## NORTH AMERICAN F-86E/F SABRE PILOT'S CHECKLIST

IMPORTANT: CHECKLISTS HAVE BEEN SIMPLIFIED FOR USE IN FLIGHT SIMULATOR AND ARE NOT INTENDED FOR REAL AVIATION. PLEASE ALSO READ THE FLIGHT MANUAL AND OTHER REFERENCE MATERIALS.

1. FLIGHT PLANNING AND AIRPLANE STATUS	[ ] Pitot heater switch <b>ON, THEN OFF</b>
[ ] Weather. Check for all stages of flight and at alternate airports.	<ul><li>[ ] Landing and taxi lights switch OFF (check lights retracted)</li><li>[ ] Clock, accelerometer, and altimeter SET</li></ul>
[ ] Gross Weight CHECK Assure takeoff weight is under maxi-	Generator switch ON
mum gross, landing weight will be under 15,475 lbs, and	Position and fuselage lights switch <b>OFF</b>
center of gravity is always within limits.	[ ] Communication equipment switches AS DESIRED
[ ] Airplane serviced CHECK	Automatic pilot CHECK OPERATIONS, SET, OFF
[ ] Flight Plan. File with air-traffic control authority and check	Cockpit lights switch <b>OFF</b>
for en route NOTAMS.	[ ] Canopy emergency jettison handle IN
	[ ] Fuel quantity CHECK
2. PREFLIGHT - EXTERIOR INSPECTION	[ ] Warning lights, indicators and test systems CHECK
	[ ] Attitude indicator CHECK
[ ] Landing and taxi lights RETRACTED	Directional indicator against stand-by compass CHECK
[ ] Intake duct CLEAR (except nose screen installed)	[ ] Vertical velocity indicator CHECK, SET
[ ] Slats CHECK	[ ] Flight controls CHECK
[ ] Main gear wheels CHOCKED	[ ] Normal trim switch CHECK
[ ] External loads INSTALLATION AND MOUNTING	[ ] Radio compass CHECK
[ ] Position lights and wing tip CHECK	[ ] Interior and exterior lights CHECK
[ ] Pitot head UNCOVERED	[ ] Flashlight CHECK
[ ] Ailerons and flaps <b>CHECK</b>	-
[ ] Speed brakes CHECK	4. STARTING ENGINE
[ ] Tail-pipe cover <b>REMOVED</b>	
[ ] Tail cone and position lights CHECK	[ ] Parking brake handle <b>IN</b>
	[ ] External power CONNECTED
3. PREFLIGHT - INTERIOR CHECK	[FS: For power cart, set switch to <b>ON</b> ]
	[ ] Throttle <b>OFF</b>
[ ] Master armament switch <b>OFF</b>	[ ] Engine master switch <b>ON</b>
[ ] Throttle <b>OFF</b>	[ ] Battery-starter switch STARTER (momentarily), THEN BAT-
[ ] Landing gear handle <b>DOWN</b>	TERY (If there is no audible indication of engine rotation or if
[ ] Parking brake handle <b>IN</b>	tachometer fails to register within a few seconds, depress the
[ ] Speed brake switch <b>NEUTRAL</b> (HOLD)	stop-starter button immediately to avoid burning out the
[ ] Engine master switch <b>OFF</b>	starter) 3% rpm THROTTLE OUTBOARD FS: Since outboard
[ ] Emergency ignition switch <b>OFF</b>	movement of the stick cannot be accomplished with
[ ] Battery-starter switch <b>OFF</b> [FS2004 only: Set to BATTERY]	controllers or keyboard, it is done automatically if throttle is
[ ] External power CONNECTED	advanced from <b>OFF</b> towards <b>IDLE</b> (drag with mouse, or hit
[FS: For power cart, set switch to ON]	Shift-Ctrl-F3, or use mixture lever on game controller (so
[ ] Main instrument inverter switch <b>ON</b>	equipped). 6% rpm THROTTLE HALFWAY BETWEEN IDLE
[ ] Oxygen regulator <b>CHECK</b>	AND OFF Throttle ADJUST (for proper exhaust temperature)
[ ] Drop tank pressure shutoff valve <b>OFF</b>	(Exhaust temperature should peak between 550°C and 750°C)
[ ] Cockpit pressure control switch <b>AS DESIRED</b>	[ ] Oil pressure <b>CHECK</b>
[ ] Rudder trim switch <b>OFF (NEUTRAL)</b>	[ ] Engine instruments <b>CHECK</b>
[ ] Lateral trim switch NORMAL (NEUTRAL)	[ ] Drop tank pressure shutoff valve <b>ON</b> (drop tanks installed)
[ ] Longitudinal trim switch NORMAL GRIP CONT. (NEUTRAL)	<b>OFF</b> (drop tanks not installed)
[ ] Flight control switch NORMAL	[ ] Fuel transfer pump switch AS REQUIRED
[ ] Speed brake emergency lever NORMAL	[ ] External power <b>DISCONNECTED</b>
[ ] Wing flap lever UP	[FS: To remove power cart, set switch to <b>OFF</b> ]
[ ] Emergency fuel switch <b>OFF</b>	[ ] Command radio <b>ON</b>



