
REAR SUSPENSION

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N17AA--

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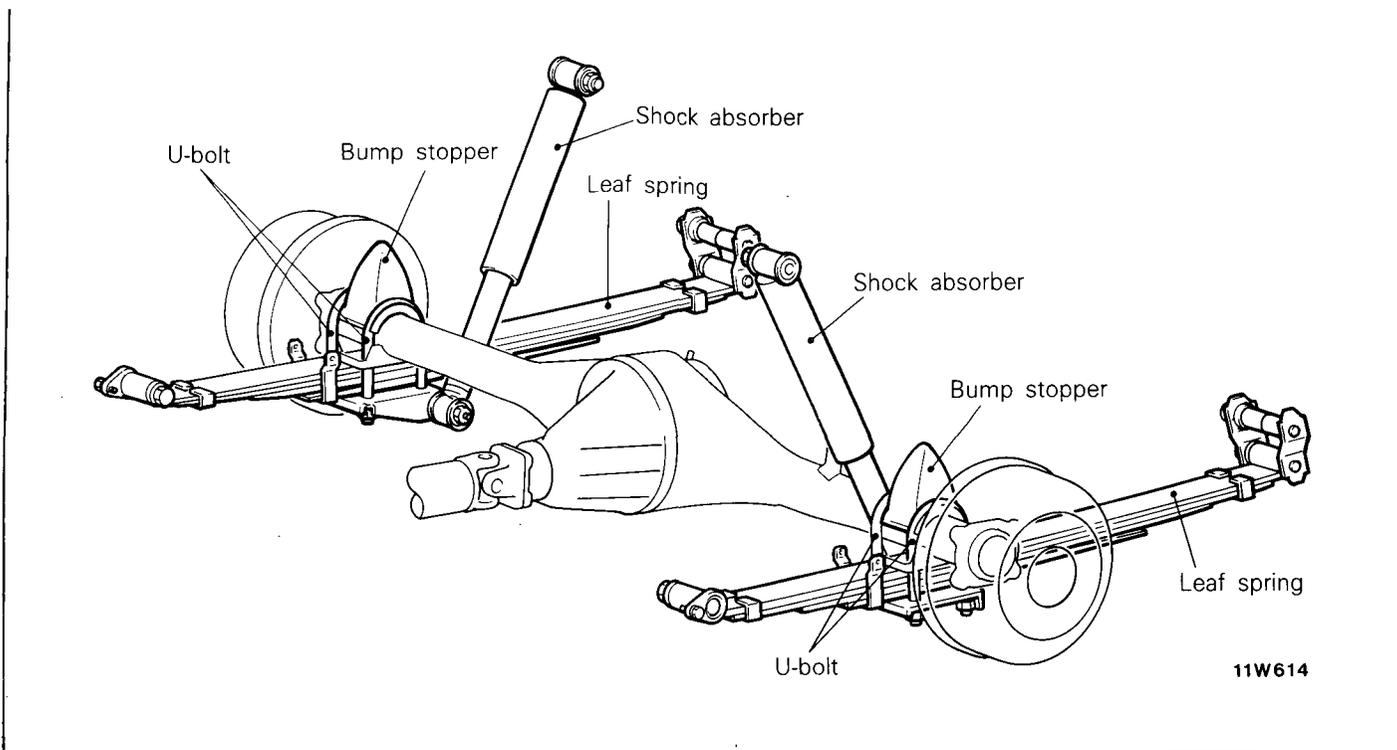


GENERAL INFORMATION

N17BAAB

The leaf spring type of rear suspension has been adopted. The leaf spring is secured to the rear axle housing by U-bolts, so that the vibration and noise transmitted to the body during off-road driving are reduced by the bump stopper.

The shock absorbers have a bias arrangement.



