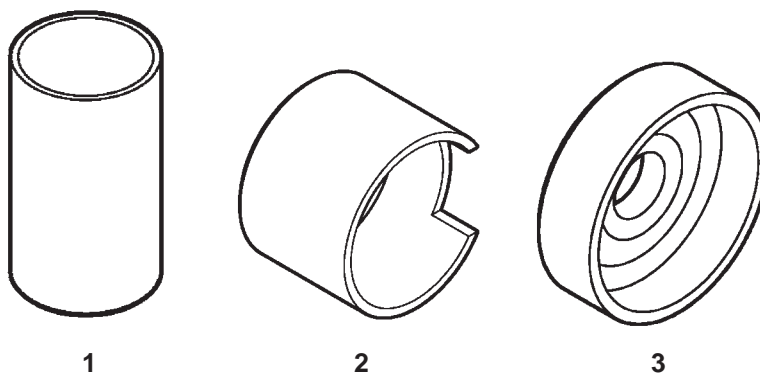

Ford Ball Joint Update Kit

Application: Use with an OTC ball joint press to remove and install upper and lower ball joints on the Ford vehicles listed.

Parts List



Item No.	Part No.	No. Req'd	Description
1	38355A	1	Installing Cup
2	531739	1	Receiving Cup
3	204508A	1	Receiving Cup

Safety Precautions

 **Caution:** To prevent personal injury,



- Wear eye protection that meets ANSI Z87.1 and OSHA standards.



- Before repairing a vehicle, block the wheels to prevent the vehicle from moving.

- Check the final alignment of the ball joint press and tooling with the components before exerting pressure to remove or replace a ball joint.

Parts List & Operating Instructions

Operating Instructions

Application: 1992-'97 F-350 4WD (*monobeam*)
1999-'04 F-250, F-350, F-450, and F-550 Super Duty 4WD (*monobeam*)
2000-'05 Excursion 4WD (*monobeam*)
1999-'04 F-250 and F-350 Super Duty 2WD (*twin I-beam*)
2000-'05 Excursion 2WD (*twin I-beam*)

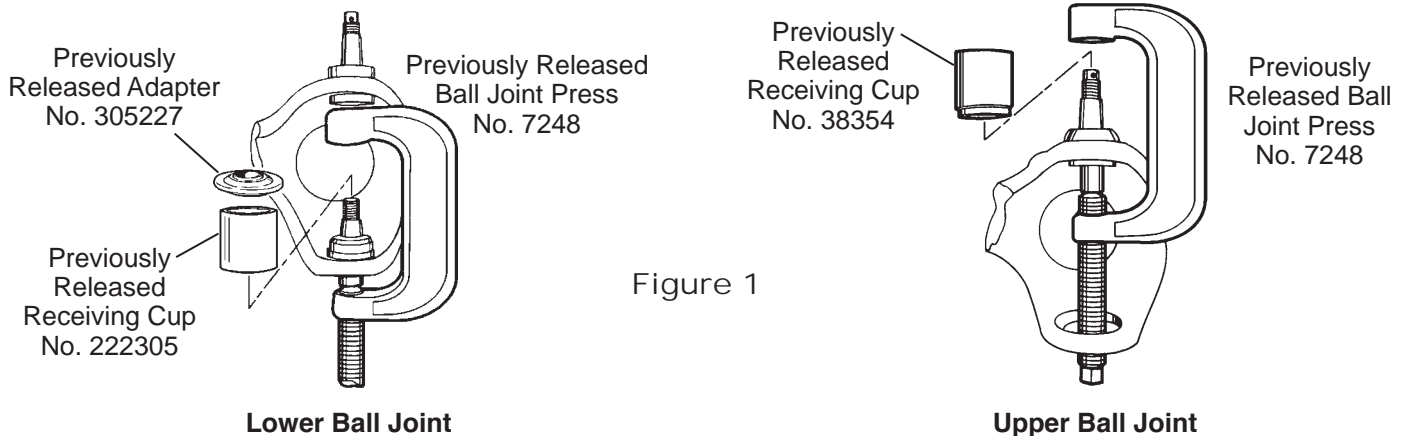
Removal

1. Remove the knuckle assembly from the vehicle according to the instructions in the service manual.

Note:

- It may be necessary to remove the steering arm before servicing the upper ball joint on the left hand knuckle.
- The lower ball joint must be removed before any service can be performed on the upper ball joint.

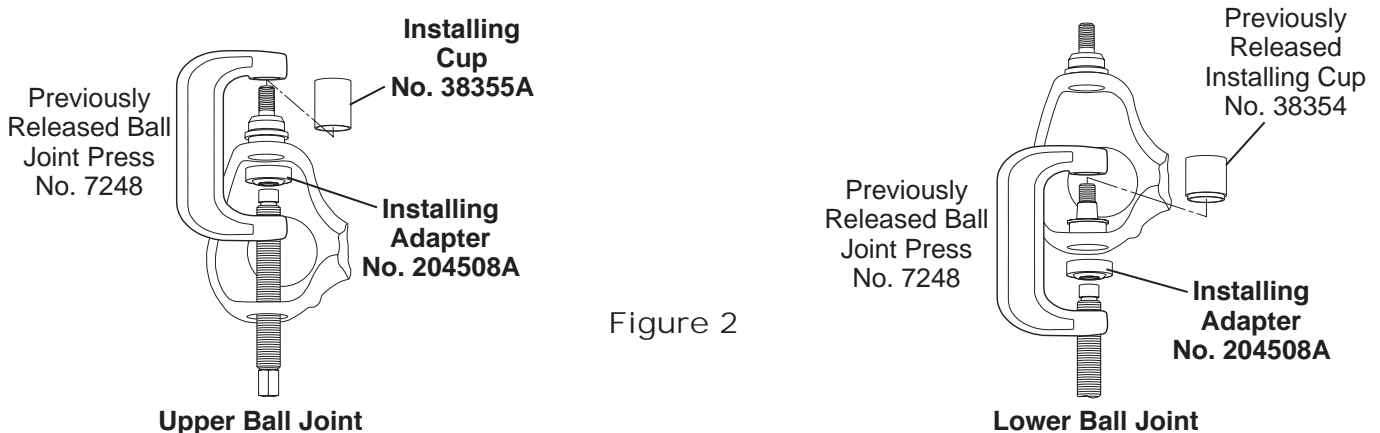
2. Remove the lower ball joint snap ring, if applicable.
3. Assemble the ball joint press over the ball joint as shown in Figure 1.
4. Turn the forcing screw until it meets the ball joint. Check the alignment of all components. Tighten the forcing screw until the ball joint is removed.
5. Repeat Steps 3 & 4 to remove the upper ball joint.



