

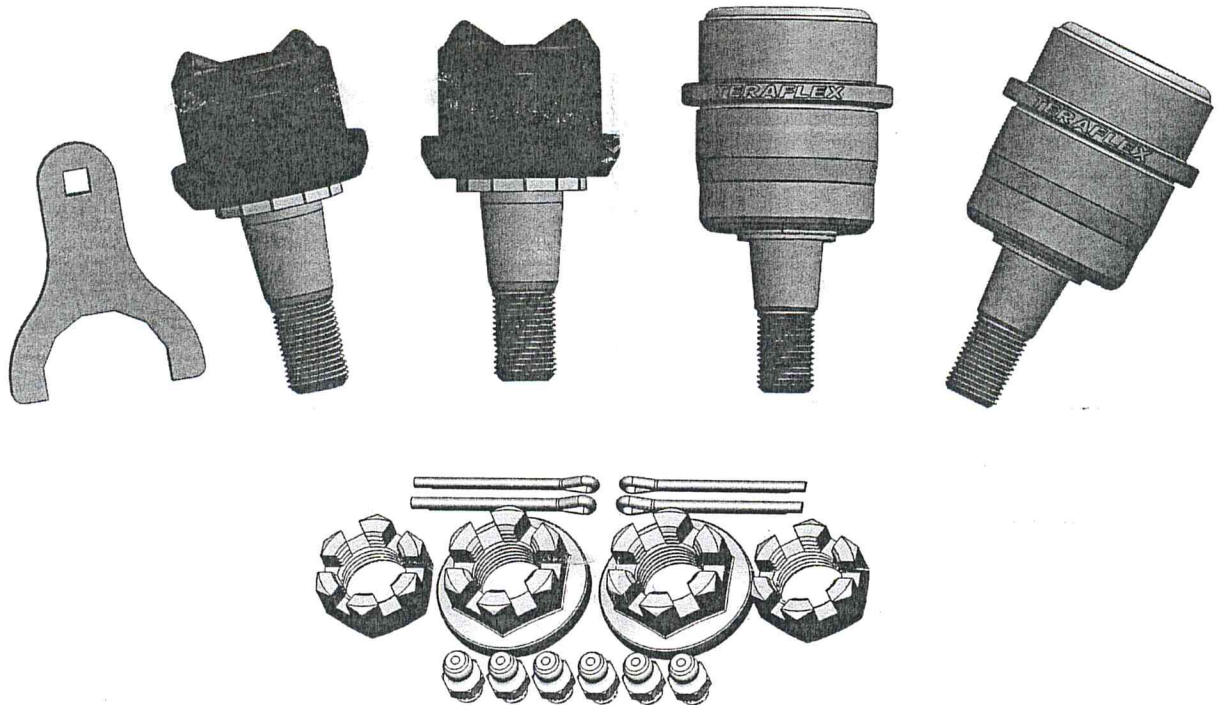


TeraFlex Premium JK Dana 30/44 Ball Joints Install Instructions

www.teraflex.com

#3442002

#3442022 (Knurled)



Important Notes:

Prior to beginning this or any installation read these instructions to familiarize yourself with the required steps and evaluate if you are experienced and capable to personally perform these modifications. A factory service manual should be used in conjunction with these installation instructions.

For maximum happiness and the least amount of heartache and frustration, follow these instructions exactly. The orientation of the TeraFlex Lower Ball Joints is critical for proper function. If your axle is equipped with RCV[®] axle shafts make sure to follow the special notes in steps 8 & 9, as per lower ball joint orientation.

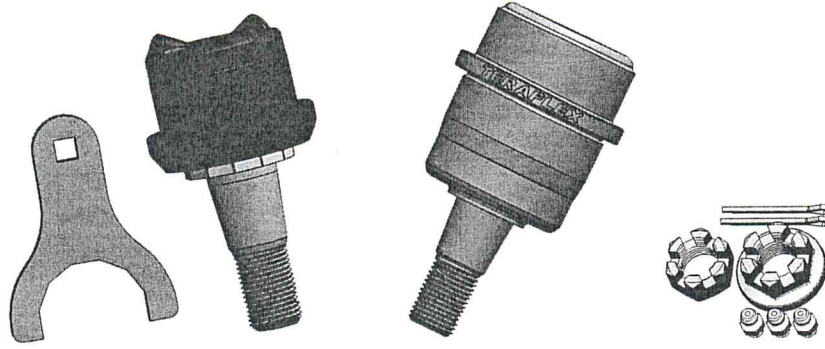
Refer to the parts list to ensure that all necessary components and hardware has been included. If any parts are missing please contact your local TeraFlex dealer for assistance.

