUNTS (#10037488) AND FRAME WELD-ON PLATES (#10038151). IF YOUR TRUCK IS RUNNING MONOTUBE SHOCKS YOU WILL NOT USE THE UPPER RESERVOIR MOUNTS. THE RESERVOIR MOUNTS INSTALL WHEN INSTALLING THE UPPER BAG MOUNTS. THERE ARE TWO HOLES IN THE UPPER COIL SPRING BUCKET. THE REAR HOLE IS NOT USED FOR BOLTING. HOLD THE UPPER BAG MOUNT IN PLACE, LINE UP THE FOREWORD HOLE AND MARK THE OTHER HOLE. PULL THE UPPER BAG MOUNT, CENTER PUNCH THE MARK AND DRILL TO 7/16" OR 3/8".

ATTACH THE 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.**

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.** IF USING THE RESERVOIR MOUNTS, SLIDE THEM IN BETWEEN THE UPPER SPRING BUCKET AND UPPER AIR BAG MOUNT. TIGHTEN THE 3/8" BOLTS IN THE TOP TO 35 FT./LBS.



BOLT THIS HOLE AND MARK THE OTHER SIDE

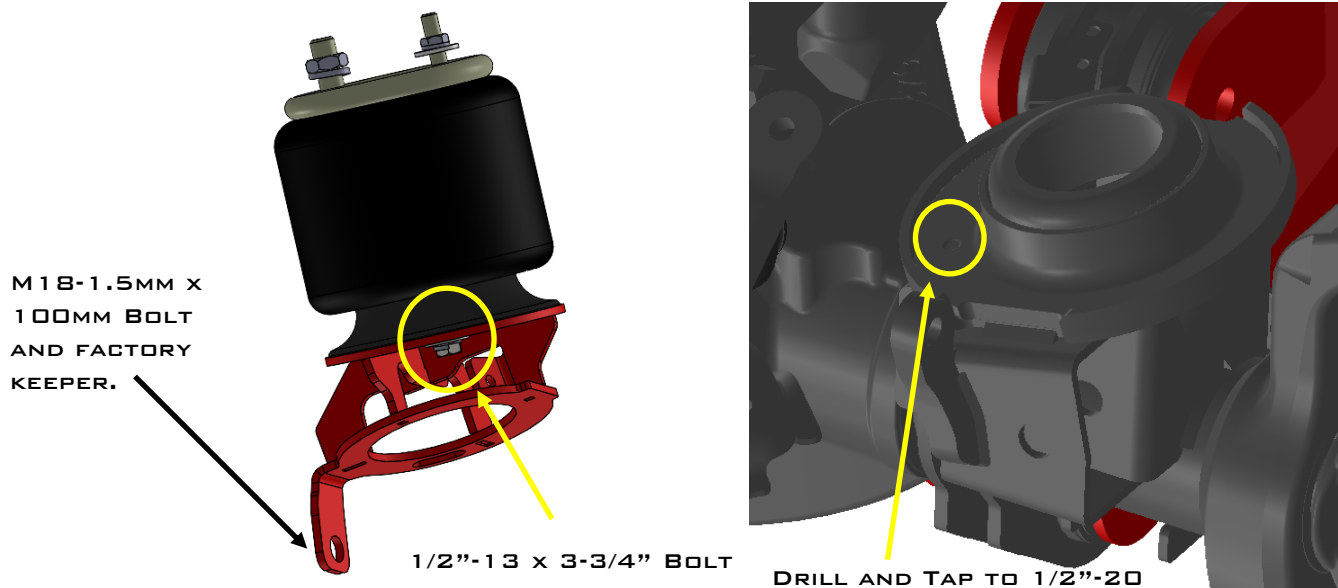


MARK SPACER PLATE AND WELD AROUND THE OUTSIDE ON EACH SIDE AND A STICH IN THE CENTER



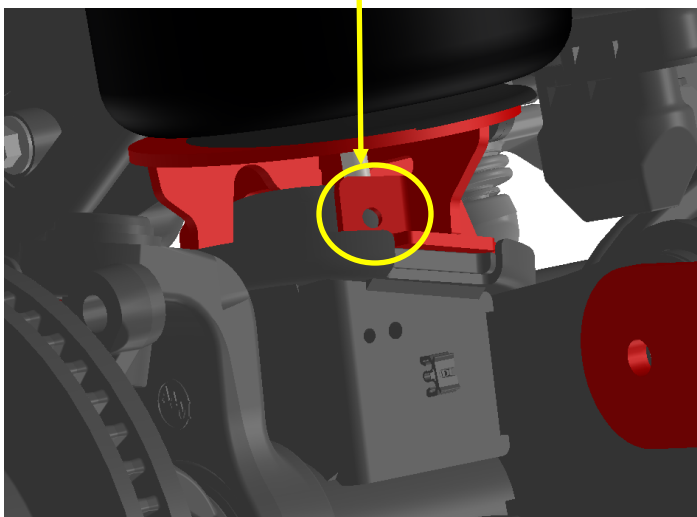
THE REMOTE RESERVOIR SHOCK MOUNT FASTENS IN BETWEEN THE UPPER COIL BUCKET AND UPPER BAG MOUNT

7. LOCATE LOWER BAG MOUNTS (#10037573-DS & 10037576-PS), AIR BAGS (#80012-5323) AND THE ADJUSTABLE TRACK BAR (#80251). REMOVE THE FACTORY TRACK BAR. FASTEN THE AIR BAG TO THE LOWER AIR BAG MOUNT WITH THE 1/2"-13 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. FIND THE HOLES IN THE BOTTOM OF THE SPRING BUCKET. THE HOLE TOWARDS THE CENTER OF THE TRUCK WILL BE TAPPED TO 1/2"-20".



8. INSTALL THE LOWER BAG ASSEMBLY & FASTEN WITH A 1/2"-20 X 1" BOLT IN THE HOLE THAT WAS JUST DRILLED AND TAPPED. LOCATE THE 3/8" HOLE IN THE REAR OF THE AIR BAG MOUNT. DRILL A 21/64" INTO THE LOWER SPRING PERCH, USING THE 3/8" HOLE GUIDE. TAP THIS HOLE TO 3/8"-24". ONCE THIS IS DONE INSERT THE 3/8"-24 X 1-1/2" BOLT AND TORQUE BOTH BOLTS TO 35 FT./LBS. THE PASSENGER SIDE ALSO USES THE FACTORY TRACK BAR TO HOLD THE LOWER BAG IN PLACE, SO INSERT THE FACTORY TRACK BAR INTO THE PASS SIDE AXLE MOUNT. YOU WILL ATTACH THE OTHER END OF THE TRACK BAR IN THE UPCOMING STEPS. THE DRIVERS SIDE USES THE 5/8"-18 X 1-1/2" BOLT ON THE FRONT TO HOLD THE LOWER BAG MOUNT. TIGHTEN BOLTS TO 175 FT./LBS.

