## Pilot's Checklist



JG1\_Britchot 2/22/2018

### NORMAL PROCEDURES

	Power-up	
1.	Aircraft Armament COFIGUR	E/VERIFY
2.	PO-750 No.1 Current Converter	ON
3.	PO-750 No.2 Current Converter	ON
4.	Battery Heating	ON
5.	DC Battery	ON
6.	Voltage (≥24.5V)	_ VERIFY
7.		
8.	Fire Extinguisher	ON
	Radio	
10.	SARPP-12 "Black Box"	ON
	Navigation Lights	
	Engine Start	
1.	Fuel Pump 1st Tank Group	ON
	Fuel Pump 3 <sup>rd</sup> Tank Group	
3.	Fuel Pump Drain Tank	
4.		
5.	ThrottleUNLOCK/O	
6.	Engine Start State ENGIN	
	Engine StartPRE	
8.	"Engine Start Up" Lamp Off	Verify
9.	Throttle	IDLE
10.	Low Pressure Compressor (~35%)	Verify
11.	High Pressure Compressor (~50%)	Verify
	Pre-Taxi	
1.	Gyros: NPP, SAU, Radar, and KPP	ON
2.	Gyros: DA-200, NPP, SAU, and Radar	ON
3.	AC Generator	ON
4.	SPRD Jettison Switch	ON
5.	SPRD Power Switch	ON
6.	SPRD Jettison Cover	_AS REQ
7.		
8.	Radio Alt and Marker	ON
9.	RSBN	
10.	KPP	ON
11.	NPP	ON
	SAII	ON

13.	SAU/Pitch	ON	
	Trimmer		
	Emergency Hydraulic Pumps		
	Nosecone and Air Bleed Doors A		
	SPO RWR		
	SOD		
	SOD Channel		
	NPP Adjust		
	Canopy		
	Canopy Seal		
	Airbrakes		
	Flaps		
	Trim		
	Controls		
	Navigation Instruments		
	Altimeter		
	Primary and Secondary Pitot He		
	Weapons Systems Initia	lization	
1.	RP-22 Radar Main Mode	Standby	
2.	Missile Controller Power	AS REQ	
3.	Pylon 1-2 Power	AS REQ	
4.	Pylon 3-4 Power	AS REQ	
5.	Gun Sight Power	ON	
6.	Gun Camera Power	AS REQ	
7.	SRZO-2 "IFF"	ON	
8.	SRZO-2 "IFF"	SET	
9.	ASP-PFD Pipper	AS REQ	
10.	ASP-PFD Fixed Net	AS REQ	
Taxi			
1.	Taxi Light	AS REQ	
2.	Nose Gear Brake	OFF	
3.	Brake Pressure (≥8kp/cm²)	VERIFY	
	Throttle		
	Brakes		
	Takeoff		
1	Landing Light	ΔS RFO	

2.	Nose Gear BrakeON		Landing	
3.	BrakesAPPLY		_	
4.	Brake Pressure (≥8kp/cm²) VERIFY	1.	Landing Light (≤700km/h)	AS REQ
5.	ThrottleFULL MILITARY POWER	2.	Landing Gear (≤500km/h)	DOWN
6.	Engine Oil Pressure (≥3kp/cm²) VERIFY	3.	Flaps (≤500km/h)	TAKEOFF
7.	Hydro-pressure (≥170kp/cm²) VERIFY	4.	Flaps (≤380km/h)	LAND
8.	Warning Lights CHECK	5.	Approach (360-340km/h)	PERFORM
9.	EGT (≥600°C) VERIFY	6.	Flare (<340km/h)	PERFORM
	Afterburner ENGAGE	7.	Drag Chute (<320km/h)	DEPLOY
11.	"Nozzle Open" Lamp VERIFY	8.	Brakes	AS REQ
12.	"Emergency Afterburner Engaged" AS REQ	9.	Drag Chute (<30km/h)	JETTISON
13.	Brakes RELEASE	10	. Nose Gear Brake	OFF
	Rotate (250-300km/h) +4/5° PITCH	11	. Flaps	RETRACT
	Liftoff (360-380km/h)+10° PITCH			
16.	Landing Gear (≥10m)UP		Shutdown	
17.	Landing/Taxi Light (≤700km/h)RETRACT			
18.	Flaps (≥100m)UP		Landing/Taxi Light	
	Climb+15° PITCH	2.		
20.	Afterburner (≥600m and ≥600km/h) AS REQ	3.	•	
21.	Landing Gear Indicator Up VERIFY	4.	Switches	OFF
22.	Landing Gear NEUTRAL		Fence In	
	Intercept Regime (Full Reheat)	1.	Navigation Lights	OFF
4	Climb (OFOLm /h TAS)	2.		
1.		3.		
2.	Level off (10,000m)PERFORM	4.		
3.	Accelerate to 1,200km/h IASPERFORM	5.	Gsh-23 Gun Power	
4.	Climb (1,200km/h IAS to 1.9M)PERFORM		Gsh-23 Gun Load	
5.	Continue Climb (1.9M) AS REQ			
6.	Zoom Climb (1.7-1.75M) AS REQ		Fence Out	
	Attack AS REQ			
8.	RTB (11,000m @ 510km/h IAS)PERFORM	1.	Navigation Lights	AS REQ
	Intercent Regime (Combined)	2.	IR/SARH Master Arm	OFF
	Intercept Regime (Combined)	3.	Gsh-23 Gun Power	OFF
	Afterburner (≥600m and ≥600km/h)OFF		Air-to-Air Guns	<b>;</b>
	Climb (850-870km/h TAS)PERFORM			
	Level off (9,500- 10,000m) PERFORM	1.	ASP Master Mode	AIR (UP)
	Cruise to Target (530km/h IAS)PERFORM	2.	Gun Ready Light Illuminated	VERIFY
	Climb IAW Full Reheat Regime AS REQ	3.	Gsh-23 Gun Load/Reload	AS REQ
	Attack AS REQ	4.	ASP-PFD Guns/Rockets	GUNS (UP)
15.	RTB (11,000m @ 510km/h IAS)PERFORM	5.	ASP-PFD Firing/Bombing	FIRING (UP)
		6.	ASP-PFD Auto/Manual	AUTO (UP)
		7.	ASP-PFD Target Size	SELECT

