

PREFLIGHT

INTERIOR

Magnetos/switches – **OFF**

Fuel gauges -check quantity

Documents – ARROW

Flaps- EXTEND

Master switch – **OFF**

Controls – CHECK cables

Loose items – REMOVE or SECURE

Winch - Check

RIGHT SIDE

Right wing root - CHECK

Right Flap – CHECK hinges/control link

Right wing strut - CHECK

Right aileron – CHECK hinges/control link

Right wing tip – CHECK

Right wing leading edge – CHECK

Right wing Tank – Qty. and Cap SECURE

Right Fuel drain – SAMPLE and CHECK

Right tire – CHECK

Right brake – CHECK

Right engine – CHECK (**OIL** 6 Qts., leaks)

Right cowling – SECURE

FRONT

spinner -CHECK

Prop – CHECK

Windshield – CHECK & CLEAN

LEFT SIDE

Left engine leaks – CHECK (fuel, oil, exh.)

Fuel Sump – DRAIN

Left Cowling – SECURE

Left tire & Brake CHECK

Pitot Tube & Static port - check

Left wing leading edge – CHECK

Left wing Tank - Qty. and Cap SECURE

Left Fuel drain – SAMPLE and CHECK

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LEFT EXTERIOR CONT'D

Left Wing tip – CHECK

Left Aileron – CHECK hinges/control link

Left Wing Strut – CHECK

Left Flap – Check hinges/control link

Left Wing Root - CHECK

FUSELAGE

top of wings – CHECK

Antennae – CHECK

Trim jack screw & fittings - CHECK

Left stabilizer & braces – CHECK

Left elevator – CHECK hinges/control link

Right stabilizer & braces – CHECK

INTERIOR

Airplane Log -CHECK for discrepancies

Log inspection/condition - SIGN LOG

STARTING ENGINE

Seatbelts and Shoulder harness secure

Door – Closed

Avionics MASTER and lights – **OFF**

Fuel Selector – fullest tank, détente secure

Circuit Breakers – check

Carb heat – **OFF**

Prime – use primer/throttle as needed

Master switch – ON

Magneto – **LEFT ONLY**

Mixture – **FULL RICH**

Call – **Clear PROP**

Throttle – **CRACK OPEN**

Starter – press button

Magneto – **BOTH** once engine running

Oil pressure – check

Ammeter – check

Avionics MASTER and lights – ON

Xponder - set to **ALT**

BEFORE TAKEOFF

Controls – free and correct

Flaps – **1ST NOTCH, as needed**

Altimeter – SET

Fuel: CHECK fullest tank, and détente secure

Trim & Brakes – SET

Engine check – set to 1700 RPM

Magnetos – CHECK & then BOTH ON

Carb Heat – CHECK AND THEN **OFF**

Mixture – **RICH**

Ammeter – CHECK

Oil temp/ pressure – CHECK

Engine – IDLE CHECK

Strobes – **ON**

Radio -check **ON**

Tow Clutch – ENGAGED (down position)

Parking brakes – OFF

Tow release – Practice reaching handle

Radio: **Dive brakes locked?** then: glider in tow

Est. positive climb – ease off flaps, if needed

TOW SPEEDS

PW-5, KA-8, 1-26 55-60 mph

Junior, KA-7, KA-6, Duster 60-65 mph

ASK-21, Owl, Jr. 65-70 mph

POST-TOW

Power - **2200 rpm**

Speed – **80 mph**

Winch – ENGAGE & POWER ON

Winch complete – POWER OFF

Fuel Tank – CHECK FOR FULLEST

EGT – **CHECK** temps, descend at will

BEFORE LANDING

GAS – **Fullest tank**

Mixture – **RICH**

Carb Heat – as needed

Trim - 55-60 mph w/ full flaps, 60-65 no flaps

ENGINE FAILURE

Best Glide – **65 MPH**
Landing site – SELECT
FUEL Selector – **FULLEST TANK**
MAGNETOS – **BOTH**
Carb Heat – **ON**

EMERGENCY PROCEDURES ON TOW

Aborted Launch

-signal with aileron, release glider
-goto left of runway

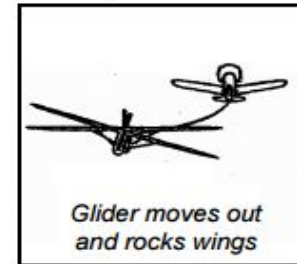
Dive Brakes Out

-keep on tow if clear of obstacles
-signal with rudder if >500 ft
-return to airport

Glider Cannot release

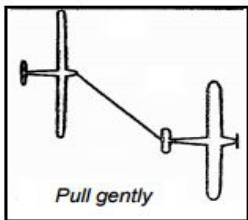
- will go left & **ROCK WINGS** (or call)
- return to Airport & **RELEASE**

Tow plane to release

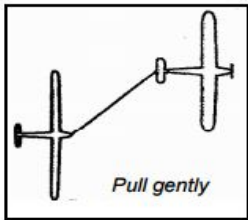
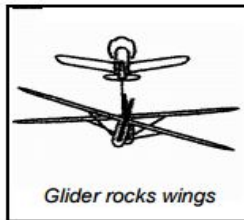


Normal ON-tow signals

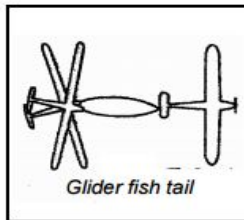
Tow plane turn right



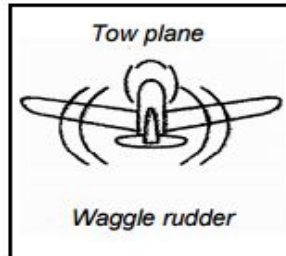
Tow plane go faster



Tow plane turn left



Tow plane slow down



Problem with glider,
check spoilers

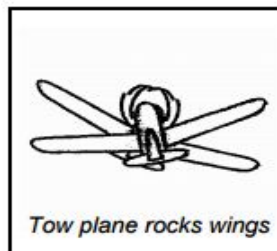
Kiting Glider

- **RELEASE IMMEDIATELY**

Need Glider OFF

- **ROCK** wings with **FULL** aileron
- release if glider delays

Glider to release

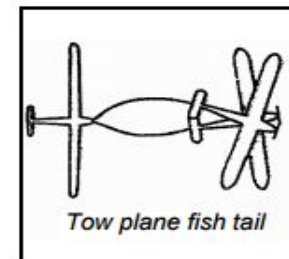


NEITHER can release

-return to Airport
-radio call or **YAW**
-IF time allows: Call **FOO** and discuss

IF Formation Landing NEEDED

- proceed to **FBL** (or other **LONG** rwy)
- Glider deploys dive brake
- Glider goes to low tow position
- Tow plane: power to control approach
- Glider lands first
- If Glider needs to brake: **AFTER** towplane lands



Tow plane can not
release