# **Ball Joint Service Set**



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# **Safety Precautions**









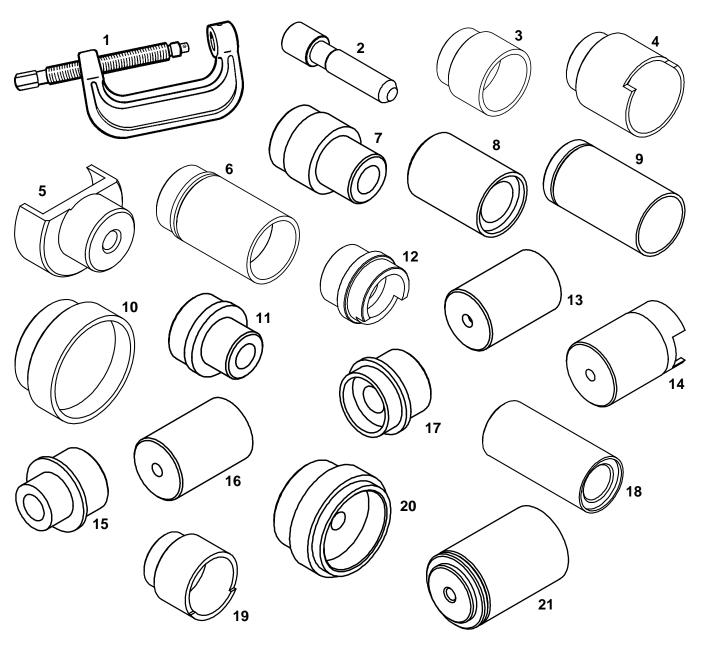
# **Safety Precautions**



CAUTION: To prevent personal injury when using these tools,

- Wear eye protection that meets ANSI Z87.1 and OSHA standards.
- Before performing repairs on a vehicle, block the vehicle wheels to prevent movement of the vehicle.
- Check the final alignment of tooling and components before using the C-frame to exert pressure.

# **Parts List**



Item No.	Part No.	No. Req'd	Description	Item No.	Part No.	No. Req'd	Description
1	521808	1	C-Frame Press (consists of	11	521797	1	Remover
			311938 plug; 10273 o-ring;	12	521798	1	Receiver
			14472 steel ball; 37703	13	521799	1	Installer
			forcing screw; 521808-1	14	521800	1	Remover / Installer
			C-frame.	15	521801	1	Remover / Installer
2	29501	1	Plug	16	521802	1	Remover / Installer
3	521789	1	Installer	17	521803	1	Remover / Installer
4	521790	1	Receiver Cup / Remover	18	521804	1	Receiver
5	521791	1	Remover / Installer	19	521805	1	Receiver
6	521792	1	Installer Cup	20	521806	1	Installer
7	521793	1	Remover	21	521807	1	Receiver Cup
8	521794	1	Installer	22	522074	1	Inside Lid Decal
9	521795	1	Remover Cup		521718	1	Storage Case (not shown)
10	521796	1	Receiver Cup				<i>3</i>

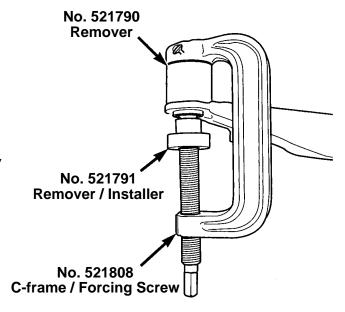
# **Dodge Pickup**

Application: Lower ball joint on 2002–04 Dodge 1/2-ton, 3/4-ton 2WD pickup; 2002–04 Dodge 1/2-ton 4WD pickup.

