



COVENTRY FLYING SCHOOL LTD

Piper PA-28-161 Warrior III

Checklist

1st Edition

January 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. Checklists marked (M) should be committed to and carried out from memory.

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 SOPs and new 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.

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 rate (V_Y)	79 KIAS
Best angle (V_X)	63 KIAS
En route.....	87 KIAS

CRUISE

Normal	100 KIAS
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DESCENT

Normal	100 KIAS
Glide (2325 Lbs).....	73 KIAS

CIRCUIT

Normal	90 KIAS
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LANDING

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

Weather	CHECK.....
NOTAMs	CHECK.....
Loading	CHECK.....
Performance.....	CHECK.....
Tech Log.....	CHECK.....
PPR	OBTAIN

INSPECTION

COCKPIT

Parking brake	ON.....
Magnetos	OFF, KEY OUT.....
Control wheel	FULL, FREE.....
Trims.....	CHECK, NEUTRAL.....
Flaps.....	CHECK, UP
Pitot drain.....	CHECK.....
Static drain	CHECK.....
Alternate static source	CLOSED
Carbon monoxide detector.....	TEST.....
Fire extinguisher.....	CHECK.....
First aid kit.....	CHECK.....
Personal locator beacon	CHECK.....
Battery master.....	ON.....
Annunciators	TEST.....
Navigation lights.....	CHECK.....
Strobe lights.....	CHECK.....
Landing light.....	CHECK.....
Pitot heat.....	CHECK.....
Stall warning.....	CHECK.....
Circuit breakers.....	CHECK.....
Battery master.....	OFF

RIGHT WING

FlapCHECK.....
AileronCHECK.....
Static wicksCHECK.....
Fuel quantity.....CHECK.....
Fuel vent.....CHECK.....
Fuel drainCLOSED.....
Ventilation inletCHECK.....

RIGHT MAIN LANDING GEAR

Oleo4½ INCH ± ¼ INCH.....
Torque link.....CHECK.....
BrakeCHECK.....
Tyre.....CHECK.....

RIGHT FRONT FUSELAGE

Windshield.....CLEAN.....
Oil6-8 QUARTS.....
CowlingSECURE.....

NOSE

PropellerCHECK.....
SpinnerCHECK.....

NOSE LANDING GEAR

Oleo3¼ INCH ± ¼ INCH.....
Torque link.....CHECK.....
Tyre.....CHECK.....

LEFT FRONT FUSELAGE

Windshield.....CLEAN.....
OAT probeCHECK.....
CowlingSECURE.....
Fuel drainCLOSED.....

LEFT MAIN LANDING GEAR

Oleo.....4½ INCH ± ¼ INCH.....
Torque link.....CHECK.....
Brake.....CHECK.....
Tyre.....CHECK.....

LEFT WING

Ventilation inlet.....CHECK.....
Fuel quantity.....CHECK.....
Fuel drain.....CLOSED.....
Fuel vent.....CHECK.....
Stall warning tab.....CHECK.....
Pitot head.....CHECK.....
Static wicks.....CHECK.....
Aileron.....CHECK.....
Flap.....CHECK.....

LEFT REAR FUSELAGE

Windows.....CHECK.....
Aerials.....CHECK.....
Ventilation inlet.....CHECK.....

TAIL

Stabilator.....CHECK.....
Static wicks.....CHECK.....
Rudder.....CHECK (DO NOT PUSH).....
Aerials.....CHECK.....

RIGHT REAR FUSELAGE

OAT probe.....CHECK.....
Windows.....CHECK.....
Aerials.....CHECK.....
Baggage door.....SECURE.....

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 warning light.....	OFF
Oil pressure	INDICATED WITHIN 30 SECONDS..
Fuel pump	OFF

AFTER START

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

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 (M)

FuelTANK, PUMP.....
RadiosCOM, NAV, TPDR.....
EngineGAUGES, CARB HEAT.....
Electrics.....LIGHTS, AMMETER.....
DirectionALIGNED.....
AltimetersSET.....

BEFORE LANDING (M)

BrakesPRESSURE, OFF.....
UndercarriageDOWN.....
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 brakeON.....
Throttle800-1200 RPM.....
RadiosOFF.....
Radio master.....OFF.....
ThrottleCLOSED.....
MixtureIDLE CUT-OFF.....

After engine stops:

MagnetosOFF, KEY OUT.....
Navigation lights.....OFF.....
AlternatorOFF.....
Battery master.....OFF.....
PFDAUTO SHUTDOWN.....
HSIAUTO SHUTDOWN.....
Fuel selector.....OFF.....

ENGINE FIRE DURING START (M)

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
Magnetos	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 (M)

Airspeed 73 KIAS

Aim to land into wind with full flap if possible

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

If power is not restored:

Proceed with power off landing

ENGINE POWER LOSS IN FLIGHT (M)

Airspeed 73 KIAS

Aim to land into wind with full flap if possible

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

If power is restored:

Carburettor heat.....OFF
Fuel pumpOFF

If power is not restored:

Proceed with power off landing

POWER OFF LANDING (M)

Fuel selector.....OFF

MagnetosOFF

MixtureIDLE CUT-OFF

Battery master.....OFF

AlternatorOFF

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

Gauges.....CHECK.....

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 (M)

RudderFULL OPPOSITE TO ROTATION.....
AileronsNEUTRAL.....
ElevatorFULL FORWARD.....
ThrottleCLOSED.....

When rotation stops:

RudderNEUTRAL.....
Control wheelLEVEL FLIGHT.....

OPEN DOOR

Airspeed 89 KIAS

Cabin ventsCLOSE.....
WindowOPEN.....
Lower latch.....LOCK.....
Upper latchLOCK.....