

Cockpit positions	LF - Left Fore	CL - Center Left	RF - Right Fore
	LM - Left Middle	C - Center	RM - Right Middle
	LA - Left Aft	CR - Center Right	RA - Right Aft



Takeoff	Rotate	250 km/h	Landing	Gear / Flaps	500-480 km/h
	Clean/Loaded	360/380 km/h		Ground	270 km/h
	Climb	360 km/h		Drag chute	250 km/h

BEFORE START

- EMER BRAKE lever (CL)SET
- PO-750 Inverter #1 switch (RM)ON
- PO-750 Inverter #2 switch (RM)ON
- BATTERY HEAT switch (RM).....ON
- BATTERY GROUND PWR switch (RM).....ON
- Battery voltage ≥ 24.5V (C)CHECK

Request ground power if low battery voltage

- DC GEN switch (RM)ON
- AC GEN switch (RM).....ON
- No1 / No3 / DISP.TK FUEL PUMP switches (RM)ON
- RADIO switch (RM)ON
- Radio (RF).....SET & TUNED

ENGINE START

- FIRE EXT switch (LM)ON
- ENG APU switch (LM).....ON
- Engine Stop/Lock lever (LM).....UNLOCK
- ThrottleAdvance to MIN
- Starter Mode switch (LM)NORMAL START / As req.

ENGINE STARTER button (LM).....PRESS & HOLD 4”

Wait until ENGINE START advisory light extinguished

POST-START

- GYRO #1 FDS AP RDR SIGNAL switch (RM).....ON
- GYRO #2 FDS DA-200 RDR AP SIGNAL switch (RM).....ON
- CONE switch (RM)ON
- PUMP UNIT switch (RM)ON
- TRIM SYSTEM switch (RM)ON
- ARC switch (RM).....ON
- RAD ALT switch (RM).....ON
- RSBN switch (RM)ON
- GYRO / AUX GYRO switch (RM)ON
- FDS switch (RM)ON
- AP switch (RM)ON
- AP PITCH switch (RM).....ON
- FDS button (C).....PRESS & HOLD 5”
- Weapons & Sight switches (RM).....As req.
- SRZO switch (IFF, RM)ON
- SRZO-2 Code (IFF, RM).....SET / As req.
- ATC switch (RM)ON

POST-START (CONTINUED)

- WAVES switch (RF)As req.
- TYP.81 switch (IFF, RF)ON
- RWR switch (RF).....ON
- RADAR (RF)STBY
- CANOPY (LF).....CLOSE, LOCK & SEAL
- Gear handle fixator (LF).....UNLOCKED
- PITOT selector handle (CR)MAIN
- PITOT, CLK. & MIRROR HEAT (C)ON
- EMER PITOT (C).....ON
- If connected GROUND CREW > EXT. POWER.....DISCONNECT

TAXI

- LANDING / TAXI Light switch (LF).....TAXI
- NOSEWHEEL BRAKE lever (CL)OFF (vertical)
- Air Pressure ≥ 10 kg/cm³ (RF)CHECK
- EMER BRAKE lever (CL)RELEASE

BEFORE TAKEOFF

- LANDING / TAXI Light switch (LF)As req.
- NAVL switch (Navigation lights, RM).....As req.
- Flaps.....Set 25° (TAKEOFF)
- Elevator Trim.....Set Neutral
- NOSEWHEEL BRAKE lever (CL).....ON (horizontal)
- SAU Modes (Autopilot) (LF)CHECK OFF
- GEAR HANDLE FIXATOR (LF).....CHECK UNLOCKED

TAKEOFF

- Wheel Brakes.....HOLD
- ThrottleAdvance to FULL
- Wheel Brakes.....RELEASE
- At 250 km/hROTATE (5° UP or 10° AoA)
- At 350-360 km/h.....LIFT OFF

AFTER TAKEOFF

- > 10m GearUP then NEUTRAL
- > 100m Flaps.....UP
- LANDING / TAXI Light switch (LF)OFF
- SAU Modes (Autopilot).....STABILLIZE / As des.
- Initial climb speed360-380 km/h | 15° UP

VISUAL APPROACH & LANDING

ArmamentSAFE

NAVL switch (Navigation lights, RM)BRIGHT / As req.

LANDING / TAXI Light switch (LF)LANDING

NOSEWHEEL BRAKE lever (CL)ON (horizontal)

SAU Modes (Autopilot)STABILLIZE / As des.

Descent speed600-700 km/h & 10m/s

Pattern altitude500m AGL or As req.

