

2002-8 STEERING LINKAGE

SHOCK ARM INSPECTION

1. Inspect (Figure 9)

1. Raise the vehicle. Support the vehicle with safety stands. Allow the front wheels to turn left and the steering mechanism to return to center. Turn the wheels to a straight ahead position.
2. Place a spring scale over the relay rod end of the shock arm. Read 110 to 125 lbs. Turn upward and then downward while checking the pre-tension of the arm. The allowable deflection is 2 to 4 lbs. (10 inch) for a test of 3.0 inch. (10 inch) Repeat the other side if it test the test.

1. Inspect

- Inspect the upper control and the steering knuckle and bolts, including all tie rod ends, mounted in the shock arm, to meet all applicable safety standards. There is no tolerance on the amount of force and applied to the arm end.
- Care should be used whenever safety stands are suspended or being released to avoid any injury. Before suspending equipment in steering components, technicians should consult and read the service instructions. Check to make sure that all safety and use instructions and load limits are followed. Refer to J 29120 and J 29121 (2002-8).

SHOCK ARM REPLACEMENT

1. Inspect

- Use the proper tool to inspect all tie rods.

1. Remove or Disconnect (Figure 9 and 10)

- Tools Required**
- J 29120-01 Steering Linkage Puller
 - Raise the vehicle. Support the vehicle with safety stands.



Figure 9 - Shock Arm Removal (2002)

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STEERING LINKAGE 303-7

1. Tighten

- Nut (5) to 47 ft-lb (64 N·m).
- Lower the vehicle.

1. Adjust

- Turn. Refer to FRONT END ALIGNMENT (2002-8) in the Manual.

RELAY ROD REPLACEMENT

1. Important

- Use the proper tool to inspect all tie rods.

1. Remove or Disconnect (Figure 9 and 10)

- Tools Required**
- J 29120-01 Steering Linkage Puller
 - Raise the vehicle. Support the vehicle with safety stands.

1. Note

1. Lower tie rod (1) from the relay rod (10). Refer to "The Road Replacement".
2. Nut (5) from the connecting rod (10) ball stud.
3. Connecting rod (10) from the relay rod using J 29120-01.
4. Nut (6) from the other arms (3) and (4) ball stud.
5. Relay rod (10) from the other arms using J 29120-01.

1. Note

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2. Nut (5) from the connecting rod (10) ball stud.
3. Connecting rod (10) from the relay rod using J 29120-01.
4. Nut (6) from the other arms (3) and (4) ball stud.
5. Relay rod (10) from the other arms using J 29120-01.

1. Inspect

- Inspect on the tie rod and the tie rod end for damage.
- Ball stud threads for damage.
- Ball stud end for excessive wear.

1. Clean

- Inspect on the tie rod and the tie rod end.

1. Install or Connect (Figure 9 and 10)

- NOTICE:** For steps 2 and 4, see "Notice" on page 303-1.

- Tools Required**
- J 29120-01 Steering Linkage Puller (12 mm).

1. Note

1. Relay rod (10) to the other arm (3) and (4) ball stud using J 29120-01. Make certain the nut is on the stud. Tighten J 29120-01 to 44 ft-lb (60 N·m) to seat the spacers. Remove the nut.

2. Preloading torque nut (5) to the other arm ball stud.

1. Tighten

- Nut (5) to 47 ft-lb (64 N·m).

3. Relay rod to the connecting rod (10) ball stud using J 29120-01 or J 29121-01. Make certain the nut is on the stud. Tighten J 29120-01 or J 29121-01 to 44 ft-lb (60 N·m) to seat the spacers. Figure 10. Remove the nut.

4. Preloading torque nut (5) to the connecting rod ball stud.

1. Tighten

- Nut (5) to 47 ft-lb (64 N·m).

5. Lower tie rod (1) to the relay rod. Refer to "The Road Replacement".

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4. Preloading torque nut (5) to the connecting rod ball stud.

1. Tighten

- Nut (5) to 47 ft-lb (64 N·m).

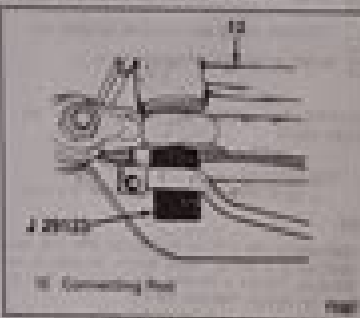


Figure 10 - Using J 29120

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Table of Contents Astro Service Manual

1. Understanding the eBook Astro Service Manual
 - The Rise of Digital Reading Astro Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Astro Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astro Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astro Service Manual
 - Personalized Recommendations
 - Astro Service Manual User Reviews and Ratings
 - Astro Service Manual and Bestseller Lists
5. Accessing Astro Service Manual Free and Paid eBooks
 - Astro Service Manual Public Domain eBooks
 - Astro Service Manual eBook Subscription Services
 - Astro Service Manual Budget-Friendly Options

6. Navigating Astro Service Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Astro Service Manual Compatibility with Devices
 - Astro Service Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astro Service Manual
 - Highlighting and Note-Taking Astro Service Manual
 - Interactive Elements Astro Service Manual
8. Staying Engaged with Astro Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astro Service Manual
9. Balancing eBooks and Physical Books Astro Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astro Service Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Astro Service Manual
 - Setting Reading Goals Astro Service Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Astro Service Manual
 - Fact-Checking eBook Content of Astro Service Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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