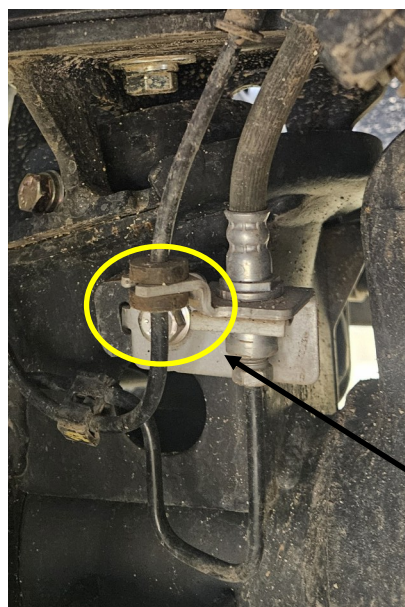
TAP TO 3/8"-24



9. FASTEN THE AIR BAGS INTO THE UPPER AIR BAG MOUNTS. USE THE 3/4" AND 1/2" NUTS AND LOCK WASHERS ON THE TOP. TIGHTEN ALL THE NUTS AND BOLTS TO 35 FT./LBS. LOCATE THE AIR FITTING AND INSTALL INTO THE AIR PORT ON TOP OF THE BAG. TIGHTEN FINGER TIGHT AND THEN ONE COMPLETE TURN AFTER THAT.



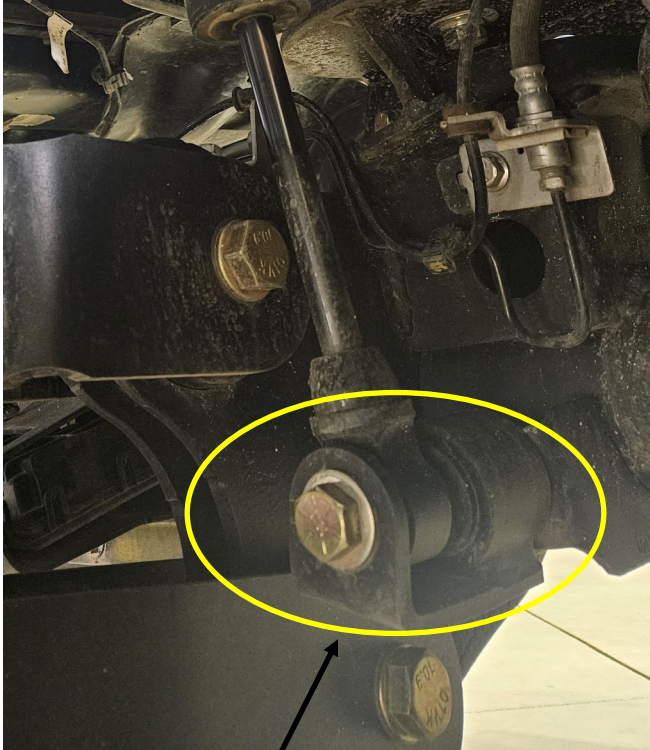
10. LOCATE THE BRAKE LINE STAND OFF BRACKET WELDMENT (#10037517). INSTALL BETWEEN THE BRAKE LINE MOUNTING BRACKET AND THE AXLE WITH M8 X 1.25MM X 30MM FLANGE BOLT. THIS WILL PREVENT THE BRAKE LINE FROM RUBBING ON THE LOWER AIR BAG MOUNT.



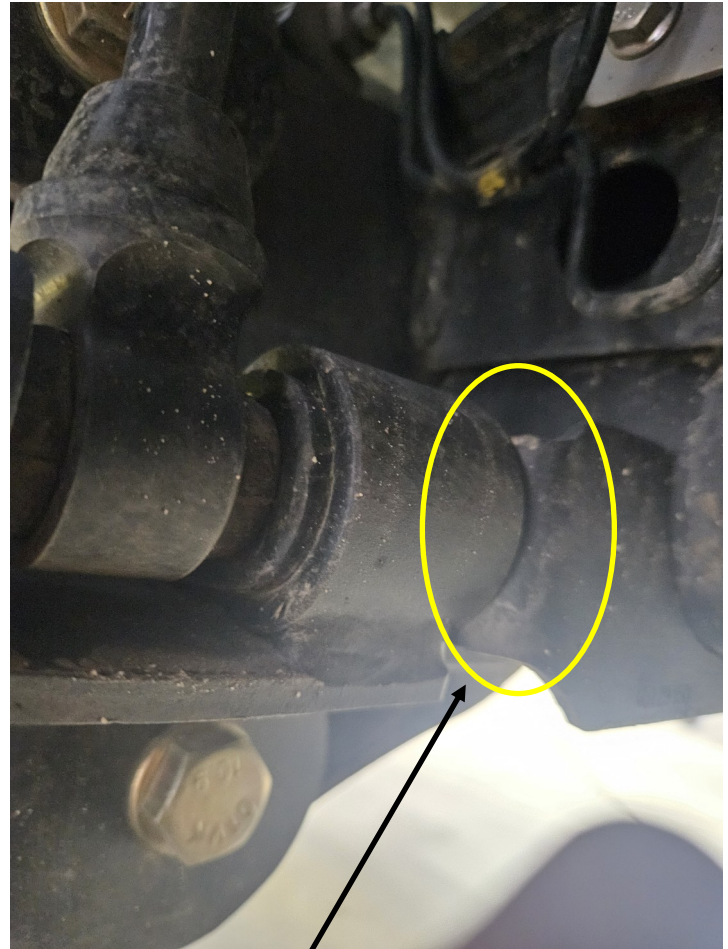
M8 X 1.25MM X 30MM FLANGE BOLT

11. LOCATE THE LOWER SHOCK MOUNTS (#18378). THEY FASTEN INTO THE LOWER OEM SHOCK MOUNTS WITH 1/2"-20 X 3-1/2" BOLT.

A WELD IS ALSO REQUIRED TO ADD ADDITIONAL STRENGTH TO THE SHOCK MOUNT. USE PROPER SAFETY GEAR AND ELECTRONICS PROTECTION WHEN WELDING.

