

COMPRESSION AND LEAKDOWN
Outdoor Power and Recreation Equipment
SECONDARY



Compression and Leakdown

Do not start this lab until told that the competition is ready to start. If there is something that you don't understand, you may ask for clarification from a judge.

You will be performing Compression and Leak-down tests on this Motorcycle to diagnose a poor running condition. Follow this sheet, as well as any other documents supplied for the proper inspections, procedures, and specifications.

* All measurements and specifications must be in Metric*

Use the special tools provided with care.

Ensure you have the judge verify your work at the appropriate times indicated. **Compression Test:**

Following the procedures in the service Manual, perform a compression test. **Results:**

What is the standard compression test reading?

What page in the Manual did you find the specification?

What are the possible causes of a low compression reading?

- Put Motorcycle in top gear, and adjust the rear brake by hand, until the brake shoes are applied. (Ask Judge for assistance doing this)

- Remove inspection plug from center of the Magneto cover, and using the appropriate size socket and ratchet, turn the engine over until you reach TDC on the Compression stroke.

What direction of rotation does this engine turn? Clockwise or Counterclockwise?

Please circle your answer

Next page....



- Perform the leak-down test, using the attached instructions.
- What are your results?

- What is the cause of the problem?

- Repair the problem, and perform the tests again to confirm your diagnosis.

- What are your final readings?

You are now finished the Lab. Clean your work area and return special tools.







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