Tools needed:

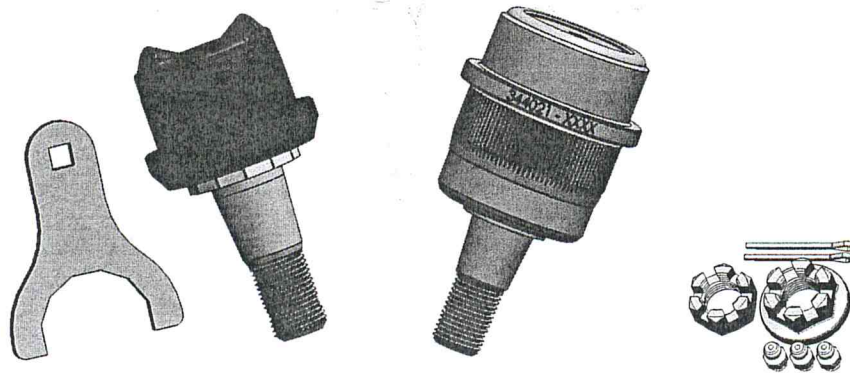
- This installation guide
- Basic mechanics tool set
- Ball Joint Press
- Grease Gun/High Quality Grease
- Blue thread locking compound
- Large Hammer

Revision E

999009

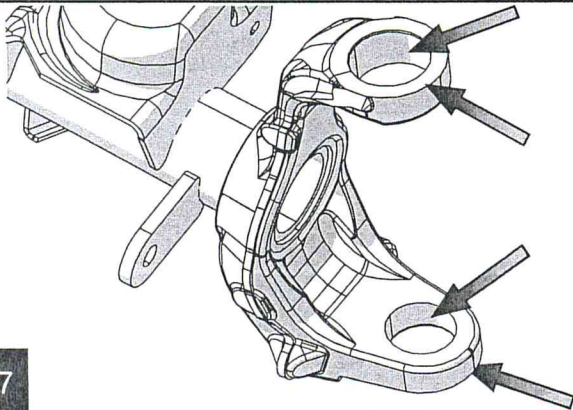


ITEM NO.	PART #	3440000 Non-Knurlled Half Set DESCRIPTION	QTY.
1	344001	JK Dana 30/44 Premium Series Upper Ball Joint	1
2	345007	JK Dana 30/44 Premium Series Lower Ball Joint Adjusting Tool	1
3	345110	JK Dana 30/44 Premium Series Lower Ball Joint	1
4	279	Nut 9/16"-18 UNF Black Castle Nut	1
5	301	Cotter Pin 3/32" Diameter x 1.25" Long	2
6	308	Grease Zerk 1/4"-28 UNF Straight	3
7	344206	Nut 5/8"-18 UNF Flanged Serrated Castle Nut	1



ITEM NO.	PART #	3440020 Knurlled Half Set DESCRIPTION	QTY.
1	344021	JK Dana 30/44 Knurlled Premium Series Upper Ball Joint	1
2	345007	JK Dana 30/44 Premium Series Lower Ball Joint Adjusting Tool	1
3	345210	JK Dana 30/44 Knurlled Premium Series Lower Ball Joint	1
4	279	Nut 9/16"-18 UNF Black Castle Nut	1
5	301	Cotter Pin 3/32" Diameter x 1.25" Long	2
6	308	Grease Zerk 1/4"-28 UNF Straight	3
7	344206	Nut 5/8"-18 UNF Flanged Serrated Castle Nut	1

Clean the ball joint bores as well as the surfaces the ball joints seat against. Apply a small amount of grease or anti-seize to the bores to aid in installation.