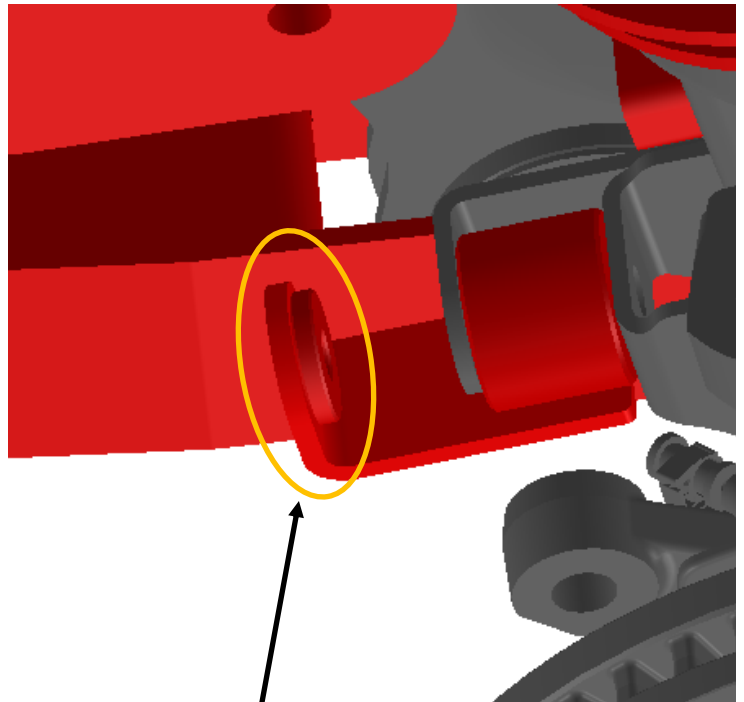


1/2"-20 x 3-1/2" BOLT



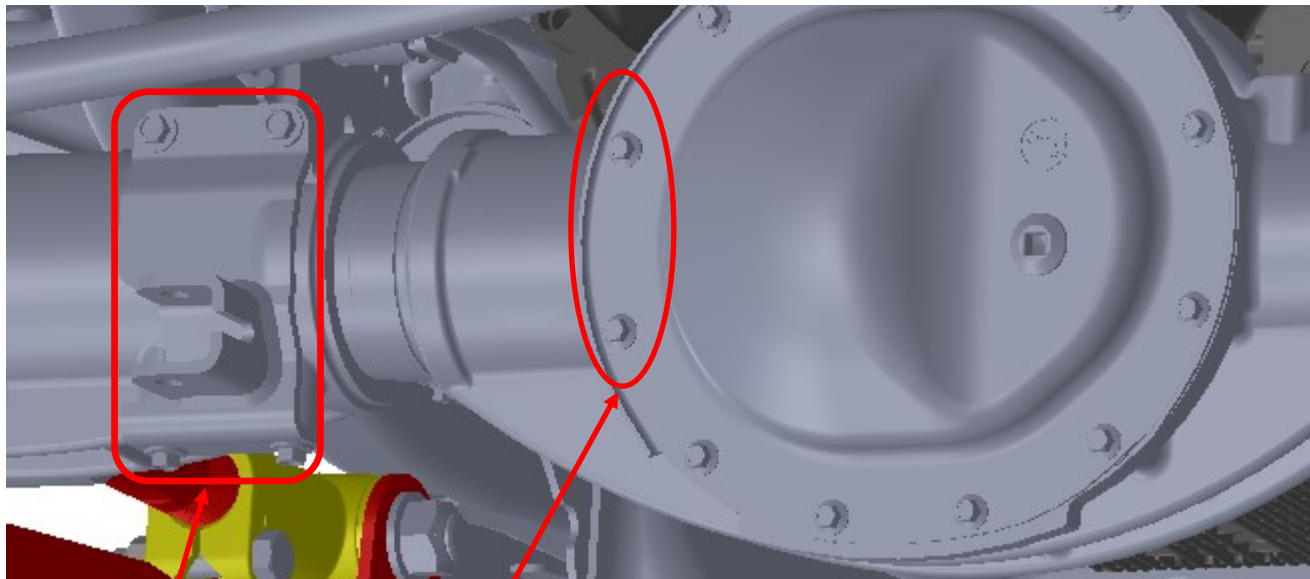
WELD HERE

12. LOCATE THE SHOCKS (#10003380). FASTEN THE LOWER END OF THE SHOCK INTO THE SHOCK MOUNT WITH THE 1/2"-20 X 5-1/2" BOLT AND SLIDE THE ROUND END OF THE MOUNT IN THE FACTORY SHOCK LOCATION ON THE AXLE. MAKE SURE TO USE PROVIDED SPACER (#11551) ON EACH SHOCK MOUNT. TORQUE THIS BOLT TO 125 FT./LBS.



SPACER (#11551)

13. LOCATE THE STEERING STABILIZER KIT. LOCATE THE STEERING STABILIZER BRACKET (#18443) AND SPACER (#18333). REMOVE THE CENTER (2) BOLTS OFF THE DIFFERENTIAL COVER. REMOVE THE OEM FACTORY STEERING SHOCK AND STABILIZER BRACKET OFF THE BOTTOM OF THE AXLE. THE TOP AND BOTTOM 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 DIFFERENTIAL COVER. IF USING THE STOCK DIFF 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.

