

## INSTALLATION DIAGRAM

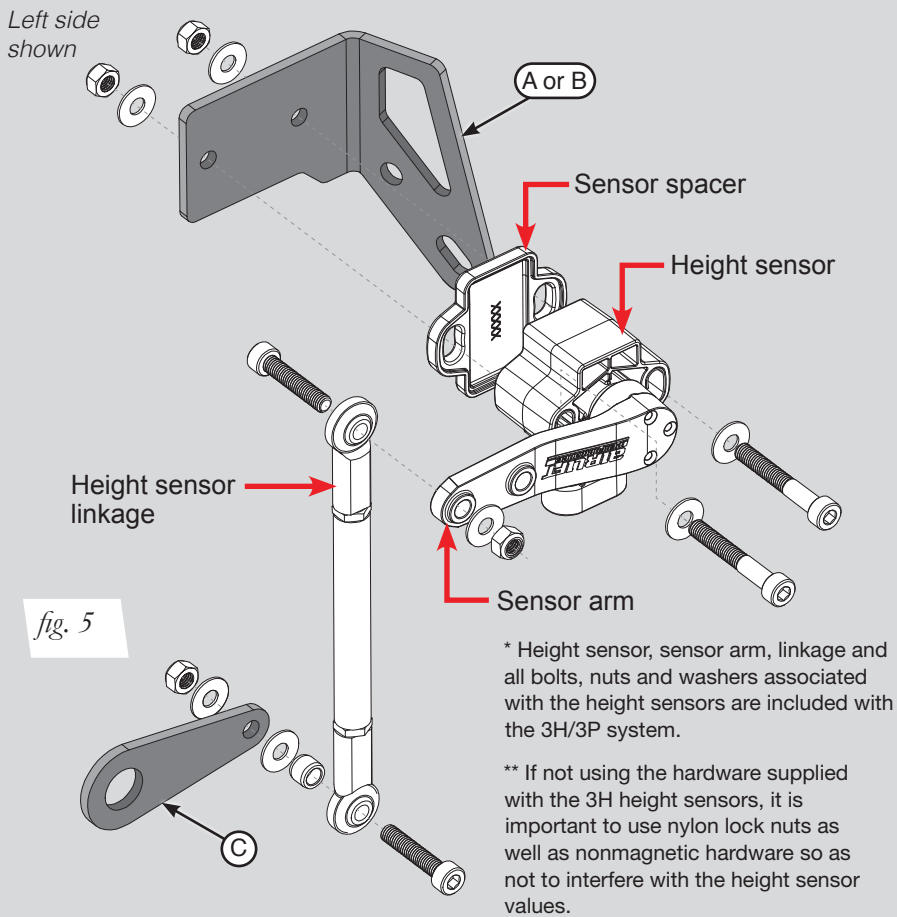


fig. 5

### HARDWARE LIST

Item	Part #	Description	Qty
A	11144	Upper bracket (left)	1
B	11145	Upper bracket (right)	1
C	11148	Lower bracket	2

### SETTING UP THE HEIGHT SENSOR ARM

The extruded point on the height sensor must point at the connector when the suspension is at its midpoint. See the "Height Sensors" section of the 3H/3P Installation Guide for additional information. In this application, the arm needs to be rotated 90 degrees so that the extruded point is pointed down toward the connector (Fig. 6). See chart for torque specifications.

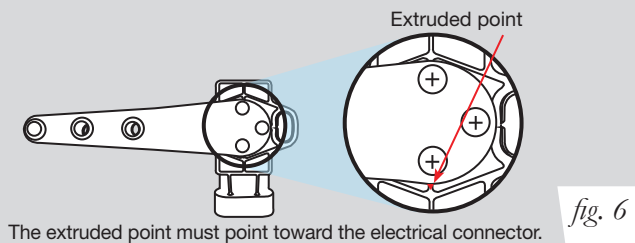


fig. 6

### ADJUSTING THE HEIGHT SENSOR LINKAGE

To adjust the sensor arm linkage, loosen and remove the lower bolt and nut.

**NOTE:** Leave proper drip loops when connecting the wiring harness.

Torque Specifications				
Location	Nm	Lb.-ft.	Lb.-in.	Oz.-in.
Lower sway bar end link bolt	60	75		
ABS line bracket screws	8	6		
Height sensor to bracket bolts	2.5		22	
Linkage bolts	2.5		22	
Height sensor arm	.01-.14			14-20

### HEIGHT SENSOR TOOL

For best system performance, refer to the "Height Sensors" section of the 3H/3P Installation Guide. Make sure that the left and right sides move in unison when cycling the suspension. If their movement is different, adjust the height sensor so they are close in alignment (Fig. 7).

