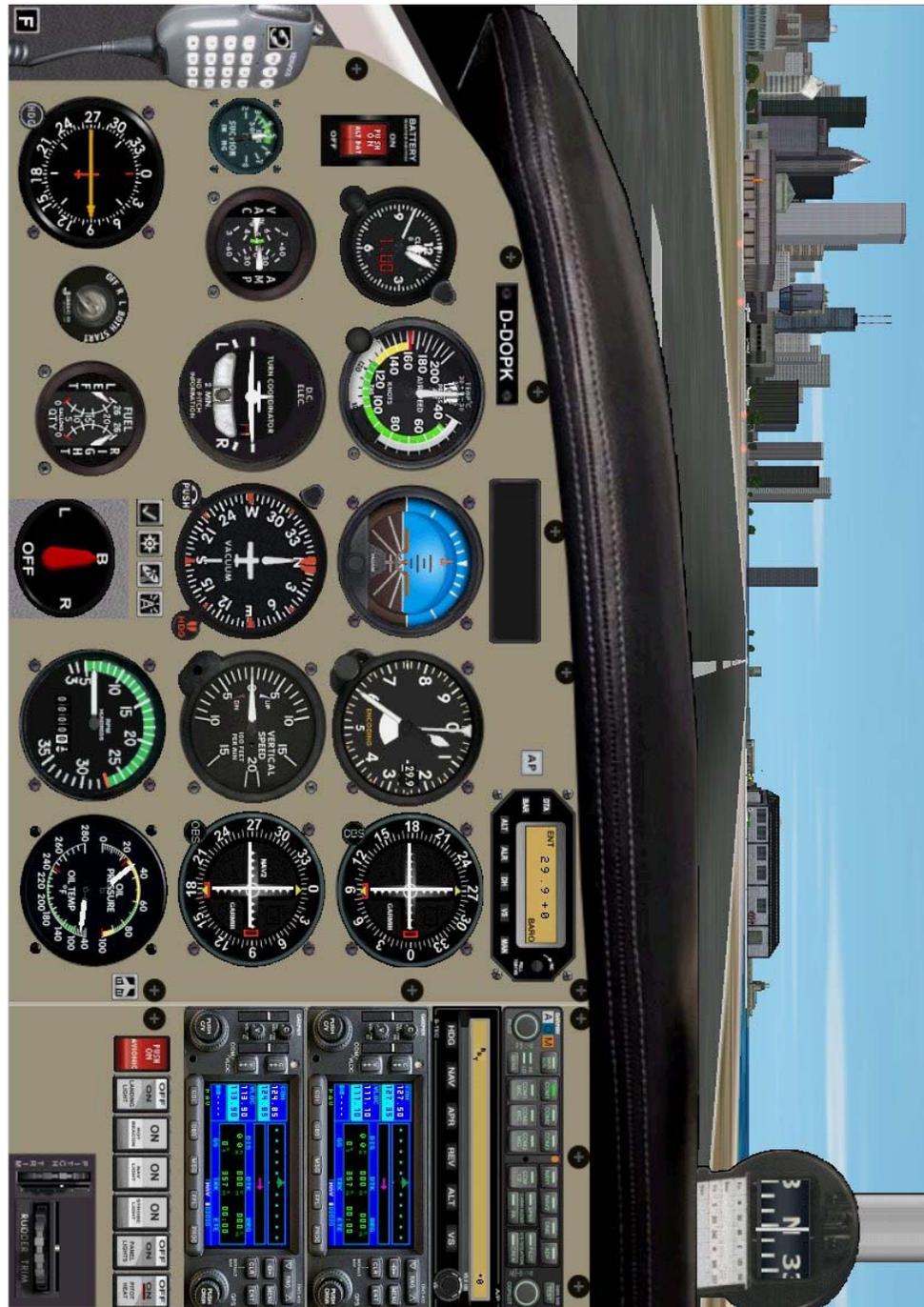


# Piper Warrior III PA-28-161

Microsoft Flightsimulator 2002

Aircraft and Panel : Günter Kraemer



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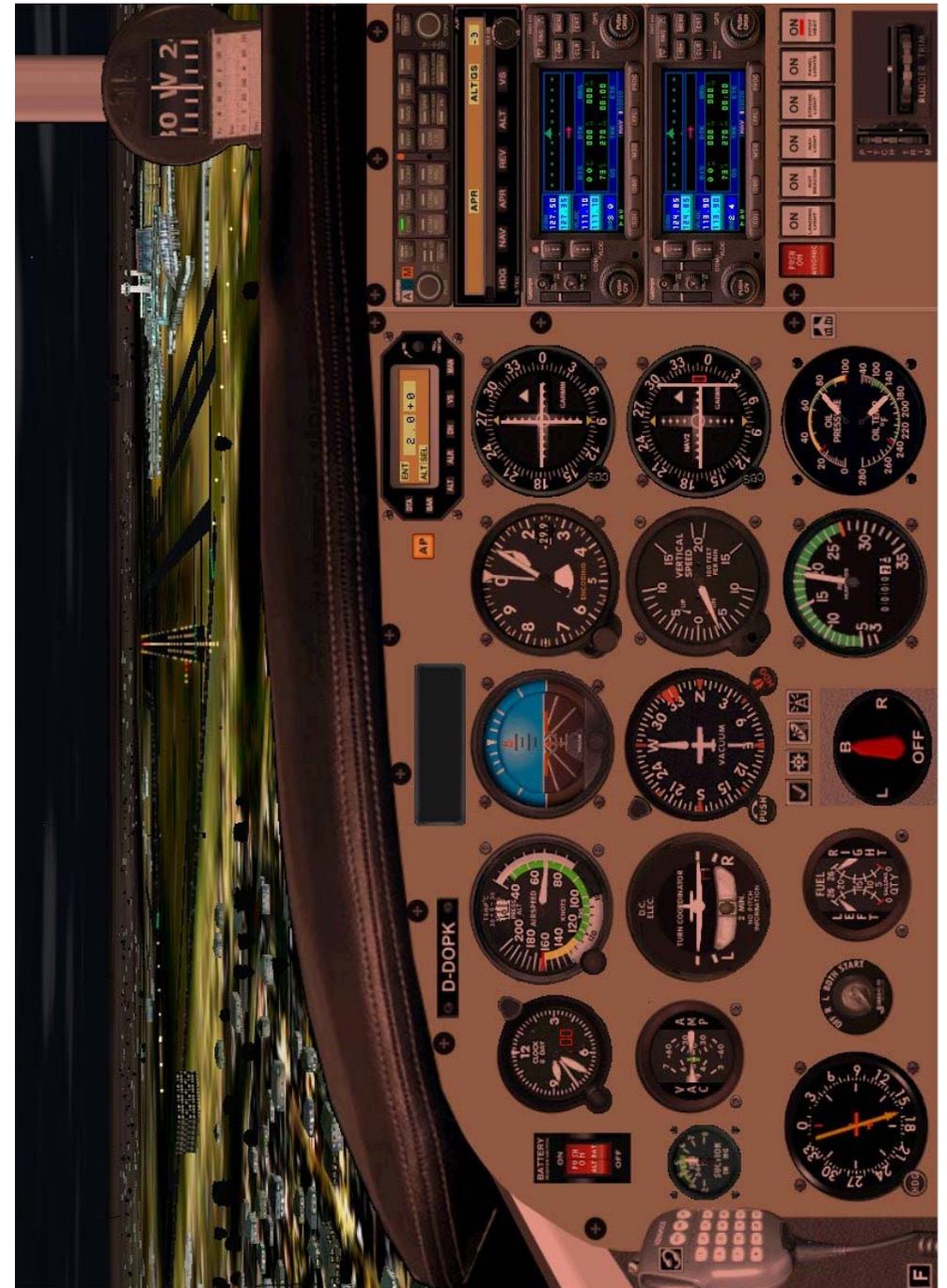
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## Pre-Start Checklist

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)
<b>Request Clearance</b>	
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
Carburator 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**

CHECK UP  
 ON  
 FREE AND CORRECT  
 SET

**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

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

**Climb-out Checklist**

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

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

**Cruise Checklist**

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

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**

	<b>On Ground</b>	<b>In Flight</b>
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