LOGIQ™
AIR SUSPENSION SOLUTIONS

Installation Instructions *Rev.02*

HEIGHT SENSOR RELOCATION KIT

88-31190-1 GM 1500 (2019+)

WARNING! – READ BEFORE USE

READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE INSTALLATION.

INSTALLATION BY A CERTIFIED PROFESSIONAL MECHANIC IS HIGHLY RECOMMENDED.

LOGIQ™ IS NOT RESPONSIBLE FOR ANY DAMAGE OR FAILURE RESULTING FROM IMPROPER INSTALLATION.

5 PSI MINIMUM

5 PSI MINIMUM AIR SPRING OPERATING PRESSURE

150 PSI

150 PSI MAX AIR SPRING PRESSURE

GVWR

NEVER EXCEED MANUFACTURER'S MAXIMUM PAYLOAD OR GVWR

PROP 65

CALIFORNIA RESIDENTS - PROP 65

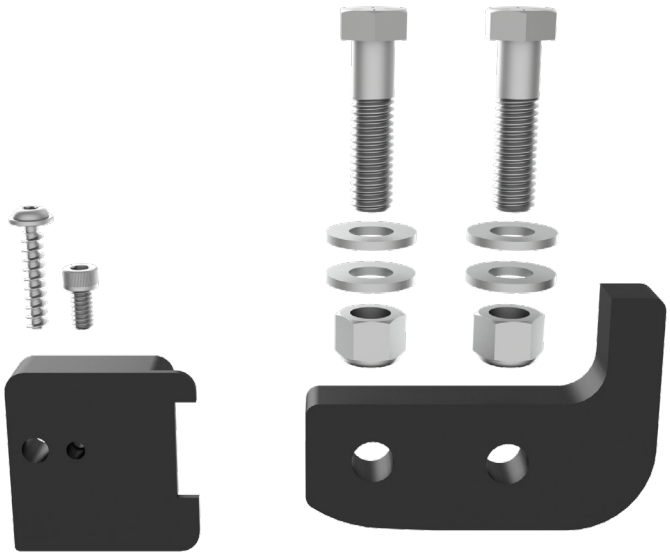
WARNING: This product can expose you to chemicals including Di(2-ethylhexyl) phthalate (DEHP), which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov/product.

WARRANTY

LOGIQ™ provides a limited lifetime warranty to the original purchaser of products, that the product be free from defects in workmanship and materials when used on cars and trucks as specified by LOGIQ™ and under normal operating conditions. This warranty is subject to the requirements and exclusions set forth in the full Limited Warranty and Return Policy that is available at logiqair.com/warranty. Air compressors are a wearing component and are covered by a 2-year warranty from the date of purchase. The warranty does not provide coverage for abuse, operation in a manner not consistent with the product's design, or damage resulting from exposure to the elements.

⚠ WARNING & DISCLAIMERS

By installing this product you acknowledge that the suspension of this vehicle has been modified. As a result, this vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle, extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying this product, and state laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.



LOGIQ™
AIR SUSPENSION SOLUTIONS

Installation Instructions
HEIGHT SENSOR RELOCATION KIT
88-31190-1 GM 1500 DENALI (2019+)

TOOLS REQUIRED
SAFETY GLASSES
FLOOR JACK OR LIFT
JACK STAND (X2)
NEEDLE NOSE PLIERS
TORQUE WRENCH
3/8" DRIVE RATCHET
9/16" DEEP SOCKET
9/16" WRENCH
T20 TORX SOCKET
1/4" DRIVE 9/64" HEX BIT

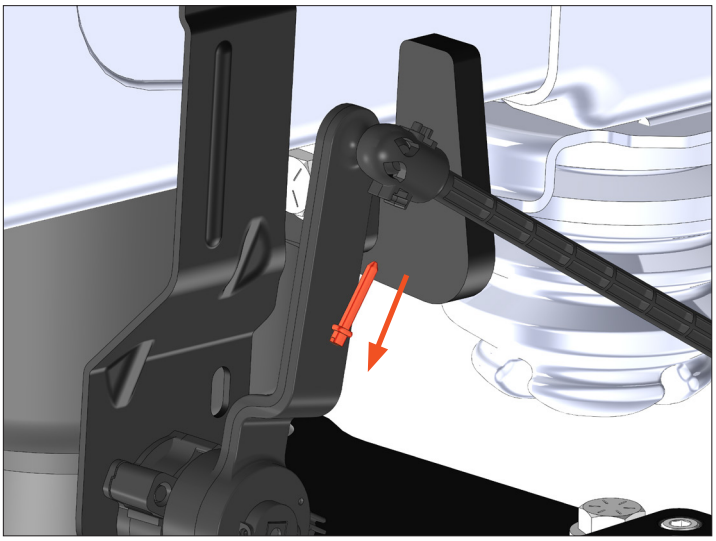
QTY	PARTS INCLUDED
1	1/2" THICK FRAME HOOK
2	3/8" - 16 X 1.5" HEX HEAD BOLT GRADE 8
2	3/8" - 16 NYLON LOCKING NUT GRADE 8
4	3/8" FLAT WASHER
1	HEIGHT SENSOR SPACER
1	M5 X 25MM THREAD FORMING SCREW
1	#8 - 32 X 0.375" SOCKET HEAD CAP SCREW

