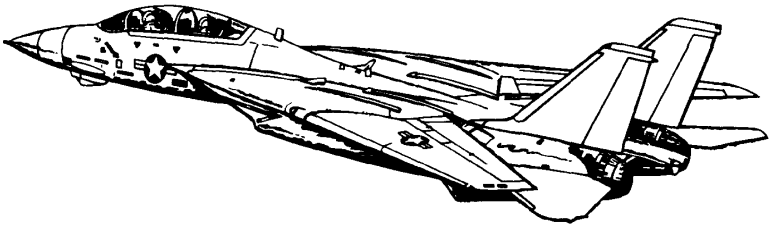
Pocket Checklist

F-14A/B AIRCRAFT

REV: 20210519



Procedures

Systems

AWG-9 Radar

TCS ALQ-100

LANTIRN

A/G Weapons

A/A Weapons

Contents

1 PROCEDURES

1.1 PILOT - PRE-START

1.	Parking Break	**ENGAGED**
2.	Ground Power	connected
3.	Compressed Air	connected
4.	ICS	**HOT MIC**
5.	TO RIO	*"Begin Start-Up"*
6.	ICS	**Comm Check**
7.	MASTER TEST Selector	(a) **LTS** • **Warning Lights** . . . . . checked • **Caution Lights** . . . . . checked • **Advisory Lights** . . . . . checked (b) **FIRE DET/EXT** • **L FIRE GO** . . . . . illuminated • **R FIRE GO** . . . . . illuminated (c) **INST** • **RPM** . . . . . 96% • **EGT** . . . . . 960 C • **FF** . . . . . 10500 pph • **AOA** . . . . . 18 ± 5 • **Wing Sweep** . . . . . 45 ± 2.5 • **FUEL QTY** . . . . . 2000 ± 200 • **Oxygen QTY** . . . . . 2 liters • **L&R FF lights** . . . . . illuminated (d) **OFF**
8.	Ejection Seat	Armed
9.	RIO	Canopy Closed
10.	Oxygen	**ON (FWD)**
11	Emergency Wing Sweep	**OVERSWEEP**

1.2 PILOT - ENGINE START

1.	**AIR SOURCE**	**OFF**
2.	**Hydraulics**	(a) **HYD TRANSFER PUMP** . . . **SHUTOFF** (b) **Emerg. Hyd.** . . . . . **AUTO (LOW)**
3.	**L&R MASTER GEN**	**NORM**
4.	**RIO**	*"Ready to Start"*
5.	**Right Engine Start-Up**	(a) **Engine Crank** . . . . . **R** (b) **R Eng N2** . . . . . 20% (c) **R Throttle** . . . . . **IDLE** (d) **TIT** . . . . . < 890 C during start (e) **R GEN CAUTION** . . . . . extinguished
6.	**Stabilized Parameters**	• **RPM** . . . . . 62-78% • **TIT** . . . . . approx 500 C • **Fuel Flow** . . . . . 950-1400 pph • **NOZ** . . . . . 5 (100%) • **Oil Pressure** . . . . . 25-35 psi • **Hyd Pressure** . . . . . 3000 psi
7.	**Left Engine Start-Up**	(a) **Engine Crank** . . . . . **L** (b) **L Eng N2** . . . . . 20% (c) **L Throttle** . . . . . **IDLE** (d) **TIT** . . . . . < 890 C during start (e) **L GEN Caution** . . . . . extinguished
8.	**Stabilized Parameters**	• **RPM** . . . . . 62-78% • **TIT** . . . . . approx 500 C • **Fuel Flow** . . . . . 950-1400 pph • **NOZ** . . . . . 5 (100%) • **Oil Pressure** . . . . . 25-35 psi • **Hyd Pressure** . . . . . 3000 psi
9.	**HYD TRANSFER PUMP**	**NORM**
10.	**HYD PRESSURE**	3000 psi
11.	**AIR SOURCE**	**BOTH ENG**
12.	**Ground Power**	disconnected
13.	**Compressed Air**	disconnected

