

PREFLIGHT CHECK

INTERIOR CHECK

Stick Grip – Check

Safety belt and shoulder harness – Check

Seat – Adjust

Rudder Pedals – Adjust and unlock

Armament switches – OFF

Throttle – OFF

Landing gear handle – DOWN

Engine master, emergency ignition, and battery-starter switches – OFF

Speed brake switch – Neutral

External power – Connected

Landing gear position indicators – Check

Oxygen regulator – Check

Anti-G suit regulator valve – Check

Left circuit breakers – In

Ammunition compartment heat emergency shutoff handle – NORMAL

Cockpit air temperature control switch – AUTO

Air outlet selector lever – FLOOR

Cockpit air temperature control rheostat – As desired

Cockpit pressure schedule switch – 2.75 PSI

Cockpit pressure control switch – PRESS

Windshield anti-icing lever – OFF

Rudder trim switch – OFF

Lateral alternate trim switch – NORMAL

Longitudinal alternate trim switch – NORMAL GRIP CONT

Flight control switch - NORMAL

Drop tank selector switch – ALL TANKS OFF

Speed brake emergency lever – NORMAL

Wing flap lever – UP

Emergency fuel switch – OFF

Emergency jettison handle – In

Landing and taxi light switch – OFF

Pitot heater switch - ON, then OFF

Engine anti-ice and screen switch – EXTEND

Clock, accelerometer, and altimeter – Set

Fuel quantity – Check, Totalizer – Set

Directional indicator – Check against stand-by compass

Attitude indicator – Check

Vertical velocity indicator – Set

Function selector switch – MAG or DG as required

Generator switch – ON

Canopy alternate emergency jettison handle – In

Flight control emergency override handle – In

Lighting controls – As required

Communication equipment switches – As required

Landing gear emergency release handle – In

Canopy declutch handle – In

Sight mechanical caging lever – CAGE

Instrument power switch –ALTERNATE

Instrument power switch – NORMAL

Warning lights and indicators and test warning systems – Check

Rudder gust lock handle – In

Flight controls – Check

Normal trim switch – Check

Radio compass – Check

STARTING ENGINE

Throttle - Off

Engine master switch – ON

Battery-starter switch – STARTER (momentarily), then BATTERY

3% RPM – Throttle outboard

6% RPM – Throttle halfway between IDLE and OFF

Throttle – Adjust for proper exhaust temperature (600-690)

Oil pressure - Check

Engine instruments – Check

Drop tank selector switch – OUTBD ON& JETT or INBD ON & JETT if drop tanks installed – ALL TANKS OFF if drop tanks are not installed

External power – Disconnected

Generator warning light - Out

GROUND TESTS

Throttle - IDLE

Hydraulic pressure gage selector - NORMAL

Flight control switch – RESET (Check alternate-on warning light out.)

Flight control normal hydraulic system – Check

Flight control switch – NORMAL

Control stick – Move and verify proper control surface movement

Pressure – After 5 secs, 2850 to 3200 psi (control stick not in motion)

Flight control alternate hydraulic system – Check

Flight control switch – ALTERNATE ON

Alternate on warning light – On

Control stick – Move and verify proper control surface movement

Hydraulic pressure gage selector switch - ALTERNATE

Pressure – After 5 secs, 2550 to 3200 psi (control stick not in motion)

Flight control switch – RESET (Check alternate-on warning light out.)

Flight control manual emergency override system – Check

Hydraulic pressure gage selector switch – ALTERNATE

Flight control switch – Hold at RESET

Emergency override handle – Pull to full extension

Control stick – Move and verify proper control surface movement

Flight control switch – NORMAL

Alternate-on warning light – On

Pressure – 3050 – 4000 psi

Emergency override handle – In

Pressure – 2550 – 3200 psi

Automatic return to flight control normal system – Check

Control stick – Move rapidly

Alternate-on warning light – Out

Hydraulic pressure gage selector switch – NORMAL

Pressure – 2850 – 3200 psi

Utility hydraulic system – Check

Hydraulic pressure gage selector switch – UTILITY

Speed brake switch – OUT, IN, then neutral

Pressure – approximately 3000 psi

Hydraulic pressure gage selector switch – NORMAL

Loadmeter and voltmeter – Check

TAXIING

Safety pins – Remove

Main gear wheel chocks – Removed

Throttle – Advance and return to IDLE

Nose wheel steering button – Depress (for directional control)

Turn and slip indicator – Check for proper deflection of turn needle during turns

Radio compass – Check relative bearing to selected station

Directional indicator – Check actual changes of heading against instrument indications

BEFORE TAKE-OFF

PREFLIGHT AIRPLANE CHECK

Armament switches – Off

Trim for take-off – Check

Wing flap lever – DOWN

Canopy switch – Close

Oxygen regulator diluter valve – NORMAL OXYGEN

Engine anti-ice and screen switch – RET, then EXTEND

Take-off position – Align nose wheel

Toe brakes - Hold

PREFLIGHT ENGINE CHECK

EMERGENCY FUEL SYSTEM CHECK

Throttle – 80% rpm

Emergency fuel switch – On

Throttle – Advance cautiously to full OPEN; rpm – Check

Emergency fuel switch – OFF

Emergency fuel switch – ON

Observe recovery time and stabilized rpm

Emergency fuel switch - OFF

ENGINE INSTRUMENT CHECK

Throttle – Full OPEN

Engine instruments - Check

TAKE-OFF

NORMAL TAKE-OFF

Throttle – Full OPEN

Toe brakes – Release

Maintain directional control

Maintain near level attitude until take-off speed attained

Assume nose-high attitude when take-off speed attained

AFTER TAKE-OFF – CLIMB

Landing gear handle - Up

Wing flap lever – UP, then HOLD

Engine anti-ice and screen switch – Retract

Horizontal tail – Trim as required

Level off and accelerate to best climb speed

Oxygen regulator diluter lever – NORMAL OXYGEN

BEFORE LANDING

Armament Switches – Off

Gun sight caging lever - CAGE

Hydraulic pressure – Normal

Oxygen regulator diluter lever – NORMAL OXYGEN

Engine anti-ice and screen switch – EXTEND, if icing conditions anticipated, ANTI-ICE

Windshield anti-icing lever – ON, if vision impaired by rain

Speed brake switch – OUT

Landing gear handle and flap lever – DOWN; position indicators – Check

Downwind leg – Hold recommended speed

Final approach – Hold recommended speed

Throttle- IDLE when landing assured

Touchdown – At recommended speed

STOPPING ENGINE

Toe brakes – Hold

Engine – 65% to 70% for 2 minutes

Throttle – OFF

Engine master switch – OFF

Speed brake switch – OUT

Battery-starter switch – OFF

Control stick – Cycle

Flight control emergency override handle – Pull to full extension

Control stick – Cycle

Flight control emergency override handle – IN

BEFORE LEAVING AIRPLANE

Safety pins – Installed

Drop tank selector switch – ALL TANKS OFF

Rudder gust lock handle – Engaged

Main gear wheels - Chocked