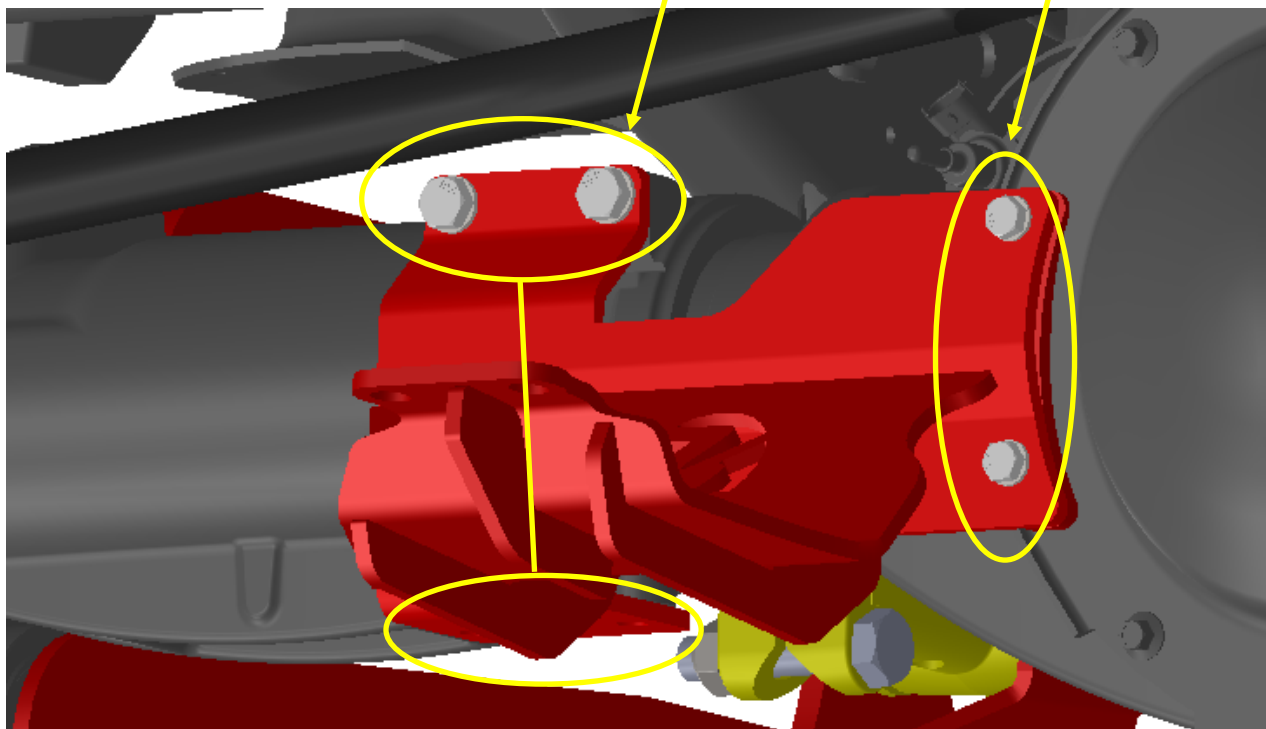


REMOVE AND DISCARD
FACTORY MOUNT BUT
KEEP HARDWARE

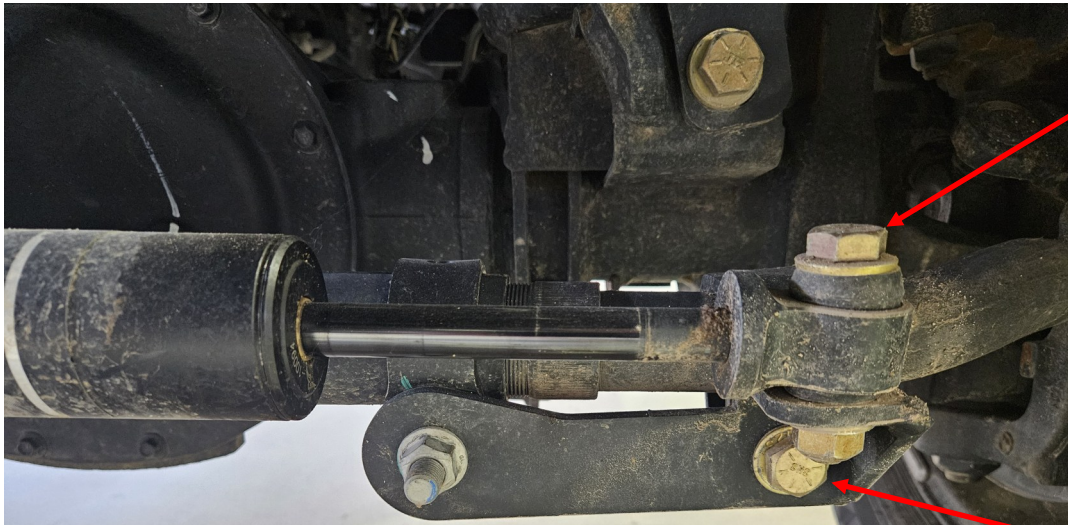
REMOVE AND DISCARD

FACTORY HARDWARE

M8-1.25MM X 40MM BOLTS



14. LOCATE THE SHOCK STRAP (#20227), STABILIZER SHOCKS (#10003382/ RAPTOR 10094) AND OUTER SHOCK MOUNTS (#18400-PS & 18397/18409-DS OR 10015301). THE DRIVER SIDE OUTER SHOCK MOUNTS FASTEN TO THE TIE ROD WITH THE OEM BOLT AND 1/2"-20 X 3" BOLTS. THE PASSENGER SIDE OUTER SHOCK MOUNT ATTACHES TO THE TIE ROD WITH 1/2"-20 X 3" BOLTS THAT HELD THE OEM SHOCK BRACKET IN PLACE AND TO THE SHOCK WITH 1/2"-20 X 3" BOLT.



1/2"-20 x 3"

1/2"-20 x 3"



1/2"-20 x 3"

1/2"-20 x 3"



SHOCK STRAP

15. LOCATE THE SWAY BAR DROPS (#10035152-DS & 10035153-PS). FASTEN IN PLACE WITH THE FACTORY BOLTS ON THE TOP AND FASTEN THE SWAY BAR TO THE SWAY BAR DROP WITH THE 3/8"-24 X 1-1/2" BOLTS. TORQUE TO 50 FT./LBS.