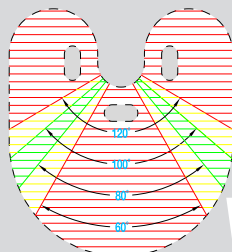


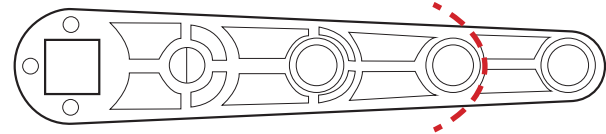
fig. 7

This illustration is not to scale, use the height sensor tool in the 3H/3P Installation Guide.

## Front Height Sensor Installation

These instructions assume that the suspension is stock with the addition of Air Lift Performance dampers. Adjustments may be necessary in different scenarios. Consult the 3H/3P Installation Guide for additional information about installing height sensors.

- Optional: Trim the height sensor arm to the second hole (Fig. 1).



Trim the sensor arm at the dotted arc for the front application.

fig. 1

- Trim the threaded rod to 86mm (3 3/8"). The linkage will be 110mm (4 5/16") from eye to eye. The linkage must have a minimum of five threads of engagement into both ends (Fig. 2).

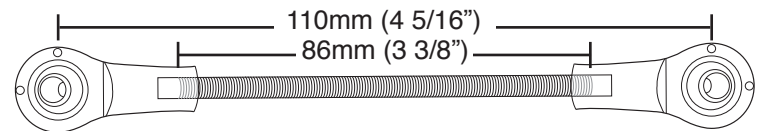


fig. 2

- Remove the existing ABS line bracket screws. Attach the upper bracket (A or B) to the vehicle with the existing hardware. (Fig. 3). See chart for torque specifications.

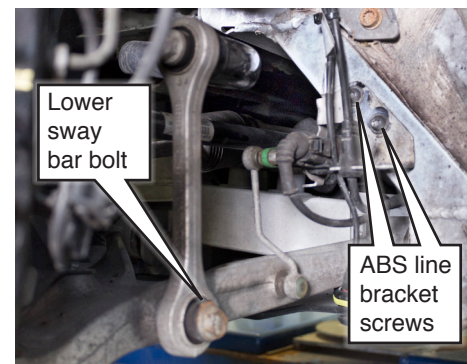


fig. 3

- Remove the lower sway bar end link bolt. Install the lower bracket (C). The bracket goes between the bolt head and the end link. Attach the bracket at approximately a 20-degree angle above horizontal (Fig. 4). See chart for torque specifications.

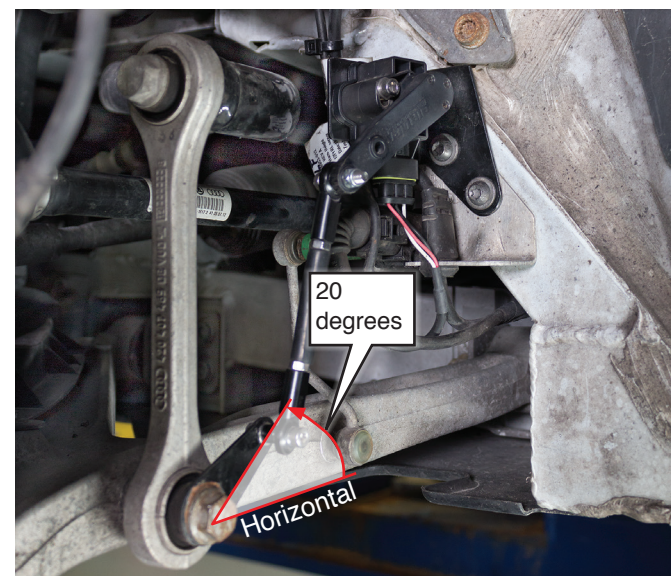


fig. 4

- Attach the height sensor to the sensor bracket with the supplied hardware. It may be necessary to trim the screws (Figs. 4 & 5). See chart for torque specifications.
- Install the linkage assembly using the supplied hardware (Figs. 4 & 5). See chart for torque specifications.
- Refer to the "Height Sensors" section of the 3H/3P Installation Guide to fine-tune the linkage.
- Repeat these steps for the other side.



