

## ***Two Stroke Top End Measurement***

Engine is from a Yamaha SR-V 600

Do not start this lab until told that the competition is ready to start.

If there is something you don't understand, you may ask for clarification from the person in charge.

**Locate and Record the following<sup>8</sup>:**

Engine Displacement	
Torque Specs:	
Cylinder Head Nuts	
Cylinder Base Nuts	
Spark Plug	

**Using the supplied service manual<sup>5</sup>, tools and equipment:**

- Remove the cylinder heads and cylinders
- Remove the pistons from the connecting rods
- Carefully remove the top piston rings
- Measure all of the components and calculate clearances to complete the following table
- Use the supplied manual for specifications and torque specs some specs may not be in the manual
- Record all specifications, torque values, measurements, and clearances in **METRIC** and in the tables provided and include the unit of measure.
- Re-assemble the top end components following instructions in service manual,
- Torqueing all fasteners to spec.

If you have completed this lab early, please check your answers and wait quietly until everyone has finished or all the time is used.

Enter all measurements in the table on the back of this page<sup>8</sup>.  
Show calculations when possible<sup>1</sup>.

Part name	Measurement						
Piston Diameter	MAG						
	PTO						
Cylinder Bore Diameter		D1	D2	D3	D4	D5	D6
	MAG						
	PTO						
Cylinder Taper	MAG						
	PTO						
Cylinder Out of Round	MAG						
	PTO						
Piston To Cylinder Clearance	MAG						
	PTO						
Top Ring End Gap	MAG						
	PTO						
Top Ring Groove Clearance	MAG						
	PTO						