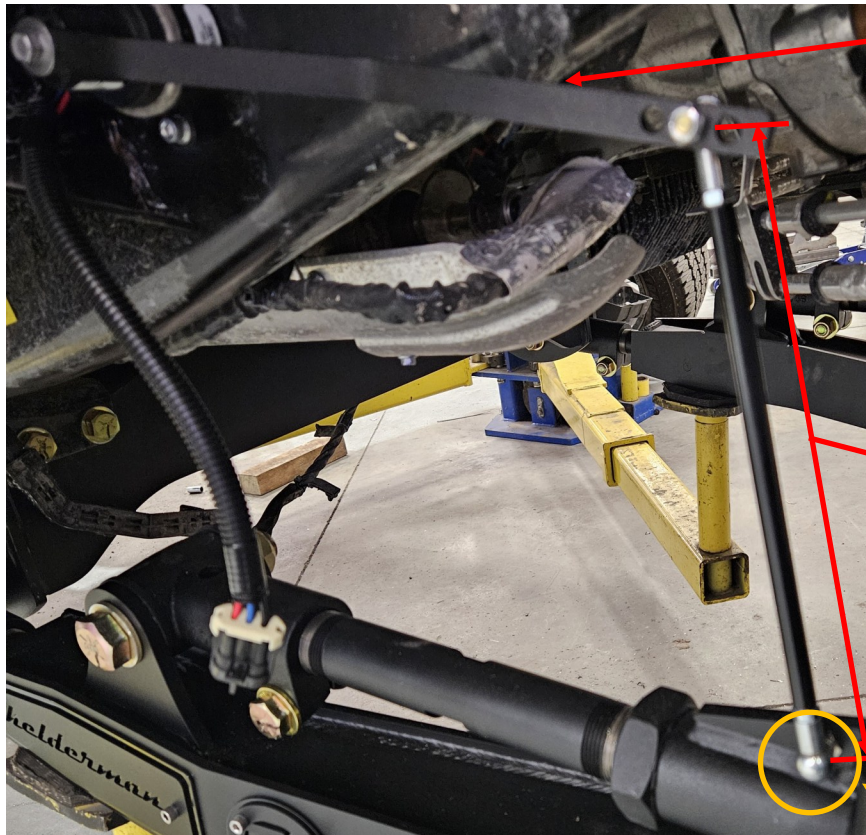
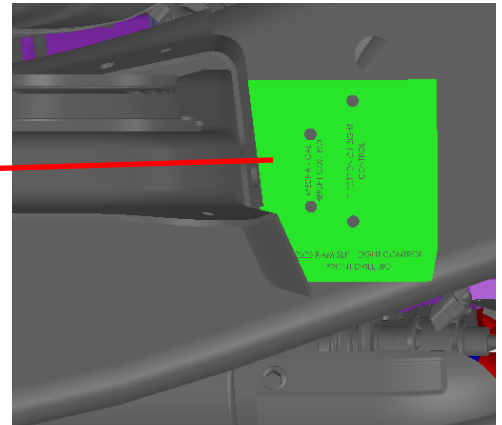
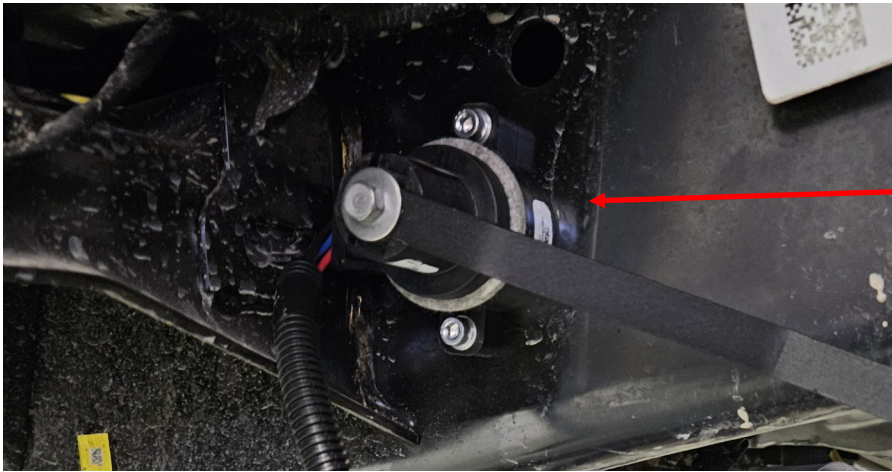
3/8"-24 x 1-1/2"



16. LOCATE THE DRIVESHAFT SPACER (#10004625). THE SPACER WILL INSTALL BETWEEN THE AXLE AND THE DRIVESHAFT WITH M12-1.75 X 50MM 12-POINT FERRY CAP SCREWS.



17. LOCATE THE RIDE HEIGHT SENSOR, SENSOR ARM (#51699), DRILL JIG PLATE (10038340), 5/16"-18 BALL STUD AND 7" LINKAGE. THE SENSOR WILL MOUNT TO THE SIDE OF THE FRAME WITH THE PROVIDED DRILL JIG. THE INNER FENDER LINER WILL NEED TO BE TRIMMED AT THE BOTTOM INSIDE WHERE IT IS CLOSE TO THE FRAME. PLACE THE JIG UP THE PLATE AS SHOWN AND MARK THE HOLES TO DRILL. JIG HAS HOLES PLACEMENT FOR MECHANICAL AND ELECTRONIC SENSORS. USE A 1 3/64" DRILL BIT TO DRILL THE HOLES. USE A 1/4"-20 TAP TO THREAD THE HOLES. MOUNT THE SENSOR TO THE FRAME WITH THE 1/4"-20 X 1" BOLTS. MARK AND DRILL A 1/4" HOLE AND THEN TAP WITH A 5/16"-18 TAP FOR THE BALL STUD. THREAD THE BALL STUD INTO THE HOLE. 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.



51699 SENSOR ARM

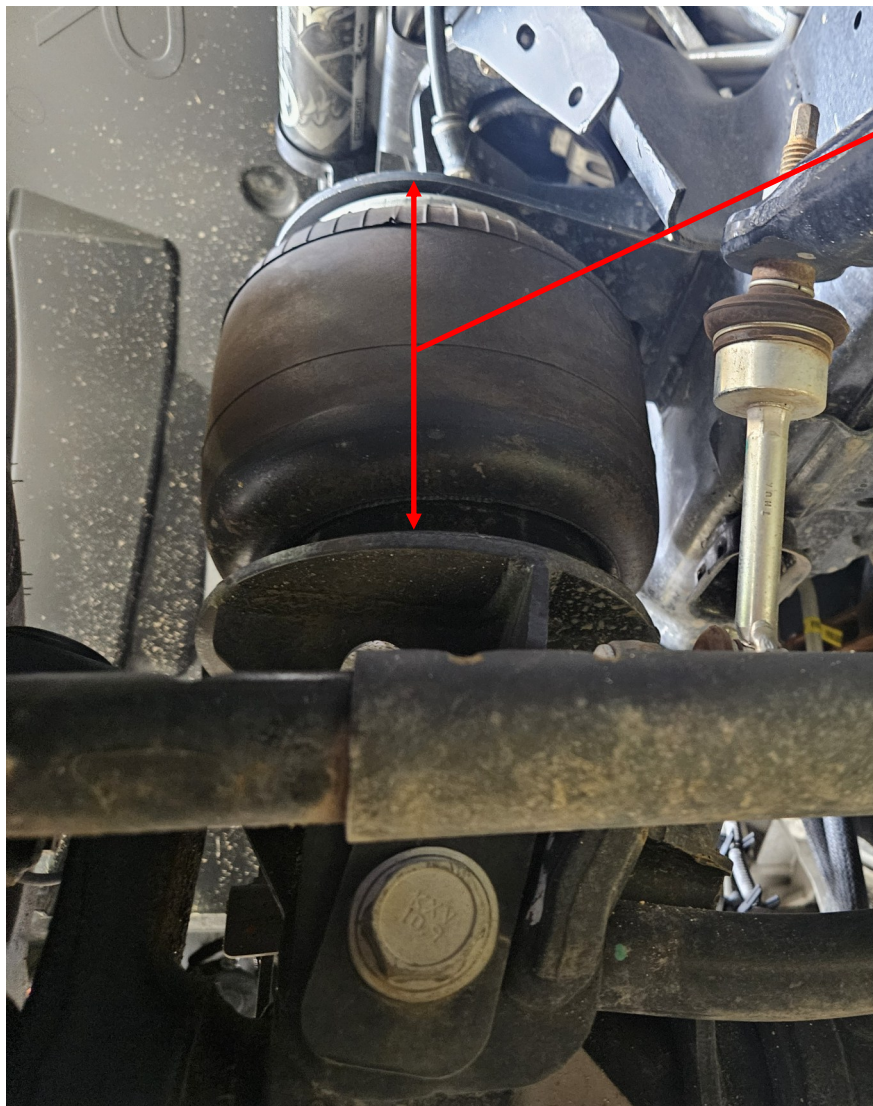
7" LINKAGE

DRILL 1/4" HOLE THEN
TAP TO 5/16"-18

17. WHEN PROGRAMING THE CONTROL SYSTEM, THE FRONT AIR BAG NEEDS TO RUN AT A RIDE HEIGHT OF 7.5" WHEN MEASURING THE AIR BAG, MEASURE BETWEEN THE MOUNTING BRACKETS.

