

**Normal Checklist 1978 R172K Hawk XP****N736YB****Pre-Start**

AROW.....CHECK  
 Hobbs/Tach.....NOTE  
 Walk-Around/Fuel/Oil.....DONE  
 Seatbelts/Pax/Phones.....FASTEN  
 Fuel Shutoff/Selector.....IN/BOTH  
 Cowl Flap.....OPEN  
 Avionics/Breakers.....OFF/CHECK  
 Beacon/Lights.....ON  
 Mixture/Propeller.....RICH/HIGH  
 Throttle.....CLOSED

**Start**

Prime.....8-10GPH  
 Throttle.....800-1000RPM  
 Oil Pressure.....CHECK  
 Alternator/Avionics.....ON  
 Fuel pump.....OFF

**Pre-taxi/Taxi**

ATIS/Taxi Clearance.....COPY  
 Altimeter.....SET  
 Lights/Pitot Heat.....AS REQD  
 Transponder.....CHECK VFR  
 Brakes.....CHECK  
 TC/GPS/AI/Compass.....CHECK

**Run-Up**

Flaps/Flight Controls.....CHECK  
 Magnetos.....1800RPM  
 .....150 max, 50 diff  
 Propeller.....CYCLE  
 Engine/Vacuum/Amps.....CHECK  
 Oil temp.....GREEN

**Pre-takeoff**

Elev. & Rudder Trim.....SET  
 Cowl Flaps.....OPEN  
 EHSI vs Compass.....CHECK  
 Radios/Navigation.....SET  
 Lights/Transponder.....ON/SET  
 Doors/Windows/Pax.....CHECK  
 Clearance.....OBTAIN

**Normal Take-Off**

Flaps.....0°-10°  
 Throttle.....FULL/2600RPM  
 Mixture.....LEAN ABV 3K  
 Rotate.....55KIAS  
 Climb.....75-85KIAS  
 Flaps Up.....500'

**Climb**

Airspeed.....85-95KIAS  
 Throttle.....FULL/2600RPM  
 Fuel Selector.....BOTH  
 Cowl Flap.....OPEN AS REQ'D

**Cruise**

Throttle.....14-25"MP  
 Propeller.....2200-2600RPM  
 Mixture.....LEAN  
 Cowl Flaps.....CLOSE

**Descent**

Throttle.....16"MP  
 Mixture.....ENRICH  
 Cowl Flaps.....CLOSE

**Approach/IAF**

Seatbelts/Pax.....CHECK  
 Fuel Selector.....BOTH  
 Mixture/Propeller.....RICH/HIGH  
 Cowl Flap.....CLOSE  
 Slow.....85KIAS  
 Flaps.....10°  
 Final no Flaps.....65-75KIAS  
 Final with Flaps.....60-70KIAS

**Balked Landing**

Propeller.....2600RPM  
 Throttle.....FULL  
 Flaps.....20°  
 Airspeed.....55KIAS  
 Retract Flaps.....65KIAS  
 Cowl Flap.....OPEN

**Normal Checklist 1978 R172K Hawk XP****N736YB****After Landing**

Wing Flaps.....UP  
 Cowl Flap.....OPEN  
 Transponder.....1200  
 Taxi Clearance.....OBTAIN

**Securing**

Avionics.....OFF  
 Throttle.....CLOSED  
 Mixture.....CUT-OFF  
 Ignition/Master/Alternator.....OFF  
 Gust Lock.....INSTALL  
 Fuel Selector.....RIGHT  
 Hobbs/Tach/Flight Plan.....NOTE

**Short Field Take-Off**

Flaps.....10°  
 Climb.....60KIAS

**Soft Field Take-Off**

Flaps.....15°

**Short Field Landing**

Flaps.....FULL  
 Airspeed.....63KIAS  
 Flaps Touchdown.....RETRACT

**Flooded Engine**

Fuel Pump.....OFF  
 Mixture.....CUT-OFF  
 Throttle.....OPEN  
 Crank.....15s

**Fuel Flow @ Full Throttle**

SL.....16GPH  
 4000FT.....14GPH  
 8000FT.....12GPH  
 12000FT.....10GPH

**Alternate Static Errors**

Airspeed.....ADD 3KT  
 Altitude.....ADD 25FT

**V-Speeds KIAS**

Vne.....163  
 Vno.....129  
 Va @2550#.....105  
 Va @2150#.....96  
 Va @1750#.....87  
 Vfe.....85  
 Vg @2550#.....75  
 Vg @2150#.....69  
 Vg @1750#.....62  
 Vs1.....54  
 Vs0.....46