1.3 PILOT - POST-START

1.	**TO RIO**	*"Both Engines Running"*
2.	**Displays Control Panel**	• **VDI** ..... **ON** • **HUD** ..... **ON** • **HSD** ..... **ON** • **HDS MODE** ..... **TID** (monitor INS)
3.	**RIO**	**Select Align Quality** • **INS GO NOW:** shortest but least precise alignment • **INS GO COARSE:** does not meet Launch Criteria for AIM-7 / AIM-54 • **INS GO MIN WPN LAUNCH:** allows AIM-7 / AIM-54 launch • **INS GO FINE** fine align (8 min)
4.	**ACM Panel**	• **GUN RATE** ..... as required • **SW COOL** ..... **OFF** • **MSL PREP** ..... **OFF** • **Missile MODE/STP** ..... **NORM**
5.	**Gun Rounds**	**Set**
6.	**ANTI-SKID SPOILER BK**	**OFF**
7.	**Emergency Wing Sweep**	(a) **Handle** ..... **AFT** (b) **Angle** ..... Verify 68 deg
8.	**AFCS Panel - SAS STAB AUG**	• **PITCH** ..... **ON** • **ROLL** ..... **ON** • **YAW** ..... **ON**
9.	**WING/EXT TRANS**	**AUTO**
10.	**UHF 1 Function Selector**	**BOTH**
11.	**TACAN Function Selector**	**T/R**
12.	**ARA-63 ICLS RECEIVER**	**ON**

13.	**Radar Altimeter**	(a) **Control Knob** one click CW to turn on (b) **Display** . . . . . 6000 ft (warm up) (c) **Display** . . . . . 0 ft (ready)
14.	**Standby ADI**	erect at least 2 min before T/O
15.	**KY-28 Crypt. Key**	**Set** (refer to GROUND SETTINGS kb)
16.	**RIO**	set D/L frequency
17.	**Lights**	As desired

1.4 RIO - PRE-START

1.	**Oxygen**	**ON (FWD)**
2.	**PILOT**	• **Ground Power** ..... connected • **Compressed Air** ..... connected
3.	**ICS**	Comm Check
4.	**Lights**	As required
5.	**LTS Test**	Coordinate with Pilot
6.	**Ejection Seats**	**ARMED**
7.	**Canopy**	**CLOSED**
8.	**TO PILOT**	*"Ready to Start"*

1.5 RIO - POST-START - SHORE

1.	**PILOT**	• **Engines** .....started • **AIR SOURCE** ..... BOTH ENG
2.	**INS STARTUP**	(a) **LIQUID COOLING** .....**ON (FWD)** (b) **WCS Switch** ..... **STANDBY** (c) **IR/TV Power** .....**STBY/IR/TV** (d) **TID/DDD** ..... illuminated after 40 s
3.	**Kneeboard**	Retrieve Coordinates, Elevation, Magnetic Variation from GROUND SETTINGS Page
WARNING Input Coords **BEFORE** selecting **GND ALIGN** if using ASH		
4.	**Start INS Align**	(a) **Nav Mode** ..... **GND ALIGN** (b) **CAP** • **Category** .....**NAV** • **MESSAGE** .....**OWN AC** (c) **Keyboard** • **CLEAR**, **LAT**, latitude, **ENTER** • **LONG**, longitude, **ENTER** • **ALT**, altitude, **ENTER** (d) **CAP MESSAGE** .....**MAG HDG VAR** (e) **Keyboard** .....**HDG**, mag var, **ENTER** (f) **Align Progress** .....Monitor
5.	**U/VHF Mode**	**T/R G**

6.	**Datalink**	(a) **Kneeboard** ..... TACTICAL DL (b) **DL Power** ..... **ON (FWD)** (c) **DL Mode** ..... **TAC (AFT)** (d) **DL Freq.** ..... **Set**
7.	**TACAN**	**T/R**
8.	**RWR Panel**	(a) **Display Type** ..... **NORM** (b) **PWR** ..... **ON** (c) **TEST** ..... **SPL** (d) **MODE** ..... **LMT**
9.	**DECM**	**STBY**, then **ACT**
10.	**IFF**	(a) **MASTER** ..... **STBY** (b) **CODE** ..... as required
11.	**Altimeter**	Reset
12.	**CAP**	Enter Data (WP, FP, *etc.*)
13.	**Displays**	• **DDD** ..... Set • **TID** ..... Set • **Multiple Display Indicator** ..... Set
14.	**Hand Control Panel**	Set
15.	**AN/ALE-39**	Set (as required) • **AUTO (CHAFF)/MAN** • **MAN**
16.	**Flare Mode**	**PILOT**
17.	**Complete INS Align**	• **Duration Full Fine** ..... 8 min • **Duration ASH** ..... much faster (a) **Align Complete** .... Caret → Diamond (b) **NAV Mode** ..... **INS NAV**
18.	**Standby ADI**	Erect at least 2 min before T/O
19.	**TO PILOT**	*"Ready to Taxi"*
Once Airborne		
20.	**IR/TV Power**	**ON**
21.	**WCS Switch**	**WCS XMT**

