Mag-Rite™

Instructions for use

Ensure Magneto "P" leads are properly grounded

1. Remove the upper spark plug of all cylinders.
2. Rotate propeller by hand until the #1 cylinder is on the "compression stroke".
3. Insert TDC Locator Pin into spark plug hole until fully seated against the cylinder.
4. With one hand on the TDC Locator Pin, continue rotating the propeller by hand until you feel the #1 piston contact the TDC Locator Pin.
5. Remove the TDC Locator Pin from the cylinder.
6. Install the Mag-Rite tool onto the propeller spinner with the supplied bungees and insert the Digital Indicator.
7. Press the "on" button and then press the "zero" button. (0.0 will be indicated)
8. Continue rotating the propeller by hand in the same direction until the #1 piston is past TDC and moves back down the cylinder on the "power stroke", approx 2 inches.
9. Insert TDC Locator Pin into spark plug hole until fully seated against the cylinder.
10. With one hand on the TDC Locator pin, rotate the propeller by hand in the opposite direction (moving the piston back toward TDC) until you feel the #1 piston contact the TDC Locator Pin.
11. Remove the TDC Locator Pin from the cylinder.
12. Observe the reading on the Digital Indicator. (Half of this number is TDC of the #1 piston)
13. Continue rotating the propeller by hand in the same direction until the Digital Indicator reads half of the original number. (If the original number was 20.0 then rotate the propeller until 10.0 is indicated)
14. This is TDC of the #1 piston. Press the "zero" button. (0.0 will be indicated)
15. Continue to rotate the propeller by hand until the manufacturer's correct "Before TDC" reading is indicated.
16. You are now ready to install and/or time the engine magnetos!

Fly-Rite™

Instructions for use

Ensure Flight Control area is clear of obstructions

1. Set the flight control to be adjusted to the "Neutral" position per the aircraft manufacturer's instructions.
2. Install the digital indicator into the Fly-Rite tool.
3. Press the "on" button and place the Fly-Rite tool onto the control surface.
4. Press the "zero" buton (0.0 will be indicated)
5. Move the flight control to its fully defelcted position in both directions and note the angle indication on the Fly-Rite tool in each position.
6. Compare these readings to the manufacturer's requirements.
7. If angle readings are not within tolerance then adjust the flight control system per the manufacturer's instructions.

To verify Digital Indicator operation before use:

Place Digital Indicator on a flat surface, press the "on" button and then "zero" button. Rotate Digital Indicator 90 deg "CW" and "CCW" and verify angle indication. The Digital Indicator should return to "0.0" when placed in the upright position.

(Tolerence of +/- .2 deg due to slight surface variations)

The Digital Indicator is a sensitive instrument; to ensure accuracy, other personnel should not be working on or moving the aircraft during the ignition timing or flight control adjustment process.

The Digital Indicator will automatically shut off after approx. 5 minutes to save battery life.
If during the timing process the indicator shuts off :
(do not move the propeller)
Simply turn the indicator back "on" and it will retain the last indicated position.

Digital Indicator should be stored in the tool case and "not" in the Mag-Rite or Fly-Rite tools.

Mag-Rite & Fly-Rite tools are Patent Pending

Warranty Registration

Date of Purchase: _____

Indicator Serial#: RS-_____

Purchased from: _____

First Name: _____

Last Name: _____

Street Address: _____

City: _____

State: _____

Zip Code: _____

Email: _____

You may regiser online at www.ritesystem.net

(Fold Here)

Cut along this edge

(Staple here)