

INSTALLATION DIAGRAM

Left side

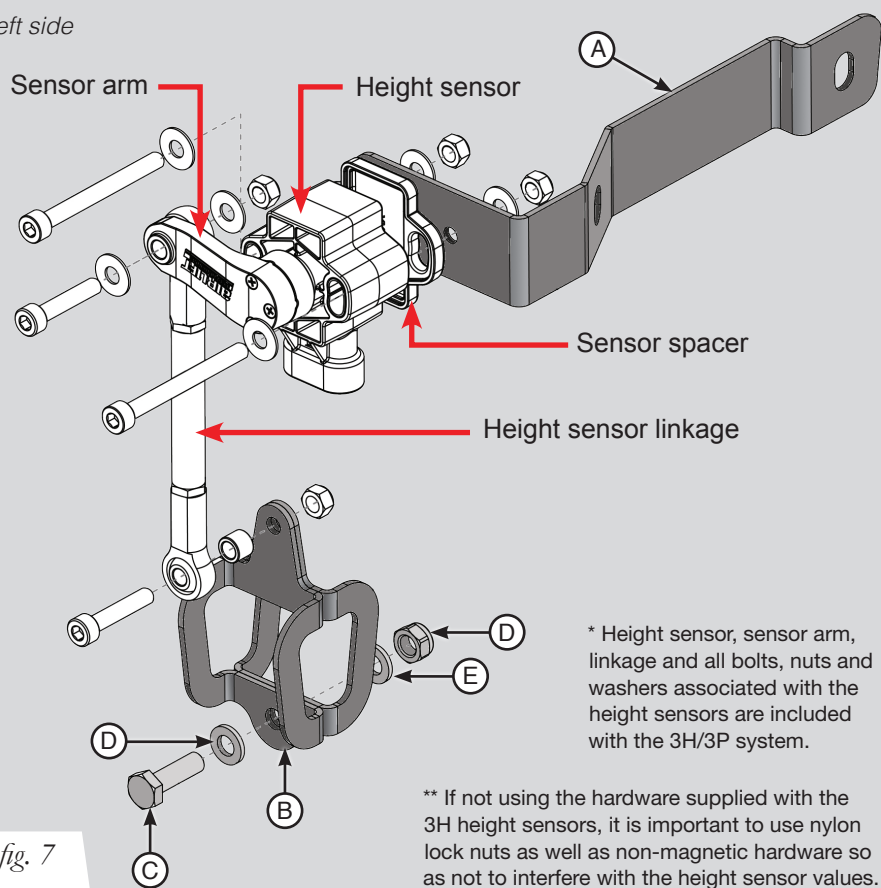


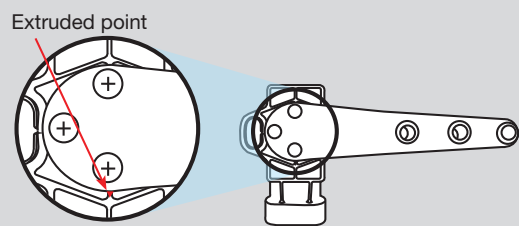
fig. 7

HARDWARE LIST

Item	Part #	Description	Qty
A	11423	BMW M3/M4 Upper bracket	2
B	11424	BMW M3/M4 Lower bracket	4
C	17475	M6-1 x 20mm Hex-head cap screw	2
D	18579	M6 Flat washer	4
E	18569	M6 Nylon lock nut	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 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. 8).



The extruded point must point at the electrical connector.

fig. 8

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.-in.	Oz.-in.
Chassis bolt	None listed		
M6 bolt for lower bracket	10	89	
Height sensor to bracket bolts	2.5	22	
Linkage bolts	2.5	22	
Height sensor arm screws	.01-.14		14-20

HEIGHT SENSOR TOOL

For best system performance, refer to the Height Sensors section of the 3H/3P manual. 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. 9).

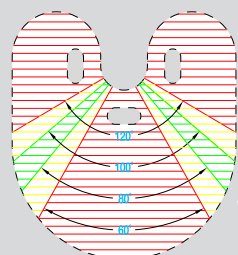


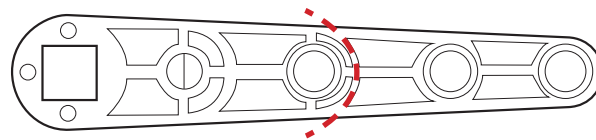
fig. 9

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 manual for additional information about installing height sensors.