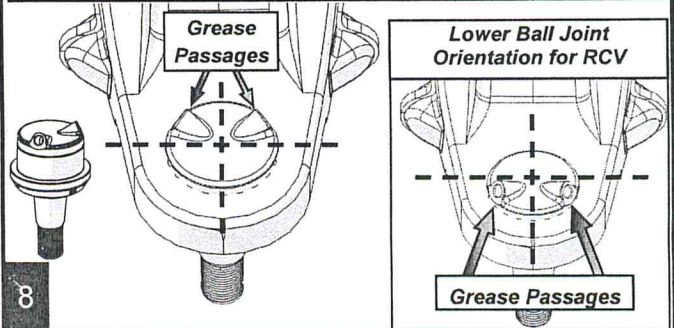


7

Lower ball joint orientation is critical!

The two raised **grease passages** of the lower ball joint housing must be **facing the axle** (Picture 1).

NOTE: If your axle is equipped with **RCV® axle shafts** then the raised grease passages will need to be facing **away from the axle** (Picture 2).



8

The orientation of the lower ball joint on the passenger side is to be installed the same as the driver side (**raised grease passages are to face the axle tube and for RCV® equipped axles, facing away**).

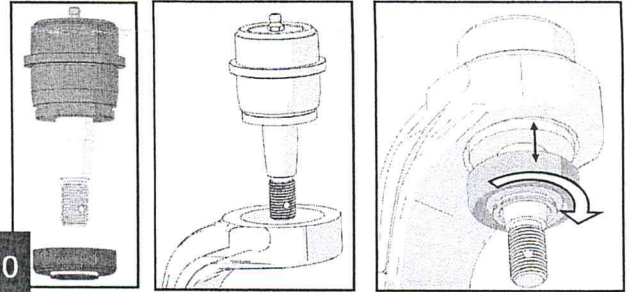
Press the lower ball joint into the inner C.

Ensure the orientation described in steps 8 is maintained for each respective side!

9

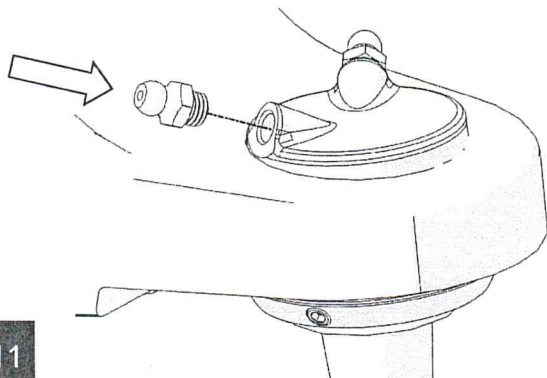
Remove dust boot from the new TeraFlex upper ball joints. Install ball joint from the top down. Take care that the bottom cup of the ball joint press tool is centered under the ball joint.

Reinstall the dust boot by first pressing it on the outer most side, then rotate the boot around the ball joint, pushing the boot on as it comes around.



10

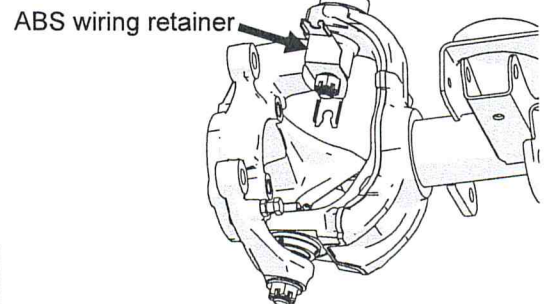
Install grease zerks into new lower TeraFlex ball joints.



11

Reinstall the outer knuckle to the ball joint studs. Don't forget the ABS wiring retainer. Torque the upper and lower ball joint nuts to 70 ft-lbs (95 N-m).

If the cotter pin holes don't line up with a slot in the castle nut, tighten the nut further until the cotter pin can be installed.

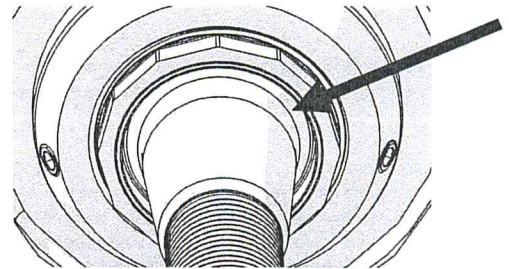


12

The following are steps for servicing your new Premium Ball Joints.

Grease both upper and lower ball joints at every oil change interval.