#### **Air-to-Air Missiles**

1.	ASP Master Mode	AIR (UP)
2.	AA Missile Type	AS REQ
3.	Pylon and Weapon Type _	SELECT
4.	ASP-PFD Guns/Rockets	_ ROCKETS (DOWN)
5.	ASP-PFD Firing/Bombing _	FIRING (UP)
6.	ASP-PFD Auto/Manual	AUTO (UP)
7.	ASP-PFD Target Size	SELECT

#### **Air-to-Ground Rockets**

1.	ASP Master Mode	_ GROUND (DOWN)
2.	Pylon and Weapon Type	SELECT
3.	ASP-PFD Guns/Rockets	_ ROCKETS (DOWN)
4.	ASP-PFD Firing/Bombing _	FIRING (UP)
5.	ASP-PFD Auto/Manual	AUTO (UP)
6.	ASP-PFD Target Size	SELECT

#### **Air-to-Ground Bombs**

1.	ASP Master Mode	GROUND (DOWN)
2.	ASP-PFD Guns/Rockets _	ROCKETS (DOWN)
3.	ASP-PFD Firing/Bombing	_ BOMBING (DOWN)
4.	ASP-PFD Auto/Manual	AUTO (UP)
5.	ASP-PFD Target Size	SELECT

Engine start up (RED)	Dispenser fuel tank (RED)
	(means no fuel pressure or
	about 80 liters remaining(
Afterburner engaged	Emergency afterburner
(GREEN)	engaged (GREEN)
DC generator not	AC generator not
operational (RED)	operational (RED)
Engine compartment in fire	Nozzle open (GREEN)
(RED)	
Monitor buster hydro	Monitor main hydro
system pressure (AMBER)	system pressure (AMBER)

Ventral fuel tank empty (GREEN)  1st fuel tanks group empty (GREEN)	
3 <sup>rd</sup> fuel tanks group empty (GREEN)	
<u> </u>	

Marker (RED)

(on when over the one of landing NDBs). Will blink and beep marker Morse code for about three seconds.

Cone out (GREEN)

Indicates cone is operational. As a general rule, cone should be in only when landing gear is extracted.

Tail for landing (GREEN)

Indicates ARU system is set-up for low speed tail movements (max movement). If this signal is ON and you have IAS >450KM/h, your ARU system is broken.

Trimmer neutral (GREEN)

Indicates trimmer is in neutral position.

Rockets on pylo		Ventral fuel tank
3 in zero positio (empty) (GREEN	' ' '	connected (GREEN)
Rockets on pylo 1 in zero positio (empty) (GREEN	n Pylon 1 inner n (GREEN)	Pylon 2 inner (GREEN)
Rockets on pylo 2 in zero positio (empty) (GREEN	n (GREEN)	Pylon 4 outer (GREEN)
Rockets on pylo 4 in zero positio (empty) (GREEN	n (GREEN)	JATO rocket right (GREEN)

#### **Engine Relight**

NOTE: Engine relight is ensured: at altitudes of 8000 to 10.000 m, from airspeed of 550 km/h up to Mach numbers of 0.9 M; at altitudes below 8000 m, from airspeed of 450 km/h up to Mach numbers of 0.9 M.

1.	Throttle Lever	SHUT-OFF
2.	Air Relight Circuit Breaker	rON
When LP	Rotor Speed ≥30%	
3.	Throttle Lever	ON AND ADVANCE

### I. Air Relight Circuit Breaker \_\_\_\_\_ OFF

#### Repeat\_\_\_\_\_ AS REQ

#### **Compressor Surge**

1.	Anti-Surge Shutters	MANUAL (DOWN)
2.	Afterburner	OFF
3.	Airspeed	REDUCE
Wh	en surge ceases:	
4.	Anti-Surge Shutters	AUTO (UP)

5. Throttle Lever \_\_\_\_\_ AS REC