

DCS WORLD A-29B Super Tucano

Pre-Flight & Start Checklist

(For DCS World training use only — not for real flight operations)

Pre-Flight / Before Engine Start

- Aircraft Documents – Review (Mission Brief, Weather, Load out)
 - External Check – Complete (Fuel Caps Secure, Gear Pins Removed, Canopy Clean)
 - Seat – Adjust & Lock
 - Harness – Fastened & Secure
 - Parking Brake – SET
 - Circuit Breakers – IN
 - Landing Gear Lever – DOWN
 - Flaps – UP
 - Battery – ON
 - Avionics – OFF
 - Ejection Seat Arming Handle – SAFE
 - Fuel Quantity – CHECK (both tanks)
 - Fire Test – CHECK
 - Lights – AS REQUIRED
 - Oxygen – CHECK & ON (if sim models it)
 - Canopy – CLOSED & LOCKED
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Engine Start

- Prop Area – CLEAR (visual check)
- Battery & Generator Switches – ON
- Fuel Pump – ON
- Prop Lever – FULL FORWARD
- Throttle – IDLE CUTOFF
- Engine Start Switch – START
- Monitor ITT and RPM (Do not exceed limits)
- Throttle – ADVANCE to IDLE at 15–20 % Ng
- Generator – ON (confirm power)

- Oil Pressure – CHECK within limits
 - Fuel Flow & Amps – NORMAL
 - Engine Instruments – GREEN range
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After Start / Taxi

- Avionics Master – ON
 - Radios – SET (Frequency & Volume)
 - Altimeter – SET (QNH/QFE per mission)
 - Flight Controls – FREE & CORRECT
 - Trims – SET for Takeoff
 - Flaps – T/O Position
 - Canopy – SEALED
 - Taxi Light – ON
 - Brakes – CHECK while rolling
 - Instruments – MONITOR
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Before Takeoff

- Parking Brake – SET
 - Canopy – LOCKED (CHECK light out)
 - Flight Controls – FREE & CORRECT
 - Trims – SET (Takeoff neutral)
 - Engine – RUN-UP (2000–2200 RPM check limits)
 - Fuel Pressure – CHECK
 - Engine Temps – GREEN range
 - Instruments – CHECKED & SET
 - Radios / Nav – SET for Departure
 - Flaps – T/O Position
 - Lights – AS REQUIRED
 - Transponder – ON
 - Pitot Heat – ON (if needed)
 - Takeoff Brief – COMPLETE ($V_r \approx 90$ KIAS, rotate gently)
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Takeoff & Climb

- Line-Up – Check Runway Clear
 - Power – SET (MIL or Max per mission)
 - Engine – MONITOR
 - Airspeed – ALIVE
 - Rotate – at $\approx$ 90 KIAS
 - Positive Rate – GEAR UP
 - Flaps – UP at 110 KIAS minimum
 - Power – CLIMB Set
 - Climb Speed – 120–140 KIAS
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After Takeoff

- Gear & Flaps – UP & CHECKED
 - Engine Instruments – MONITOR
 - Lights – AS REQUIRED
 - Climb Checklist – COMPLETE
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Shutdown (Reminder for Post-Flight)

- Throttle – IDLE then CUTOFF
 - Generator & Battery – OFF
 - Fuel Pump – OFF
 - Lights – OFF
 - Canopy – OPEN
 - Parking Brake – SET
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Tips for Use

- Print this list on **A5 or A4** paper, laminate, and use a **dry-erase marker** to tick off each stage.
 - In DCS, run through it **out loud** before missions — it builds real-world habit patterns.
 - Optional: create a **DCS Kneeboard** version using a simple PNG image from this checklist.
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