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



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

fig. 1

- Trim the threaded rod to 75mm (3"). The linkage will be 110mm (4 5/16") from eye to eye. The linkage must have a minimum of five threads of engagement on both ends (Fig. 2).

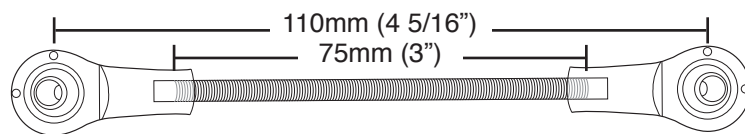


fig. 2

- Install the lower bracket so it is centered on the "M" logo on the control arm. Torque the bolt to 10Nm (89 lb.-in.) (Fig. 3).

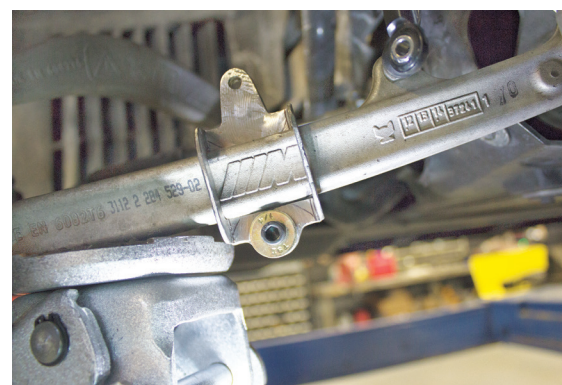


fig. 3

- Remove two existing chassis bolts and reinstall with the upper bracket in place (Figs. 4 & 5).



fig. 4

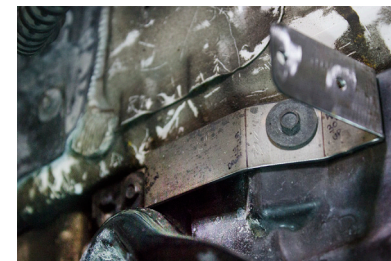


fig. 5

- Attach the linkage to the first hole of the height sensor arm (Fig. 8). Attach the height sensor to the upper bracket, using hardware from the 3H kit (Fig. 6).
- Attach the height sensor to the upper bracket and the linkage to the lower bracket with the linkage spacer. Torque the bracket and linkage to 2.5Nm (22 lb.-in.) (Fig. 6).

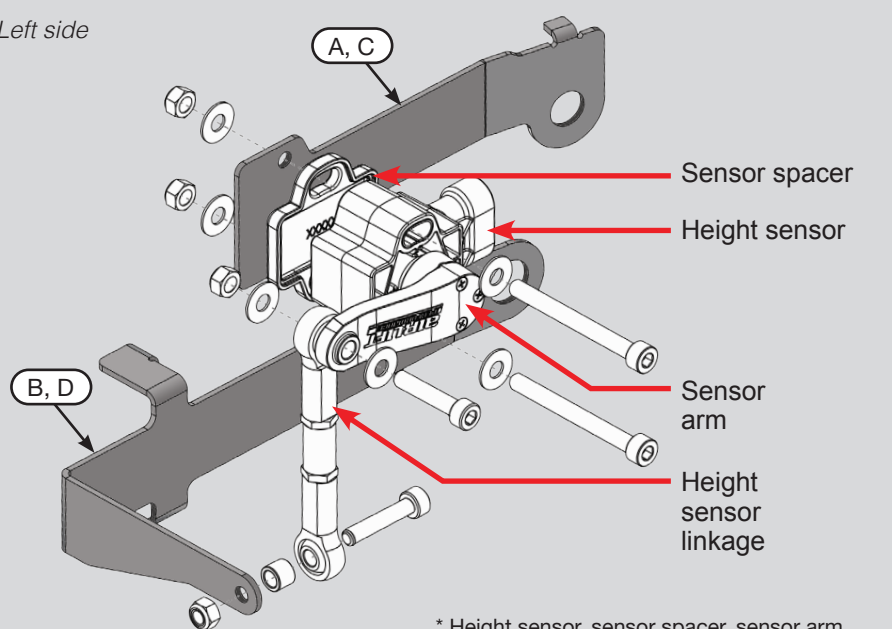


fig. 6

- Refer to the Height Sensors section of the 3H/3P Installation Guide to fine tune the linkage.