STEP 1 PREPARE TRUCK

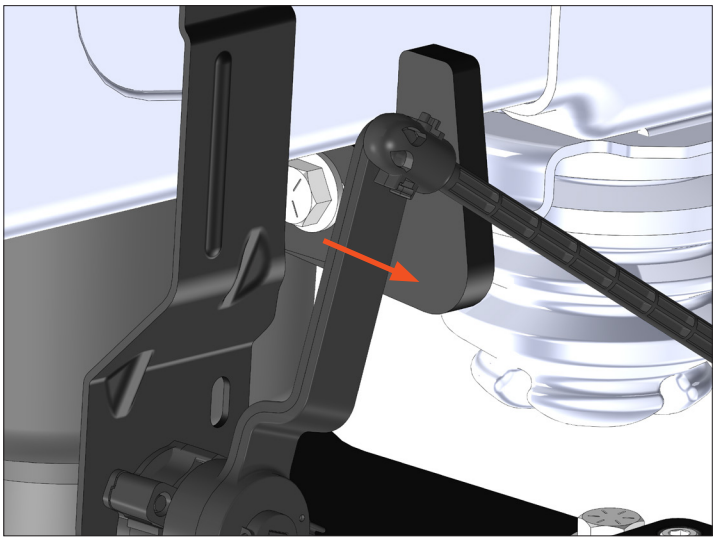
Note original ride height measurement from center of rear fender arch to ground.

Safely lift truck and support with jack stands under axle. Remove the driver side rear wheel.

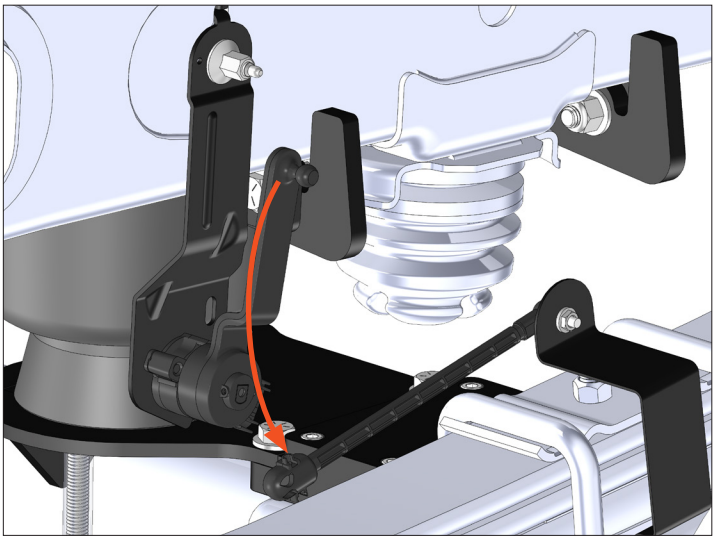
STEP 2 DETACH HEIGHT SENSOR LINKAGE ARM



Pull out the retaining pin on the height sensor linkage arm using a pair of needle nose pliers.