SPECIFICATIONS

GENERAL SPECIFICATIONS

N17CA-

Items	Specifications
Suspension system	Asymmetrical semielliptic leaf springs
Leaf springs	
Number of leaf springs	4
Straight span mm (in.)	1,196.5–1,203.5 (47.106–47.382)
Camber (unladen) mm (in.)	73.5–82.5 (2.894–3.248)
Spring constant N/mm (lbs./in.)	
– as installed	
at load of 1,000–2,500 N (220–551 lbs.)	22 (123)
at load of 4,670–8,870 N (1,030–1,955 lbs.)	50 (280)
Shock absorbers	
Type	Hydraulic cylinder, double-acting type
Max. length mm (in.)	545–548 (21.5–21.6)
Min. length mm (in.)	325–328 (12.8–12.9)
Stroke mm (in.)	220 (8.7)
Damping force [at 0.3 m/sec. (0.984 ft./sec.)]	
Expansion N (lbs.)	1,580–2,100 (348–463)
Compression N (lbs.)	590–850 (130–187)

SERVICE SPECIFICATIONS

N17CB--

Items	Specifications
Standard value	
Toe-in mm (in.)	0 (Non adjustable)
Camber	0° (Non adjustable)

TORQUE SPECIFICATIONS

N17CC--

Items	Nm	ft.lbs.
Shackle assembly attaching nut	45-60	33-43
Front pin assembly attaching nut	45-60	33-43
Shock absorber attaching nut	18-25	13-18
Front pin assembly attaching bolt	14-20	10-14
U-bolt attaching nut	85-110	61-80

SERVICE ADJUSTMENT PROCEDURES

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INSPECTION OF REAR WHEEL ALIGNMENT

The rear suspension assembly must be free of worn, loose or damaged parts prior to measurement of rear wheel alignment.

