

# Ford Transit Ball joint instruction

## Removal

### \*Important\*

1. Record vehicle ride height before removing lower ball joint.
2. Using a hoist or floor jack ensure vehicle is supported safely
3. Remove the front wheel.
4. Remove and discard lower ball joint nut. (Ball joint comes with new nut.)
5. Using either a Pickle Fork or Two Leg Puller separate lower control arm from steering knuckle.
6. Remove and discard both torx bolts. (Ball Joint kit comes with new hardware.)
7. Attach Special Tool 88-7313 to the end of slide hammer. Attach opposite end to lower ball joint. Or OE removal tool (See Fig. 1)
8. Remove lower ball joint from steering knuckle.

## Install

1. Clean any rust or debris from the lower ball joint mating surface.
2. Install threaded base plate into steering knuckle. (In its lowest ride height position)  
(See fig. 2)
3. Fasten the base plate to the steering knuckle using new bolts provided in the kit.
  - a. Torque base plate bolts to manufacture specification (Use Threadlocker Glue)

**Caution: Check for proper clearance between ball stud and rim. Adjusting ride height too high may make contact and damage to rim. (See Fig. 3)**
4. Connect the lower ball joint and lower control arm together.
5. Insert “cotter key puller” or “scratch awl” into cotter key hole. Rotate ball stud to adjust camber as needed. Adjust ride height if more camber is needed (See adjusting Camber)
6. Install new ball joint nut and torque to manufacture specification
7. Install wheel and tire and torque lug nuts.

Fig. 1



Fig. 2



## Adjusting Camber

1. Raise the front of the vehicle to unload front suspension.
2. Loosen lower ball joint nut and brake taper of stud control arm.
3. Insert “cotter key puller” or “scratch awl” into cotter key hole. Rotate ball stud to adjust camber as needed.



4. Camber and ride height adjustment can be made in two ways:
  - a. By placing a 3/8 hand ratchet in the top of ball joint and rotating to desired camber adjustment.
  - or
  - b. Placing a 2-inch wrench at lower ball joint base nut will also achieve camber adjustment.

**Caution: Check for proper clearance between ball stud and rim. Adjusting ride height too high may make contact and damage to rim. (See Fig 3.)**

- c. Use a punch or chisel to lock the jam nut in place after adjusting ride height.



5. Install grease fitting and fill with grease.
6. Tighten lower ball joint nut and torque to manufacture specification.

Fig 3