5.	GROUND TESTS	8. TAKE-OFF
[]	Throttle IDLE Hydraulic pressure gage selector switch NORMAL Flight control switch RESET Flight control normal hydraulic system CHECK a. Flight control switch NORMAL b. Control stick MOVE AND VISUALLY CHECK (for proper control surface movement) c. Pressure 2900 TO 3200 PSI (after 5 seconds,	<ul> <li>[ ] Throttle TAKE-OFF RPM</li> <li>[ ] Wheel brakes RELEASE</li> <li>[ ] Nose wheel steering switch DEPRESS (to maintain directional control until rudder becomes effective above 50 Kts. IAS)</li> <li>[FS: Not simulated. Use rudder pedals only]</li> <li>[ ] Nose wheel lift-off (Vr) MAINTAIN NEAR-LEVEL ATTITUDE (until take-off speed attained) (Vr is approx. 5 Kts. less than V2)</li> <li>[ ] Take-off (V2) ASSUME NOSE-HIGH ATTITUDE (V2 for vari-</li> </ul>
[]	control stick not in motion)  f. Flight control switch RESET  Automatic return to normal hydraulic system CHECK  a. Flight control switch NORMAL	ous gross weights (normal take-off, airplane with slats): 105 Kts. IAS (15,000 lbs.), 115 Kts. IAS (18,000 lbs.), 125 Kts. IAS (20,000 lbs.). Refer to Flight Manual for cross-wind take-off)
	<ul> <li>b. Control stick MOVE RAPIDLY</li> <li>c. Alternate-on warning light OUT</li> <li>d. Hydraulic pressure gage selector switch NORMAL</li> <li>e. Pressure 2900 TO 3200 PSI</li> <li>Utility hydraulic system CHECK</li> <li>a. Hydraulic pressure gage selector switch UTILITY</li> <li>b. Speed brake switch OUT, IN, THEN NEUTRAL (HOLD)</li> <li>c. Pressure APPROXIMATELY 3000 PSI</li> <li>Loadmeter and voltmeter CHECK</li> </ul>	<ul> <li>9. AFTER TAKE-OFF AND CLIMB</li> <li>[ ] Landing gear handle UP (Vlo is 185 Kts. IAS)</li> <li>[ ] Wing flap lever UP (160 KNOTS IAS), THEN HOLD</li> <li>[ ] Horizontal tail TRIM AS REQUIRED</li> <li>[ ] Throttle LEVEL OFF, ACCELERATE TO BEST CLIMB SPEED (Refer to Flight Manual.)</li> <li>[ ] Oxygen regulator diluter lever NORMAL OXYGEN (100%, if carbon monoxoide suspected)</li> </ul>
6.	TAXIING	[ ] Drop tanks CHECK FEEDING [ ] IFF CHECK [ ] Altimeter SET 29.92 In. Hg. ABOVE FL 180
[]	Main gear wheel chocks <b>REMOVED</b> Parking brake handle <b>OUT</b> Throttle <b>ADVANCE</b> , <b>THEN RETURN TO IDLE</b> [FS: Adjust for 70-75% RPM.] Nose wheel steering switch <b>DEPRESS</b> (for directional control) [FS: Not simulated. Use rudder pedals only] Gyro instruments <b>CHECK</b>	<ul> <li>10. CRUISE</li> <li>[ ] Throttle ADJUST FOR CRUISE SPEED (Refer to Flight Manual)</li> <li>[ ] Fuel transfer pump switch AS DESIRED [FS: Set ON to burn fuel from Aft Fuselage Tank.]</li> <li>[ ] Engine instruments MONITOR</li> </ul>
7.	BEFORE TAKE-OFF	11. GLIDE AND AIRSTART
	Nose screen REMOVED Safety belt, shoulder harness TIGHTEN AND ADJUST Master armament switch OFF Trim for take-off ELEVATOR TRIM 2° UP RUDDER TRIM AND AILERON TRIM CENTERED Take-off trim indicator light CHECK ON Wing flap lever DOWN Canopy switch CLOSE Oxygen regulator diluter lever NORMAL OXYGEN (100%, if carbon monoxoide suspected) Take-off position CHECK Toe brakes HOLD Emergency fuel system CHECK a. Throttle 80% RPM b. Emergency fuel switch ON c. Throttle FULL OPEN; CHECK RPM	Flame-out landings should only be attempted by pilots who have satisfactorily completed simulated flame-out approaches in this airplane. If at any time during the flame-out approach, conditions do not appear ideal for successful completion of the landing, ejection should be accomplished. Eject no later than the "Low-Key" altitude.  [ ] Throttle OFF [ ] Establish glide 185 KNOTS IAS (For maximum glide distance, the optimum gliding speed is 185 Kts. IAS with gear and flaps up, speed brakes in, and no external load) [ ] Engine master switch CHECK ON [ ] Generator switch CHECK ON [ ] Battery-starter switch CHECK ON (BATTERY) [ ] Engine RPM for airstart CHECK WITHIN LIMITS (23% TO 34%) [FS: Engine windmilling is not simulated. Minimum airspeed needed for airstart is 185 Kts. IAS.]
[]	<ul> <li>d. Emergency fuel switch OFF</li> <li>e. Emergency fuel switch ON; CHECK RPM</li> <li>f. Emergency fuel switch OFF</li> <li>Throttle FULL OPEN</li> </ul>	<ul> <li>a. Throttle OFF</li> <li>b. Emergency ignition switch ON</li> <li>c. Emergency fuel switch ON</li> </ul>



