

# Installation manual

for

Moe's Suzuki Service's angle drive kit.

\*Fits mk1 & mk2/3 swift GTi.

The installation requires some tools and mechanic skills.

About the kit:

Preassembled adapter plate included drive shaft, ball bearing, bronz oil bushing and O-ring.

What DOESN'T the kit include? The drive gear between cam shaft and distributor (Use the one from the GTi distributor), cam shaft gear (Use the one from the samurai cam shaft) and angle housing with mounting bolts (Use the one from the samurai).

For Gen 2/3: Additional parts for the distributor internals are needed to make the ignition and fuel working. We got parts for that too.

The installation:

## Step 1:

You'll need the angle drive gear of your samurai cam shaft. Use a gear puller or a workshop press. (Do NOT use a hammer). Heat might be required to get it loose.

Be carefull not to damage the gear teeths.

Use a workshop press to press the gear on to the angle drive kit shaft.

Be carefull with the tip of the shaft when using the workshop press.

## Step 2:

You'll need the drive gear and locking pin from your GTi distributor.

Prepare ex. a piece of wood to make a support for the drive gear, including a hole for the drive gear locking pin to go into.



WARNING: The pin might be hard to retrieve, so be carefull!

#### Step 3:

Press the angle drive gear on to the angle drive shaft, using a work shop press.  
(Do NOT use a hammer).

Be carefull with the drive shaft tip when pressing the drive gear on.

#### Step 4:

Before installing the drive gear an locking pin on the Angle drive shaft, please measure the diameter of the locking pin and the hole in the shaft. Make sure that the locking pin isn't too big (some differences has been discovered so please measure and adjust the hole if nessesary).

Use the wood piece again as a support when you press the locking pin thru the drive gear and shaft.

### Step 5:

Modify the angle housing from your Samurai, by cutting of the lower mounting point. Grind the remains of the mounting point on the housing for a smoother look.



Bolt the angle housing, with a good oil seal, on to the adapter plate using the original bolts (serial number pointing down).

Pour some quality engine oil inside the angle housing to lubricate the angle gears:



Step 6:

Mount the angle drive kit to the engine head.  
Insert the distributor with the correct timing.  
Adjust the timing to specs.

Warning: Do not rev the engine the first times running the angle drive kit, as it needs some "break in" time.



Good luck with your Samurai project!

(We won't be financially responsible if there should happen anything with the angle drive kit or engine components. Course we'll try to help you out with tech or parts if we can.)

Thanks!

Best Regards  
from  
Moe's Suzuki Service