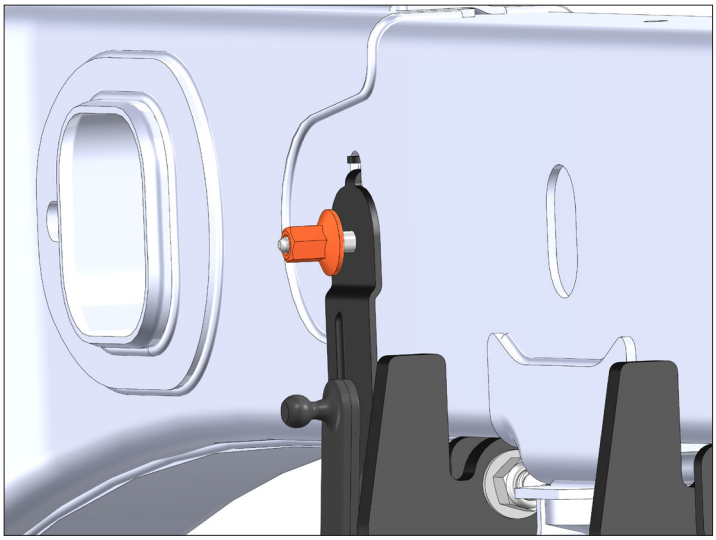


Hold the linkage arm and push the height sensor arm down to pop the ball stud off the linkage arm.



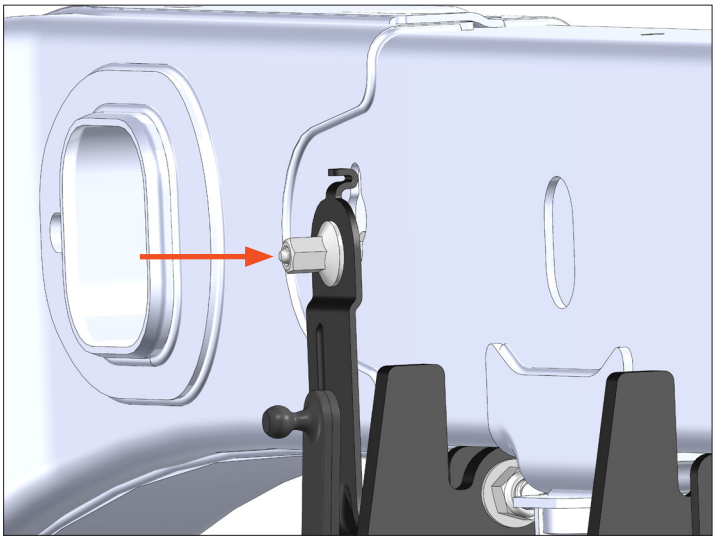
Lay the linkage arm down out of the way.

STEP 3 REMOVE BRACKET ASSEMBLY

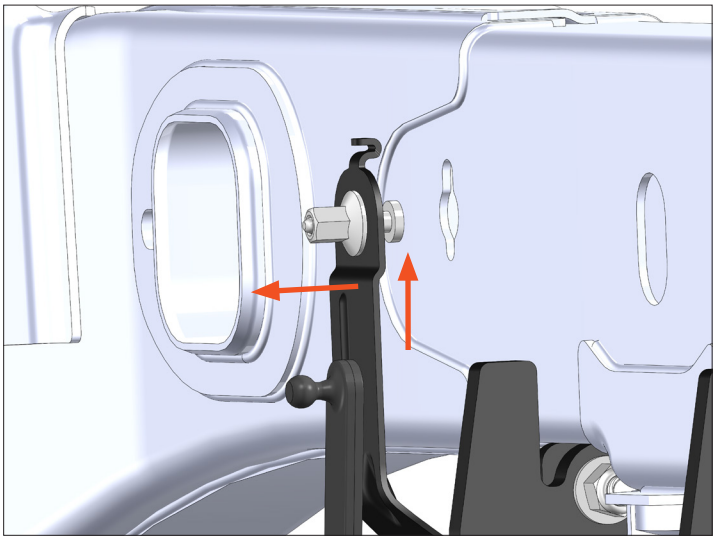


Unplug the connector on the height sensor and remove the wire harness clip from the bracket.

Loosen the mounting nut on the height sensor bracket, but do not fully remove the nut as shown.

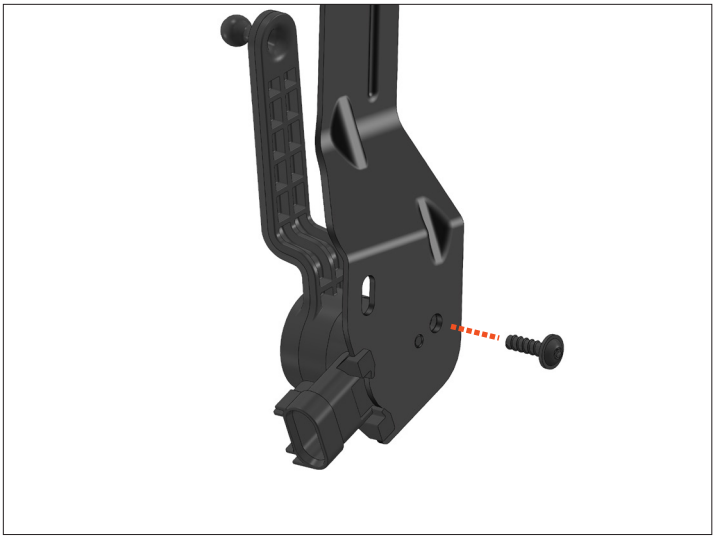


Tap the stud with a deadblow hammer until the bracket assembly becomes loose.

