

## Clutch Plate Maintenance

On Units mfg prior to 2004, please see the disassembly/reassembly bulletin first paragraph.,

On Units mfg after 2004 please review the following:

On each end of the driven shaft on which the chain gypsy and capstan reside, there is a socket which accepts the manual winch handle. Inside the socket can be seen a socket head screw which retains the socket on its spline. Remove these two screws if on a double chain unit or the screw from the chain gypsy side on a WG style unit. You can now remove the socket from the end of the shaft. If you have any difficulty due to the socket sticking on the shaft, use the clutch handle to remove the socket by turning counter clockwise and engaging the socket to push it off the spline. Next, remove the chain stripper by removing the forward mounting bolt nut so the chain stripper can be elevated and removed from under the 'T' nut in the center of the windlass which holds down the inside of the chain stripper. On earlier units the center bolt must be removed to allow removal of the chain stripper. The chain gypsy and clutch plates are now free to be removed from the shaft. Next slide only the chain gypsy and the outboard clutch plate off the axle. Next slide the inboard clutch plate off of the shaft. Clean the shaft with a soft abrasive pad and replace the anti seize compound which coats the shaft being careful to not use so much anti seize compound to contaminate the clutch surfaces. Using a square edge machinist file make certain to remove any burrs or sharp edges from the top and the slot of the keyway before applying the anti seize compound. This will allow free movement of the keys integral in the clutch plates.

Next, using either a compound of abrasive cleaner or a mild acid scrub the clutch plate surfaces, the surfaces covered with EPDM rubber compound, until all of the salt residue is removed. Next, using the same technique clean the inside surfaces of the chain gypsy which the clutch surfaces come in contact with. Once this process is accomplished the proper coefficient of friction will be reestablished and the pulling power will be restored to its design standard.