1.6 RIO - POST-START - CARRIER

1.	**PILOT**	• **Engines** ..... started • **AIR SOURCE** ..... BOTH ENG
2.	**INS STARTUP**	(a) **LIQUID COOLING** ..... **ON (FWD)** (b) **WCS Switch** ..... **STANDBY** (c) **IR/TV Power** ..... **STBY/IR/TV** (d) **TID/DDD** ..... illuminated after 40 s
3.	**Datalink**	(a) **Kneeboard** ..... TACTICAL DL (b) **DL Power** ..... **ON (FWD)**
4.	**Start INS Align**	(a) **DL FREQ** ..... Set (b) **DL Mode** ..... **CAINS/WAYPT** (c) **Nav Mode** ..... **CVA**
5.	**U/VHF Mode**	**T/R G**
6.	**TACAN**	**T/R**
7.	**RWR Panel**	(a) **Display Type** ..... **NORM** (b) **PWR** ..... **ON** (c) **TEST** ..... **SPL** (d) **MODE** ..... **LMT**
8.	**DECM**	**STBY**, then **ACT**
9.	**IFF**	(a) **MASTER** ..... **STBY** (b) **CODE** ..... as required
10.	**Altimeter**	Reset
11.	**CAP**	Enter Data (WP, FP, *etc.*)
12.	**Displays**	• **DDD** ..... Set • **TID** ..... Set • **Multiple Display Indicator** ..... Set
13.	**Hand Control Panel**	Set
14.	**AN/ALE-39**	Set (as required) • **AUTO (CHAFF)/MAN** • **MAN**
15.	**Flare Mode**	**PILOT**
16.	**Complete INS Align**	• **Duration Full Fine** ..... 9 min • **Duration ASH** ..... much faster (a) **Align Complete** .... Caret → Diamond (b) **NAV Mode** ..... **INS NAV**

17.	**Datalink**	(a) **DL Mode** ..... **TAC (AFT)** (b) **DL Freq.** ..... **Set**
18.	**Standby ADI**	Erect at least 2 min before T/O
19.	**TO PILOT**	*"Ready to Taxi"*
Once Airborne		
20.	**IR/TV Power**	**ON**
21.	**WCS Switch**	**WCS XMT**

1.7 PRE-TAXI

1.	**ANTI-SKID SPOILER BK**	**OFF**
2.	**HOOK BYPASS**	As Required
3.	**Nose Strut**	**RETRACTED**
4.	**HUD MODE**	**TO**
5.	**Parking Brake**	**Released (IN)**
6.	**NWS**	**ENGAGED**
7.	**Path**	verify clear

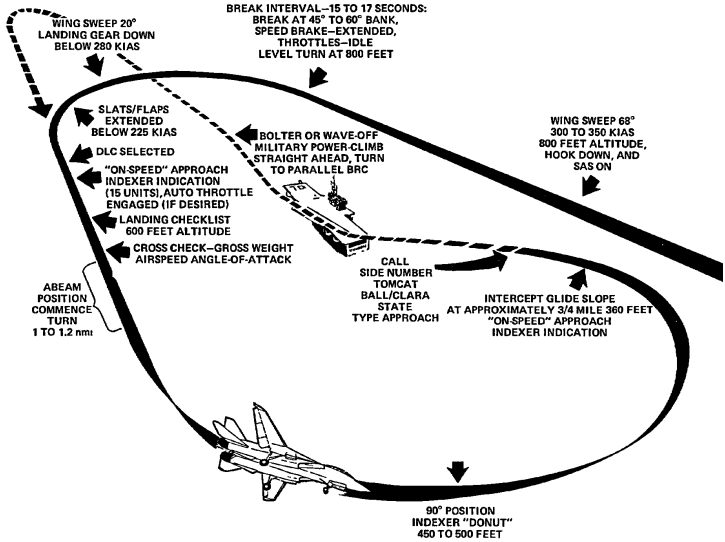
1.8 TAKEOFF - SHORE

After Lining Up On Runway		
1.	**Wing Sweep**	(a) **EM WING SWEEP** . . . . . **FWD**, then **IN** (b) **MASTER RESET** . . . . . **PRESS** (c) **Wings** . . . . . Verify thumb controller (d) **WING SWEEP** . . . . . **AUTO** (e) **Wings** . . . . . Verify at 20 deg
2.	**ANTI SKID SPOILER BK**	**BOTH (UP)**
3.	**FLAPS**	**UP**
4.	**Trim**	0 deg
5.	**NWS**	**DISENGAGED**
6.	**Takeoff**	(a) **Throttle** . . . . . **MIL** (90% RPM) (b) **Stick** . . . . . **Back** at 130 KIAS (c) **Rotation** . . . . . approx 140 KIAS (d) **GEAR** . . . . . **UP** < 250 KIAS

