

Piper Warrior III PA-28-161

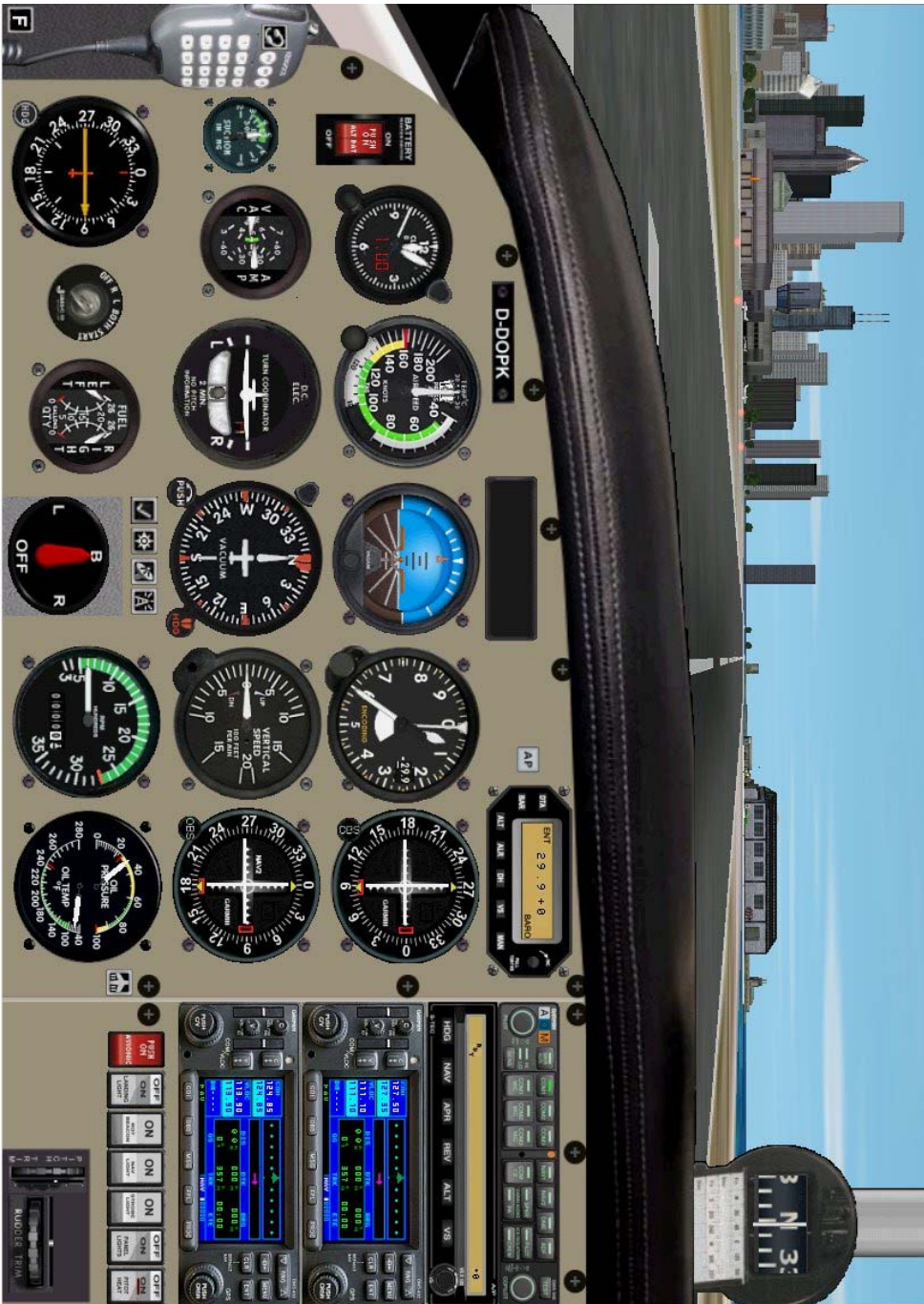
Microsoft Flightsimulator 2002

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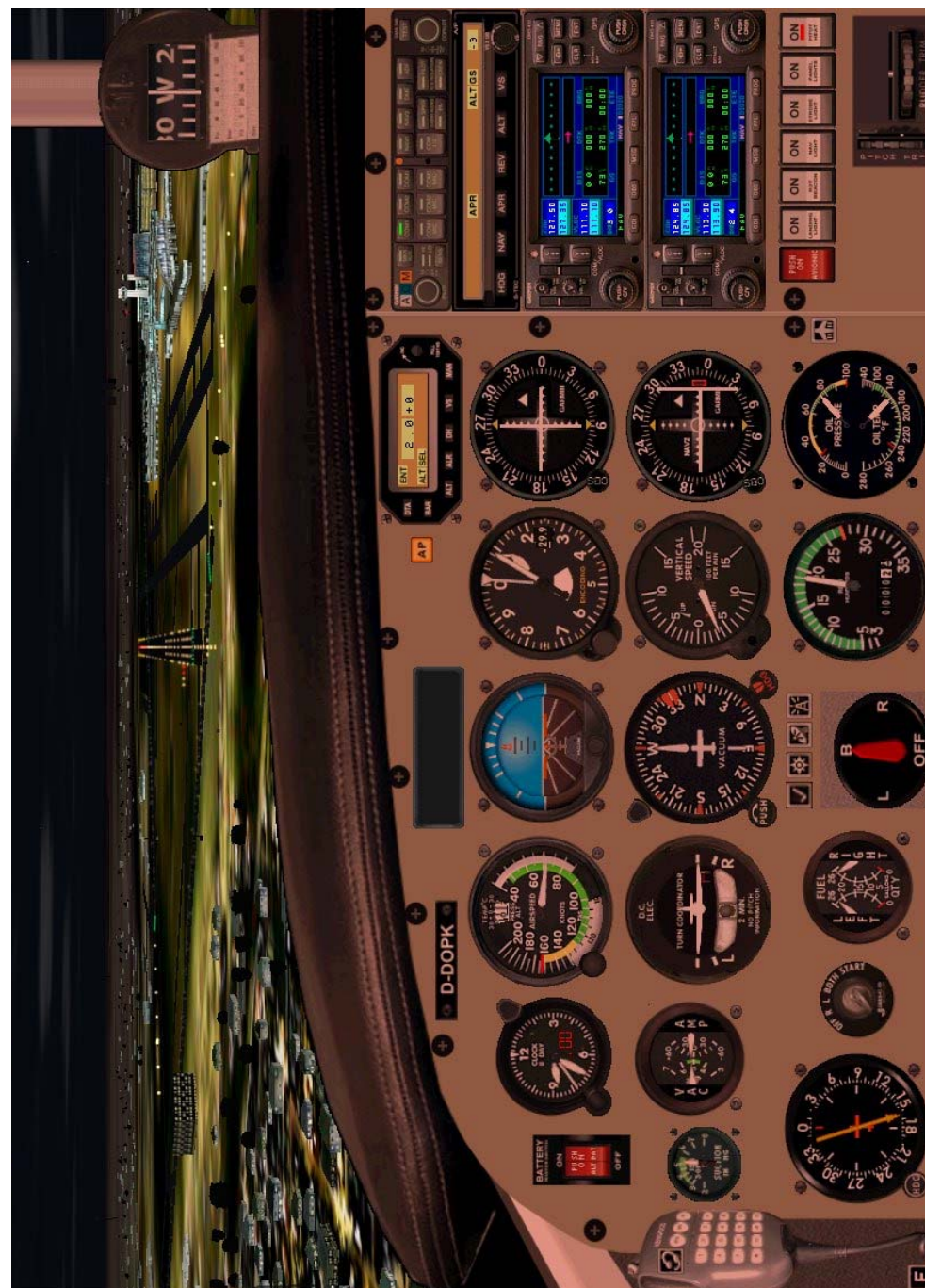


Pre-Start Checklist

Seat Belts	FASTENED
Parking Brakes	SET
Throttle	CLOSED
Magneto/Starter Switch	OFF
Battery & Alternator Master Switches	OFF
Avionics	OFF
Fuel Pump Switch	OFF
Mixture/Fuel Flow	CUTOFF
Battery Switch	ON
Panel Lights	ON AS REQUIRED
Flight controls	CHECK
Flaps	UP
Fuel Quantity	CHECK
Fuel Selector	BOTH
Avionics Switch	ON
Check Weather	(Atis, Flight Services)
<i>Request Clearance</i>	
Transponder	SET
Rot. Beacon	ON

