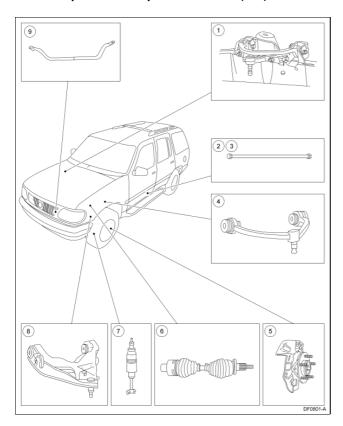
SECTION 204-01B: Front Suspension 4x4 DESCRIPTION AND OPERATION

2005 Explorer Sport Trac Workshop Manual Procedure revision date: 06/23/2004

Front Suspension AWD (4x4) Printable View (109 KB)

Front Suspension Components AWD (4x4)



Item	Part Number	Description
1	3084	Front suspension upper arm (RH)
2	5B327	Torsion bar (LH)
3	5B326	Torsion bar (RH)
4	3091	Front suspension upper arm (LH)
5	3K207	Front wheel hub and knuckle
6	3B437	Front wheel driveshaft and joint (LH)
7	18045	Front shock absorber
8	3051	Front suspension lower arm (LH)
9	5494	Front stabilizer bar

SECTION 204-01B: Front Suspension 4x4 DIAGNOSIS AND TESTING

2005 Explorer Sport Trac Workshop Manual Procedure revision date: 06/23/2004

Front Suspension 4x4 Printable View (7 KB)

Refer to Section 204-00.

SECTION 204-01B: Front Suspension 4x4 GENERAL PROCEDURES

2005 Explorer Sport Trac Workshop Manual Procedure revision date: 06/23/2004

Ride Height Printable View (7 KB)

For additional information, refer to $\underline{\text{Section 204-01A}}$.

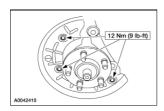
Ride Height Printable View (7 KB)

Wheel Hub

Printable View (86 KB)

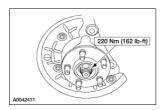
Removal and Installation

- 1. Remove the brake disc (1125). For additional information, refer to Section 206-03.
- 2. Remove the three bolts and the dust shield.

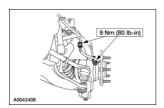


3. **A** CAUTION: Discard the wheel hub retainer nut and washer assembly. It is a torque prevailing design and cannot be reused.

Remove the wheel hub retainer nut and washer assembly.



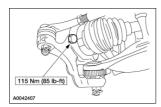
4. Remove the bolts and position the anti-lock sensor (2C204) aside .



5. A CAUTION: Do not overextend CV joint and boots when removing the hub and bearing assembly.

NOTE: The CV joint is a slip fit into the wheel hub and bearing. A puller will not normally be required.

Remove the three bolts and the wheel hub (1104).



6. To install, reverse the removal procedure.

Wheel Hub Printable View (86 KB)

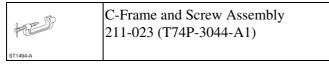
SECTION 204-01B: Front Suspension 4x4 REMOVAL AND INSTALLATION

2005 Explorer Sport Trac Workshop Manual Procedure revision date: 06/23/2004

Wheel Studs

Printable View (60 KB)

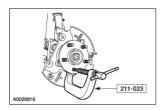
Special Tool(s)



Removal

△ CAUTION: Suspension fasteners are critical parts because they affect the performance of vital components and systems and their failure can result in major service expense. A new part with the same part number must be installed if installation becomes necessary. Do not use a new 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.

- 1. Remove the front brake disc. For additional information, refer to Section 206-03.
- 2. Using the special tool, press the stud from the flange.

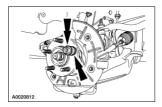


Installation

- 1. Insert the stud into the flange, making sure the serrations on the stud line up with the serrations in the flange.
- 2. <u>A CAUTION</u>: Do not use power tools to install a wheel stud. The serrations in the flange can be stripped.

NOTE: Do not use the wheel nuts that came with the vehicle.

Install washers and a wheel nut on the wheel stud and tighten the nut until the stud seats against the flange. Discard the nut after use.



3. Install the front brake disc. For additional information, refer to Section 206-03.

Wheel Studs Printable View (60 KB) 1156

Wheel Studs Printable View (60 KB) 1157

Wheel Knuckle

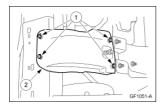
Printable View (214 KB)

Special Tool(s)

	Adapter for 204-185 (Spacer) 204-204 (T96T-5310-B)
€ ST2036-A	
	Remover, Steering Arm
	211-003 (T64P-3590-F)
ST1263-A	
	Remover/Installer, Torsion Bar
	204-185 (T95T-5310-AR)
A ST1355-A	
	Adapter for 204-185
	204-203 (T96T-5310-A)
ST1386-A	

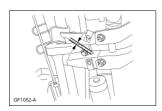
Removal and Installation

- 1. Remove the wheel hub (1104). For additional information, refer to Wheel Hub in this section.
- 2. Remove the torsion bar cover plate.
 - 1. Remove the retaining bolts.
 - 2. Remove the torsion bar cover plate.

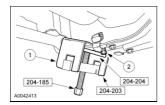


3. **NOTE:** Before relieving the torsion bar tensions, measure and record the measurement of the torsion bar adjustment bolt. This measurement will be used as the preset depth for the new torsion bar adjustment bolt during installation.

Measure and record the length where indicated.

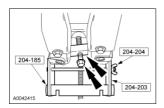


- 4. Relieve the torsion bar tension.
 - 1. Position the special tool and the adapters.
 - 2. Tighten the special tool until the torsion bar adjuster lifts off of the adjustment bolt.

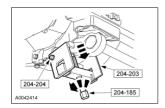


5. A CAUTION: The torsion bar adjustment bolt is coated with dry adhesive. A new bolt must be installed if it is backed off or removed. Failure to do so can cause the adjustment bolt to loosen during operation and result in a loss of vehicle alignment.

Remove the torsion bar adjustment bolt and nut.



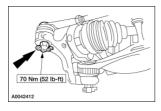
6. Loosen the special tool until the tension is off the torsion bar.



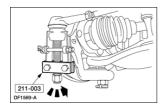
7. **A** CAUTION: Secure the front axle shaft to prevent it from overextending. Failure to do so can cause damage to the front axle shaft.

Suspend the front axle shaft with wire.

- 8. Remove the tie-rod end castellated nut.
 - Remove the tie-rod end cotter pin.
 - Remove the tie-rod end castellated nut.

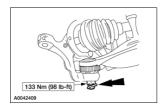


- 9. Using the special tool, separate the tie-rod end (3A130).
 - Separate the tie-rod end from the front wheel knuckle (3K185).

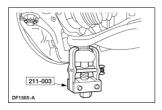


- 10. Remove the lower ball joint castellated nut.
 - 1. Remove the lower ball joint cotter pin.

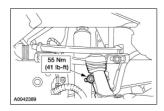
2. Remove the lower ball joint castellated nut.



11. Using the special tool, separate the front wheel knuckle from the front suspension lower arm.



12. Remove the pinch bolt and the wheel knuckle.



- 13. Adjust the ride height. For additional information, refer to Ride Height in this section.
- 14. Check and if necessary align the front end. For additional information, refer to $\underline{\text{Section } 204-00}$.

Wheel Knuckle Printable View (214 KB)