1.9 TAKEOFF - CARRIER

	Lineup	• Wait behind JBD until Catapult is clear • Follow Taxi Directors Instructions to line up on Catapult
1.	**Wing Sweep**	(a) **EM WING SWEEP** ..... **FWD**, then **IN** (b) **MASTER RESET** ..... **PRESS** (c) **Wings** ..... Verify thumb controller (d) **WING SWEEP** ..... **AUTO** (e) **Wings** ..... Verify at 20 deg
2.	**FLAPS**	**DOWN**
3.	**Launch Bar Preparation**	(a) **Nose Strut** .... **KNEEL** when directed (b) **Throttle** ..... **UP** when directed (c) **Taxi** ..... launch bar into shuttle (d) **Throttle** ..... **IDLE** when directed
4.	**Trim**	2-3 deg nose up
5.	**Speed Brakes**	**IN**
6.	**Final Checks**	(a) **Throttle** ..... **MIL** when directed (b) **Control Wipeout** • Stick Full Forward • Stick Full Aft • Stick Full Left • Stick Full Right • Rudder Full Left • Rudder Full Right (c) **Eng. Inst.** ..... **Checked** (d) **Caution/Warnings** ..... **None**
7.	**Catapult Shot**	(a) **Salute** ..... **CAT SHOT** (b) **Gear** ..... **UP** < 250 KIAS (c) **Flaps** ..... **UP** < 225 KIAS
8.	**Clearing Turn**	

1.10 LANDING - OVERHEAD PATTERN



1.	**Initial Approach**	• **WING SWEEP** ..... **68 deg** • **HOOK** ..... **DOWN** • **SAS** ..... **ON** • **HUD** ..... **LDG** • **Airspeed** ..... **300-350 KIAS** • **Altitude** ..... **800 ft**
2.	**Initial Break**	• **Break Interval** ..... **15-17 s** • **BANK** ..... **45-60 deg** • **SPEED BRAKE** ..... **EXTEND** • **Throttle** ..... **IDLE** • **G** ..... **3-4 G** • **Altitude** ..... **800 ft**
3.	**Break Turn**	• **Wing Sweep** ..... **AUTO** < 280 KIAS • **Landing Gear** ..... **DOWN** < 280 KIAS • **FLAPS** ..... **DOWN** < 225 KIAS
4.	**Downwind**	• **DLC** ..... **Selected** once flaps out • **AOA** ..... **ON-SPEED** • **LANDING CHECKLIST** • **Altitude** ..... descend to **600 ft**

5.	**Final Turn**	**180 Deg Position** • **Abeam Pos.** . . . . . **1-1.2 nmi** **90 Deg Position** • **AOA** . . . . . **DONUT** • **Altitude** . . . . . **400-500 ft**
6.	**Intercept Glideslope**	• **Distance** . . . . . **3/4 Mile** • **Altitude** . . . . . **360 ft** • **AOA** . . . . . **ON-SPEED**

1.11 CROSS-BLEED RESTART

With one engine running if spooldown fails

1. **Non-Running Throttle** ..... OFF
2. **FUEL SHUT OFF** ..... check
3. **Running throttle** ..... 80%+
4. **BACK UP IGNITION** ..... ON
5. **ENG CRANK** .... non-running eng
6. **Non-Running Throttle** ..... IDLE

If no start occurs

7. **Non-Running Throttle** ..... OFF then IDLE

If still no start

8. **ENG MODE** ..... SEC
9. **Non-Running Throttle** ..... OFF then IDLE

After successfull airstart

10. **BACK UP IGNITION** ..... OFF
11. **ENG MODE** ..... PRI if possible

1.12 WINDMILL RESTART

1. **Airspeed** ..... >450 kts
2. **Throttle** ..... IDLE or above
3. **BACK UP IGNITION** ..... ON

If no relight occurs

4. **Throttle** ..... OFF then IDLE

If still no relight

5. **ENG MODE** ..... SEC
6. **Throttle** ..... OFF then IDLE

After successful airstart

7. **BACK UP IGNITION** ..... OFF
8. **ENG MODE** ..... PRI

1.13 AIRSTART - SPOOLDOWN

Immediately after engine loss before significant spooldown

1.	**Throttle**	**IDLE** or above
2.	**Throttle**	If no relight occurs **OFF** then **IDLE**
3.	**ENG Mode Select**	If still no relight occurs, **SEC**
4.	**Throttle**	If no start after mode switch **OFF** then **IDLE**
5.	**ENG MODE SELECT**	After successful airstart in SEC **PRI** if possible

