

IMPORTANT!!!! EMF Products are REBUILDABLE AND ADJUSTABLE!!! The entire joint is not meant to be replaced. If you EVER start to feel any looseness in the joint, BACK OUT THE SET SCREW ON THE SIDE OF THE BODY first and then tighten the silver ring using a spanner wrench as tight by hand as you want. Then replace the set screw as tight as you can get it.

SERVICING YOUR EMF HEIM JOINTS OR TIE ROD ENDS

HEIMS ARE GREASED - PLEASE GREASE JOINTS AGAIN AFTER FIRST USE AND AFTER EVERY WHEELING TRIP OR EVENT

EMF Heim Joints always come assembled to ensure that each part fits the way it should fit and it is ready to go when you receive them. You shouldn't have to take them apart when you first get them, however it is usually a good idea to service your Heim Joints after every season (or more often if you can) to make sure your Heims will last as long as they can and perform as best as they can.

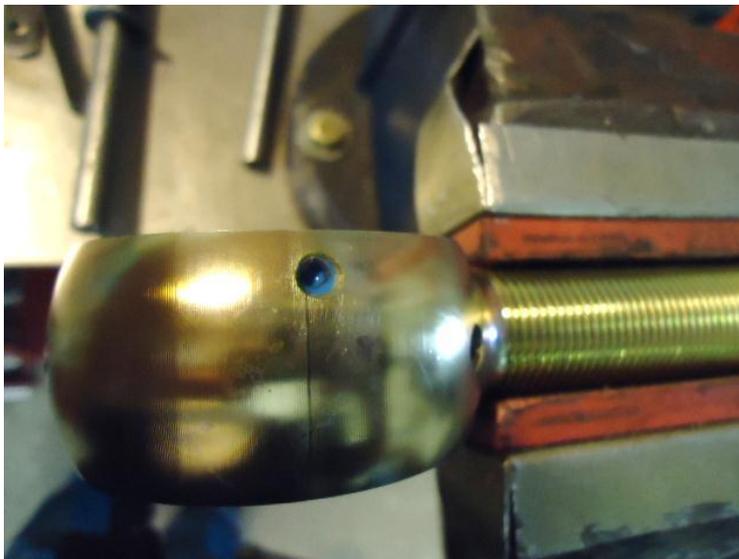
Regular greasing maintenance

Every environment is different, so is every driver. It's impossible to say how often is good. All we know is grease allows the joint a longer life with less need for tightening the adjusting ring. A daily driver on the street, maybe every oil change. Rainy streets more often. Snow and slush same deal. Gravel roads once a month. On my gravel road in the spring, once a week. Or not. It all depends on how picky you want to be. We recommend a high quality 5% moly grease. Can be synthetic or not.

If you need to tighten the joint, simply back out the set screw on the side and then tighten the ring or cap using a spanner wrench. It's that easy!

Retightening and inspecting

STEP 1: When you start to take your Heim Joints apart, the first step is to **BACK THE SET SCREW OUT!!!** This is very important. The set screw is in there to ensure the ring does not back out when the ball moves back and forth. If the set screw is still in there when you start to back the ring out, you will have a heck of a time trying to remove the ring and when you finally start to move it, you will strip the threads of the ring and ruin the set screw in one shot..



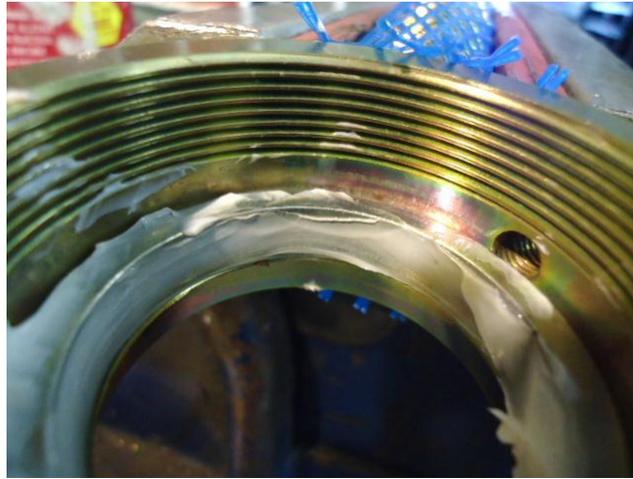
STEP 2: Take out the set screw and unscrew the ring using a spanner tool (DO NOT USE A CHISEL or you will ruin the ring). Once the ring is out, remove the spiral lock using a dental pick then the top cup, ball and the lower cup. Inspect them. Clean all parts thoroughly, including the inside of the Heim body to get rid of any old grease, dirt or debris. Wire wheel them to remove any ruff buildup.



