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## CTM Heavy Duty Rebuildable Front U-Joints

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### Parts list:

- |                                 |                  |
|---------------------------------|------------------|
| 4 - bearing caps with bushings  | 1 - cross        |
| 4 - full circle retaining clips | 4 - o ring seals |
| 4 - grease fittings             |                  |

### Tools list:

- External snap ring pliers with 90 degree bend
- Brass hammer or equivalent
- Shop press or good vice
- Grease gun with needle fitting (or use a M6 grease nipple and no needle fitting, just remember to remove it before driving)
- 9/32" socket, ratchet, and a short extension

You are about to install the worlds strongest u-joint, It is the same one that is used by most of the top competitors around the world in rock crawling, rock racing, mud bogging and mud racing, sand drags, truck pulling and even the Baja 1000! These u-joints were made to perform under the harshest of conditions and to get you home again!

### Proudly made in the USA

A great deal of work has gone into the development of this product and if installed correctly and greased periodically they will provide years of trouble-free service. The cross has two clearance cuts in it to aid in installation. These u-joints should not be installed into a stock axle shaft because they are made from a much stronger material and could cause the axle to fail prematurely! Use only high quality chro-moly axles with these u-joints

**Note:** be careful not to over extend the snap ring upon installation.

1. Hold axle in one hand and install u-joint into open end of yoke with clearance cut end of u-joint facing out and installed first. (on some axles the fit is tight and will require a LIGHT tap to get the u-joint into the yoke) once installed, Pull u-joint to side of yoke that has the clearance cut in it and install one clip into space on the opposite end of u-joint and yoke. Once clip is in then pull u-joint to end with no clearance cut and fish the next clip into the space between the u-joint post and the yoke (on the second clip point the snap ring holes towards the axle yoke and u-joint and install. Next install the "o" ring onto the u-joint posts through the cap holes in the axle.
2. Proceed to install 1st cap carefully keeping u-joint post and bushing lined up while pressing or tapping cap into yoke, once cap is pushed far enough in, the clip groove will be exposed just inside of the axle yoke, then install the first clip into its groove and firmly hold u-joint and press or tap yoke down-away to get cap to "seat" against the inside surface of the axle yoke.
3. Now start the 2nd cap watching out not to smash the o-ring or the clip when the cap is almost all the way down (when it gets close just expand the clip and move it onto the cap which will give you enough room to finish pressing the cap in) then repeat the cap seating method so that there is no play between the clip and the axle yoke. The u-joint should move freely at this point, if it is bound up or tight then something is wrong and it must be fixed before proceeding any further.
4. Repeat steps 1-3 for the second half (you have less room to work with so it will be slightly more difficult to install).
5. Once the u-joint is installed you can start greasing it through each cap till the grease emerges from the o-ring seal. (be careful on 60 u-joints cause the seal wants to squirt out past the cap groove, if this happens unscrew the grease fitting to relieve the pressure and carefully push it back in and continue).

Repeat this procedure for the other axle and check the movement of each assembly, slight drag is ok but tight is not and must be fixed before using. If you have any questions call CTM at 949-487-0770. It may be necessary to remove the grease fittings before installing into the axle housing. **One thing that is very important is to make sure that your axles do not contact each other at the base of the yokes when the wheels are turned, look for this to occur on sharp turns in four wheel drive. Some steering stop adjustment may be necessary to prevent this.**

If you need to remove a cap just remove the grease fitting, press in the cap till the clip comes loose and remove clip, then install a M6 x 1.0 pitch metric screw into the grease hole and apply pressure against the cross and strike or press the yoke down while tightening the screw against the u-joint cross till the cap pops out.

For spare parts or to order rebuild kits please call 949-487-0770

Lifetime warranty against breakage, only when used in properly adjusted steering axles.

Patent Pending