[ ] Engine instruments **CHECK** 

(Do not turn on emergency fuel system unless main system has actually failed. Emergency system should be used, if fuel pressure remains low with throttle stick shifted outboard, ie. indicating fuel pump failure.)

- **d.** Throttle **OUTBOARD, THEN ADVANC**E (Advance smoothly to maintain exhaust temperature within limits)
- **e.** Exhaust temperature **CHECK** (for rise in temperature)
- f. Emergency ignition switch OFF (Ignition system may be damaged if left ON more than 3 minutes per start. If engine fails to start, and time and altitude permit, attempt further airstarts using procedures a to f)

## 12. DESCENT

[	]	IFF CHECK
[	]	Throttle IDLE (Descent at 0.80 true Mach number or 280 Kts.
		CAS, whichever is less.)
[	]	Speed brake switch OUT (OR AS REQUIRED)
[	]	Altimeter <b>RESET ON PASSING FL 180</b> (to local pressure)
1	3	3. PRE-TRAFFIC-PATTERN CHECK
[	]	Safety belt, shoulder harness TIGHTEN
[	]	Master armament switch <b>OFF</b>
[	]	Hydraulic pressure NORMAL
[	]	Oxygen regulator diluter lever NORMAL OXYGEN OR
		AS REQUIRED
[	]	Engine anti-ice and screen switch EXTEND, OR ANTI-ICE
		(if icing conditions anticipated)

## 14. TRAFFIC-PATTERN CHECK AND LANDING

[]	Speed brake switch <b>OUT</b>
[]	Gear handle DOWN, CHECK POSITION INDICATORS (VIe is
	185 Kts. IAS)
[]	Wing flap lever <b>DOWN</b> (Vfe is 185 Kts. IAS)
[]	Utility hydraulic pressure CHECK
[]	Downwind leg HOLD RECOMMENDED SPEED (170
	KNOTS IAS)
[]	Final approach HOLD RECOMMENDED SPEED (135 KNOTS IAS)
[]	Throttle IDLE (when landing ensured)
	Touchdown HOLD RECOMMENDED SPEED (120 KNOTS IAS)
[]	Nose wheel LOWER TO RUNWAY BEFORE APPLYING BRAKES
[]	Wing flap lever <b>UP</b>
[]	Brakes AS REQUIRED
[]	Speed brake switch IN (after clearing runway)
15	5. GO-AROUND
[]	Throttle FULL <b>OPEN</b>

[ ] Wing flap lever **UP** (160 KNOTS IAS), THEN HOLD [ ] Clear traffic **ESTABLISHED NORMAL CLIMB** 

16. AFTER LANDING
[ ] Nose wheel steering switch <b>DEPRESS (BELOW 50 KNOTS IAS)</b> (to maintain directional control) [FS: Not simulated. Use rudder pedals only]
[ ] Speed brake switch NEUTRAL (HOLD) [ ] Nose screen INSTALLED
17. STOPPING ENGINE
<ul> <li>[ ] Toe brakes HOLD</li> <li>[ ] Engine 65% TO 70% RPM (for 2 minutes)</li> <li>[ ] Throttle OFF</li> <li>[ ] Engine master switch OFF</li> </ul>
Speed brake switch OUT Battery-starter switch OFF
[ ] All switches except generator switch <b>OFF</b>
18. BEFORE LEAVING AIRPLANE
<ul> <li>Drop tank pressure shutoff valve OFF</li> <li>Main gear wheels CHOCKED</li> <li>Parking brake handle IN</li> <li>Canopy CLOSED</li> </ul>



[ ] Speed brake switch IN [ ] Gear handle UP