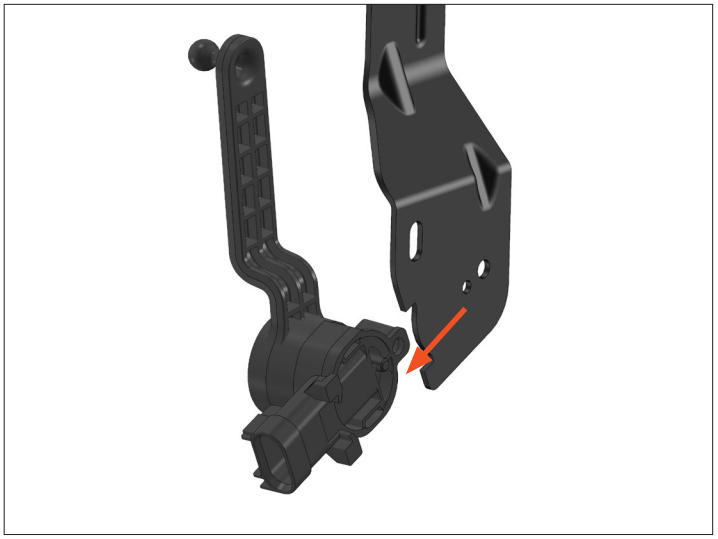


Slide the bracket assembly up and pull it out of the keyhole in the frame.

STEP 4 REMOVE HEIGHT SENSOR

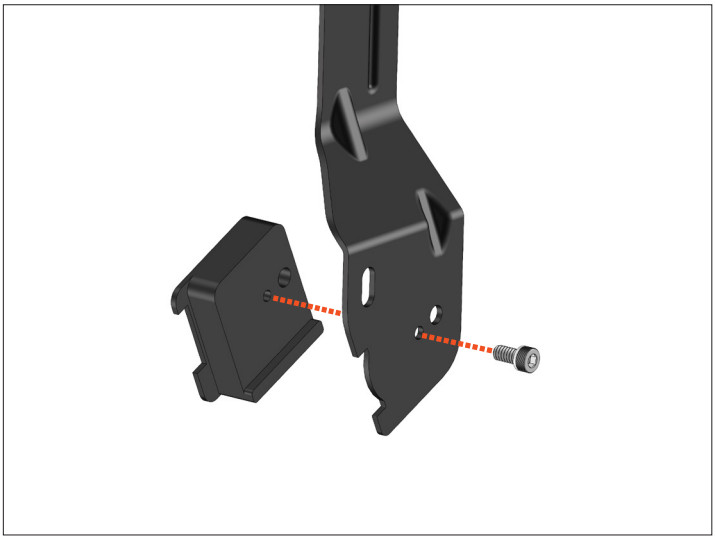


Remove the screw holding the height sensor to the bracket using a T20 bit.

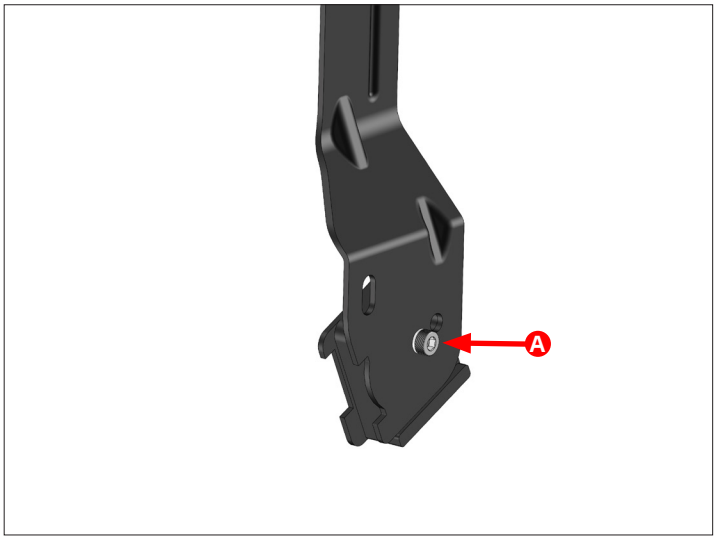


Remove the height sensor from the bracket by lifting and sliding it off in the direction shown.

