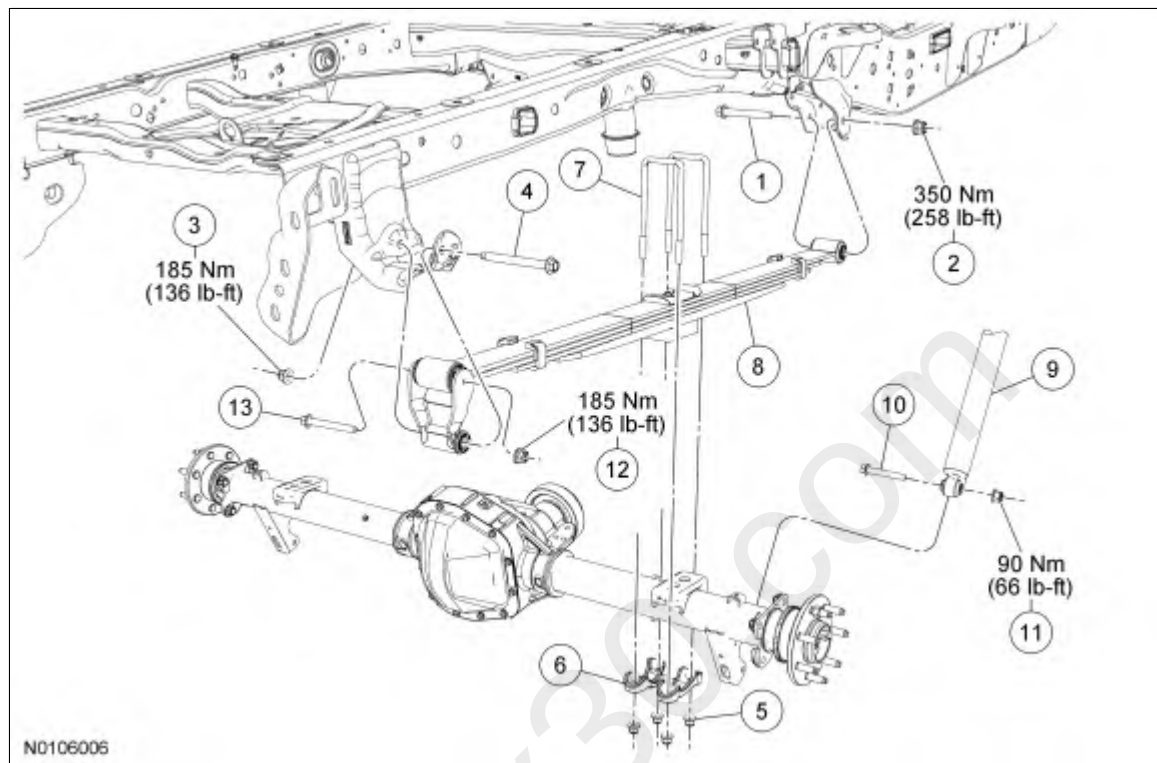


SECTION 204-02: Rear Suspension
REMOVAL AND INSTALLATION

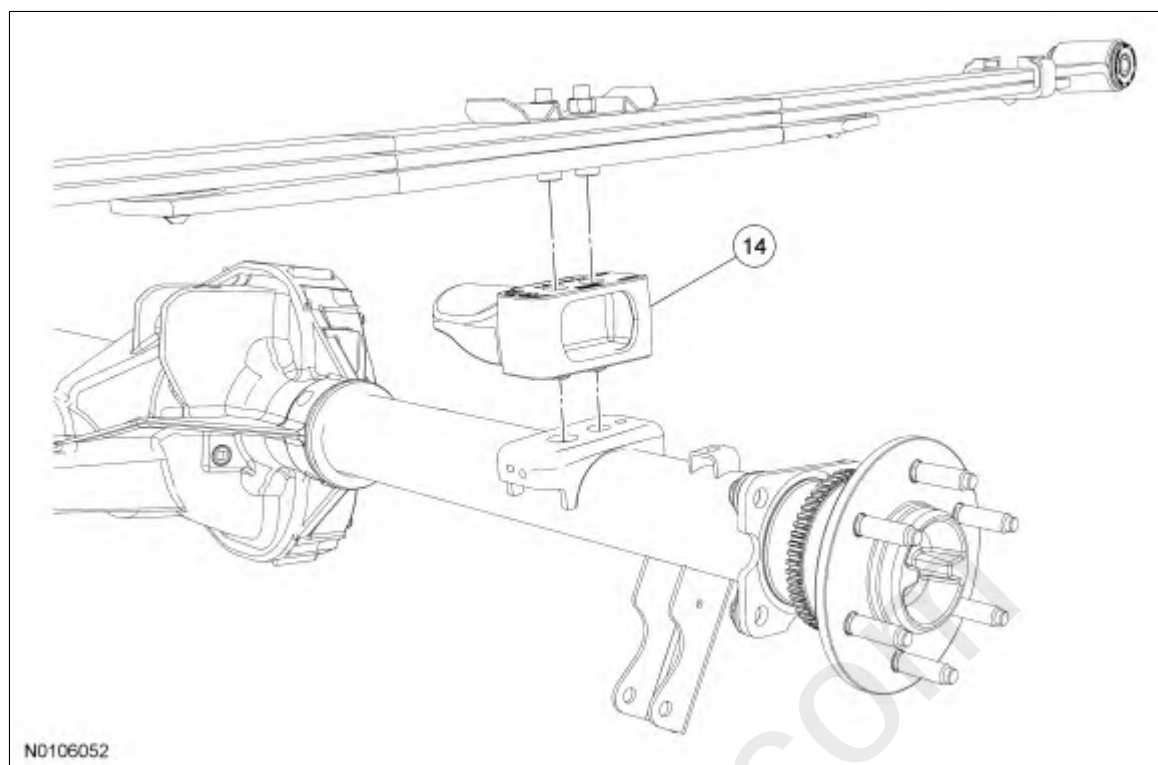
2014 F-150 Workshop Manual
Procedure revision date: 10/25/2013

