

Part # 30400036 - 4 Pack of RidePro e5 Height Sensors



Recommended Tools



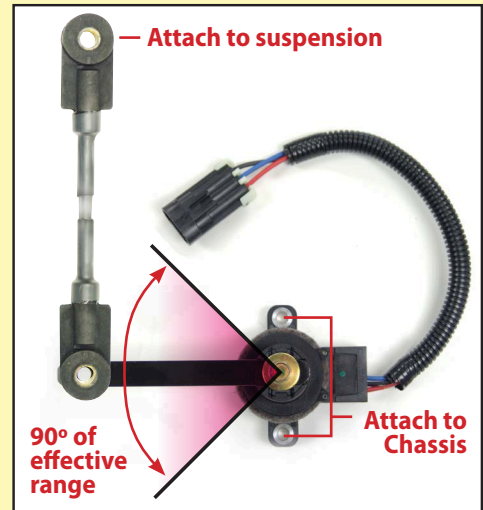
Major ComponentsIn the box

QTY	Part Number	Description
4	31980002	Rotary Height Sensor
4	31980011	Linkage Kit for Sensor
2	31900065	12' Height Sensor Cord
2	31900066	18' Height Sensor Cord

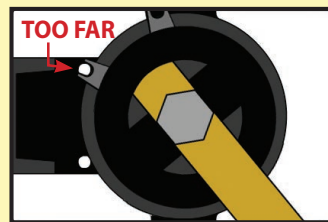
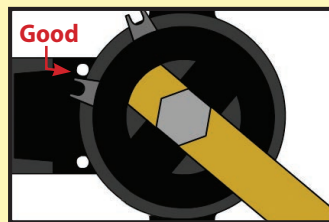
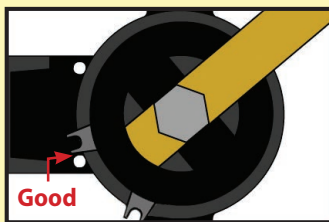
RIDEPRO^{e5} Ride Height Sensors

External Ride Height Sensor Installation

- The Height Sensor Option uses 4 height sensors (one at each wheel). They are weather proof and may be mounted in any position as well as "clocked" in any position. (There is not a difference between the left and right sensors.) These sensors are typically mounted to the chassis / frame rail.
- A linkage with rubber ends connects the sensor arm and a suspension component. On most front suspensions, the linkage will attach to the upper or lower control arm. On most rear suspensions, it will attach to the axle or control arm.
- **The main goal when mounting the sensor is to achieve as much sensor rotation as possible without exceeding the sensors limits.**
- Although the sensor arm will rotate 180 degrees, it must remain in the middle 90 degrees throughout suspension travel. See diagram below for sensor travel limits.
- It may be necessary to shorten the sensor arm and drill a new hole to ensure the arm is rotating enough during suspension travel to accurately determine vehicle height.
- The sensor arm can also be removed from the sensor and clocked in four different positions. It may also be necessary to bend the sensor arm and/or linkage to achieve proper clearance and alignment.
- The sensor will be mounted to the frame using 1/4" self tapping screws or bolts. A special shouldered bolt is supplied to attach the rubber rod ends to the suspension and the sensor arm; this will avoid over tightening.
- Make sure the sensor has adequate clearance from all suspension components throughout suspension travel. Check tire clearance, lock to lock and throughout suspension travel.

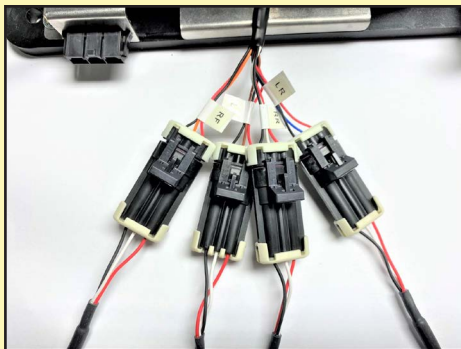


Travel Limits

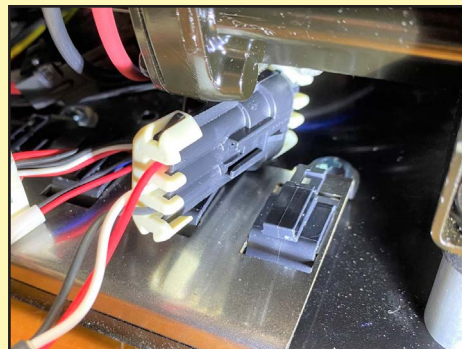


- ⚠ If the electrical range of travel is exceeded, the system may function erratically or not at all.
- ⚠ Also note that if the sensor has very little travel, the system may not perform to its potential.
- ⚠ It may be necessary to shorten the sensor arm to increase travel.

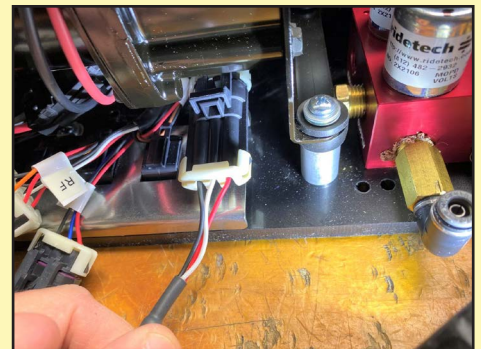
Connecting Sensor Harnesses to ECU



Run the harness from the sensors to the Main Harness (AirPod). We recommend marking the harnesses at the end that will plug in at the Main Harness (AirPod). The 4 plugs in the Main Harness are labelled for each corner. Plug the correct harness into each plug.



AIRPOD ONLY! The AirPod has 4 clips on the main board to secure the plugs for the level sensor harnesses. The female plug on the sensor harness will attach to these clips. The plug slides onto the clip from the release side of the clip.



AIRPOD ONLY! Start the plug on the retainer and slid it until it clicks. This will lock the harness in place.

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Assembly of the Sensor Link Rods



1- The linkage rod can be cut to length using side cuts.



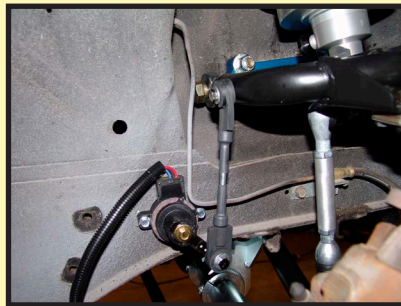
2- The linkage rod can be bent by hand. This can come in useful when trying to get clearance on an obstacle.



3- After getting the linkage cut to length and shaped, line up the end with the end link.



4- Push the end of the linkage into the end link. The linkage doesn't require anything to hold it into the end link.



5- Once both sides of the linkage have been finished, secure the linkage to the sensor and suspension.

Sensor Mounting Examples



69 Camaro Front



Rear Trailing Arm



58-64 Impala Front



55-57 Chevy Front



Triangulated 4-Link Rear



C-10 Truck Rear