



DH.98 MOSQUITO
FB MK VI

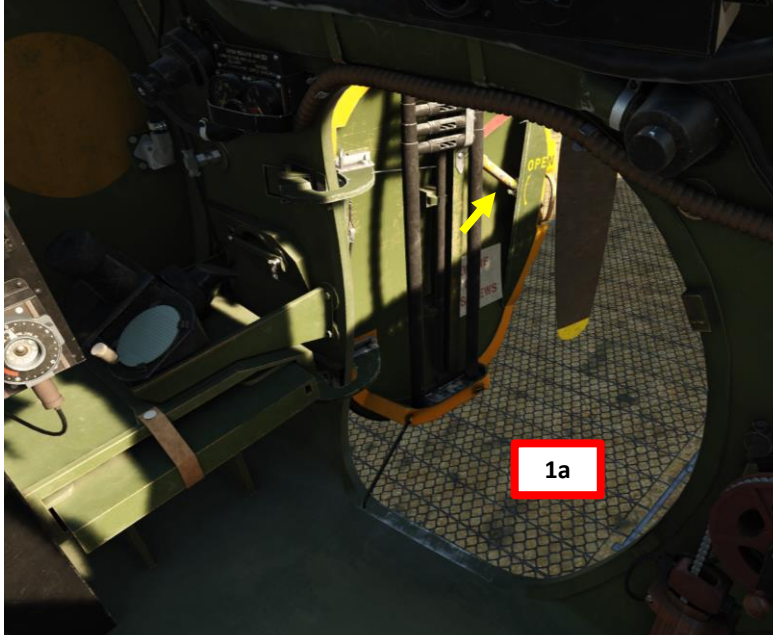
PART 4 - START-UP

PRE-START



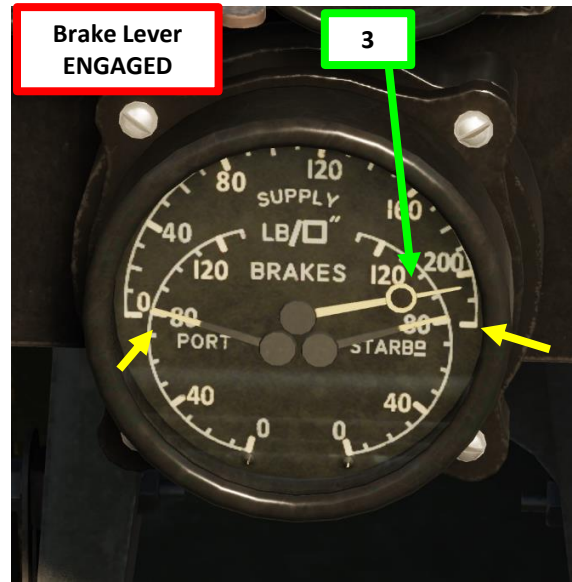
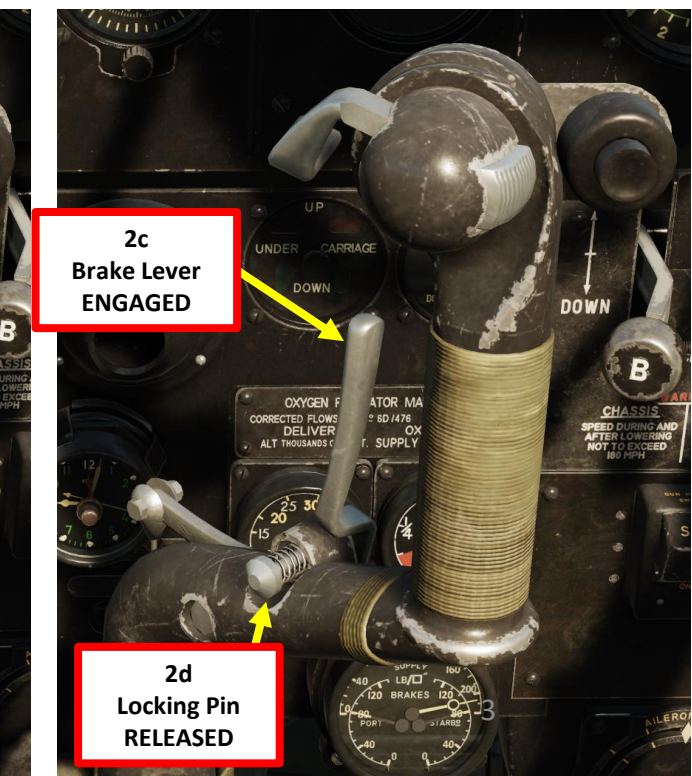
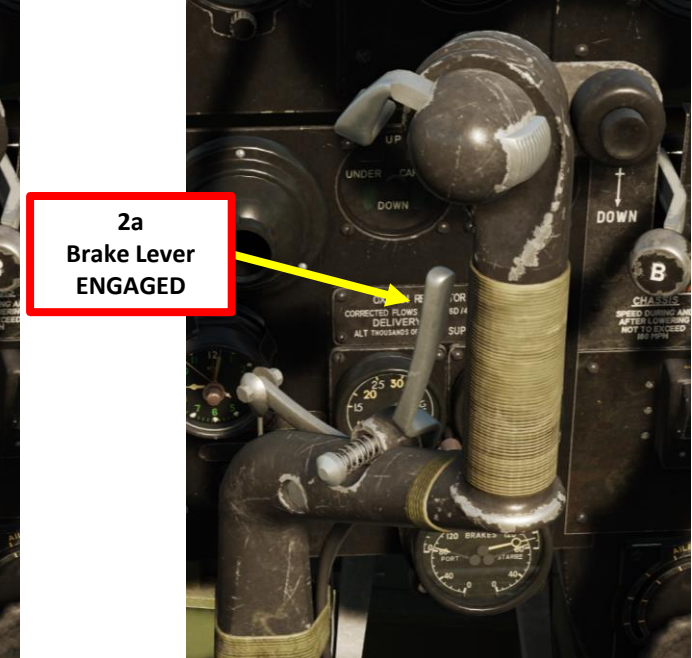
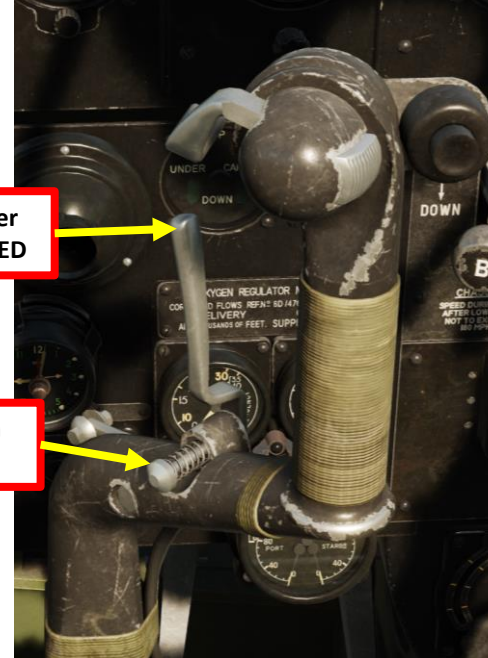
PRE-START

1. Close Side Door by clicking on the door handle.
 - Close Door: LCTRL+C
 - Open Door: LSHIFT+C



PRE-START

2. Engage Parking Brake
 - a) Press and hold Wheel Brake Lever
 - b) While brake lever is pressed, press the Wheel Brake Locking Pin IN (LALT+T).
 - c) Release Wheel Brake Lever. Wheel Brake Lever should remain locked in Parked position.
 - d) Release Locking Pin (LALT+T)
3. Pneumatic Supply Pressure – Check no less than 200 psi



