# FITTING INSTRUCTIONS

## SHACKTUNE HUB SPACER KIT

### TO SUIT ALL TRIUMPH 2000/2.5 SALOONS & STAG

Jack up the front of the car.. AXLE STANDS.. Remove the wheel.

Remove the grease cap, split pin, nut, D washer & outer bearing.

Push the spacer over the stub axle & in to the hub.

Fit a 0.010" a 0.005" & a 0.003" shim, to make 0.018" shim pack.

Replace the bearing, D washer & nut.. Torque up to 35 lbf .

You should now be able to detect play in the disc/hub by rocking the disc top & bottom.

If no play is detected, add more shims until you have slight play.

The key now is to reduce the free play down to zero to +0.002 .

Take out a 0.003" shim.. Has it reduced or removed the play.

By juggling the shims you can find a perfect setting with no perceivable play, but not with any preload (i.e. too tight), the hub should spin easily.

Combinations of shims can give you a myriad of packing sizes, 3+3=6 , 3+5=8 , 3+3+3=9 3+3+5=11 etc etc etc.

Before replacing the split pin and cap, torque the hub nut to 35 lbf, replace the wheel and rock the wheel top to bottom.

If you feel there is still a little play (assuming it is not your suspension moving).
Have another session moving shims in and out.

Once you are happy that you have set the bearing, re-torque the hub nut to 35 lbf & then if necessary move the nut on to the first point where you can fit the new split pin, replace the grease cap. .....Now do the other side of the car....

Tips..... A magnetic pick up stick can aid removal of the shims while setting up..
If you need to remove the spacer.. Use a pair of small screwdrivers to prise out the spacer against the suction of the grease..

## .....WARNING.....

This kit cannot remedy worn out bearings or hub.

If you are unsure.. Seek help.

Settings the bearings too tight will destroy them very quickly.

Don't be aggressive with the 0.003" shims, they can be ripped easily.

Do not over pack the bearings with grease.

I cannot be held responsible if you get it wrong.. don't rush the job.

The shims supplied should be sufficient.. If not, there may be a problem with your hub or bearings.. Seek help..

If you have no shims fitted and you still have free play, the hub or the bearings are worn to excess.. Try fitting new bearings..

.....PLEASE NOTE.....

These spacers were made to suit TIMKEN bearings as fitted by the factory...

There are some bearings that have made there way on to the market over the years, that are not dimensionally correct..

NTN JAPAN bearings look identical.. the numbers match... but they are not the same dimension....

# .....TRIUMPHSTUFF