



COVENTRY FLYING SCHOOL LTD

Piper PA-28-140 Cherokee

Checklist

1st Edition

July 2023

DO NOT REMOVE FROM AIRCRAFT

INTRODUCTION

This checklist is to be used by all pilots flying Coventry Aeroplane Club Piper PA-28-140 Cherokee 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-BOFY	1449	87.59	126914

ALTIMETER SETTING PROCEDURE

ALTIMETER	1
Take-off	QNH
En route	QNH/Regional QNH/1013
Landing	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°73, 85 MPH

CLIMB

Best angle (V_x)74 MPH

Best rate (V_y)85 MPH

En route100 MPH

CRUISE

Normal115 MPH

DESCENT

Normal115 MPH

Best glide83 MPH

CIRCUIT

Normal115 MPH

LANDING

Flap 40°75 MPH

Flap 25°85 MPH

Flap 0°90 MPH

LIMITATIONS

WEIGHT

Maximum ramp weight	2150 LBS
Maximum weight.....	2150 LBS
Maximum baggage weight.....	200 LBS

AIRSPEED MARKINGS

Maximum never exceed speed (V_{NE})	178 MPH
Maximum normal operating speed (V_{NO})	143 MPH
Manoeuvring speed (V_A)	131 MPH
Maximum flap extension speed (V_{FE}).....	116 MPH
Stall speed flap 0° (V_{S1}).....	64 MPH
Stall speed flap 40° (V_{S0}).....	54 MPH

WIND

Maximum demonstrated crosswind component	17 KTS
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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.....
Carbon monoxide detector	TEST.....
Fire extinguisher.....	CHECK.....
First aid kit.....	CHECK.....
Personal locator beacon	CHECK.....
BAT switch	ON.....
Fuel selector.....	LOWEST TANK
Lights	CHECK, OFF
Pitot heat.....	CHECK, OFF
Stall warning.....	TEST.....
BAT switch	OFF
Circuit breakers.....	CHECK.....

RIGHT WING

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

NOSE

Oil	6-8 QUARTS
Cowlings	SECURE.....
Propeller	CHECK.....

Landing gearCHECK.....
Fuel drainCHECK.....

LEFT WING

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

TAIL

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

BEFORE START

Door SECURE
Seat belts SECURE
Passengers BRIEF
BAT/ALT switch ON
Navigation lights ON
Anti-collision light 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

Radios ON
Transponder STBY
Flight instruments SET
Altimeter SET QNH, CHECK LEVEL

TAXI

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

POWER

Fuel selector.....SWITCH TANK
Throttle2000 RPM
Carburettor heat.....CHECK.....
MagnetosMAX DROP 175, MAX DIFF 50
Gauges.....CHECK.....
Ammeter.....CHECK.....
ThrottleIDLE, SET 800-1200 RPM.....

BEFORE TAKE-OFF

Flight instruments.....SET.....
Fuel pumpON.....
Control wheelFULL, FREE.....
Trims.....SET FOR TAKE-OFF
Flaps.....SET FOR TAKE-OFF

Entering runway:

Landing light.....ON.....
Pitot heat.....ON.....
TransponderALT

CRUISE

FuelTANK, PUMP

RadiosCOM, TRANSPONDER

EngineGAUGES, CARB HEAT

Electrics.....LIGHTS, AMMETER

DirectionDI, COMPASS

AltimetersSET, LEVEL

BEFORE LANDING

BrakesPRESSURE, OFF

MixtureRICH.....

Fuel pumpON.....

Landing light.....ON.....

Seat beltsSECURE.....

AFTER LANDING

Flaps.....UP

Carburettor heat.....OFF

Fuel pumpOFF

Landing light.....OFF

Pitot heat.....OFF

TransponderSTBY

SHUTDOWN

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

After engine stops:

MagnetosOFF, KEY OUT.....
Anti-collision light.....OFF.....
Navigation lights.....OFF.....
BAT/ALT switchOFF.....
Fuel selector.....OFF.....

PARKING

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

ENGINE FIRE DURING START

StarterCRANK ENGINE
MixtureIDLE CUT-OFF
ThrottleOPEN
Fuel pumpOFF
Fuel selectorOFF

Abandon if fire continues

ENGINE FIRE IN FLIGHT

Fuel selectorOFF
ThrottleCLOSED
MixtureIDLE CUT-OFF
Fuel pumpOFF
HeaterOFF
DefrosterOFF

Proceed with power off landing

ELECTRICAL FIRE IN FLIGHT

BAT/ALT switchOFF
VentsOPEN
Cabin heatOFF

Land as soon as possible

ENGINE POWER LOSS DURING TAKE-OFF

Airspeed 83 MPH

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 83 MPH

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
BAT/ALT switchOFF
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
Gauges.....CHECK.....
MagnetosMAX SMOOTHNESS.....

Land as soon as possible
Prepare for engine failure

ALTERNATOR FAILURE

ALT switch.....OFF

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

ALT switch.....ON.....

If alternator is not restored:

ALT switch.....OFF

Electrical load.....MINIMISE

Land as soon as possible

Prepare for complete electrical failure

ELECTRICAL OVERLOAD

ALT switch.....OFF

Electrical load.....MINIMISE

Land as soon as possible

Prepare for complete electrical failure

SPIN RECOVERY

Throttle.....CLOSED

AileronsNEUTRAL

Rudder.....FULL OPPOSITE TO ROTATION....

ElevatorRAPIDLY FULL FORWARD

When rotation stops:

Rudder.....NEUTRAL

Ailerons/Elevator.....STRAIGHT & LEVEL FLIGHT