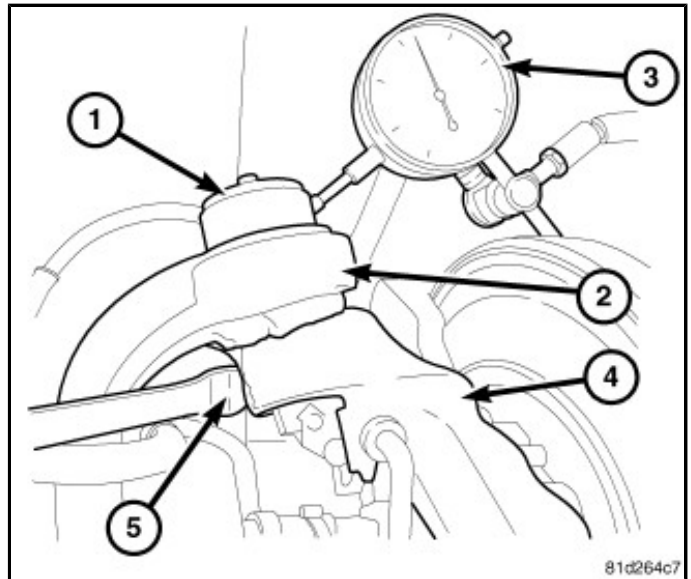


DIAGNOSIS AND TESTING

To properly diagnose the upper ball joint readings from the dial indicator are necessary.

The knuckle must be pried fully in both directions to accurately measure total ball joint movement.

1. Raise and support the vehicle (Refer to 04 - Vehicle Quick Reference/Hoisting/Standard Procedure).
2. Mount a dial indicator (3) to the rotor or knuckle with the indicator/plunger resting on the ball joint (1).
3. Set the dial indicator (3) to zero.
4. Insert a prybar (5) between the knuckle (4) and axle tube (2).
5. Record the radial upper ball joint movement. If this reading is above 1.5 mm (0.060 in) then replacement of the upper ball joint is necessary (Refer to 02 - Front Suspension/Front/BALL JOINT, Suspension, Upper/Removal and Installation).



REMOVAL AND INSTALLATION

Primary LOP	Related LOP	Description	Skill Level	Skill Category
02 10 65 02	-	Ball Joint, Front upper and lower AWD/4x4 - Right	2 - Skilled	4
	02000150	Wheel alignment Front end align	-	-
02 10 65 03	-	Ball Joint, Front upper and lower AWD/4x4 - Left	2 - Skilled	4
	02000150	Wheel alignment Front end align	-	-

Special Tools:

[Click here to launch the form to order any tools you need.](#)

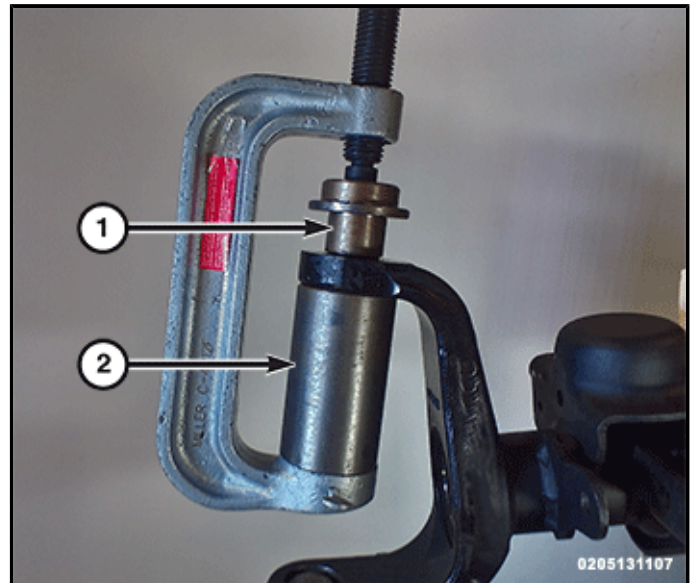
	2051000030 - Receiver, Ball Joint Remover
	2050900030 - Remover, Ball Joint
	C-4212F - Press, Ball Joint Originally Shipped In Kit Number(s) 6745, 6880, 6881, MLR-C03.
	2051100030 - Installer, Ball Joint
	2051200030 - Receiver, Ball Joint Lower Installation

REMOVAL

CAUTION: If the right front axle shaft is to be removed without removing the Front Axle Disconnect (FAD), the front axle must be placed in the four wheel drive position.

1. Remove the hub and bearing (Refer to 02 - Front Suspension/Front/HUB AND BEARING/Removal and Installation).
2. Remove the axle shaft (Refer to 03 - Differential and Driveline/Front Axle/SHAFT, Axle/Removal and Installation).
3. Remove the steering knuckle (Refer to 02 - Front Suspension/Front/KNUCKLE, Steering/Removal and Installation).

4. Position [Receiver, Ball Joint Remover 2051000030](#) (2) and [Remover, Ball Joint 2050900030](#) (1) with [C-4212F](#) as shown.
5. Thread the rod into the press until the upper ball joint is pressed fully out.



INSTALLATION

1. Position [Installer, Ball Joint 2051100030](#) (2) and [Receiver, Ball Joint Lower Installation 2051200030](#) (1) with [C-4212F](#) as shown.
2. Thread the rod into the press until the upper ball joint is pressed fully in.
3. Install the steering knuckle (Refer to 02 - Front Suspension/Front/KNUCKLE, Steering/Removal and Installation).
4. Install the axle shaft into the axle (Refer to 03 - Differential and Driveline/Front Axle/SHAFT, Axle/Removal and Installation).
5. Install the hub and bearing (Refer to 02 - Front Suspension/Front/HUB AND BEARING/Removal and Installation).
6. Perform the wheel alignment procedure (Refer to 02 - Front Suspension/Wheel Alignment - Standard Procedure).

