



2009 Ford F-150 4WD 2" Leveling Kit Installation Instructions

REQUIRED TOOL LIST:

- * Safety Glasses
 - * Metric / Standard Wrenches & Sockets
 - * Floor Jack
 - * Jack Stands
 - * Measuring Tape
 - * Torque Wrench
 - * Strut Spring Compressor
 - * Ball Joint Separator
-



Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory & is usually not noticed until a lift kit has been installed which makes the difference more visible. Using a measuring tape, measure the front & rear (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Driver Side Front: _____

Passenger Side Front: _____

Driver Side Rear: _____

Passenger Side Rear: _____

IMPORTANT NOTES:

- * If larger tires (10% more than the stock diameter) are installed, speedometer recalibration will be necessary. Contact your local Ford dealer or an authorized dealer for details.
- * After installation a qualified alignment facility is required to align the vehicle to factory specifications.

Kit Box Breakdown:

Part #: F920MS

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
F920MS-1	09 F150 .750" ALUM FRT SPCR	2
F920MS-2	09 F150 .625" ALUM FRT SPCR	2
HB-F920MS	HARDWARE BAG FOR F920MS	1
I-F920MS	INSTRUCTION SHEET: F920MS	1

Hardware Bag Breakdown:

HB-F920MS HARDWARE BAG FOR F920MS

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
10MMX60MMB	10 X 60 METRIC BOLT/10.9	6
10MMX1.5NFN	10MM X 1.5 NYLON FLANGE NUT	6

Front Installation:

1. Secure & properly block the tires of the vehicle on a level concrete or asphalt surface.
2. Jack up the front of the vehicle in accordance to the manufacturers recommendation & support with jack stands, so that the front two tires are off of the ground.
3. Remove the front tires / wheels.
4. Disconnect the sway bar end links.
5. Disconnect the steering linkage & push forward out of way.
6. Separate the upper ball joint from the spindle using a ball joint remover or other suitable tool.
7. Remove the 3 upper strut nuts on the strut tower that holds the strut assembly to the strut tower.
(Note: Leave one nut on to prevent the strut from dropping out in the next step.)
8. Remove the lower strut bolt from the lower control arm & remove the strut assembly from the vehicle. (Note the direction of the bolt for reinstallation)
9. Compress the coil spring on the strut assembly with a suitable coil spring compressor & remove the upper strut nut & strut mount, leaving the coil spring isolator in place on top of the coil spring.
10. Remove the 3 pressed in studs from the upper strut isolator mount. (See Photo # 1)
11. Install the lower aluminum spacer (Part # F920MS-2) into the bottom of the strut mount using the 3 10mm x 60mm bolts making sure the hex heads of the bolts recess into the slots of the lower spacer. Install the upper aluminum spacer (Part # F920MS-1) by aligning the bolt holes with the bolts on top of the strut mount. (See Photo # 2, 3, & 4)
12. Place the assembled strut mount & spacer assembly on the strut shaft & install the upper strut mount nut.
13. Decompress the coil spring. Making sure that the coil spring seats correctly on the upper & lower coil mounts.



Photo # 1



Photo # 2



Photo # 3

14. Install the strut assembly (See Photo # 5) into the strut tower & start the 3 upper 10mm nuts. (Make sure that the bottom of the strut is aligned as well)
15. Install the lower strut bolt in the original position that it was removed.
16. Using a floor jack, raise the lower control arm & connect the upper ball joint on the upper control arm to the spindle.
17. Repeat steps 5 thru 16 for the opposite side.
18. Reconnect the sway bar end links & install the front tires / wheels.
19. Lower the vehicle onto the ground & tighten the 3 upper strut tower nuts on both sides of the vehicle.



FINAL NOTES:

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart again for the proper torque specifications. (Do not retighten the nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, driveline systems, & brake line systems for proper operation, tightness, & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center realign the front end to the factory specifications.
- Retorque all the bolts after the first 100 miles.

TORQUE SPECIFICATIONS					
INCH SYSTEM			METRIC SYSTEM		
Bolt Size	Grade 5	Grade 8	Bolt Size	Class 8.8	Class 10.9
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FTLB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

***The above specifications are not to be used when the bolt is being installed with a bushing.**

Seat Belts Save Lives, Please Wear Your Seat Belt.

Part # F920MS