## INSTALLATION DIAGRAM

Left side shown

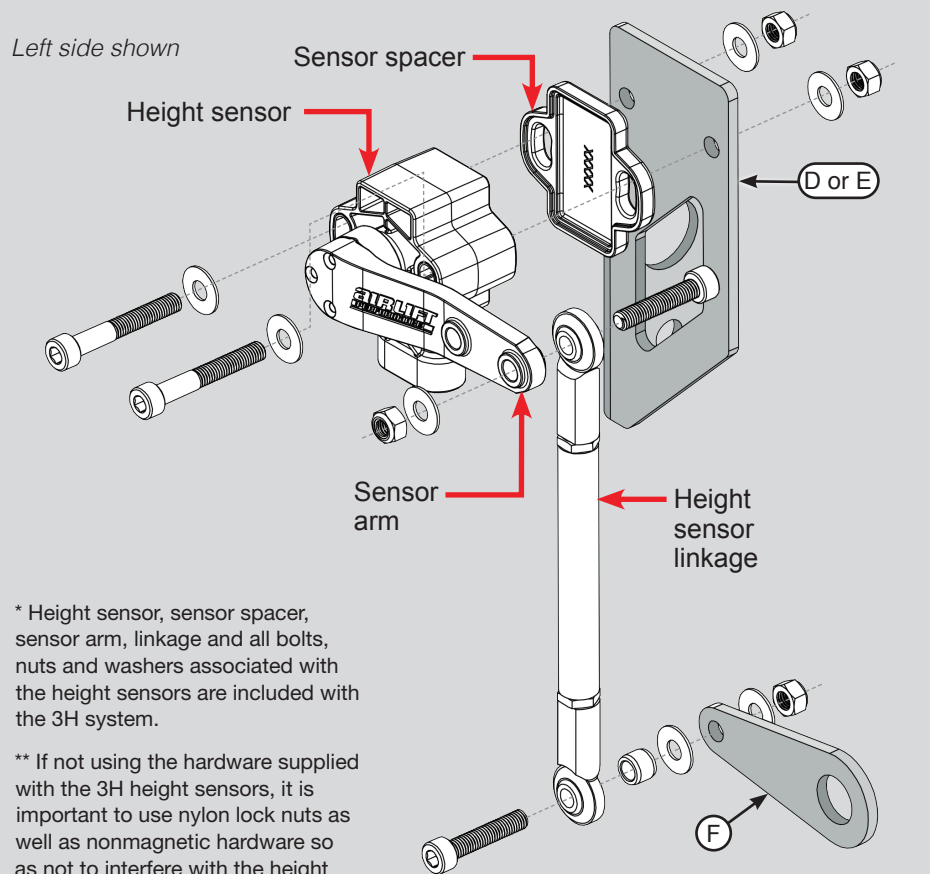


fig. 15

\* Height sensor, sensor spacer, sensor arm, linkage and all bolts, nuts and washers associated with the height sensors are included with the 3H system.

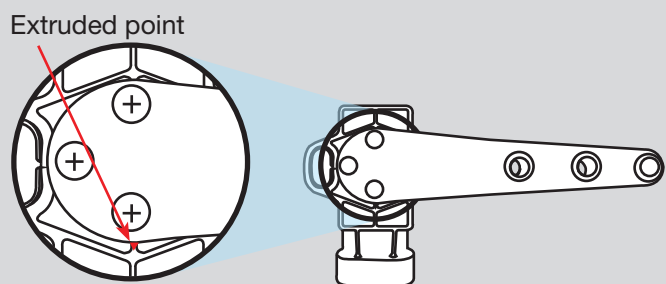
\*\* If not using the hardware supplied with the 3H height sensors, it is important to use nylon lock nuts as well as nonmagnetic hardware so as not to interfere with the height sensor values.

### HARDWARE LIST

Item	Part #	Description	Qty
D	11146	Upper bracket (left)	1
E	11147	Upper bracket (right)	1
F	11148	Lower bracket	2

### SETTING UP THE HEIGHT SENSOR ARM

The extruded point on the height sensor must point at the connector when the suspension is at its midpoint. See the "Height Sensors" section of the 3H/3P Installation Guide for additional information. In this application, the arm needs to be rotated 90 degrees with the electrical connector pointed down toward the connector (Fig. 16). See chart for torque specifications.



The extruded point must point toward the electrical connector. fig. 16

### ADJUSTING THE HEIGHT SENSOR LINKAGE

To adjust the sensor arm linkage, loosen and remove the lower bolt and nut. **NOTE:** Leave proper drip loops when connecting the wiring harness.

