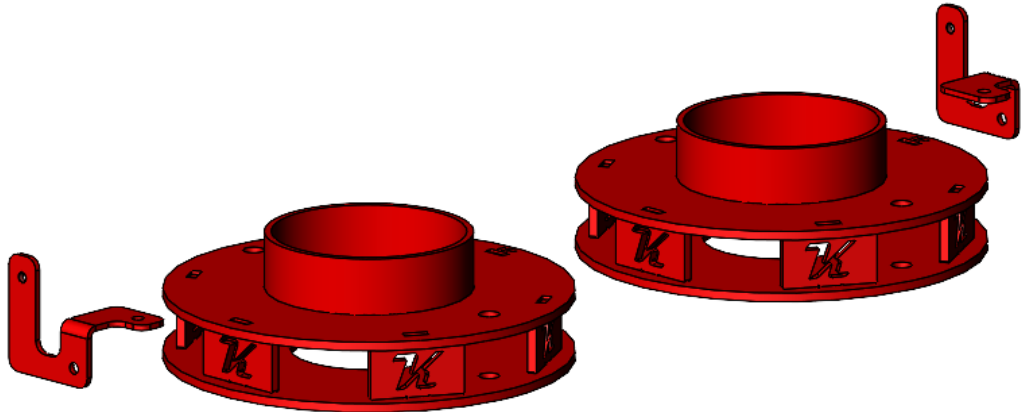


INSTALLATION INSTRUCTIONS

2014+ RAM 2500 FACTORY AIR SUSPENSION REAR 1.5" SPACER KIT *#18476*



1 3/64" DRILL BIT REQUIRED

1/4"-20 TAP REQUIRED

kelderman



KELDERMAN MANUFACTURING

2686 HIGHWAY 92 EAST OSKALOOSA, IOWA 52577

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KIT NUMBERS

- THIS INSTALLATION MANUAL COVERS THE FOLLOWING AIR RIDE KITS.

KIT NUMBER	DESCRIPTION
18476	KIT - 2014-2018 & 2019+ RAM 2500 PICKUP - FACTORY REAR AIR SUSPENSION - 1.5" SPACER KIT

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.

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.

1. JACK THE TRUCK UP FROM THE FRAME USING A JACK. THE TRUCK ONLY NEEDS TO BE LIFTED A FEW INCHES. NEXT, HIT THE DUMP BUTTON IN THE CAB AND REMOVE THE NUTS OFF THE STUDS ON THE BOTTOM OF THE BAG. NEXT, PULL THE AIR BAG DOWN AND ROTATE THE BAG 90 DEGREES SO THAT YOU CAN GET TO THE BOTTOM OF THE AIR BAG.



2. LOCATE THE 1.5" RISER (PART# 18477) AND FASTEN IT TO THE BOTTOM OF THE AIR BAG WITH THE M8-1.25MM LOCK NUT & WASHERS. TORQUE TO 30 FT/LBS.



3. NOW THAT THE SPACER IS INSTALLED ON THE AIR BAG, LOCATE THE 3/8"-24 X1-1/4" BOLTS. USE THESE TO BOLT THE SPACER TO THE AXLE. TORQUE TO 30 FT/LBS.



4. LOCATE THE SENSOR BRACKETS (PART# 18483-LH & 18483-1-RH). REMOVE THE SENSOR FROM THE BOTTOM BALL STUD. REMOVE THE BALL STUD FROM THE AXLE MOUNT. LOCATE THE M6-1.0MM X 12MM BOLT AND FASTEN THE SENSOR BRACKET TO THE SIDE OF THE AXLE MOUNT. USE A MARKER TO LOCATE WHERE TO DRILL AND TAP THE AXLE MOUNT. ONCE YOU MARK THE AXLE MOUNT, USE A CENTER PUNCH AND DRILL OUT THE HOLE TO 13/64". NEXT TAP THE HOLE TO 1/4"-20. NOW YOU CAN FASTEN THE SENSOR BRACKET IN PLACE WITH THE 1/4"-20 X 1" BOLT AND THE 6MM BOLTS. PLACE THE OEM BALL STUD INTO THE SENSOR BRACKET AND RE-CONNECT THE LINKAGE.