STEP 5 INSTALL HEIGHT SENSOR SPACER

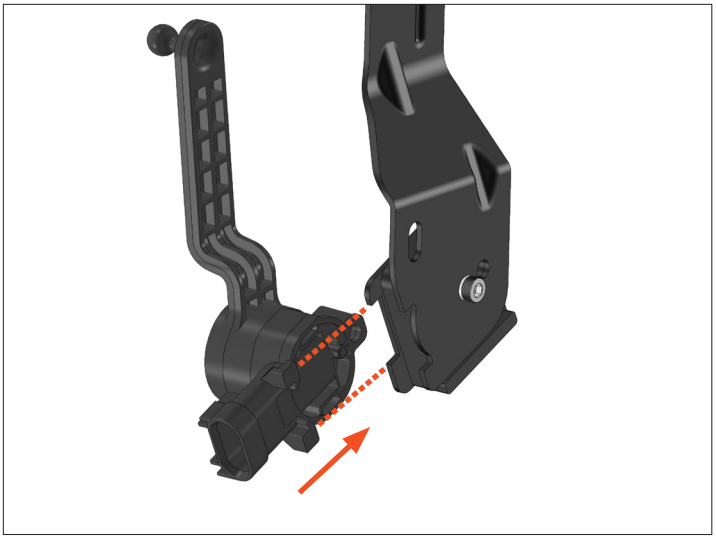


Install the height sensor spacer to the factory height sensor bracket using the supplied #8 screw. Ensure correct spacer orientation (shoulder of spacer along bottom of bracket).

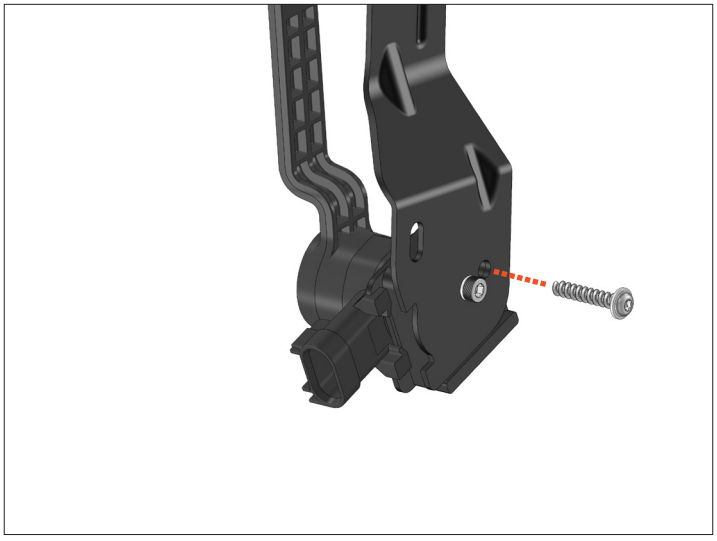


A Torque the screw to **48 IN. LB.**

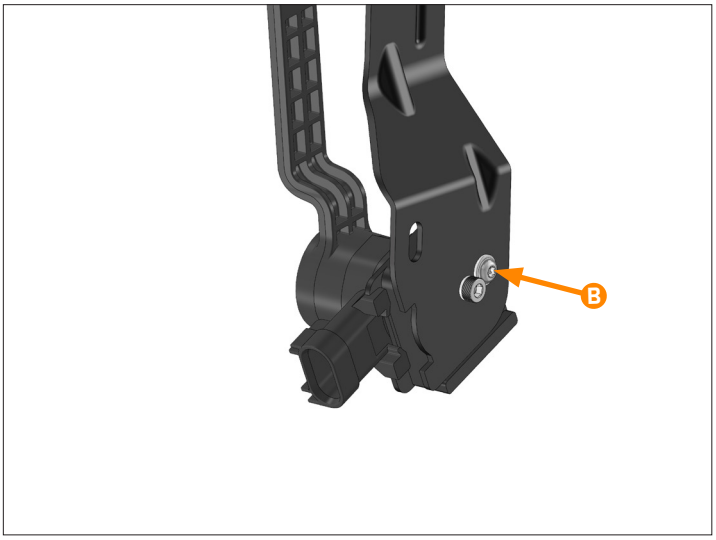
STEP 6 INSTALL HEIGHT SENSOR



Install the height sensor on the spacer by sliding it on as shown, ensuring the sensor feet are seated on the spacer.