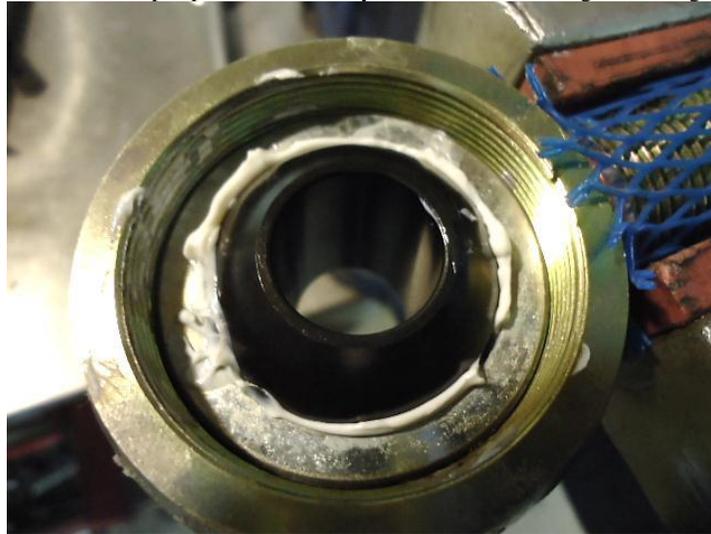
STEP 3: Line the inside of the cup with grease.

STEP 4: Press the cup with your fingers into the body with the thickest part of the cup at the bottom. Make sure it is pressed all the way down to the bottom. You have to press it in evenly on all sides, or it will get jammed sideways. You might have to gently tap it into place if you are having a hard time, just remember not to hit it hard or with sharp objects so you don't mark up the cup.

Note : On joints assembled after 2013, the lower cup has a chamfer on the back lip. The upper cup has a square shoulder. If they are mixed up the spiral lock won't install into its groove.