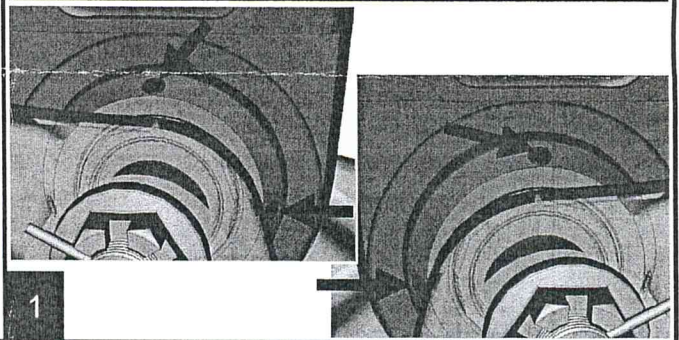
For the lower ball joints, grease until a small amount starts to come out of the bottom lip seal. For the upper ball joints, grease until you can feel the boot begin to slightly swell.



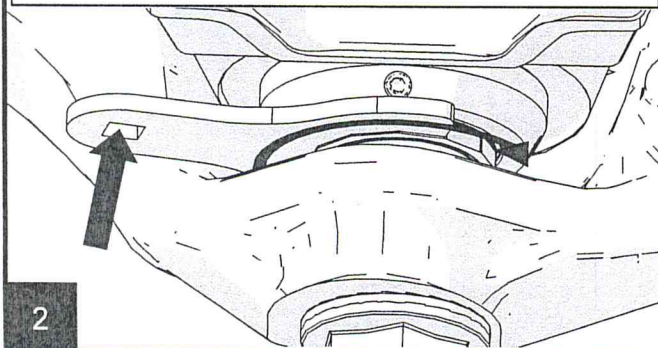
The new Premium Lower Ball Joints are designed with an adjustable preload ring. If excessive wear becomes apparent and falls out of factory specs (refer to your factory service manual), use the following instructions to tighten the preload.

This process should be done with the ball joints under load, with the wheels on the ground. Removal of wheels and other components are not necessary for this process.

Loosen the three set screws at the base of the lower ball joint (**DO NOT REMOVE**). To gain access to the side set screws turn the tires to the left. Loosen the accessible set screws (front drivers side, rear passenger side) 1 to 2 turns. Then turn the tires to the right for access to the remaining set screws (rear drivers side, front passenger side).



Use the supplied specialty wrench and an inch pounds torque wrench to tighten the lower ball joint's preload adjustment nut. **Torque to 70 in-lbs (8 N-m).**
Tighten the three set screws.
Torque to 30 in-lbs (4 N-m).