18. 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.

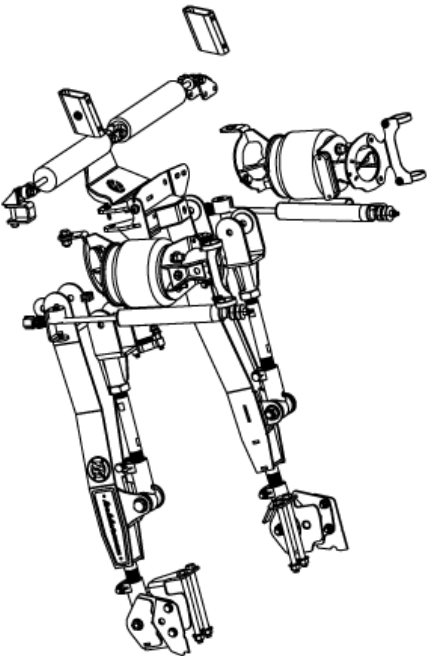
19. ONCE THE SUSPENSION HAS 300 MILES ON IT, RE-TORQUE ALL THE BOLTS. CHECK THE BOLTS AT REGULAR SERVICE (OIL CHANGE) INTERVALS AFTER THAT.



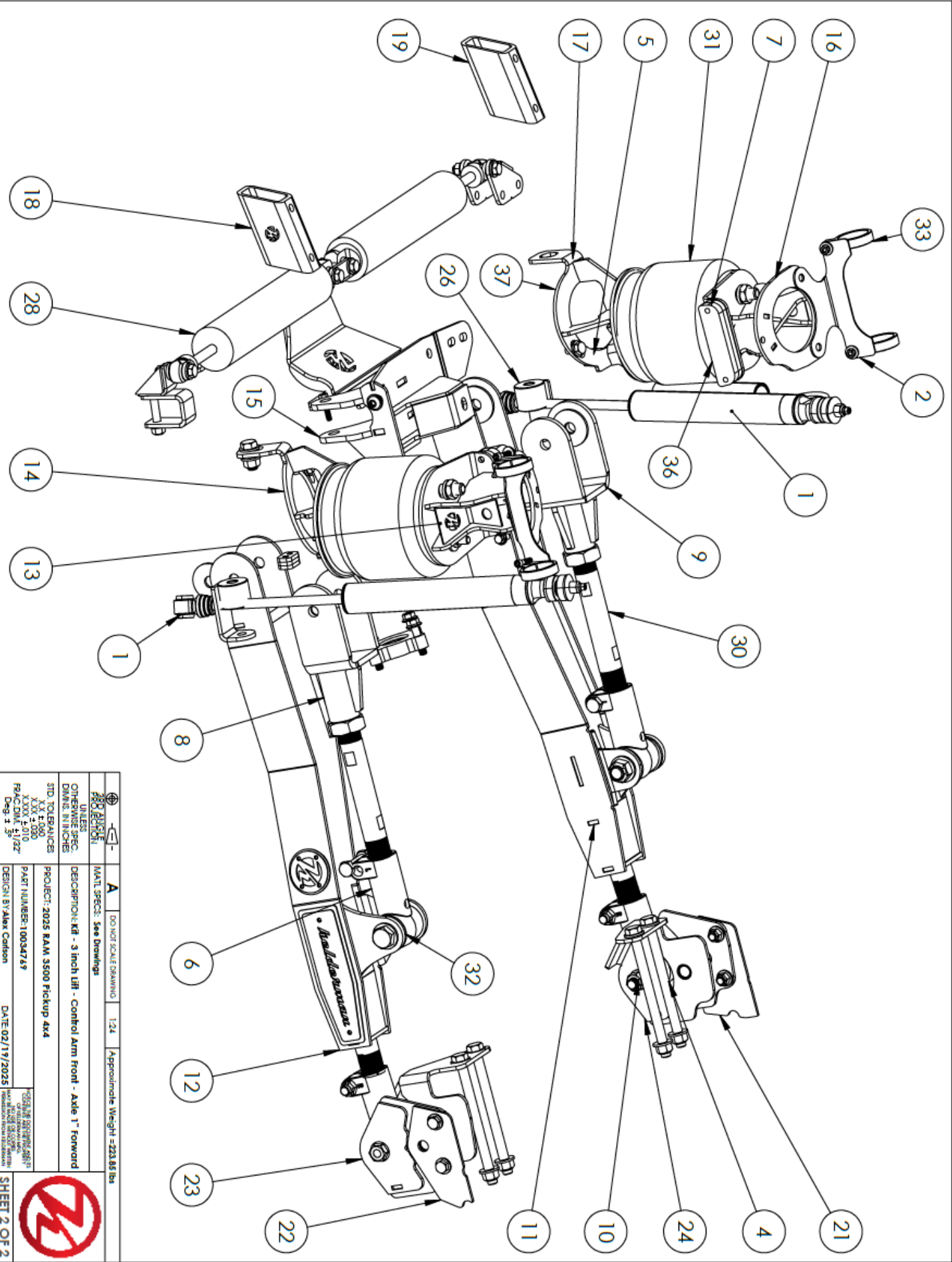
KIT DRAWINGS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	10033380	Kelderman-Raptor 2.0 Stem Mount Remote Reservoir Shock. (10092LH)	2
2	10004566	PLATE - 11GA - RAPTOR SHOCK RESERVOIR FRONT MOUNT - W/BENDS	1
3	10004625	PLATE - 1" - FRONT DRIVE SHAFT DIFFERENTIAL FLANGE EXTENSION (7/8") - W/MACHINING	1
4	10005	PURCHASED PARTS - CAST TRAILING ARM KNUCKLE (RHT) (1-1/2"-12 UNF)	2
5	10037517	WELDMENT - BRAKE LINE STAND OFF BRACKET	2
6	10006	PURCHASED PARTS - CAST TRAILING ARM KNUCKLE (LHT) (1-1/2"-12 UNF)	2
7	10013535	PLATE - 1/2" - FRAME WELD-ON FRONT PERCH	2
8	10014992	WELDMENT - RADIUS ARM SHACKLE (DS)	1
9	10015016	WELDMENT - RADIUS ARM SHACKLE (PS)	1
10	10015059	SLEEVE - 1.125" OD X 0.72" ID X 3" LONG	2
11	10034756	WELDMENT - (PS) RADIUS ARM	1
12	10034775	WELDMENT - (DS) RADIUS ARM	1
13	10034808	WELDMENT - (DS) UPPER BAG PLATE	1
14	10034809	WELDMENT - (DS) AXLE / LOWER BAG MOUNT	1
15	10034825	WELDMENT - PHB DROP	1
16	10034847	WELDMENT - (PS) UPPER BAG PLATE	1
17	10034849	WELDMENT - (PS) AXLE / LOWER BAG MOUNT	1
18	10035152	TUBE - 2 X 3 X 1/4" - SWAYBAR DROP BRACKET (DS)	1
19	10035153	TUBE - 2 X 3 X 1/4" - SWAYBAR DROP BRACKET (PS)	1
20	10037488	Plate - (DS) Raptor Shock Reservoir Front Mount - w/Bends	1
21	10037496	PLATE - DRILL JIG (PS)	1
22	10037497	Plate - Drill Jig (DS)	1
23	10037498	WELDMENT - CONTROL ARM DROP (DS)	1
24	10037502	WELDMENT - CONTROL ARM DROP (PS)	1
25	15815	PLATE - 7GA - .781" ID X 2.50" OD X .177" THK	4
26	18378	WELDMENT - FOX SHOCK RELOCATION BRACKET	2
27	18777	PLATE - 1/4" - PHB WASHER - KITS W/ 3/4" BOLT	2
28	10038633	ASSEMBLY - 3" STEERING STABILIZER - 2025+ RAM	1
29	20093	BUSHING - 1-1/8"OD X .880"ID X 3"L	2
30	52114.5	TUBE - TRAILING ARM - 1.45" LONG - THREAD: EXTERNAL 1.5"-12	2
31	80012-5323	AIR BAG - FIRESTONE 5323	2
32	80136	PURCHASED - POLY HAT BUSHING - 1.79"OD X 1-1/8"ID X 1-7/16"L	8
33	80227	PURCHASED - ALUMINUM SPLUT CLAMP - 2.0" DIA	4
34	80264	PURCHASED - VIBRATION-DAMPING LOOP CLAMP - 1/2" ID	1
35	13219	JAM NUT RHT - 1-1/2"-12 - GR5 - PLAIN	2
36	10038151	PLATE - 5/8" - FRAME WELD-ON FRONT PERCH	2
37	10038405	WELDMENT - (PS) AXLE / LOWER BAG MOUNT - ALT ANGLE	1