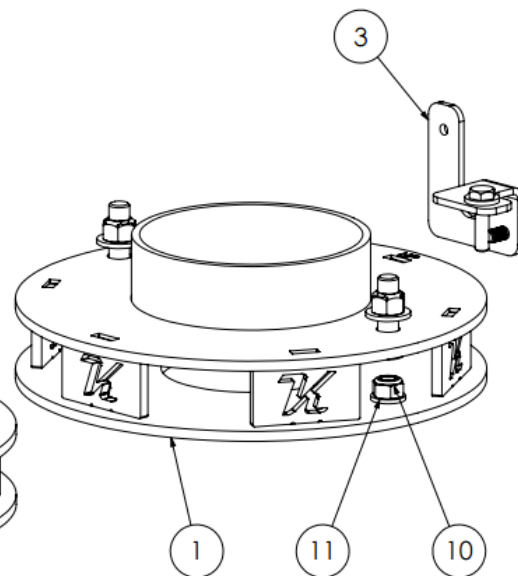
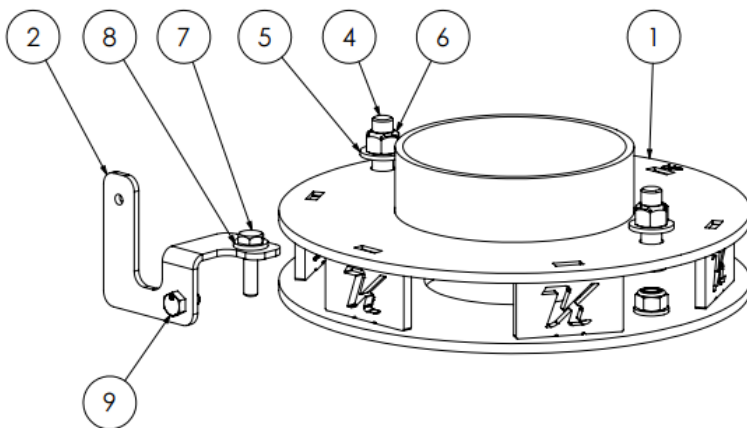


5. RE-CHECK ALL YOUR BOLTS, REMOVE THE JACK STANDS AND START THE VEHICLE. THE INSTALL IS COMPLETE.

COMPLETED INSTALL



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	22015	Weldment - 1.50" Riser	2
2	18483	(DS) Height Control Mount	1
3	18483-1	(PS) Height Control Mount	1
4	12213	Hex Bolt - 3/8"-24 x 1-1/4" - GR8 - YZ	4
5	13022	Flat Washer SAE - 3/8" - GR8 - YZ	8
6	13122	Top Distorted Thread Lock Nut - 3/8"-24 - GR8 - YZ	4
7	12110	Hex Bolt - 1/4"-20 x 1" - GR5 - Z	2
8	13020	Flat Washer SAE - 1/4" - GR8 - YZ	2
9	14164	Hex Bolt - M6-1mm x 12mm - Class 8.8 - Z	2
10	14044	Top Distorted Thread Lock Nut - M8-1.25mm - Class 8 - YZ	4
11	13997	Flat Washer USS - M8 - Class 8.8 - Z	4



	A DO NOT SCALE DRAWING 1:10 Approximate Weight = 12.73 lbs MATL. SPECS: Assembly DESCRIPTION: Kit - Factory Rear Air Suspension - 1.5" Spacer Kit PROJECT: 2014-2018 & 2019+ Ram 2500 Pickup PART NUMBER: 18476 DESIGN BY: Zach Beltz DATE: 05/24/2018	
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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:

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