

1995-2003 Ford Windstar Coil Spring Conversion

Air Spring Removal



WARNING: The air suspension system is under pressure (up to 10 bar, or 150 lb/in²). Do not allow dirt or grease to enter the system. Always wear standard protective hand, ear, and eye protection when servicing the air suspension system.

Removal

1. Turn the air suspension switch to the OFF position. (Switch is located on the passenger front kick plate)
2. Raise the vehicle on a hoist or with the proper lifting equipment. Suspension must be at full rebound with no load.

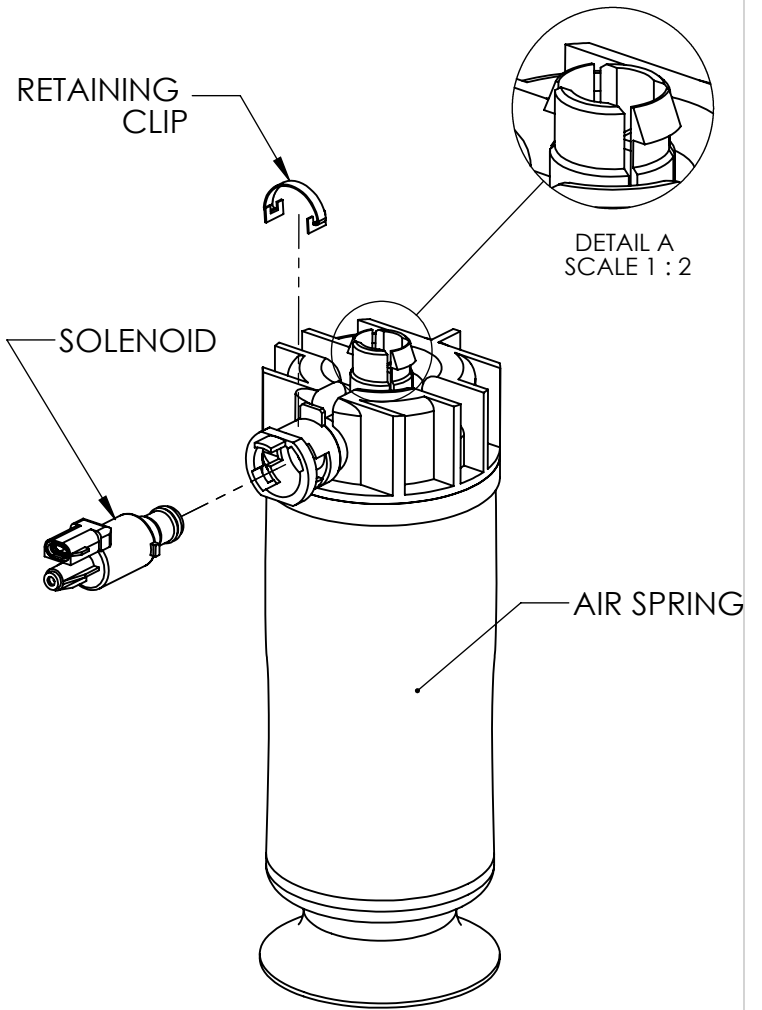


WARNING: Always support the chassis on safety stands. Refer to your vehicle's Owner's Manual for correct lifting instructions.

3. Remove both rear tires.
4. Remove air spring solenoid retaining clip.
5. Remove electrical connector and air line from air spring solenoid valve.
6. Rotate solenoid counterclockwise to the first stop, and then carefully pull out to vent the air pressure from the air spring. After air spring is deflated, turn again and completely remove solenoid from air spring.
7. Unclip the top and bottom of the air spring from the vehicle by compressing plastic locking fingers illustrated in "Detail A".
8. Carefully remove air spring from the vehicle.
9. Unplug the air spring solenoid power supply, and remove the air hose by pushing down on the orange quick release ring while pulling outward on the hose.
10. Remove the air spring solenoid.

NOTICE: It's important to unplug and remove the air spring solenoid. Removing the solenoid will prevent the air suspension system from operating after the conversion is installed.

11. Seal off hose to prevent dirt or grease from entering system.
12. Remove both lower shock bolts. Allow axle to hang free unsupported. This will give you extra clearance for the coil spring.



Coil Spring Installation

Tie the wires and air hose back away from any hot or moving parts. Do not cut the wires. Leave the system whole in case you ever want to reinstall air suspension on the vehicle.

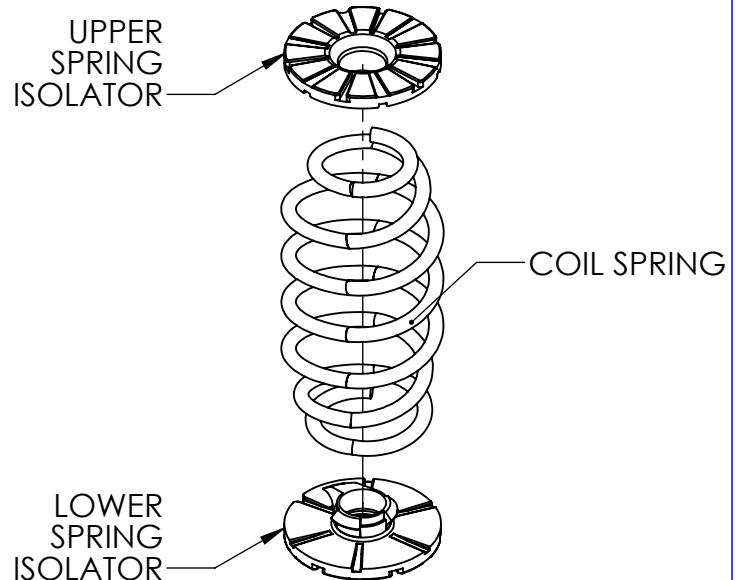
1. Place the rubber isolators on the top and bottom of the coil spring.
2. Install the coil springs onto the rear axle.
3. Using a floor jack, raise the rear axle.
4. Install the lower shock absorber retaining nut and bolt to the rear axle. Tighten the lower shock absorber retaining nut and bolt to 95 N-m (70 lb-ft).
5. Remove the rear axle support.
6. Replace tire and wheel assembly. Tighten wheel hub bolt nuts to 115-142 N-m (85-105 lb-ft).
7. Remove all safety stands and lower vehicle.



WARNING: Make sure to tighten all wheel hub bolt nuts to 115-142 Nm (85-105 lb-ft). Failure to heed to this warning could result in serious bodily and vehicular damage.

Disarming the Air Suspension System

To disarm the suspension light, you will need to remove the instrument cluster, and unplug or remove the light bulb for the Check Air Suspension warning lamp.



			DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		NAME	DATE	1995-2003 FORD WINDSTAR COIL SPRING CONVERSION
			MATERIAL	DRAWN	KMD	07/24/08	
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				ENG APPR.			
				MFG APPR.			
				Q.A.			
				COMMENTS:			
		NEXT ASSY	USED ON	FINISH			
		APPLICATION	DO NOT SCALE DRAWING				
				SIZE	DWG. NO.	REV.	
				A	COIL-CONVERSION	0	
				SCALE: 1:8	WEIGHT:	SHEET 1 OF 1	