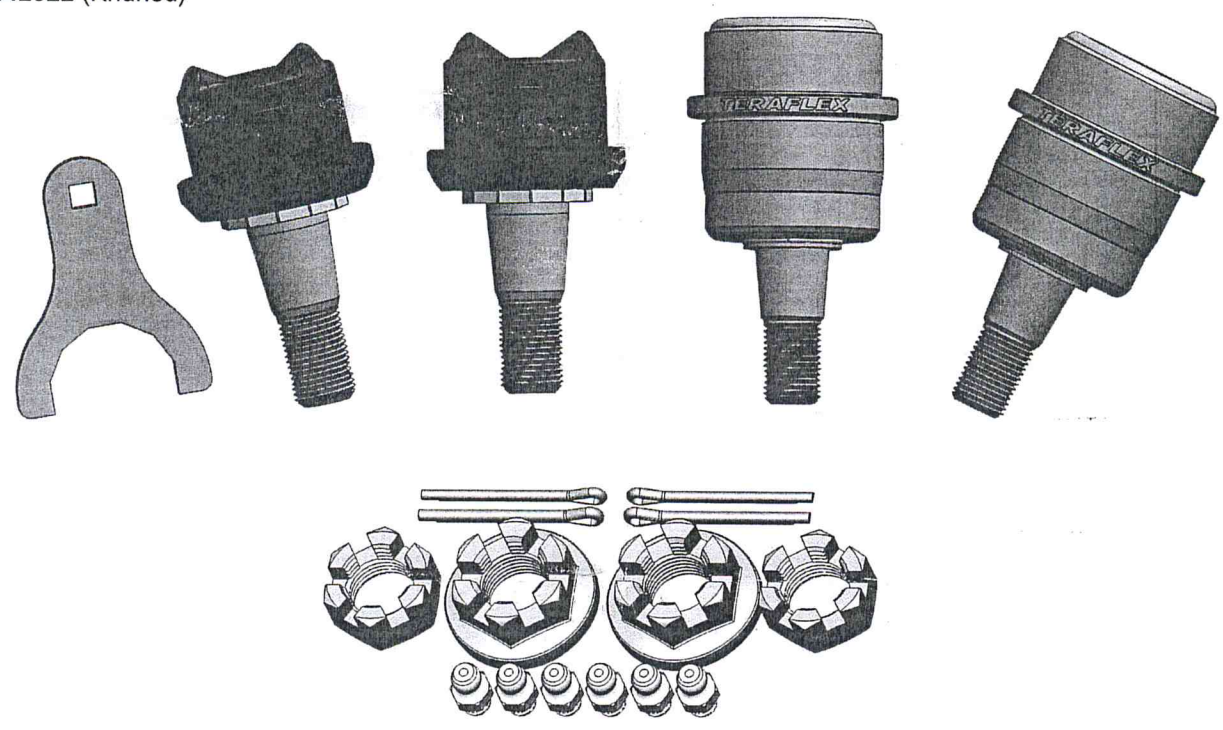




TeraFlex Premium JK Dana 30/44 Ball Joints Install Instructions

www.teraflex.com

#3442002
#3442022 (Knurled)



Important Notes:

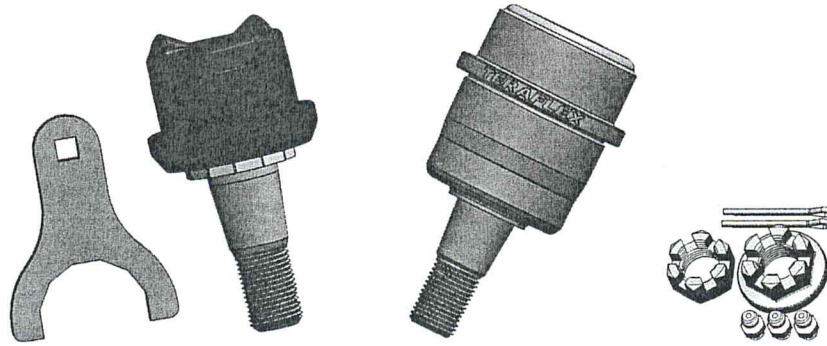
Prior to beginning this or any installation read these instructions to familiarize yourself with the required steps and evaluate if you are experienced and capable to personally perform these modifications. A factory service manual should be used in conjunction with these installation instructions.

For maximum happiness and the least amount of heartache and frustration, follow these instructions exactly. The orientation of the TeraFlex Lower Ball Joints is critical for proper function. If your axle is equipped with RCV[®] axle shafts make sure to follow the special notes in steps 8 & 9, as per lower ball joint orientation.

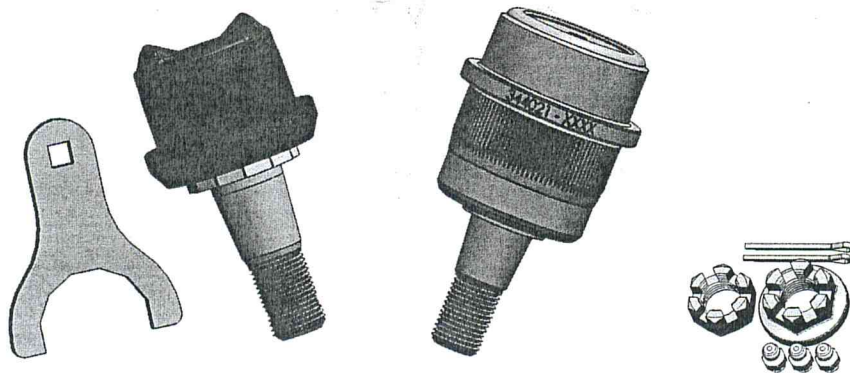
Refer to the parts list to ensure that all necessary components and hardware has been included. If any parts are missing please contact your local TeraFlex dealer for assistance.