Installation

Note: The upper ball joint must be installed before the lower ball joint.

1. Clean the knuckle and coat it with a suitable lubricant.
2. Assemble the ball joint into the knuckle.
3. Assemble the ball joint press components as shown in Figure 2. Check the alignment of all components. Tighten the forcing screw until the ball joint is firmly seated.
4. Install the snap ring on the upper ball joint, if applicable.
5. Repeat Steps 1-3 to install the lower ball joint.
6. Install the knuckle assembly to the vehicle according to the vehicle service manual procedures.



Operating Instructions

Application: 1997-'03 F-150 2WD / 4WD

1997-'99 F-250 2WD / 4WD

1997-'02 Expedition 2WD / 4WD

1998-'05 Ranger 2WD / 4WD (w/ torsion bar suspension)

1995-'05 Explorer, Explorer Sport, and Explorer Sport Trac 2WD / 4WD

2004 F-150 Heritage and Lighting

Note: The O. E. upper ball joint is not serviceable on these applications; replace the entire upper control arm.

Removal

1. Remove the lower ball joint snap ring, if applicable.
2. Assemble the ball joint press over the ball joint as shown in Figure 3.
3. Turn the forcing screw until it meets the ball joint. Check the alignment of all tooling and components. Tighten the forcing screw until the ball joint is removed.

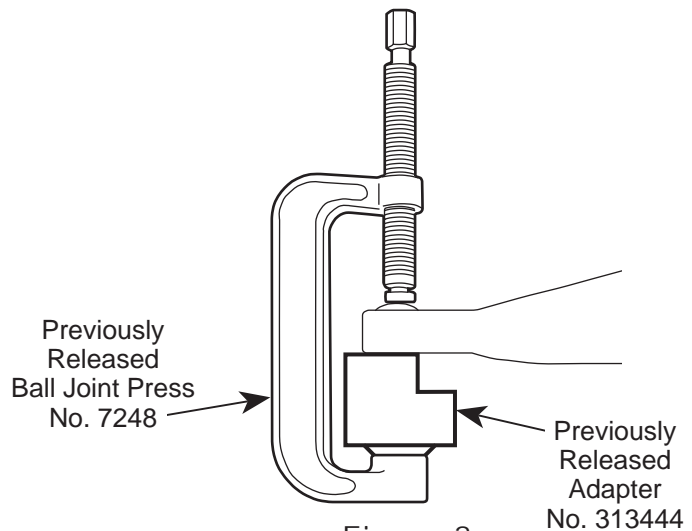


Figure 3
Lower Ball Joint

Installation

1. Clean the knuckle and coat it with a suitable lubricant.
2. Assemble the ball joint into the knuckle.
3. Assemble the ball joint press components as shown in Figure 4. Check the alignment of all tooling and components. Tighten the forcing screw until the ball joint is firmly seated.
4. Install the snap ring on the lower ball joint, if applicable.
5. Install the knuckle assembly to the vehicle according to the vehicle service manual procedures.

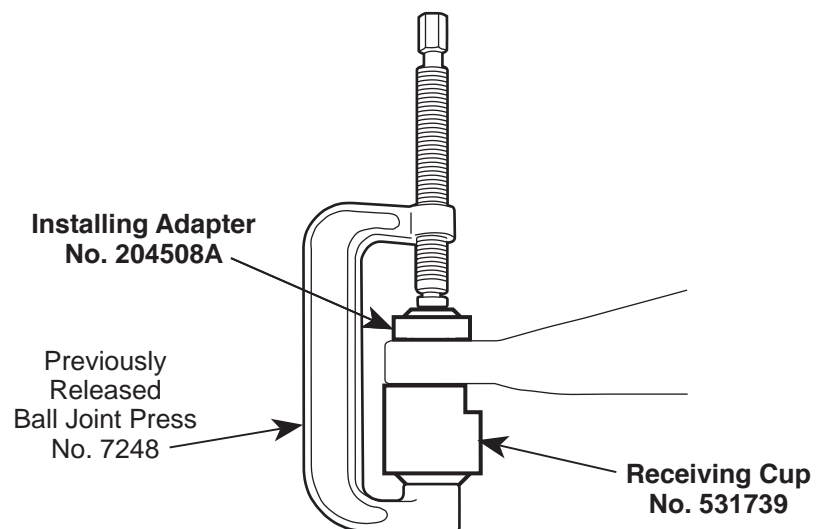


Figure 4
Lower Ball Joint