Torque Specifications				
Location	Nm	Lb.-ft.	Lb.-in.	Oz.-in.
Upper control arm bracket bolt	30	22		
Lower shock bolt	110	81		
Height sensor to bracket bolts	2.5		22	
Linkage bolts	2.5		22	
Height sensor arm	.01-.14			14-20

### CHECK FOR BINDING

Inflate and deflate the system (do not exceed 8.6BAR [125 PSI]) to check for clearance or binding issues. With the air springs deflated, check clearances on everything so as not to pinch the height sensor cable. Clear cables if necessary.

Refer to the 3H/3P Installation Guide for additional information about proper setup of the system.

## Rear Height Sensor Installation

These instructions assume that the suspension is stock with the addition of Air Lift Performance dampers. Adjustments may be necessary in different scenarios. Consult the 3H/3P Installation Guide for additional information about installing height sensors.

- Optional: Trim the height sensor arm to the second hole (Fig. 8).

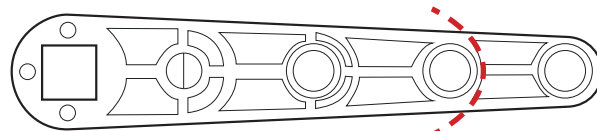


fig. 8

Trim the sensor arm at the dotted arc for the rear application.

- Trim the threaded rod to 86mm (3 3/8"). The linkage will be 110mm (4 5/16") from eye to eye. The linkage must have a minimum of five threads of engagement into both ends (Fig. 9).

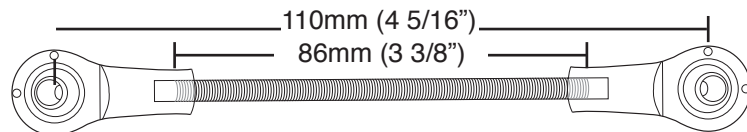


fig. 9

- Remove the lower of the two factory upper control arm mount bolts on the inside rear of the arm and reattach with the upper bracket in place (Figs. 10 & 11). The large hole fits around the top bolt. See chart for torque specifications.

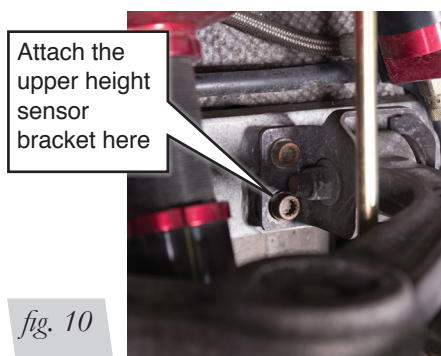


fig. 10

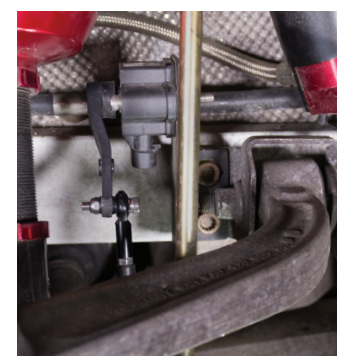


fig. 11

- Install the lower bracket between the lower sway bar end link and the knuckle with the lower shock bolt. Attach the bracket at approximately a 30-degree angle below horizontal (Figs. 12 & 13). See chart for torque specifications.



fig. 12

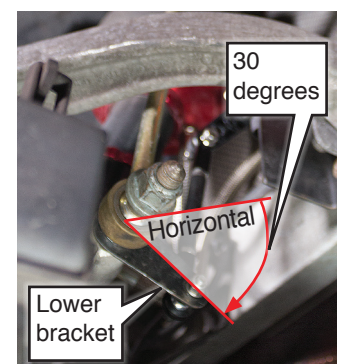


fig. 13

- Install the height sensor to the sensor bracket using the supplied hardware. It may be necessary to trim the sensor screws (Figs. 14 & 15). See chart for torque specifications.

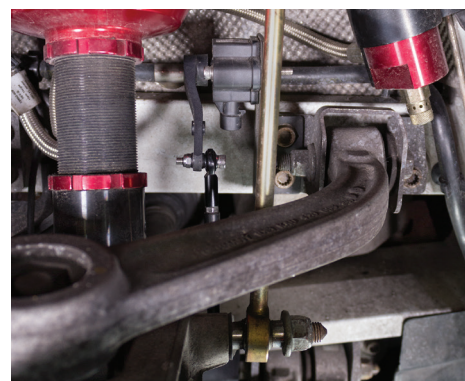


fig. 14

- Install the linkage using the supplied hardware. (Figs. 14 & 15). See chart for torque specifications.
- Refer to the "Height Sensors" section of the 3H/3P Installation Guide to fine-tune the linkage.
- Repeat these steps for the other side.