



COVENTRY FLYING SCHOOL LTD

Piper PA-28-161 Warrior III

Checklist

2nd Edition

July 2023

DO NOT REMOVE FROM AIRCRAFT

INTRODUCTION

This checklist is to be used by all pilots flying Coventry Aeroplane Club Piper PA-28-161 Warrior III aircraft.

REFERENCE

Useful operational information. Operating speeds and limitations are for maximum weight unless otherwise stated.

NORMAL PROCEDURES

The normal procedures are based on the POH but have been tailored to suit Coventry Aeroplane Club procedures and aircraft systems.

EMERGENCY PROCEDURES

The emergency procedures are based on the POH but are suggested actions only and no substitute for sound judgement and common sense. Checks in bold are memory items.

THE POH REMAINS THE AUTHORITATIVE DOCUMENT

Any discrepancies or suggestions for improvement should be communicated to the Head of Training as soon as possible.

LOADING

AIRCRAFT	BEW (LBS)	ARM (IN)	MOMENT
G-COVA	1570.2	87.40	137236
G-COVC	1538.4	86.88	133656

ALTIMETER SETTING PROCEDURE

ALTIMETER	1	2	3
Take-off	QNH	QNH	QNH
En route	QNH/1013	QNH/1013	Regional QNH
Landing	QNH	QNH	QNH

PASSENGER SAFETY BRIEF

S	SEATS, BELTS
A	AIR VENTILATION
F	FIRST AID KIT, FIRE EXTINGUISHER
E	EXITS, EVACUATION, EQUIPMENT
T	TRAFFIC, TALKING
Y	YOUR QUESTIONS

SPEEDS

TAKE-OFF (ROTATE & CLIMB)

Flap 0°	60, 79 KIAS
Flap 25°	52, 57 KIAS

CLIMB

Best angle (V_x)	63 KIAS
Best rate (V_y)	79 KIAS
En route	87 KIAS

CRUISE

Normal	100 KIAS
--------------	----------

DESCENT

Normal	100 KIAS
Best glide (2325 Lbs)	73 KIAS

CIRCUIT

Normal	90 KIAS
--------------	---------

LANDING

Flap 40°	63 KIAS
Flap 25°	70 KIAS
Flap 0°	75 KIAS

LIMITATIONS

WEIGHT

Maximum ramp weight	2447 LBS
Maximum weight.....	2440 LBS
Maximum baggage weight.....	200 LBS

AIRSPEED

Maximum never exceed speed (V_{NE})	160 KIAS
Maximum normal operating speed (V_{NO})	126 KIAS
Manoeuvring speed (V_A).....	111 KIAS
Maximum flap extension speed (V_{FE}).....	103 KIAS
Stall speed flap 0° (V_{S1}).....	50 KIAS
Stall speed flap 40° (V_{S0}).....	44 KIAS

WIND

Maximum demonstrated crosswind component	17 KTS
------------------------------------------------	--------

INSPECTION

COCKPIT

Chocks	REMOVE & STOW.....
Tie downs.....	REMOVE & STOW.....
Pitot cover.....	REMOVE & STOW.....
Parking brake	SET.....
Magnetos	OFF, KEY OUT.....
Control wheel	FULL, FREE.....
Trims.....	CHECK, NEUTRAL.....
Flaps.....	CHECK, UP.....
Pitot & static drains	CHECK.....
Alternate static source	CLOSED.....
Carbon monoxide detector	TEST.....
Fire extinguisher.....	CHECK.....
First aid kit.....	CHECK.....
Personal locator beacon	CHECK.....
Battery master.....	ON.....
Fuel selector.....	LOWEST TANK.....
Annunciators	TEST.....
Lights	CHECK, OFF.....
Pitot heat.....	CHECK, OFF.....
Stall warning.....	TEST.....
Battery master.....	OFF.....
Circuit breakers	CHECK.....

RIGHT WING

Flap	CHECK.....
Aileron	CHECK.....
Fuel	QUANTITY, DRAIN, VENT.....
Landing gear	CHECK.....

NOSE

Oil6-8 QUARTS
CowlingsSECURE.....
PropellerCHECK.....
Landing gearCHECK.....
Fuel drainCHECK.....

LEFT WING

Landing gearCHECK.....
FuelQUANTITY, DRAIN, VENT
Stall warning tabCHECK.....
Pitot headCHECK.....
AileronCHECK.....
FlapCHECK.....

TAIL

StabilatorCHECK.....
RudderCHECK (DO NOT PUSH)
Baggage doorSECURE.....

BEFORE START

Door	SECURE
Seat belts	SECURE
Passengers	BRIEF
Battery master	ON
Alternator	ON
Navigation lights.....	ON

START

Fuel selector.....	LOWEST TANK
Fuel pump	ON
Throttle	1/4 INCH OPEN.....
Mixture	RICH.....
Propeller	CLEAR.....
Prime	AS REQUIRED
Magnetos	KEY IN, START
Throttle	800-1200 RPM
Starter	DISENGAGED
Oil pressure	INDICATED WITHIN 30 SEC
Fuel pump	OFF

AFTER START

PFD	ALIGNED
HSI	ALIGNED.....
Radio master	ON
Radios	ON
Transponder	STBY
Altimeters	SET QNH, CHECK LEVEL.....

