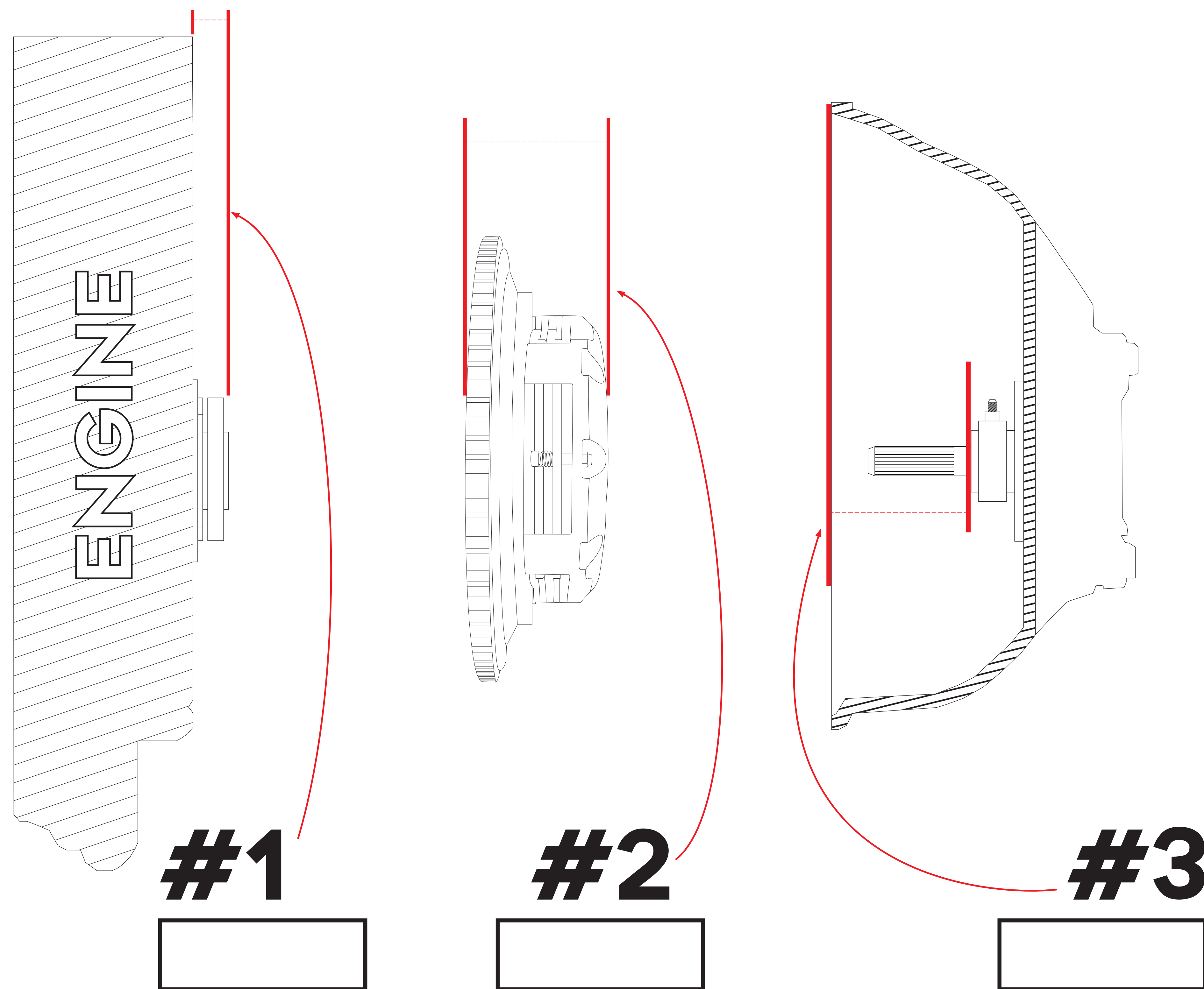


# HYDRO BEARING INSTALL



It is very important to install your Clutch Masters hydraulic bearing to the correct air gap, failure to do so will cause clutch slippage, premature failure, or bearing failure.

Tools Required: Straight edge and dial caliper.

## **Measurement #1 :**

**The distance between the crankshaft & back of engine block.**

Sit the straight edge flush onto the crank and measure the distance/offset between the crank and the back of the engine block. In some applications the engine crank may sit flush with the block. If this is the case then the measurement will be "0.00".

\*Make sure to subtract the thickness of the straight edge.

## **Measurement #2:**

**Clutch & Flywheel stack height.**

Bolt down the complete clutch pack onto the flywheel to the required specifications. Just as if it was being installed onto the engine. Sit the back flange of the flywheel onto a flat surface. Make sure the back of the flange is sitting on a flat surface to ensure true measurement.



Lay the straight edge across the diaphragm fingers and use the dial caliper to measure down between the fingers through the center hub of the disc to the back of the flywheel flange.

\*Make sure to subtract the thickness of the straight edge.

**Measurement #3:**  
**Bell housing to bearing.**

Mount the Clutch Masters hydraulic bearing onto the transmission along with any spacers (if applicable). Do not install any shims at this point. Lay the straight edge across the face of the bell housing and measure the distance between the face of the transmission to the face of the bearing with the dial calipers.

\*Make sure to subtract the thickness of the straight edge.

CLUTCH MODEL	REQUIRED AIR GAP
FX100-FX500	0.120"-0.130"
FX725 & FX850	0.090"-0.120"

Add measurement #1 and #2. This will be the "Clutch to Engine Block" measurement. Subtract the Clutch to block measurement from the #3 measurement. This will give you the exact Air Gap measurement.

(Measurement #3 – Clutch to Engine Block = Air Gap)

If your Air Gap is a **negative number** then the bearing is too tall. Remove shims or bearing spacers to increase the bell housing to bearing measurement (Measurement #3).

If your Air Gap is **more** than the required measurement then add shims to the bearing to reduce the bell housing to bearing measurement.

(Measurement #3).



If any questions or tech support call our technicians at 909-877-6800.