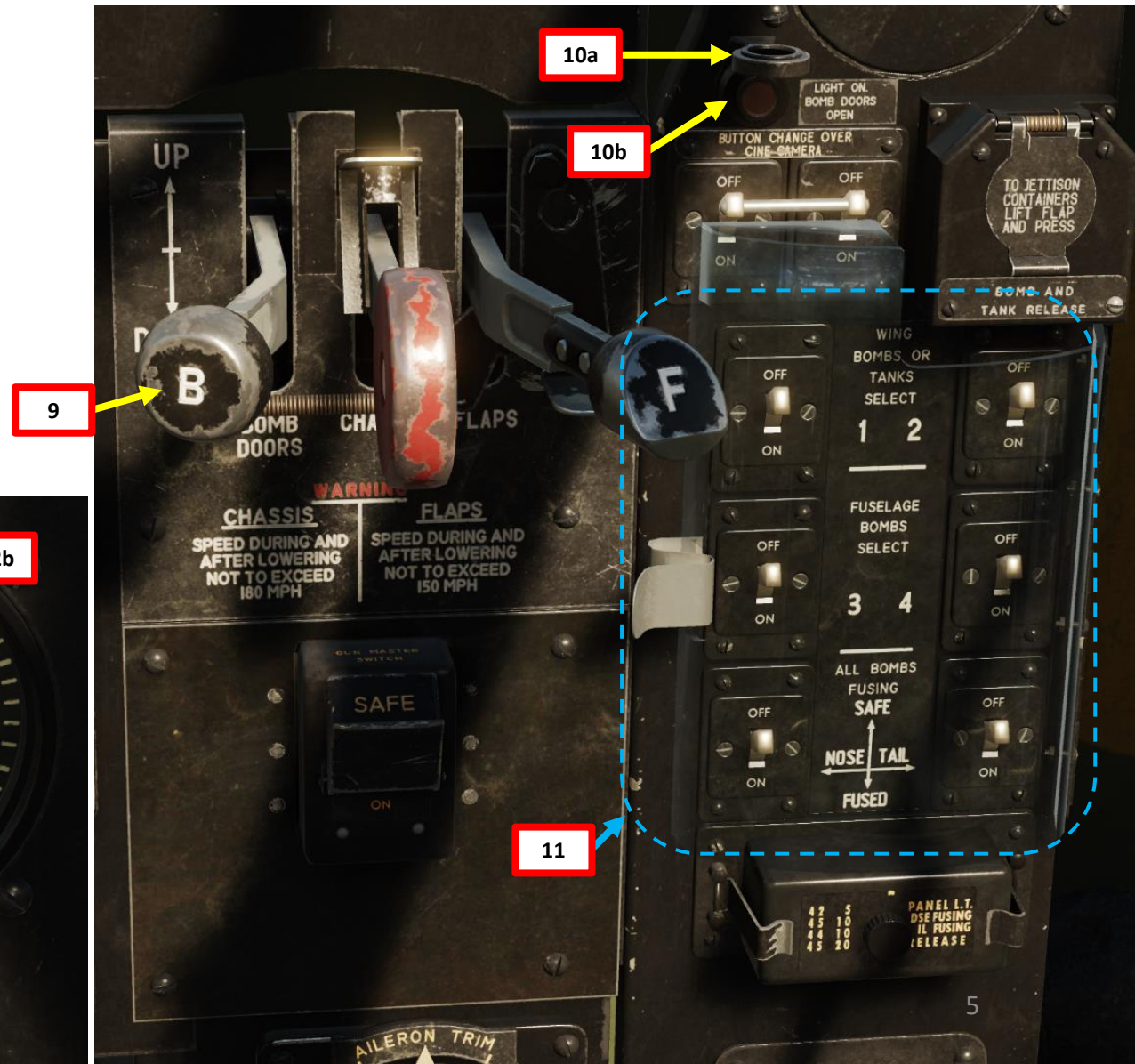
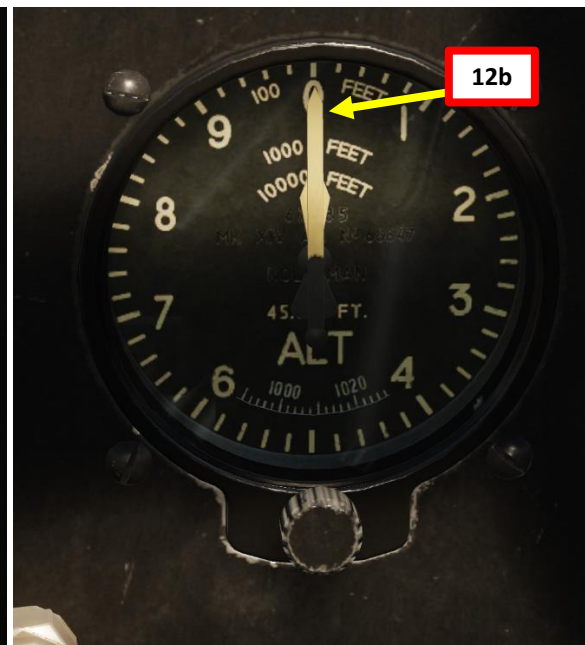