REVISIONS			
REV.	DESCRIPTION	DATE	BY
A	Added 10038151 & 10038405 and Updated 10034847	7/22/2025	AWC

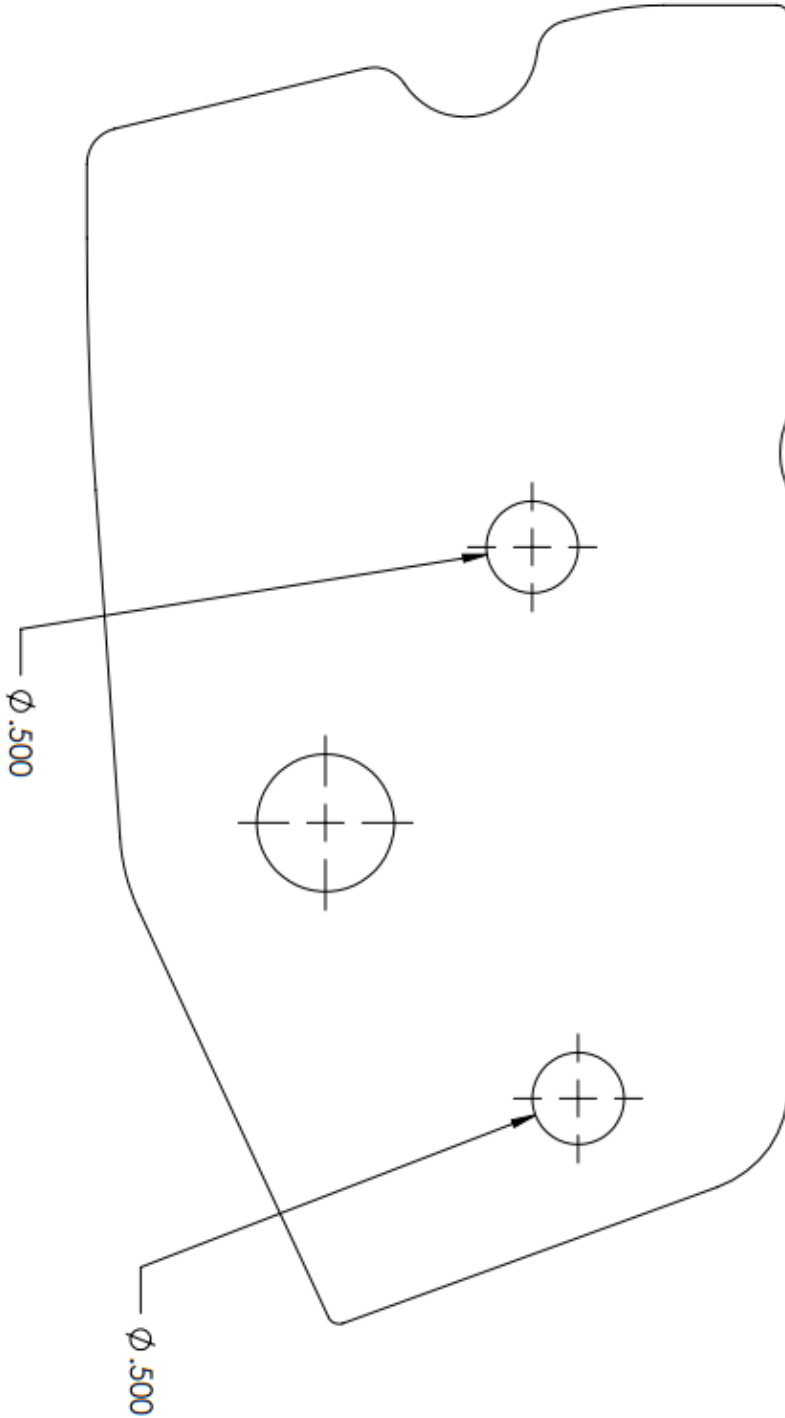


		A	DO NOT SCALE DRAWING	1:24	Approximate Weight - 223.85 lbs
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES		MATERIAL SPEC: See Drawings			
TOLERANCES XXX +.001		PROJECT: 2025 RAM 3500 Pickup 4x4			
FRACTIONAL 31/32"		DESCRIPTION: Kit - 3 inch Lift - Control Arm front - Axle 1" Forward			
DEC 3 3/4"		PART NUMBER: 10034749			
		DESIGN BY: Alex Carlson			
		DATE 02/19/2025			
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		A		DO NOT SCALE DRAWING	1:24	Approximate Weight - 223.85 lbs
PROJECT INFORMATION						
OTHER NAME: SPEC.		MATERIAL SPEC:		See Drawings		
DIMENS. IN INCHES		DESCRIPTION: Kit - 3 inch Lift - Control Arm Front - Axle 1" Forward				
STD. TOLERANCES						
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3" RADIUS ARM DROP BRACKET DRILL TEMPLATE - PS



REVISIONS			
REV.	DESCRIPTION	DATE	BY

	A	DO NOT SCALE DRAWING	1/2	Approximate Weight = 1.17 lbs
PROJECT:				
MAIL SPEC: ASTM A572 Grade 50				
DESCRIPTION: Plate - Drill Jig (PS)				
STD. TOLERANCES				
UNLESS OTHERWISE SPEC.				
DIMS. IN INCHES				
X.XX ± .040				
X.XXX ± .005				
FRAC.DIM.: 1/32"				
Dwg.: 3"				
