

ADDICTIVE DESERT DESIGNS

2010 - CURRENT F-SERIES SPINDLE INSTALLATION INSTRUCTIONS

PREPARATION STEPS

1. With the vehicle on level ground and the emergency brake set, disconnect the negative terminal on the battery.
2. You will need the following tools:
 - a. 15/16" wrench
 - b. 15/16" socket
 - c. 21mm socket
 - d. 18mm socket
 - e. 15mm socket
 - f. 8mm socket
 - g. 3/16" allen
 - h. Ratchet
 - i. Hammer
 - j. Red threadlocker
3. Hardware Included:
 - a. Kit contents listed with each individual part.

INSTALLATION INSTRUCTIONS

1. Jack up the front of the vehicle and place on jack stands. Remove wheels and tires.
2. Remove CV axle nut dust cap and remove nut using a 15mm socket.



3. Remove abs line using a 3/16" allen.



4. Remove tie rod end nut using a 21mm socket.



5. Remove upper ball joint nut using a 18mm socket.



6. Remove lower ball joint nut using a 21mm socket.



7. Remove spindle from vehicle and lay spindle on the ground with the hub face down. Remove (3) bolts holding the vacuum actuator hub to the spindle using a 8mm socket. Remove (4) bolts securing the hub to the spindle using a 18mm socket. Save all hardware and set factory spindle aside. Place hub into the new spindle. Be sure to orient the abs mounting location like you removed it on the factory spindle. Place red threadlocker on the 4 bolts securing the hub and tighten to factory spec using a 18mm socket. Place vacuum actuator hub on spindle. Be sure to orient the vacuum lines in the same fashion as factory. Tighten using a 8mm socket to factory spec.



8. Attach the vacuum line into its original position on the back of the hub.



9. Place fabricated spindle onto the vehicle by securing the spindle to the lower arm ball joint. Align the CV axle into the hub. Using factory hardware on the lower ball joint, tighten using a 21mm socket.
10. Place upper ball joint into the spindle and fasten the ball joint using factory hardware and a 18mm socket.
11. Fasten the CV axle nut using a 15mm socket. Be sure to use caution while tightening. The axle splines will slide/line up with the vacuum actuated 4wd hub. Install factory dust cap.
12. Install tie rod into the spindle using the supplied hardware and a 15/16" socket and wrench.



13. Zip tie brake lines, abs line, and vacuum lines to the spindle using the slots in the spindle.
14. Reinstall the wheels and tires.
15. Remove jack stands and lower vehicle onto ground.
16. Realign vehicle.
17. Check, and re-tighten if needed, all mounting bolts after 100 miles and periodically thereafter.

For additional support or technical questions,
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