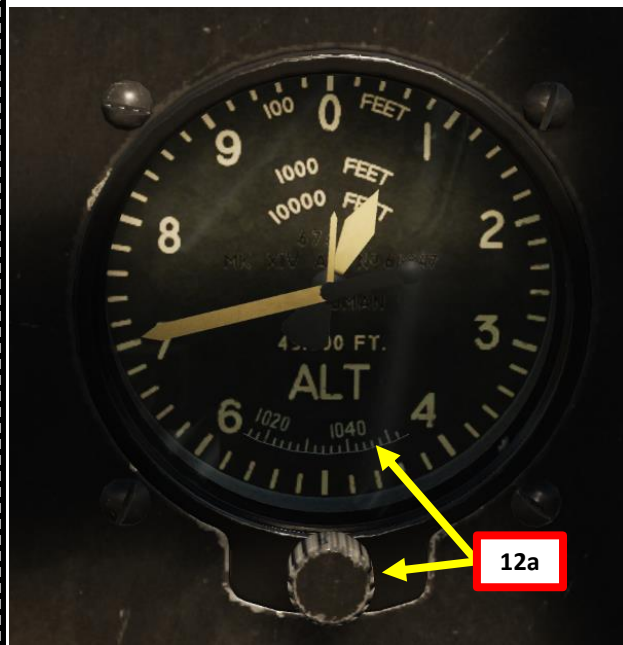
PRE-START