TAXI

BrakesCHECK.....
SteeringCHECK.....
InstrumentsCHECK.....

POWER

Fuel selectorSWITCH TANK
Throttle2000 RPM
Carburettor heatCHECK.....
MagnetosMAX DROP 175, MAX DIFF 50
GaugesCHECK.....
AmmeterCHECK.....
ThrottleIDLE, SET 800-1200 RPM.....

BEFORE TAKE-OFF

PFDSET.....
HSISET.....
Fuel pumpON.....
Control wheelFULL, FREE.....
TrimsSET FOR TAKE-OFF
FlapsSET FOR TAKE-OFF

Entering runway:

Strobe lightsON.....
Landing lightON.....
Pitot heatON.....
TransponderALT

CRUISE

FuelTANK, PUMP.....
RadiosCOM, TRANSPONDER.....
EngineGAUGES, CARB HEAT.....
Electrics.....LIGHTS, AMMETER.....
DirectionHSI, COMPASS.....
AltimetersSET, LEVEL.....

BEFORE LANDING

BrakesPRESSURE, OFF.....
MixtureRICH.....
Fuel pumpON.....
Landing light.....ON.....
Seat beltsSECURE.....

AFTER LANDING

Flaps.....UP.....
Carburettor heat.....OFF.....
Fuel pumpOFF.....
Strobe lights.....OFF.....
Landing light.....OFF.....
Pitot heat.....OFF.....
TransponderSTBY.....

SHUTDOWN

Parking brakeSET.....
Throttle800-1200 RPM.....
RadiosOFF.....
Radio master.....OFF.....
ThrottleCLOSED.....
MixtureIDLE CUT-OFF.....

After engine stops:

MagnetosOFF, KEY OUT.....
Navigation lights.....OFF.....
AlternatorOFF.....
Battery master.....OFF.....
PFDOFF.....
HSIOFF.....
Fuel selector.....OFF.....

PARKING

ChocksAS REQUIRED.....
Tie downs.....AS REQUIRED.....
Pitot cover.....AS REQUIRED.....

ENGINE FIRE DURING START

Starter**CRANK ENGINE**
Mixture**IDLE CUT-OFF**
Throttle**OPEN**
Fuel pump**OFF**
Fuel selector**OFF**

Abandon if fire continues

ENGINE FIRE IN FLIGHT

Fuel selector**OFF**
Throttle**CLOSED**
Mixture**IDLE CUT-OFF**
Fuel pump**OFF**
Heater**OFF**
Defroster**OFF**

Proceed with power off landing

ELECTRICAL FIRE IN FLIGHT

Battery master**OFF**
Alternator**OFF**
Vents**OPEN**
Cabin heat**OFF**

Land as soon as possible

ENGINE POWER LOSS DURING TAKE-OFF

Airspeed 73 KIAS

Land into wind with full flap if possible

Fuel selector.....SWITCH TANK
Fuel pumpON.....
MixtureRICH.....
Carburettor heat.....ON.....

If power is not restored:

Proceed with power off landing

ENGINE POWER LOSS IN FLIGHT

Airspeed 73 KIAS

Land into wind with full flap if possible

Fuel selector.....SWITCH TANK
Fuel pumpON.....
MixtureRICH.....
Carburettor heat.....ON.....
Gauges.....CHECK.....

If power is restored:

Carburettor heat.....OFF
Fuel pumpOFF

If power is not restored:

Proceed with power off landing

POWER OFF LANDING

MagnetosOFF
Battery master.....OFF
AlternatorOFF
Fuel selector.....OFF
MixtureIDLE CUT-OFF
Seat beltsTIGHT

LOSS OF OIL PRESSURE / HIGH OIL TEMPERATURE

Land as soon as possible
Prepare for engine failure

LOSS OF FUEL PRESSURE

Fuel pumpON.....
Fuel selector.....CHECK.....

ROUGH RUNNING

Carburettor heat.....ON.....

If rough running continues after one minute:

Carburettor heat.....OFF
MixtureMAX SMOOTHNESS.....
Fuel pumpON.....
Fuel selector.....SWITCH TANK
GaugesCHECK.....
MagnetosMAX SMOOTHNESS.....

Land as soon as possible
Prepare for engine failure

ALTERNATOR FAILURE

AlternatorOFF

Alternator circuit breaker.....CHECK.....

AlternatorON.....

If alternator is not restored:

AlternatorOFF

Electrical load.....MINIMISE

Land as soon as possible

Prepare for complete electrical failure

ELECTRICAL OVERLOAD

If ammeter indicates a load more than 20 amps higher than expected:

AlternatorON.....

Battery master.....OFF

If alternator load is reduced:

Electrical load.....MINIMISE

Land as soon as possible

If alternator load is not reduced:

AlternatorOFF

Battery master.....AS REQUIRED

Land as soon as possible

Prepare for complete electrical failure

SPIN RECOVERY

Rudder.....**FULL OPPOSITE TO ROTATION**....
Control wheel**NEUTRAL, FULL FORWARD**.....
Throttle.....**CLOSED**

When rotation stops:

Rudder.....**NEUTRAL**

Control wheel**STRAIGHT & LEVEL FLIGHT**

OPEN DOOR

Airspeed 89 KIAS

Cabin vents**CLOSE**

Window**OPEN**

Lower latch.....**LOCK**

Upper latch**LOCK**