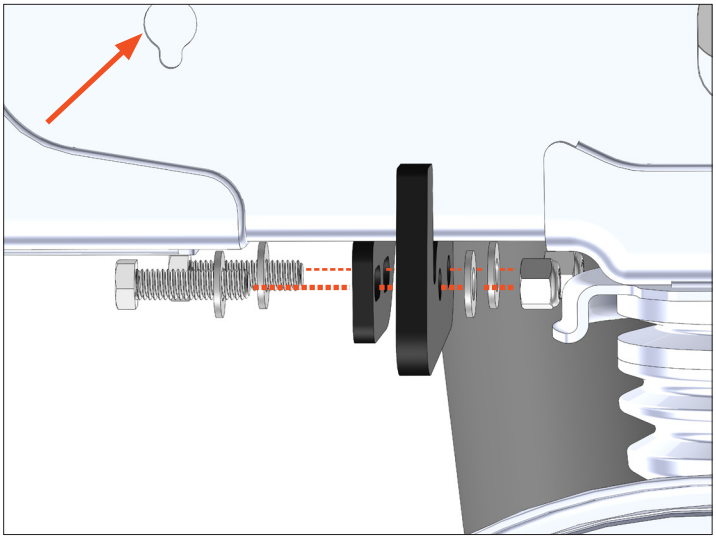
Fasten the height sensor to the bracket assembly using the supplied M5 thread forming screw.



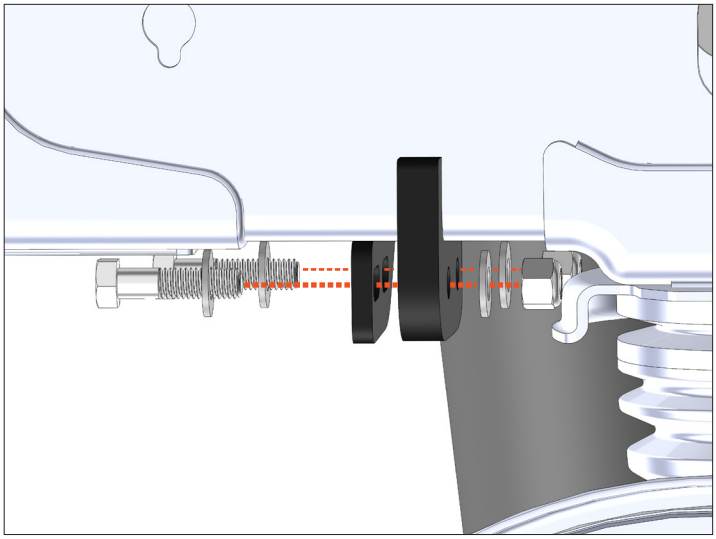
B Torque the M5 thread forming screw to **10 IN. LB.**

DO NOT OVERTIGHTEN.

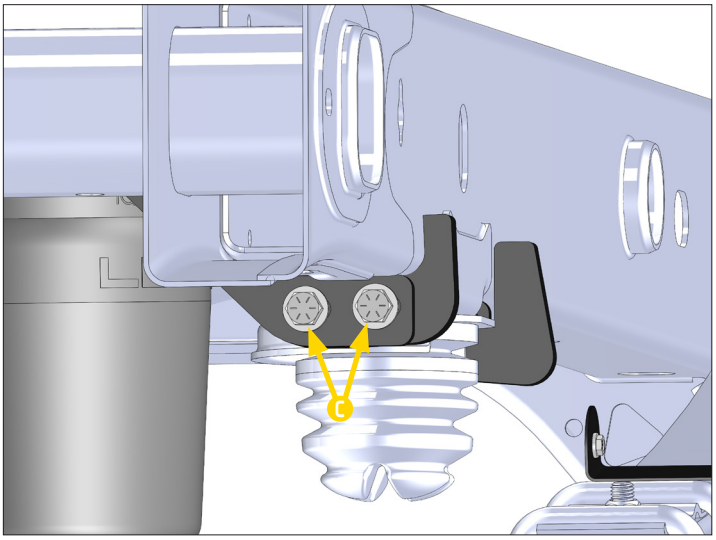
STEP 7 INSTALL NEW HOOK



Remove the frame hook closest to the height sensor from the upper bracket. (Noticeable by the keyhole in the frame)

