

## **Changing Woodfast Bearings.**

Disconnect power supply

Remove belt from drive pulleys on motor

Remove bearing caps on headstock. three machine screws in each

Turn the top pulley set slowly by hand until you locate a socket head screw at the bottom of the central pulley fastening the pulley set on to the shaft to restrain its longitudinal travel.

Remove the socket head screw then look for a second underneath the first

Scribe the position of the bearing inners on to the shaft so you can relocate them again where they belong and obviate the necessity for re-aligning the pulleys in the headstock with those on the motor.

Fill the hole left by removal of the socket head screws with WD 40 or equivalent and leave overnight

Cut a hardwood block or use a brass or copper drift substantially larger in diameter than the shaft say about 38 or 50 mm.

Tap firmly on the end of the inner end or lathe bed end of the drive shaft using the drift block so not to damage the shaft end or the thread.

The shaft will be driven through the inner bearing and the outer bearing will pop out of its housing. Get a helper to support this end

Continue driving until the shaft is freed from the inner bearing and the pulley set. You will find the pulley set is located on the shaft by a key about 35mm long by 5mm wide to restrain its rotational movement. Don't lose the key and don't damage the key way.

The pulley set can then be removed and replaced from its enclosure from beneath.

The inner bearing can now easily be driven from its housing using a hardwood dowel of appropriate diameter. It's just an interference fit.

Remove the outer bearing from the shaft in a press or improvise with a hardwood block with an appropriate hole bored in it and a timber drift. Don't damage the end of the shaft here either.

Replacement is essentially the reverse order of the foregoing except that the inner bearing will need to be coaxed along the shaft and into its housing with a pipe drift of appropriate diameter.

If there are chisel marks or rust on the exposed ends of the headstock shaft then file and brush these off before starting the dis-assembly process.

You should complete this task in a bit under an hour working time plus running down to the bearing shop with the old bearings to get the new ones. There's no special tools needed.

Oh by the way make sure you replace the new belt over the headstock pulley set before you put it all back together and do everything up.