PROJECT: 2025+ Ram 3500 Pickup				
PART NUMBER: 10037496				
DESIGN BY:				
DATE:				
DESIGNING ENGINEER CHECKED BY DATE OF CHECK DATE OF APPROVAL DATE OF RELEASE				
DATE OF APPROVAL DATE OF RELEASE				
DATE OF APPROVAL DATE OF RELEASE				

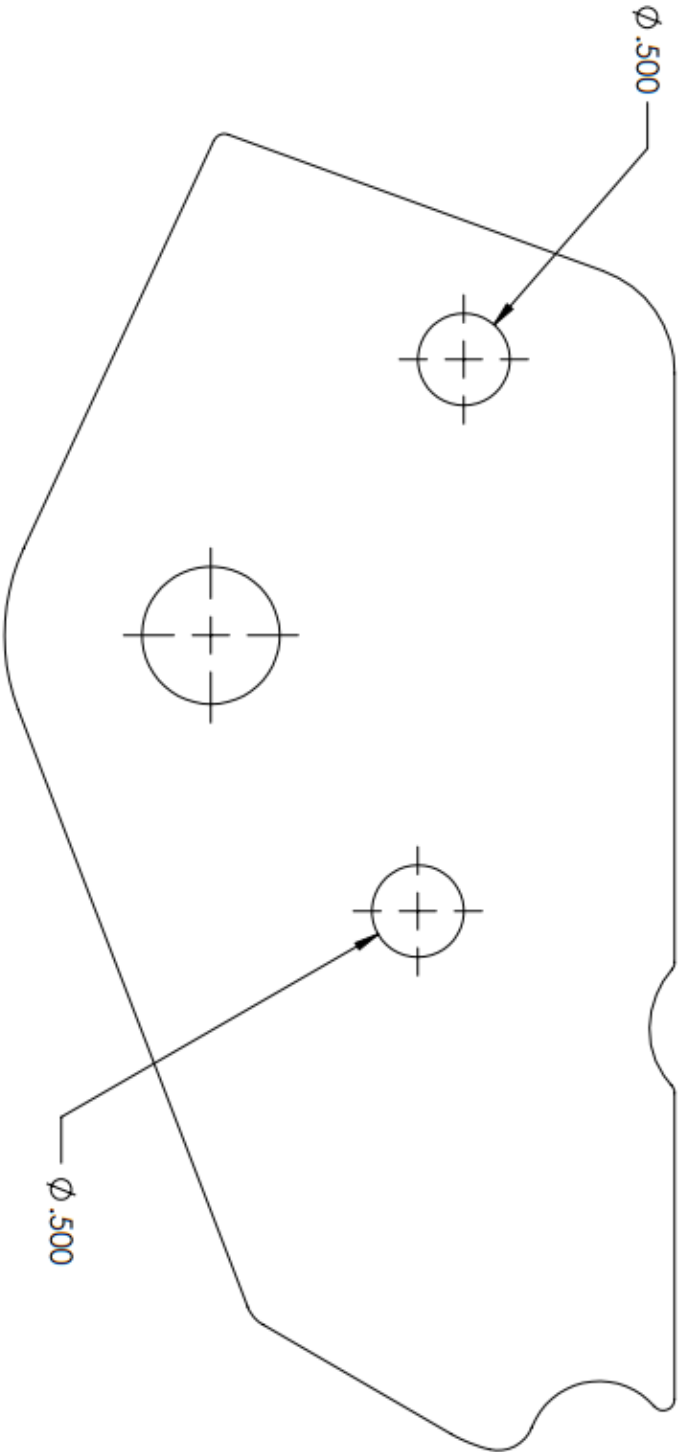


SHEET 1 OF 1



SHEET 1 OF 1

3" RADIUS ARM DROP BRACKET DRILL TEMPLATE - DS



REVISIONS			
REV.	DESCRIPTION	DATE	BY

		A	DO NOT SCALE DRAWING	1/2	Approximate Weight = 0.99 lbs
PROJECTION					
MATERIAL SPEC: ASTM A572 Grade 50					
UNLESS OTHERWISE SPEC. DIMS. IN INCHES					
DESCRIPTION: Plate - Drill Jig (DS)					
STD. TOLERANCES					
X.X ±.040					
X.XX ±.005					
FRACTIONS 1/32"					
DEC. 2.30					
PROJECT: 2025+ Rom 3500 Pickup					
PART NUMBER: 10037497					
DESIGN BY: DATE:					
CHECKED BY: DATE:					
DRAWN BY: DATE:					
ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED					
SHEET 1 OF 1					



NOTES

CONTACT INFORMATION

KELDERMAN MANUFACTURING APPRECIATES YOUR BUSINESS. WE STRIVE TO MEET THE NEEDS OF OUR CUSTOMERS BY PROVIDING THE HIGHEST QUALITY PRODUCTS. IF YOU HAVE ANY QUESTIONS CONCERNING OUR PRODUCTS PLEASE CALL OR EMAIL US AT THE FOLLOWING:

2686 HIGHWAY 92
OSKALOOSA, IOWA 52577

PHONE: 1-800-334-6150

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