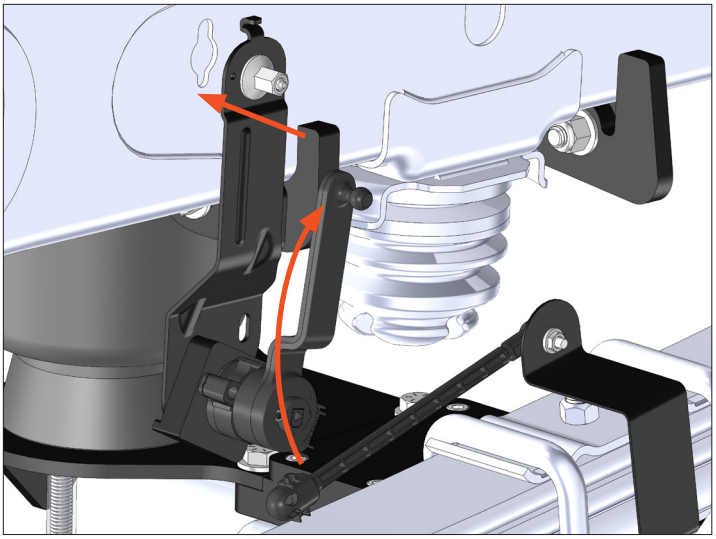


Install the new frame hook using the supplied longer 3/8" hardware.

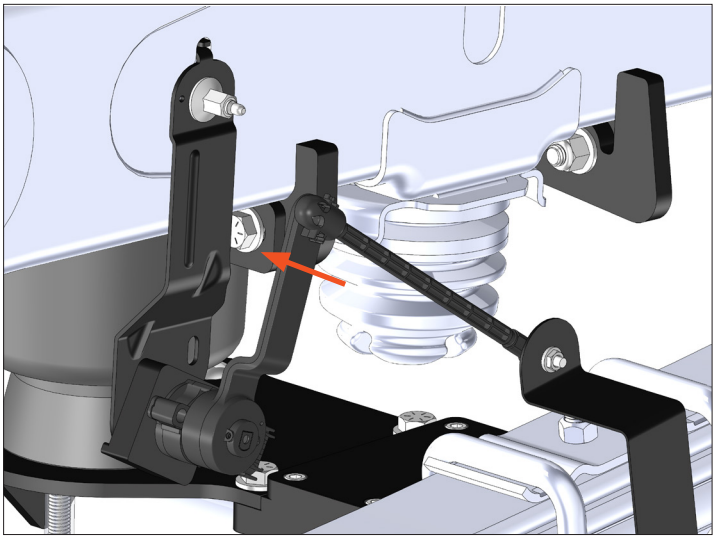


C Torque the 3/8" hardware to **44 FT. LB.**

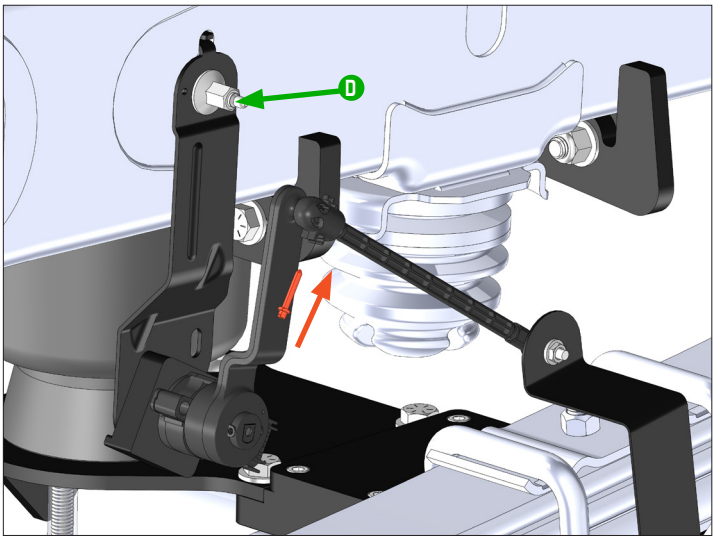
STEP 8 INSTALL HEIGHT SENSOR BRACKET ASSEMBLY



Re-install the height sensor bracket assembly into the keyhole in the frame. Ensure the mounting stud slides down in the keyhole, then snug the nut until the bracket does not move.



Lift the height sensor linkage arm and hold it in place as you push the height sensor arm up to pop the ball stud back in place.