Tools needed:

- This installation guide
- Basic mechanics tool set
- Ball Joint Press
- Grease Gun/High Quality Grease
- Blue thread locking compound
- Large Hammer

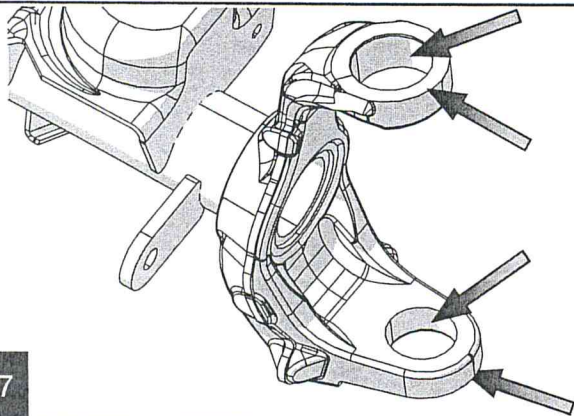


ITEM NO.	PART #	3440000 Non-Knurled Half Set DESCRIPTION	QTY.
1	344001	JK Dana 30/44 Premium Series Upper Ball Joint	1
2	345007	JK Dana 30/44 Premium Series Lower Ball Joint Adjusting Tool	1
3	345110	JK Dana 30/44 Premium Series Lower Ball Joint	1
4	279	Nut 9/16"-18 UNF Black Castle Nut	1
5	301	Cotter Pin 3/32" Diameter x 1.25" Long	2
6	308	Grease Zerk 1/4"-28 UNF Straight	3
7	344206	Nut 5/8"-18 UNF Flanged Serrated Castle Nut	1



ITEM NO.	PART #	3440020 Knurled Half Set DESCRIPTION	QTY.
1	344021	JK Dana 30/44 Knurled Premium Series Upper Ball Joint	1
2	345007	JK Dana 30/44 Premium Series Lower Ball Joint Adjusting Tool	1
3	345210	JK Dana 30/44 Knurled Premium Series Lower Ball Joint	1
4	279	Nut 9/16"-18 UNF Black Castle Nut	1
5	301	Cotter Pin 3/32" Diameter x 1.25" Long	2
6	308	Grease Zerk 1/4"-28 UNF Straight	3
7	344206	Nut 5/8"-18 UNF Flanged Serrated Castle Nut	1

Clean the ball joint bores as well as the surfaces the ball joints seat against. Apply a small amount of grease or anti-seize to the bores to aid in installation.

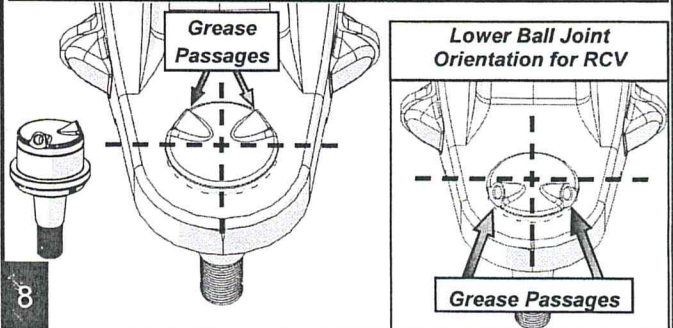


7

Lower ball joint orientation is critical!

The two raised **grease passages** of the lower ball joint housing must be **facing the axle** (Picture 1).

NOTE: If your axle is equipped with **RCV® axle shafts** then the raised grease passages will need to be facing **away from the axle** (Picture 2).



8

The orientation of the lower ball joint on the passenger side is to be installed the same as the driver side (**raised grease passages are to face the axle tube and for RCV® equipped axles, facing away**).

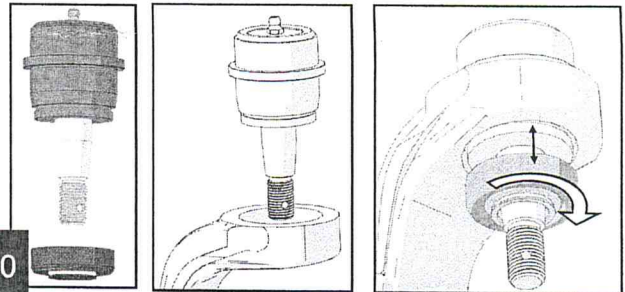
Press the lower ball joint into the inner C.

