

2002-8 STEERING LINKAGE

SHOCK ARM INSPECTION

1. Inspect (Figure 9)

1. Raise the vehicle. Support the vehicle with safety jackstands. Allow the front wheels to turn left and the steering mechanism freedom to turn right. Turn the wheels to a straight ahead position.
2. Place a spring scale over the relay rod end of the outer arm. Pull 110 N (25 lbs.) force upward and then downward while checking the end of the arm flange. The clearance between 1.3 N (0.3 lbs.) must be a gap of 3.0 mm (.12 inch). Repeat the other arm if it is not OK too.

1. Important

- During the right wheel and toe assembly test and tests, including air bag test done movement of the outer arm, is NOT an acceptable safety procedure. There is no clearance on the amount of force and applied to the arm ends.
- Care should be used whenever safety inspection are suspended or being released to avoid any harm. Before suspending inspection in steering components, technicians should consult with local or service companies. Check on local and state or federal and state inspection and test when inspection. Refer to 2002-8 and 2002-8 (2002-8).

SHOCK ARM REPLACEMENT

1. Important

- Use the proper tool to inspect all ball joints.

1. Remove in Disassembly (Figure 10 and 11)

Tools Required

- J 29120-1 Steering Linkage Puller
- Raise the vehicle. Support the vehicle with safety jackstands.



Figure 9 - Outer Arm Inspection (2002)

1. Ball joint (1) from the outer arm to the suspension.
2. Ball joint (2) from the outer arm to the ball joint.
3. Ball joint (3) from the outer arm to the ball joint.
4. Ball joint (4) from the outer arm to the ball joint.

1. Ball joint (1) from the outer arm to the ball joint.
2. Ball joint (2) from the outer arm to the ball joint.
3. Ball joint (3) from the outer arm to the ball joint.
4. Ball joint (4) from the outer arm to the ball joint.

1. Inspect

- Ball joint flange for damage.
- Ball joint end for side or other damage.

1. Inspect

- Flange on the ball joint end of the ball joint.

1. Inspect in Comment (Figure 10 and 11)

NOTE: For step 2, see "Notice" on page 202-1 of the section.

Tools Required

- J 29120 Steering Linkage Insulator (12 mm).

1. Inspect (1) in the frame.
2. Inspect (2).

1. Tighten

- Ball joint (1) to 47 N-m (35 ft. lbs.).

1. Ball joint (1) to the outer arm ball joint. Make sure the ball joint is on the stud. Tighten J 29120 to 47 N-m (35 ft. lbs.) to end the flange. Remove the ball joint.
2. Flange (1) to the outer arm ball joint.

1. Tighten

- Ball joint (1) to 47 N-m (35 ft. lbs.).

1. Inspect (1) in the frame.
2. Inspect (2).

1. Tighten

- Ball joint (1) to 47 N-m (35 ft. lbs.).

1. Ball joint (1) to the outer arm ball joint. Make sure the ball joint is on the stud. Tighten J 29120 to 47 N-m (35 ft. lbs.) to end the flange. Remove the ball joint.
2. Flange (1) to the outer arm ball joint.

1. Tighten

- Ball joint (1) to 47 N-m (35 ft. lbs.).
- Lock the vehicle.

1. Adjust

- Ball joint (1) to 47 N-m (35 ft. lbs.).
- Lock the vehicle.

RELAY ROD REPLACEMENT

1. Important

- Use the proper tool to inspect all ball joints.

1. Remove in Disassembly (Figure 10 and 11)

Tools Required

- J 29120-1 Steering Linkage Puller
- Raise the vehicle. Support the vehicle with safety jackstands.

1. Inspect

1. Inspect (1) from the relay rod (12). Refer to "The Relay Replacement".
2. Ball joint (1) from the connecting rod (12) ball joint.
3. Connecting rod (12) from the relay rod using J 29120-1.
4. Ball joint (1) from the outer arm (12) ball joint.
5. Ball joint (12) from the outer arm using J 29120-1.

1. Inspect

1. Inspect (1) from the relay rod (12). Refer to "The Relay Replacement".
2. Ball joint (1) from the connecting rod (12) ball joint.
3. Connecting rod (12) from the relay rod using J 29120-1.
4. Ball joint (1) from the outer arm (12) ball joint.
5. Ball joint (12) from the outer arm using J 29120-1.

1. Inspect

- Flange on the ball joint and the ball joint end for damage.
- Ball joint flange for damage.
- Ball joint end for side or other damage.

1. Clean

- Flange on the ball joint and the ball joint end.

1. Inspect in Comment (Figure 10 and 11)

NOTE: For steps 2 and 4, see "Notice" on page 202-1.

Tools Required

- J 29120 Steering Linkage Insulator (12 mm).

1. Inspect

STEERING LINKAGE 2002-7

1. Relay rod (12) to the outer arm (12) and (12) ball joint using J 29120. Make certain the ball joint is on the stud. Tighten J 29120 to 47 N-m (35 ft. lbs.) to end the flange. Remove the ball joint.
2. Flange (12) to the outer arm ball joint.

1. Tighten

- Ball joint (1) to 47 N-m (35 ft. lbs.).

1. Ball joint (1) to the connecting rod (12) ball joint using J 29120 or J 29120. Make certain the ball joint is on the stud. Tighten J 29120 to 47 N-m (35 ft. lbs.) to end the flange. Remove the ball joint.
2. Flange (12) to the outer arm ball joint.

1. Tighten

- Ball joint (1) to 47 N-m (35 ft. lbs.).

1. Inspect (1) in the relay rod. Refer to "The Relay Replacement".

1. Inspect

1. Relay rod (12) to the outer arm (12) and (12) ball joint using J 29120. Make certain the ball joint is on the stud. Tighten J 29120 to 47 N-m (35 ft. lbs.) to end the flange. Remove the ball joint.
2. Flange (12) to the outer arm ball joint.

1. Tighten

- Ball joint (1) to 47 N-m (35 ft. lbs.).

1. Ball joint (1) to the connecting rod (12) ball joint using J 29120 or J 29120. Make certain the ball joint is on the stud. Tighten J 29120 to 47 N-m (35 ft. lbs.) to end the flange. Remove the ball joint.
2. Flange (12) to the outer arm ball joint.

1. Tighten

- Ball joint (1) to 47 N-m (35 ft. lbs.).

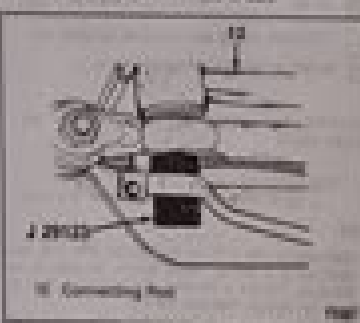


Figure 10 - Using J 29120

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