Spring



Item	Part Number	Description
1	W709627	Spring-to-frame bolt
2	W714297	Spring-to-frame nut
3	W705518	Spring shackle-to-frame nut
4	W715654	Spring shackle-to-frame bolt
5	W520215	U-bolt nut (4 required)
6	5798	U-bolt plate
7	5705	U-bolt (2 required)
8	5560	Spring
9	18125	Shock absorber
10	W506545	Shock absorber lower bolt
11	W520214	Shock absorber lower nut
12	W705518	Spring-to-shackle nut
13	W715654	Spring-to-shackle bolt

NOTE: SVT Raptor shown, others similar.



Item	Part Number	Description
14	5A799	Spring spacer — Four-Wheel Drive (4WD) only

Removal



WARNING: Do not apply heat or flame to the shock absorber or strut tube. The shock absorber and strut tube are gas pressurized and could explode if heated. Failure to follow this instruction may result in serious personal injury.



WARNING: Keep all body parts clear of shock absorbers or strut rods. Shock absorbers or struts can extend unassisted. Failure to follow this instruction may result in serious personal injury.

NOTICE: Suspension fasteners are critical parts because they affect performance of vital components and systems and their failure may result in major service expense. New parts must be installed with the same part numbers or equivalent part, if replacement is necessary. Do not use a replacement part of lesser quality or substitute design. Torque values must be used as specified during reassembly to make sure of correct retention of these parts.

All vehicles

1. Remove the wheel and tire. For additional information, refer to [Section 204-04](#).
2. Using a suitable jack, support the axle.
3. Remove the shock absorber lower nut and bolt.
 - Discard the nut and bolt.
4. Remove the 4 U-bolt nuts, the U-bolt plate and the 2 U-bolts.

- Discard the nuts and the U-bolts.
5. For the LH spring, lower the fuel tank to gain access to the spring shackle-to-frame bolt. For additional information, refer to [Section 310-01](#).
 6. For the RH spring, remove the muffler to gain access to the spring-to-frame bolt. For additional information, refer to [Section 309-00](#).
 7. Remove and discard the spring-to-frame nut and bolt.
 8. Remove and discard the spring shackle-to-frame nut and bolt.
 9. **NOTE:** Only lower the axle enough to gain access to remove the spring.
Lower the jack and remove the spring and shackle assembly.
 10. If necessary, remove the spring-to-shackle nut, bolt and spring shackle.
 - Discard the nut and bolt.

Four-Wheel Drive (4WD) vehicles

11. Remove the Four-Wheel Drive (4WD) spring spacer.

Installation

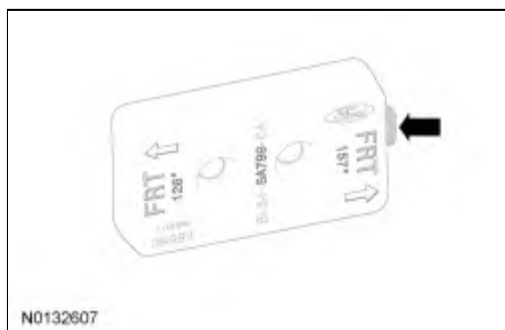
4WD vehicles

NOTE: The SVT Raptor spring spacer must be positioned with the jounce bumper pad inboard and the arrow facing the front of the vehicle.

All other vehicles, the arrow on the spring spacer must face toward the front of the vehicle according to the wheelbase application. Use specifications on spring spacer.

1. **NOTE:** The protrusion on the spring spacer should face toward the front of the vehicle on 157 inch wheelbase applications and face toward the rear on 126 inch wheelbase applications.

Position the spring spacer and make sure that it is correctly seated between the axle and spring with the arrow pointed to the front of the vehicle according to the wheelbase application.



All vehicles

2. If necessary, install a new shackle-to-spring bolt and nut.

- Tighten until snug.
3. Position the spring and install a new spring shackle-to-frame bolt and nut.
 - Tighten until snug.
 4. Position the U-bolt plate and install the new U-bolts and nuts.
 - Tighten until snug.
 5. Install a new spring-to-frame bolt and nut.
 - Tighten until snug.
 6. Install a new shock absorber lower bolt and nut.
 - Tighten until snug.
 7. Install the wheel and tire. For additional information, refer to [Section 204-04](#).
 8. Lower the vehicle until the weight of the vehicle is resting on the wheels and tires (curb height).
 9. Tighten the spring shackle-to-frame nut to 185 Nm (136 lb-ft).
 10. Tighten the spring-to-frame nut to 350 Nm (258 lb-ft).
 11. If necessary, tighten the spring-to-shackle nut to 185 Nm (136 lb-ft).
 12. For the LH spring, raise the fuel tank. For additional information, refer to [Section 310-01](#).
 13. For the RH spring, install the muffler. For additional information, refer to [Section 309-00](#).
 14. Tighten the U-bolt nuts in 4 stages.
 - Stage 1: Tighten in a cross pattern to 35 Nm (26 lb-ft).
 - Stage 2: Tighten in a cross pattern to 70 Nm (52 lb-ft).
 - Stage 3: Tighten in a cross pattern to 100 Nm (74 lb-ft).
 - Stage 4: Tighten in a cross pattern to 133 Nm (98 lb-ft).
 15. Tighten the shock absorber lower nut to 90 Nm (66 lb-ft).
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