Re-install the linkage arm retianing pin using needle nose pliers.

D Torque the height sensor bracket mounting nut to **80 IN. LB.**

STEP 9 FINAL SAFETY CHECKS

Verify all fasteners are torqued properly.

Verify at least 5psi in air springs before driving.

⚠ WARNING & DISCLAIMERS CONTINUED

Safety Warnings

MISUSE OF THIS PRODUCT COULD LEAD TO INJURY OR DEATH.

Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. Extreme care must be used to prevent loss of control during abrupt maneuvers.

Always operate your vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death.

Driver and passengers must **ALWAYS** wear seat belts, avoid quick sharp turns and other sudden maneuvers. LOGIQ™ does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your vehicle under the influence of alcohol or drugs.

Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every off-road use.

It is the responsibility of the retailer and/or the installer to review all state and local laws, with the end user of this product, related to bumper height laws and the lifting of their vehicle before the purchase and installation of any LOGIQ™ products.

Raised vehicles have altered viewing angles than stock vehicles. This can lead to larger or different blind spots than the driver is accustomed. It is the responsibility of the driver to be aware of this and check their surroundings at all times while the vehicle is in motion and immediately prior to operating vehicle. Failure to do so can lead to damages, injury, or death.

Installation Warning

All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two post vehicle lift with safety jacks.

Use caution during all disassembly and assembly steps to ensure suspension components are not over extended causing damage to any vehicle components and parts included in this kit.

Included instructions are guidelines only for recommended procedures and are not meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications.

LOGIQ™ recommends the use of an OE Service Manual for model/year of vehicle when disassembly and assembly of factory and related components.

Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual.

Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.

Larger tire and wheel combinations may increase leverage on suspension, steering, and related components.

Due to payload options and initial ride height variances, the amount of lift/lower is a base figure. Final ride height dimensions may vary in accordance to original vehicle ride height. Always measure the vehicle ride height prior to beginning installation.

⚠ WARNING & DISCLAIMERS

SAEJ2492 Warning

By installing this product, you acknowledge that the suspension of this vehicle has been modified. As a result, this vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle, extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying this product, and state laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these components.

Headlamp Warning

A lifted or lowered vehicle may have different headlight aim performance. LOGIQ™ recommends marking and recording the headlight beam position before kit installation and then adjusting, if necessary, the headlamps to the same height settings after kit installation. Set the vehicle on a level surface 10' to 15' from a solid wall or garage door. (This is a general distance with some manufacturers requiring different distances.) Note the top height of the low beam's bright spot, the top of the most intense part of the beam, for driver and passenger side. Height may vary from side to side. Repeat this procedure and adjust after lift kit is installed. Adjust if the aim is off by turning the adjusters gradually (a quarter of a turn) and looking to see where the new alignment falls. It may be easier to block one headlamp while adjusting the other. Consult the owner operation manual for procedures to adjust headlights - many automakers offer headlight aiming specs. Some states have their own specifications when it comes to headlight aim, so it's best to follow those rules when aligning headlights.

FAILURE TO PERFORM THE POST INSPECTION CHECKS MAY RESULT IN VEHICLE COMPONENT DAMAGE AND/OR PERSONAL INJURY OR DEATH TO THE DRIVER AND/OR OTHERS.

Final Checks & Adjustments

Once the vehicle is lowered to the ground, check all parts which have rubber or urethane components to ensure proper torque. Torque lug nuts to the wheel manufacturer specs. Move vehicle backwards and forwards a short distance to allow suspension components to adjust. Turn the front wheels completely left then right and verify adequate tire, wheel, brake line, and ABS wire clearance. Test and inspect steering, brake and suspension components for tightness and proper operation. Inspect brakes hoses and ABS lines for adequate slack at full extension, adjust as necessary.

RECHECK ALL HARDWARE FOR PROPER TORQUE VALUES AFTER 500 MILES, AND THEN PERIODICALLY AT EACH SERVICE INTERVAL THEREAFTER.

Vehicle Handling Warning

Increasing the height of your vehicle raises the center of gravity and can affect stability and control. Use caution on turns and when making steering corrections.

Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle.

Wheel Alignment/Headlamp Adjustment

It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician. Align the vehicle to factory specifications. It is recommended that your vehicle alignment be checked after any off-road driving.

In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle headlamps for proper aim and alignment. If the vehicle is equipped with active or passive safety/collision monitoring and/or avoidance systems including, but not limited to, camera- or radar-based systems, check and adjust your vehicle's systems for proper aim and function.