Standard value : Toe-in 0 mm (0 in.)
Camber 0°

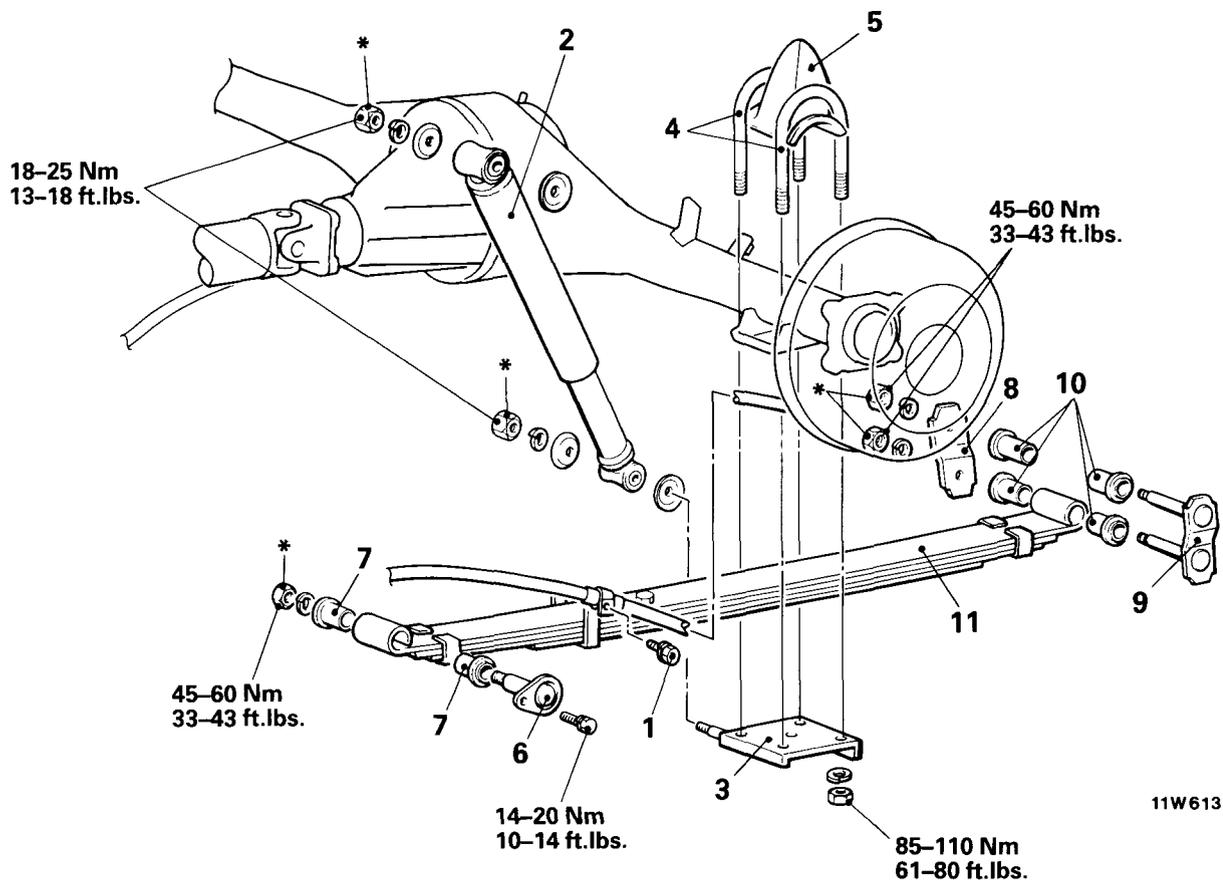
NOTE

Toe-in and camber are set at the factory and cannot be adjusted.

If toe-in or camber is not within the standard value, check and replace bent or damaged parts.

REAR SUSPENSION ASSEMBLY

REMOVAL AND INSTALLATION



11W613

Post-installation Operation

- Inspection of Rear Wheel Alignment (Refer to P.17-3.)

Removal steps

1. Parking brake cable attaching bolt
2. Shock absorber
- ◆◆ 3. U-bolt seat
- ◆◆ 4. U-bolts
5. Bump stopper
- ◆◆ 6. Front pin assembly
7. Rubber bushings
8. Shackle plate
- ◆◆ 9. Shackle assembly
10. Rubber bushings
- ◆◆ 11. Rear spring

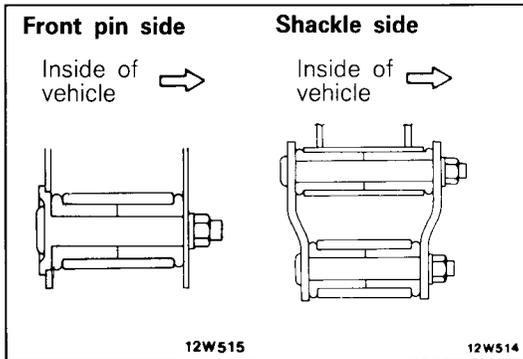
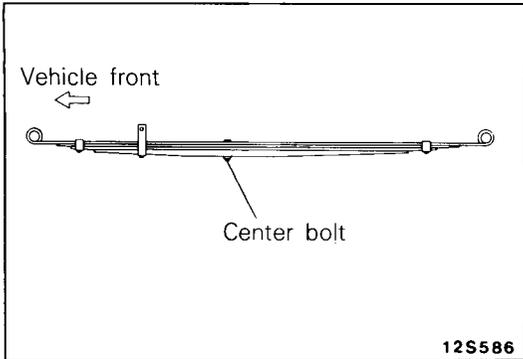
NOTE

- (1) Reverse the removal procedures to reinstall.
- (2) ◆◆ : Refer to "Service Points of Installation".
- (3) * : Tighten when the vehicle is unloaded.

INSPECTION

N17GCAB

- Check the shock absorbers for oil leakage, noise or malfunction.
- Check the leaf springs for damage or deterioration.
- Check the U-bolt for cracks or bends.
- Check the rubber parts for cracks or deterioration.



SERVICE POINTS OF INSTALLATION

N17GDAE

11. INSTALLATION OF REAR SPRING

Install the spring assembly to vehicle. Make sure the front end (front pin side) to center bolt distance is shorter than the rear end to center bolt distance.

9. INSTALLATION OF SHACKLE ASSEMBLY/6. FRONT PIN ASSEMBLY

- (1) Install the front pin assembly from the outside toward the inside of vehicle.
- (2) Install the shackle assembly from the outside toward the inside of vehicle.

4. INSTALLATION OF U-BOLT/3. U-BOLT SEAT

Before the U-bolts are tightened to specified torque, confirm the relative position of the center bolt and axle housing and that of the center bolt and the hole in the U-bolt seat.