Ensure the orientation described in steps 8 is maintained for each respective side!

9

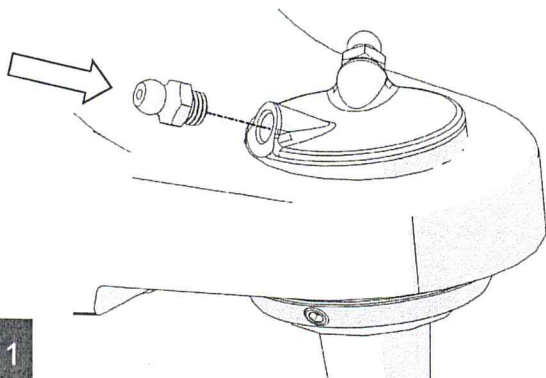
Remove dust boot from the new TeraFlex upper ball joints. Install ball joint from the top down. Take care that the bottom cup of the ball joint press tool is centered under the ball joint.

Reinstall the dust boot by first pressing it on the outer most side, then rotate the boot around the ball joint, pushing the boot on as it comes around.



10

Install grease zerks into new lower TeraFlex ball joints.

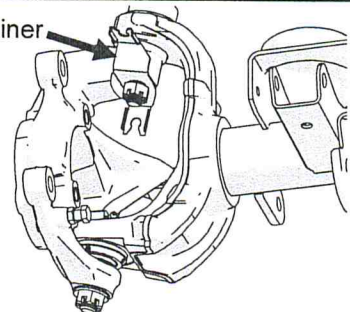


11

Reinstall the outer knuckle to the ball joint studs. Don't forget the ABS wiring retainer. Torque the upper and lower ball joint nuts to 70 ft-lbs (95 N-m).

If the cotter pin holes don't line up with a slot in the castle nut, tighten the nut further until the cotter pin can be installed.

ABS wiring retainer

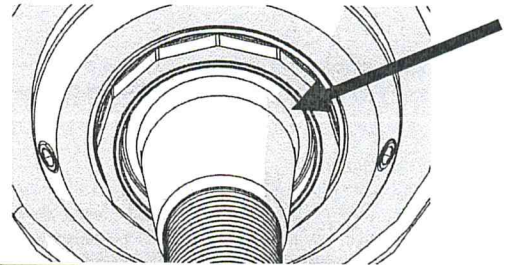


12

The following are steps for servicing your new Premium Ball Joints.

Grease both upper and lower ball joints at every oil change interval.

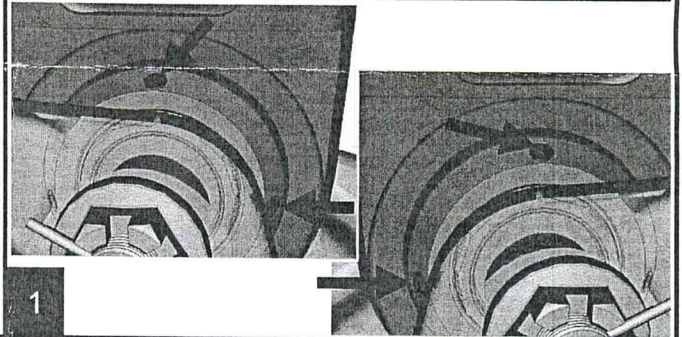
For the lower ball joints, grease until a small amount starts to come out of the bottom lip seal. For the upper ball joints, grease until you can feel the boot begin to slightly swell.



The new Premium Lower Ball Joints are designed with an adjustable preload ring. If excessive wear becomes apparent and falls out of factory specs (refer to your factory service manual), use the following instructions to tighten the preload.

This process should be done with the ball joints under load, with the wheels on the ground. Removal of wheels and other components are not necessary for this process.

Loosen the three set screws at the base of the lower ball joint (**DO NOT REMOVE**). To gain access to the side set screws turn the tires to the left. Loosen the accessible set screws (front drivers side, rear passenger side) 1 to 2 turns. Then turn the tires to the right for access to the remaining set screws (rear drivers side, front passenger side).



Use the supplied specialty wrench and an inch pounds torque wrench to tighten the lower ball joint's preload adjustment nut. **Torque to 70 in-lbs (8 N-m).**
Tighten the three set screws.
Torque to 30 in-lbs (4 N-m).