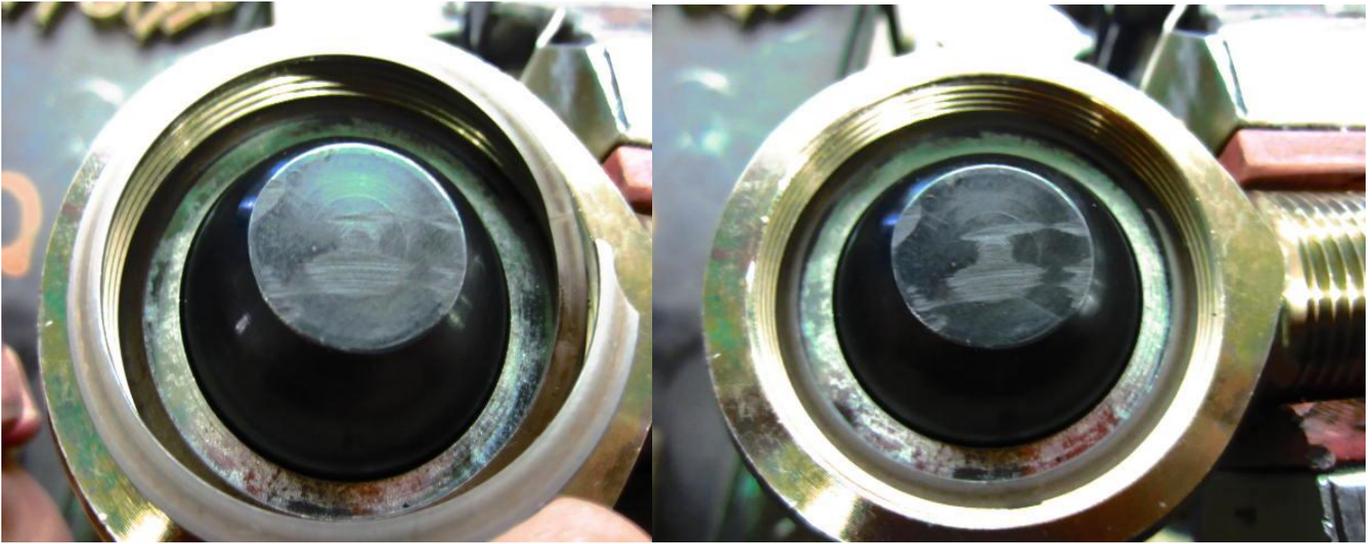


STEP 5: Place the clean ball inside the cup and then place the greased top cup on with the thick flat side pointing up towards you on the other side of the ball. Make sure the cup is pressed all the way down as far as it can go with no gaps.



STEP 6: There will be a groove where the Spiral Lock rung goes into place. This is a very important part of the joint as it is our Patented retaining system and will ensure all of your inner components stay in place. Spread the Ring apart with your fingers and insert the end of the ring into the groove. Follow all the way around with a pick or even an allen key and set the spiral lock into place inside the groove. It's a little tricky and takes some getting used to but once you got it, it's no problem.





STEP 7: Put a dab of anti-seize on the ring threads and put the ring back in with the spanner tool. Tighten until the ring stops and then back it off ½ a turn.

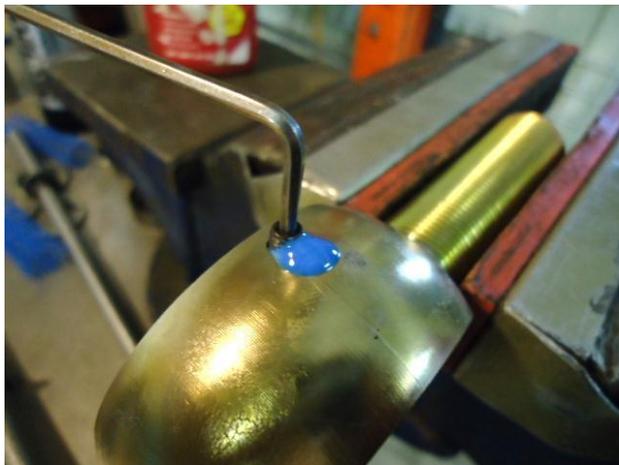


STEP 8: Insert a piece of steel, a screwdriver or anything you have into the through-hole to lap the ball and make sure it is set correctly. You should be able to lap it back and forth with a little tension but it should still move freely with no binding, grinding or any sticky spots. If you can't move the ball, you tightened the ring too much.

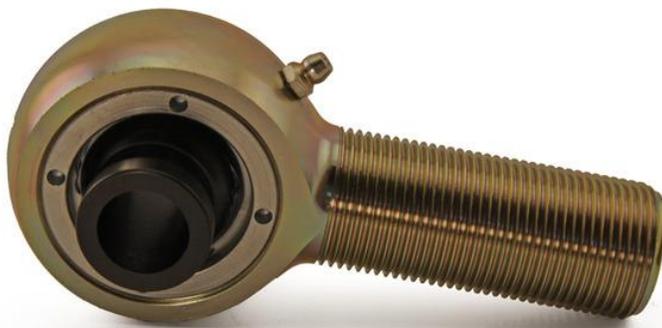


STEP 9: Once the ring is set, drill into the ring through the set screw hole using a #21 bit or a 7/32 (depending on the set screw size) Warning hold the lock ring with the spanner wrench of the ring will spin loose as you're drilling.

Take the set screw and install. We recommend a dab of purple thread locker (mild) or if you had troubles in the past getting the set screw out, put a bit of anti-seize on it. We used blue Loctite in the past and it was just too much for the small set screw so customers were having trouble getting it out of the body.



Now your Heim Joints should be all ready to go! It is also a good idea to always check your jam nuts to ensure they are as tight as they can be so the joint won't move. Please grease after every outing or event and tighten the lock ring as needed.



If you have any other questions about EMF Heim Joints, please feel free to check out our FAQ section at www.emfrodends.com or send us an email at sales@emfrodends.com or text the Tech Line at 403-999-0592 and we will be happy to help you out

Please see separate sheet for warranty and return info.