INSTALLATION DIAGRAM

Left side



* 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 non-magnetic hardware so as not to interfere with the height sensor values.

fig. 14

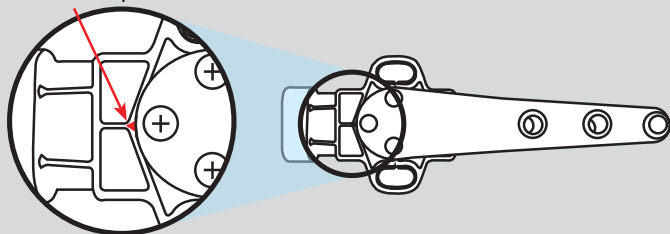
HARDWARE LIST

Item	Part #	Description	Qty
A	11425	BMW M3/M4 Left upper bracket.....	1
B	11426	BMW M3/M4 Left lower bracket	1
C	11427	BMW M3/M4 Right upper bracket	1
D	11428	BMW M3/M4 Right lower bracket	1

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 (Fig. 15). See Height Sensors section of the 3H/3P Installation Guide for additional information. In this application, the arm should be left in the as-provided position.

Extruded point



The extruded point must point at the electrical connector.

fig. 15

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.
Inner toe link bolt	100	74		
Inner control arm bolt	165	122		
Height sensor to bracket bolts	2.5		22	
Linkage bolts	2.5		22	
Height sensor arm screws	.01-.14			14-20

CHECK FOR BINDING

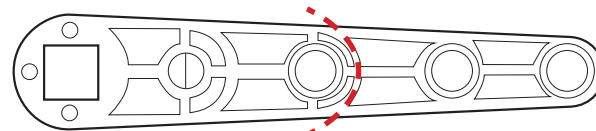
Inflate and deflate the system (do not exceed 125 PSI) to check for clearance or binding issues. With the air springs deflated, check clearances on everything so as not to pinch the height sensor cable. Clear cables if necessary.

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 manual for additional information about installing height sensors.

- Optional: Trim the height sensor arm to the first hole. (Fig. 10).



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

fig. 10

- Trim the threaded rod that comes with the 3H linkage height sensor pack to 36mm (1 3/8") (Fig. 11). The linkage assembly will be 75mm (3" inches) from eye to eye. The linkage must have a minimum of five threads of engagement on both ends.

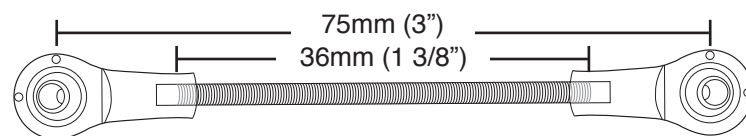


fig. 11

- Remove the inner toe link bolt and the inner control arm bolt (Fig. 12).

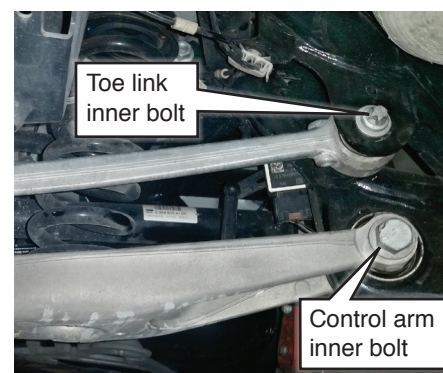


fig. 12

- Reinstall the inner toe link bolt with the upper bracket in place. There is a tab on the bracket that fits into a hole in the subframe. Torque to 100Nm (74 lb.-ft.). Reinstall the inner control arm bolt with the lower bracket in place. Make sure the tabs on the lower bracket hook over the control arm. Torque to 165Nm (122 lb.-ft.) (Fig. 13).
- Attach the height sensor linkage to the height sensor arm. Attach the height sensor to the upper bracket and the end of the linkage to the lower bracket. Torque the bracket and linkage to 2.5Nm (22 lb.-in.) (Fig. 13).
- Refer to the 3H/3P Installation Guide to fine tune the linkage.

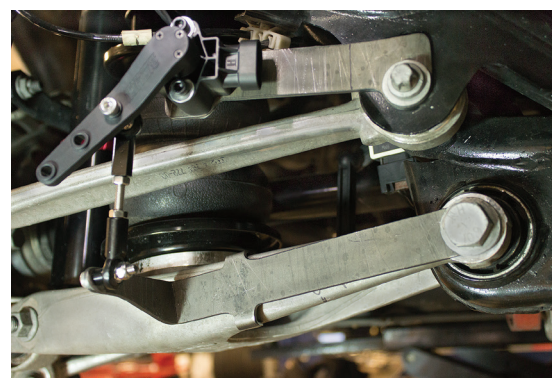


fig. 13