

Ron's Gyros Flight Training

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(ronsgyros.com)

PRE-FLIGHT CHECKLIST (PHASE ONE)

Fuel Aircraft

Check Oil

Check Fuel Sample

Inspect and Clean Rotor Blades

**Position Rotor Blades and Inspect Cyclic
Control System**

Inspect Rudder Cables

Inspect Engine and Drive System

Inspect Propeller Blades

Inspect Tires, Brake Cables, Etc...

PRE-FLIGHT CHECKLIST (PHASE TWO)

Clear Area in Aircraft Vicinity

Assume Pilot Position

Buckle-up Seat Belts

Set Brakes

Set Throttle to Idle Position

Start Engine

Check Instruments

Release Brake and Begin Taxi

TAKE-OFF CHECKLIST

Set Brakes

Turn On Fuel Pump

Release Rotor Brake

Push Cyclic Full Forward And Unlock

Set Engine Idle to 1000-1200 RPM

Engage Pre-Rotator

At 70-80 Rotor RPM Begin Back Cyclic

(Complete Full Back by 125 RPM)

Check for Air Traffic

Use Radio to Announce Intentions

Release Brake and Proceed onto Runway

GYROPLANE TAXI ROTORS TURNING

CONDITIONS: WIND CALM

Cyclic: Full AFT / Centered Laterally
(hand on cyclic)

Taxi speed: To maintain Rotor RPM
Pre-rotate if needed

CONDITIONS: TAILWIND 5-15 MPH

Cyclic: Full AFT / Centered Laterally

Taxi speed: Slow

Pre-rotate if needed

CONDITIONS: HEADWIND 5-15 MPH

Cyclic: Full AFT / Centered Laterally

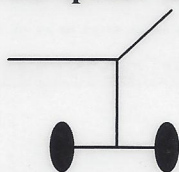
Taxi speed: Slow

Slightly forward cyclic and reduce
throttle to reduce rotor RPM and/or
increase forward taxi speed.

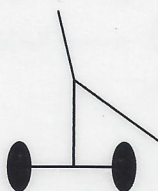
CONDITIONS: CROSSWIND 5-15 MPH

Cyclic: Full AFT

Taxi speed: Slow



← **WIND TO INCREASE
ROTOR RPM**



← **WIND TO DECREASE
ROTOR RPM**

**CAUTION: DO NOT TILT ROTORS LEFT OR
RIGHT IF ROTOR RPM IS IN EXCESS OF 150 RPM**

GYROPLANE TAXI ROTORS STOPPED

CONDITIONS: WIND BLOWING OR CALM

Cyclic: Full Forward / Locked
(hand on cyclic)

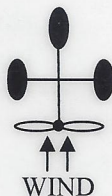
Taxi speed: Slow

- ❖ **CAUTION: Taxi with rotors stopped when wind exceeds 15 MPH**
 - ❖ **It is critical to maintain rotor RPM between**
 - ❖ **"120-140 RPM" when taxiing with rotors turning.**
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STARTING OR STOPPING ROTORS

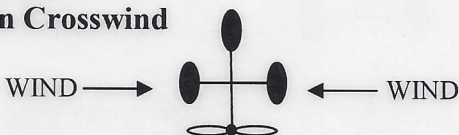
CONDITIONS: WIND EXCEEDING 15 MPH

Cyclic: Full Forward
Position with tail into wind



CONDITIONS: WIND 5-10 MPH (CROSSWIND)

Cyclic: Full Forward
Position in Crosswind



CONDITIONS: WINDS CALM

Cyclic: Full Forward

- ❖ **Apply rotor brake when RPM decreases to 50 RPM.**
 - ❖ **Apply pre-rotator until minimum taxi RPM is reached.**
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