Startup Checklist

Primer	AS REQUIRED
Throttle	OPEN 1/4 INCH
Mixture	RICH
Engine and Propeller Area	CLEAR
Fuel Pump Switch	ON
Carburetor Heat	ON
Magneto/Starter Switch	START
Throttle	IDLE
Alternator Switch	ON
Oil Pressure	CHECK
Ammeter+Voltmeter	CHECK for CHARGE
Engine Instruments	CHECK
Fuel Pump Switch	OFF
Annunciator Lights	CHECK





Before Taxi Checklist

Strobe Light	ON
Nav Lights	ON
Taxi/Landing Lights	ON
Heading Indicator / Altimeter	SET
Instruments	NORMAL OPERATION
Radios and Avionics	CHECKED and SET
Autopilot	SET and OFF

Request Taxi Clearance

Taxi Checklist

Throttle	MIN. POWER
Mixture	RICH
Parking Brake	RELEASE
Brakes	CHECK during taxi
Directional Gyro	PROPER IND. during turns
Turn Coordinator	PROPER IND. during turns
Artificial Horizon	ERECT during turns
Taxi to assigned runway	SPEED Max. 20 knots

Before Take-off Checklist

Parking Brake	SET
Pitot Heat	ON
Landing Lights	VERIFY ON
Fuel Quantity	CHECK
Fuel Selector Valve	BOTH
Throttle	IDLE
Mixture	RICH
Alternator Switch	VERIFY ON
Throttle	1800 RPM
Magnetos	CHECK
Ammeter	<150 RPM drop on each, <50 RPM drop between
Gyro Suction	CHECK Positive charge ind.
Throttle	IN LIMITS
Oil Temperature	IDLE
Elevator Trim	CHECK
	SET for takeoff



Flaps
 Fuel Pump Switch
 Flight Controls
 Radios and Avionics
Request Takeoff Clearance

Take-off Checklist

Smoothly increase thrust to
 Brakes
 V1 =
 Vr =
 Pitch
 At Positive Climb Rate
 Trim for climb to maintain
 At 500' AGL
 Engine Instruments

Climb-out Checklist

Throttle
 Mixture
 Autopilot
 Taxi/Landing Lights
 Carburetor Heat
 Fuel Pump Switch
 Airspeed
 Climb Rate
ATC

Cruise Checklist

Accelerate to cruise speed
 Engine+Instruments
 Engine Temperatures
 Fuel Quantity
 Radios
 Autopilot
 Lights
 Engine Instruments

CHECK UP
 ON
 FREE AND CORRECT
 SET

FULL
 RELEASE
 50 KIAS (descision)
 55 KIAS (rotate)
 10 degrees
 Touch Brakes
 70 KIAS
 RETRACT Flaps if set
 CHECK

2300 RPM
 RICH (above 3000' LEAN)
 CHECK and SET
 OFF
 OFF
 OFF
 80 KIAS 2300 RPM
 700 fpm
AS REQUIRED

100-110 KIAS 2350 RPM
 CHECK
 STABILIZE at cruise cond.
 CHECK
 TUNED and SET
 CHECK and SET
 as required
 CHECK

COMMUNICATIONS

Unicom: 122.7 - 122.8 - 122.95 - 123.0 - 123.05
 Multicom: 122.9 (CTAF)
 122.75 - 122.85 - (Air To Air)
 Flight Service: 122.2 (Most Common)
 122.1 - 122.6 - 123.6
 Flight Watch: 122.0

LIGHT SIGNALS

	On Ground	In Flight
Steady Green	Takeoff	Cleared to Land
Flashing Green	Taxi	Return for Landing
Steady Red	Stop	Yield/Continue Circling
Flashing Red	Taxi clear of Runway	Airport unsafe, DO NOT LAND
Flashing White	Return to Starting Point	N/A
Alternating Red & Green	Extreme Caution	Extreme Caution