2 SYSTEMS

2.6 RWR THREAT SYMBOLOGY

SHIPS	
AB	Arleigh Burke
AK	Admiral Kuznetsov
GR	Grisha 5 (Albatros)
HP	Oliver Hazard Perry
J2	Type 054A Frigate, “Jiangkai II class"
KK	Krivak 3 (Rezky)
KV	Kirov (Pyotr Velikiy)
L1	Type 052B Destroyer, “Luyang I class"
L2	Type 052C Destroyer, “Luyang II class"
N	*Ship with Nav Radar*
NE	Neustrashimy
NZ	Nimitz (Vinson, Stennis)
SV	Slava (Moscow)
TC	Ticonderoga
TT	Tarantul 3 (Molniya)
TW	Tarawa
YU	Type 071 Amphibious Transport Dock, “Yuzhao class"
AIRCRAFT	
14	F-14A/B
15	F-15C/E
16	F-16C
17	JF-17
18	F/A-18C
19	MiG-19

21	MiG-21bis
23	MiG-23MLD
24	Su-24M/MR
25	MiG-25PD
29	MiG-29A/G/S Su-27 Su-33 J-11A
30	Su-30
31	MiG-31
34	Su-34
37	AJS-37
39	Su-25TM
50	A-50
52	B-52
AN	AN-26B AN-30M
AP	AH-64D
B1	B-1B
BE	Tu-95 Tu-142M
BF	Tu-22M3
BJ	Tu-160
E2	E-2D
E3	E-3C
F4	F-4E
F5	F-5E
HX	Ka-27
IL	IL-76MD IL-78M
KC	KC-135
KJ	KJ-2000
M2	Mirage 2000-C Mirage 2000-5
S3	S-3B
SH	SH-60B
TO	Tornado
TR	C-130 C-17A

AIR DEFENSE

2	S-75 TR SNR (SA-2) “Fan Song"
3	S-125 TR SNR-125 (SA-3) “Low Blow"
6	Kub SA-6
7	HQ-7 TR
8	OSA (SA-8)
10	S-300PS 30N6 TR (SA-10)
11	Buk (SA-11)
12	S-300V
15	Tor 9A331 (SA-15)
19	Tunguska 2C6M (SA-19)
A	Gepard M-163 Vulcan ZSU-23-4 Shilka
BB	S-300PS 64H6E SR (SA-10/Big Bird)
BF	Rapier Blindfire TR
CS	S-300PS 5N66M SR (SA-10/Clam Shell)
DE	Sborka (Dog Ear)
FF	S-125 P-19 SR (SA-3/Flat Face)
GR	Roland SR

HA	Hawk SR
HK	Hawk TR
HQ	HQ-7 SR
PT	Patriot
RO	Roland
RP	Rapier SR
S	1L13 55G6 EWR
SD	Buk TR (SA-11/Snow Drift)
SN	PRW-11 (Side Net)
	MISSILES
M	AIM-54 AIM-120 MICA-EM R-37 R-77 SD-10
	ATC
T	Airport ATC Radar

3 AWG-9 RADAR

3.1 TID SYMBOLOGY

GENERAL	
Center Dot	
Own AC	
TID Cursor	
TWS Steering Centroid	
ONBOARD SENSORS	
Unknown	
Hostile	
Friend	
Angle-Tracked Radar Target	
Angle-Tracked Radar Target with Altitude Difference Ranging	
TCS-Angle Tracked Target	
TCS-Angle Tracked Target with Altitude Difference Ranging	
D/L TARGETS	
Unknown	
Hostile	
Friendly	

MANUAL REF POINTS	
Home base	
Waypoint	
Defended Point	
Fixed Point	
Hostile Area	
Surface Target	
IP	
D/L REF POINTS	
Home Base	
Waypoint	
Data Link Fixed Point	
Surface Target	
POS SYMB MODIFIERS	
Mandatory Attack	
Data Link Destroy	
Do Not Attack	
Multiple Targets	
Data Link Challenge	
Track Extrapolated	

Altitude Numerics	
Firing Order Numerics	
Time-to-Impact (TTI)	
Velocity Vector	
Launch Zone Vectors	
Jamming Strobe	
Radar Antenna Scan Pattern Azimuth Limits	
Data Link Jamming Strobe	
Data Link Pointer	
Data Link Priority Kill	
ATTACK DISPLAY SYMB	
Artificial Horizon	
Steering Guidance Symbol	
Allowable Steering Error Circle	
Breakaway Indication	

4 TCS/ALQ-100

5 LANTIRN

6 A/G WEAPONS

7 A/A WEAPONS