Initial approach speed600 km/h

On Downwind

Speed< 500 km/h

GearDOWN

FlapsSet 25° (TAKEOFF)

On Final

FlapsFULL

Speed≥ 340 km/h

Descent rate5 m/s

ThrottleN1 RPM 83-87%

After touch-down

< 320 km/h Drag chute (LM)DEPLOY

AFTER LANDING | RUNWAY VACATED

Drag Chute (LM)JETTISON

LANDING / TAXI Light switch (LF)TAXI

SAU Modes (Autopilot)DISENGAGE

NOSEWHEEL BRAKE lever (CL)OFF (vertical)

Gear handle fixator (LF)LOCKED

SHUTDOWN

EMER BRAKE lever (CL)SET

LANDING / TAXI Light switch (LF)OFF

FlapsUP

AirbrakesIN

ThrottleIDLE

Circuits breakers (RM)ALL OFF

RADAR (RF)OFF

PITOT, CLK. & MIRROR HEAT (C)OFF

EMER PITOT (C)OFF

ThrottleSTOP

CANOPY (LF)UNSEAL, UNLOCK & OPEN

FIRE EXT switch (LM)OFF

ENG APU switch (LM)OFF

No1/No3/DISP.TK FUEL PUMP switches (RM)OFF

DC GEN switch (RM)OFF

AC GEN switch (RM)OFF

NAVL switch (Navigation lights, RM)OFF

PO-750 Inverter #1 switch (RM)OFF

PO-750 Inverter #2 switch (RM)OFF

BATTERY HEAT switch (RM)OFF

BATTERY GROUND PWR switch (RM)OFF

WEAPONS & SIGHT	
IR-SAR HEAT (RM)	ON
MSL RKT LNCH (RM)	ON
PYLON 1-2 PWR (RM)	ON / As req.
PYLON 3-4 PWR (RM)	ON / As req.
GUN power switch (RM)	ON
SIGHT power switch (RM)	ON
Pipper switch (C)	ON
Fixed Net switch (C)	ON

A-A CANNON	
Air/Ground Master Mode switch (CL)	AIR
CANNON RELOAD #1 (CL)	PRESS & HOLD 2"
Sight GN/LNC Mode switch (CL)	GUN
Sight S/B Mode switch (CL)	SHOOT

METHOD 1: Manual+Gyro+Piper (Custom Range)	
Sight AUT/MAN Mode switch (CL)	MANUAL
Sight MSL/GYRO Mode switch (CL)	GYRO
Wingspan Setting knob (CL)	SET TO TARGET
Throttle twist grip	SET TARGET DISTANCE TO 400m
Intercept Angle knob (CR)	SET TO GUN (~0.6°)

METHOD 2: Auto+Gyro (Fixed range 300m)	
Sight AUT/MAN Mode switch (CL)	AUTO
Sight MSL/GYRO Mode switch (CL)	GYRO
Wingspan Setting knob (CL)	SET TO TARGET

In Auto Mode, target distance is automatically set to 300m. Intercept Angle value is automatically selected based on selected weapon.

MISSILE	
Air/Ground Master Mode switch (CL)	AIR
Weapon selector (CL)	SET to des. pylon
IR/SAR Missile Type selector (CL)	As req.
Sight GN/LNC Mode switch (CL)	LAUNCH
Sight S/B Mode switch (CL)	SHOOT
Sight AUT/MAN Mode switch (CL)	AUTO
Sight MSL/GYRO Mode switch (CL)	MISSILE

A-G CANNON / UPK-23 GUN PODS	
Air/Ground Master Mode switch (CL)	GROUND
CANNON RELOAD #1 (CL)	PRESS & HOLD 2"
Sight GN/LNC Mode switch (CL)	LAUNCH
Sight S/B Mode switch (CL)	SHOOT
Sight AUT/MAN Mode switch (CL)	AUTO
Sight MSL/GYRO Mode switch (CL)	MSL
Wingspan Setting knob (CL)	SET TO TARGET
RADAR (RF)	ON
LOCKED BEAM (RF)	LOCKED

ROCKETS	
Air/Ground Master Mode switch (CL)	GROUND
Weapon selector (CL)	SET to des. pylon
Sight GN/LNC Mode switch (CL)	LAUNCH
Sight S/B Mode switch (CL)	SHOOT
Sight AUT/MAN Mode switch (CL)	AUTO
Sight MSL/GYRO Mode switch (CL)	GYRO
Wingspan Setting knob (CL)	SET TO TARGET
RADAR (RF)	ON
LOCKED BEAM (RF)	LOCKED

SIGHT DEPRESSION ANGLES			
DIVE ANGLE	20°	30°	40°
SPEED	800	800	650
GUN	1°	0°50'	0°50'
S-5	2°	1°30'	1°40'
S-24	2°50'	2°30'	2°15'

BOMBS	
Air/Ground Master Mode switch (CL)	GROUND
Weapon selector (CL)	SET to des. pylon
Sight GN/LNC Mode switch (CL)	LAUNCH
Sight S/B Mode switch (CL)	BOMBING
Sight AUT/MAN Mode switch (CL)	AUTO
Sight MSL/GYRO Mode switch (CL)	GYRO
Wingspan Setting knob (CL)	SET TO TARGET
TACT DROP switch (C)	ARMED & ON