**70% Power**

Altitude	ISA-20	ISA	ISA+20
2000'	2200/25	2300/25	2300/25
4000'	2300/24	2300/24	2400/24
6000'	2300/23	2400/23	2400/23
8000'	2500/20	2500/21	2500/21
10000'	2600/19	2600/19	2600/19

120 KTAS @ 4000', 495 nm, 9GPH

**60% Power**

Altitude	ISA-20	ISA	ISA+20
2000'	2200/23	2200/23	2200/24
4000'	2200/22	2200/23	2200/23
6000'	2200/22	2200/22	2200/23
8000'	2200/21	2300/21	2300/21
10000'	2400/19	2400/19	2500/19
12000'	2500/17	2500/18	2500/18

112 KTAS @ 4000', 558 nm, 7.7GPH

**Fuel/Time To Climb**

2000'.....2.0/2  
 4000'.....2.7/5  
 6000'.....3.4/8  
 8000'.....4.1/10  
 10000'.....5.0/16  
 12000'.....5.9/22

**Engine Failure In Roll**

Throttle..... IDLE  
Brakes..... APPLY  
Flaps..... UP  
Mixture..... CUT-OFF  
Ignition..... OFF  
Master..... OFF

**Engine Failure At Take-Off**

Airspeed w/o flaps..... 70KIAS  
Airspeed w/flaps..... 65KIAS  
Mixture..... CUT-OFF  
Fuel Shutoff..... OUT  
Ignition Switch..... OFF  
Flaps..... DOWN  
Master..... OFF

**Engine Failure In Flight**

Airspeed..... 75KIAS  
Fuel Shutoff..... IN  
Fuel Selector..... L/R/BOTH  
Mixture..... RICH  
Throttle..... 1/2 OPEN  
Fuel Pump..... LOW 3-5s  
Ignition Switch..... L/R/BOTH  
Propeller..... PULL COARSE

**Forced Landing**

Airspeed w/o flaps..... 70KIAS  
Airspeed w/flaps..... 65KIAS  
Seatbelts..... SECURE  
Propeller..... PULL COARSE  
Mixture..... CUT-OFF  
Fuel Shutoff..... OUT  
Fuel Selector..... OFF  
Avionics Master..... OFF  
Flaps..... DOWN  
Master..... OFF  
Doors..... OPEN  
Brakes..... HEAVY

**Precautionary Landing**

Seatbelts..... SECURE  
Flaps..... 20°  
Airspeed..... 65KIAS  
Field..... FLY OVER  
Avionics Master..... OFF  
Master..... OFF  
Doors..... OPEN  
Ignition..... OFF  
Brakes..... HEAVY

**Ditching**

Radio..... MAYDAY  
Objects..... JETTISON  
Seatbelts..... SECURE  
Flaps..... DOWN  
Descend..... 300FPM @ 55KIAS  
If no power..... FLAPS 10  
Doors..... OPEN  
Face..... CUSHION  
Touchdown..... LEVEL  
Airplane..... EVACUATE

**Fire During Start**

Fuel Pump..... OFF  
Mixture..... CUT-OFF  
Brake..... RELEASE  
Extinguisher..... OBTAIN  
Airplane..... EVACUATE  
Fire..... EXTINGUISH

**Engine Fire In Flight**

Throttle..... CLOSE  
Mixture..... CUT-OFF  
Fuel Shutoff..... OUT  
Master Switch..... OFF  
Cabin Heat/Air..... OFF  
Airspeed..... 105KIAS  
Landing..... FORCED

**Electrical Fire In Flight**

Master Switch..... OFF  
Avionics Master..... OFF  
All Other Switches..... OFF  
Vents/Heat..... OFF  
Extinguisher..... USE  
Master Switch..... ON  
Circuit Breakers..... CHECK  
Radio Switches..... OFF  
Avionics Master..... ON  
Radio Switches..... ON  
Vents/Heat..... ON

**Cabin Fire**

Master Switch..... OFF  
Vents/Heat..... OFF  
Extinguisher..... USE  
Airplane..... LAND

**Wing Fire**

Nav & Strobe Lights..... OFF  
Pitot Heat..... OFF  
Attitude..... SLIP AWAY

**Icing**

Pitot Heat..... ON  
Turn..... BACK 180°  
Cabin Heat..... ON  
Engine Speed..... INCREASE  
Flaps..... UP  
Land..... 80-90KIAS

**Over-Voltage Light**

Avionics Master..... OFF  
Master Switch..... OFF  
Master Switch..... ON  
Over-Volt Light..... CHECK  
Avionics Master..... ON  
On Repeat..... LAND

**Ammeter Discharge**

Alternator..... OFF  
Unneeded Radios..... OFF  
Airplane..... LAND

**Landing Gear**

Nose..... 45PSI  
Strut..... 45PSI  
Main..... 38PSI