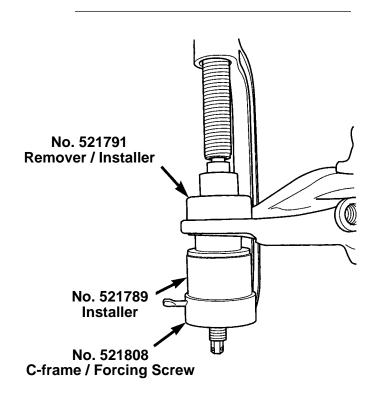
# Removal / Installation

Note: The upper ball joint is not serviceable. The upper control arm assembly must be replaced.

- 1. If applicable, remove the snap ring from the control arm or ball joint.
- 2. Position the tools as shown to remove or install the lower ball joint.
  - During installation, clean the control arm, and coat the I.D. with a suitable lubricant.
- 3. Tighten the forcing screw until it meets the cup, and check the alignment of all tooling and components.
- 4. Continue tightening the forcing screw until the ball joint is removed or installed.
- 5. After installation, if applicable, install the snap ring on the control arm or ball joint.



Removal



Installation

# **Dodge Pickup**

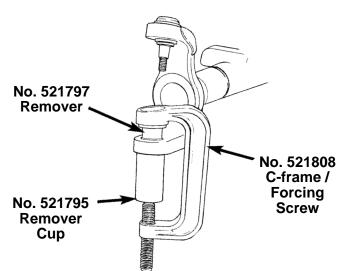
Application: Lower and upper ball joints on 2000–04 Dodge 3/4-ton, 1-ton 2WD pickup; 2000–04 Dodge 3/4-ton, 1-ton 4WD pickup.

# Removal / Installation

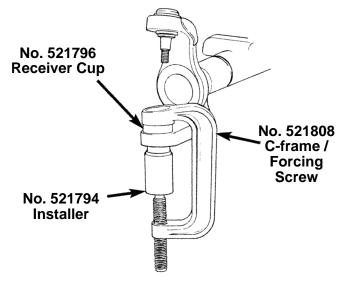
- 1. If applicable, remove the snap ring from the control arm or ball joint.
- 2. Position the tools as shown to remove or install the lower or upper ball joint.

  During installation, clean the control arm, and coat the I.D. with a suitable lubricant.
- 3. Tighten the forcing screw until it meets the cup, and check the alignment of all tooling and components.
- 4. Continue tightening the forcing screw until the ball joint is removed or installed.
- 5. After installation, if applicable, install the snap ring on the control arm or ball joint.

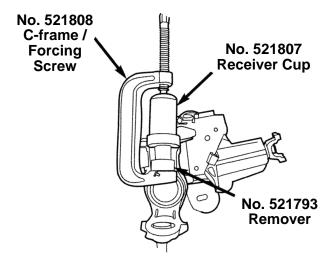
# **Lower Ball Joint Removal**



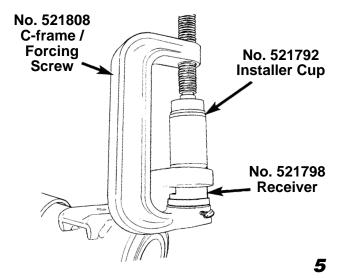
### **Lower Ball Joint Installation**



# **Upper Ball Joint Removal**



# **Upper Ball Joint Installation**



# Jeep

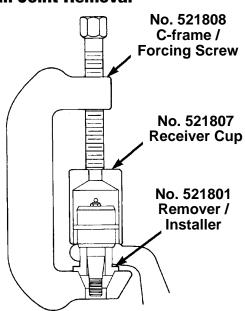
Application : Lower and upper ball joints on 1993–04 Grand Cherokee; 1984–01 Cherokee; 1987–98 Wrangler; 1985–90 Wagoneer, 1986–92 Comanche

# **Removal / Installation**

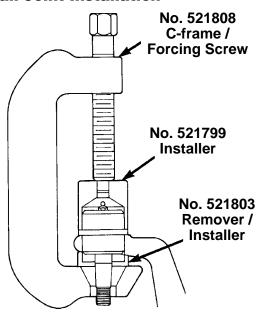
- 1. If applicable, remove the snap ring from the control arm or ball joint.
- 2. Position the tools as shown to remove or install the upper or lower ball joint.