CRUISE (5'000ft) - Zero Flaps

Economy	93	KIAS	2310 RPM
Normal	103	KIAS	2450 RPM
Maximum	113	KIAS	2595 RPM

ARRIVAL

	Flaps:	Speed:		
Approach	10-25°	75	KIAS	1700 RPM (Initially)
Short Final	40°	65	KIAS	Idle - 1200 RPM

WEIGHT & BALANCE

Max. T.O. Weight:	2,325 LBS
Useful Load:	801.1 LBS

Fuel Type:	100 LL (Blue) / 100 (Green)
Useable Fuel:	48 Gallons
Oil Capacity:	8 Quarts (Minimum 6)

	Weight x	Arm =	Moment
Empty Weight:	1'523.9	86.98	132548
Front Passengers		80.5	
Fuel (@ 6 lbs/gal)		95.0	
Rear Passengers		118.1	
Baggage (max. 200 lbs)		142.6	

Total

CG Limits from 87 to 93 (Moment ÷ Weight = CG)
Refer to the POH for the most current information.

Descent Checklist

Atis/Airport Information	CHECK	
Fuel Selector	BOTH	
Altimeter	CHECK	
Radios	SET	
Descent Speed	90 KIAS	1700 RPM
Descent Rate	-700 fpm	
Flaps	CHECK UP	

Approach Checklist

Localizer Level Flight :

Carburator Heat	ON	
Fuel Pump	ON	
Speed: Establish	80 KIAS	2000 RPM
Landing Lights	ON	
Flaps	10 degrees	
Speed: Establish	75 KIAS	2000 RPM
Flaps	25 degrees	2100 RPM
Turning toward runway: set flaps	FULL DOWN (40 deg)	

Final Glideslope Descent :

Mixture	RICH (on final)	
Speed: Establish	70 KIAS	1900 RPM
Descent Rate	-350 fpm	
Elevator Trim	AS DESIRED	
Parking Brake	VERIFY OFF	

Landing Checklist

Autopilot	OFF
Landing Speed	65 KIAS
Touchdown	MAIN WHEELS FIRST
Landing Roll	LOWER NOSE WHEEL
Brakes	MINIMUM REQUIRED

Taxi To Ramp

Flaps	RETRACT
Speed	Max. 20 knots
Throttle	AS REQUIRED
Elevator Trim	TAKEOFF SETTING
Avionics/Radios	AS REQUIRED
Transponder	1200 / standby

Shutdown and Securing Aircraft Checklist

Parking Brake	SET
Throttle	IDLE
Carburator Heat	OFF
Avionics Switch	OFF
Taxi/Landing Lights	OFF
Nav Lights	OFF
Strobe Light	OFF
Pitot Heat	OFF
Mixture/Fuel Flow	CUTOFF
Fuel Selector Valve	OFF
Magneto/Starter Switch	OFF
Fuel Pump Switch	OFF
Rot. Beacon	OFF
Panel Lights	OFF if in use
Battery & Alternator Master Switches	OFF

REFERENCE LIST

V-Speeds

Vr	Rotation Speed	40-50	CIAS
Vx	Best Angle Climb	63	CIAS
Vy	Best Rate Climb	79	CIAS
Vs0	Stall w/flaps	44	CIAS
Vs	Stall w/o flaps	50	CIAS

Best Glide (1700 lbs)	61	CIAS
Best Glide (Full Gross)	73	CIAS

Va	Max Abrupt Ctrl (1531 lbs) (Full Gross)	88 111	CIAS CIAS
Vno	Max Struct. Cruise	126	CIAS
Vne	Never Exceed	160	CIAS
Vfe	Flaps	103	CIAS

Vref Flaps	0-10	68 + ½ Gust	CIAS
Vref Flaps	25-40	63 + ½ Gust	CIAS

NORMAL TAKE OFF

Zero Flaps

Rotation	55	CIAS
Best Angle Climb	63	CIAS
Best Rate Climb	79	CIAS

25° Flaps

Short Field:	Rotate at 50 KIAS, then 63 KIAS
Soft Field:	Rotate as early as Possible, then Accelerate to 63 KIAS