

This tutorial is specifically for the Geometry Correction Ball Joint Kit. The other ball joint kits supplied by Rennbay, inc. should install in basically the same manor. Some parts may be different but the same principles should apply.



Step 1 : Remove the rubber dust boot from the top of the ball joint pin.



Step 2 : Chip away the epoxy moisture barrier from the bottom of the ball joint pocket.



Step 3 : The clean lower portion of the ball joint pocket should look like this.



Step 4 : Remove the circlip holding the lower plate in place.



Step 5 : With the circlip removed the ball joint assembly should come out.



Step 6 : At this time inspect the upper portion of the ball joint pocket for any signs of wear.



Step 7 : Place the upper bushing into the pocket as shown on your left. Use the conditioning grease included in your kit.



Step 8 : Press the upper bushing into the pocket by hand. Make sure it is even.



Step 9 : Insert the ball pin.



Step 10 : Insert the lower cup



Step 11 : Insert the spring with the large end facing the lower cup.



Step 12 : Place the seal ring in the pocket.



Step 13 : Place the lower plate on the bottom.



Step 14 : Use a clamp to compress the joint and install the retaining ring.



Step 15 : Make sure the retaining ring is seated correctly.



Step 16 : Install the zerk fitting and dust cap.



Step 17 : Mix the epoxy in the lower pocket around the zerk fitting. Leave to dry for 15 min.



Step 18 : Push the boot over the top of the ball joint pin.



Step 19 : Push the boot over the retaining bump (GCK kit only). Put some grease in the boot at this time.



Step 20 : Keep pushing the boot down so the lip slips over the aluminum boot retainer on the arm.



Step 21 : Make sure the boot is in place.



Step 22 : Rotate the ball pin so that the boot fully seats on the aluminum arm.

Notes : If your ball joint kit included new pinch bolts they must be torqued to 50 ft/lbs and then checked again after a short drive.
If you purchased a kit with solid upper bushings they must be pressed or tapped in. An inverted ball pin makes a good tool for this.
The new epoxy included with the kits sets in less than 5 min. It should be mixed inside the pocket quickly then left alone to cure.
The zerk fittings are for filling the pocket with grease, not pressurizing it. Don't over due it with a grease gun or you will send the bottom plate flying across the room. A cheap grease gun can produce over 8000 psi. Fill until there is resistance in the handle.