  During installation, clean the control arm, and coat the I.D. with a suitable lubricant.
- 3. Tighten the forcing screw until it meets the cup, and check the alignment of all tooling and components.
- 4. Continue tightening the forcing screw until the ball joint is removed or installed.
- 5. After installation, if applicable, install the snap ring on the control arm or ball joint.

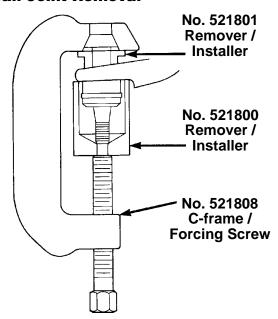
# **Upper Ball Joint Removal**



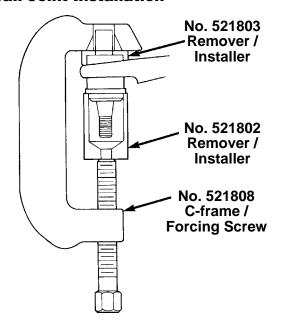
# **Upper Ball Joint Installation**



### **Lower Ball Joint Removal**



### **Lower Ball Joint Installation**



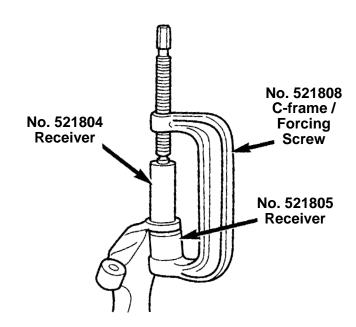
Application : Lower ball joints on 2002–04 Jeep Liberty

# Removal / Installation

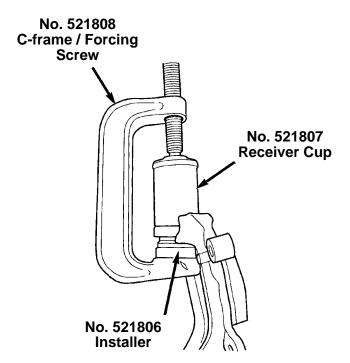
Note: The upper ball joint is not serviceable. The upper control arm assembly must be replaced.

- 1. If applicable, remove the snap ring from the control arm or ball joint.
- 2. Position the tools as shown to remove or install the lower ball joint.
  - During installation, clean the control arm, and coat the I.D. with a suitable lubricant.
- 3. Tighten the forcing screw until it meets the cup, and check the alignment of all tooling and components.
- 4. Continue tightening the forcing screw until the ball joint is removed or installed.
- 5. After installation, if applicable, install the snap ring on the control arm or ball joint.

### **Lower Ball Joint Removal**



### **Lower Ball Joint Installation**



# **Application Chart**

Upper or lower ball joint	Application  R = Remove I = Install	521789	521790	521791	521792	521793	521794	521795	521796	521797	521798	521799	521800	521801	521802	521803	521804	521805	521806	521807
CHI																				
Lower	2002-04 1/2-, 3/4-ton 2WD pickup 2002-04 1/2-ton 4WD pickup	ı	R	RI																
Upper	2000-04 3/4-, 1-ton 4WD pickup 2000-04 1-ton 2WD pickup				I	R					I									R
Lower	2000-04 3/4-, 1-ton 4WD pickup 2000-04 1-ton 2WD pickup						ı	R	ı	R										
JEEP																				
Upper	1984-01 Cherokee 1986-92 Comanche 1993-04 Grand Cherokee 1985-90 Wagoneer 1987-98 Wrangler											ı		R		ı				R
Lower	1984-01 Cherokee 1986-92 Comanche 1993-04 Grand Cherokee 1985-90 Wagoneer 1987-98 Wrangler												R	R	ı	ı				
Lower	2002-04 Liberty																R	R	1	ı