- If operating at night, turn on your flashlight.
 - Binding: LALT+L
- Set Electrical Services Master (Battery) Switch – ON (UP)
- Voltmeter – Check no less than 24 V
- Check Magneto Ignition Switches – OFF



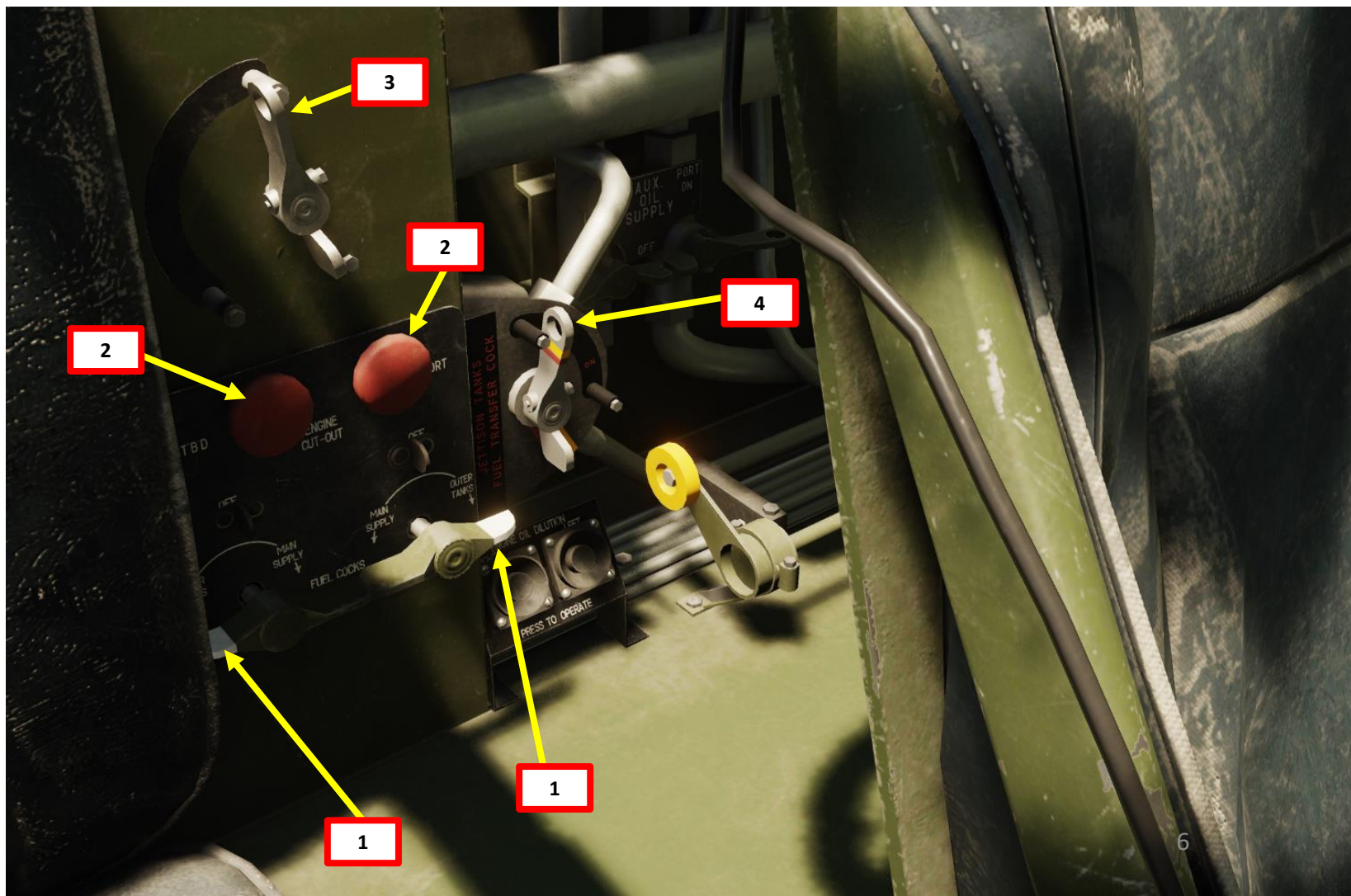
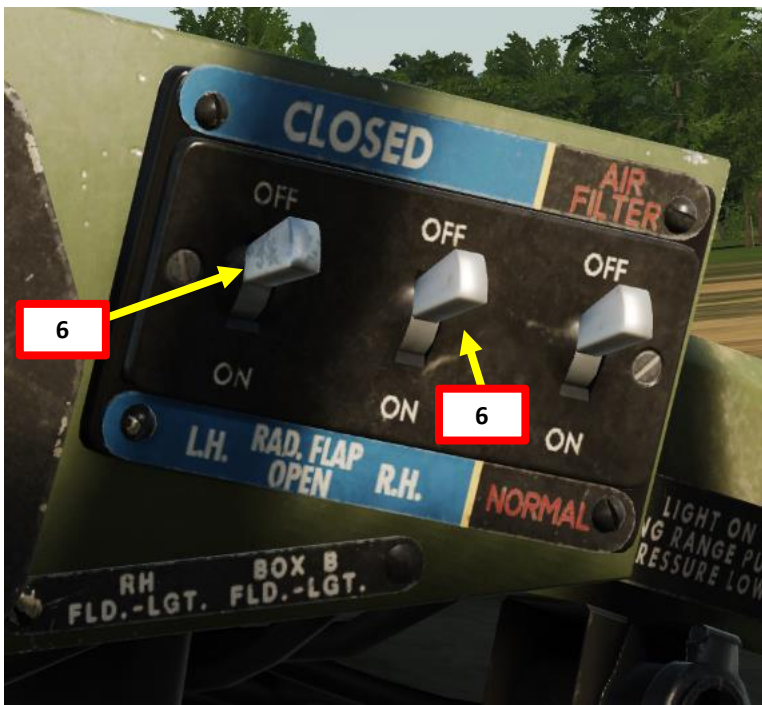
PRE-START

8. Ensure elevator, aileron and rudder controls are working by moving stick and rudder pedals
9. Set Bomb Doors – Shut (Selector NEUTRAL)
10. Flip Bomb Bay Light Switch Cover UP. Confirm that Bomb Bay Light is EXTINGUISHED, which means that the bomb doors are closed.
11. Check that Bomb Selector Panel switches are all OFF (UP)
12. Scroll mousewheel on the “Altimeter Barometric Pressure Setting” knob to adjust the altimeter needle to 0.



ENGINE START

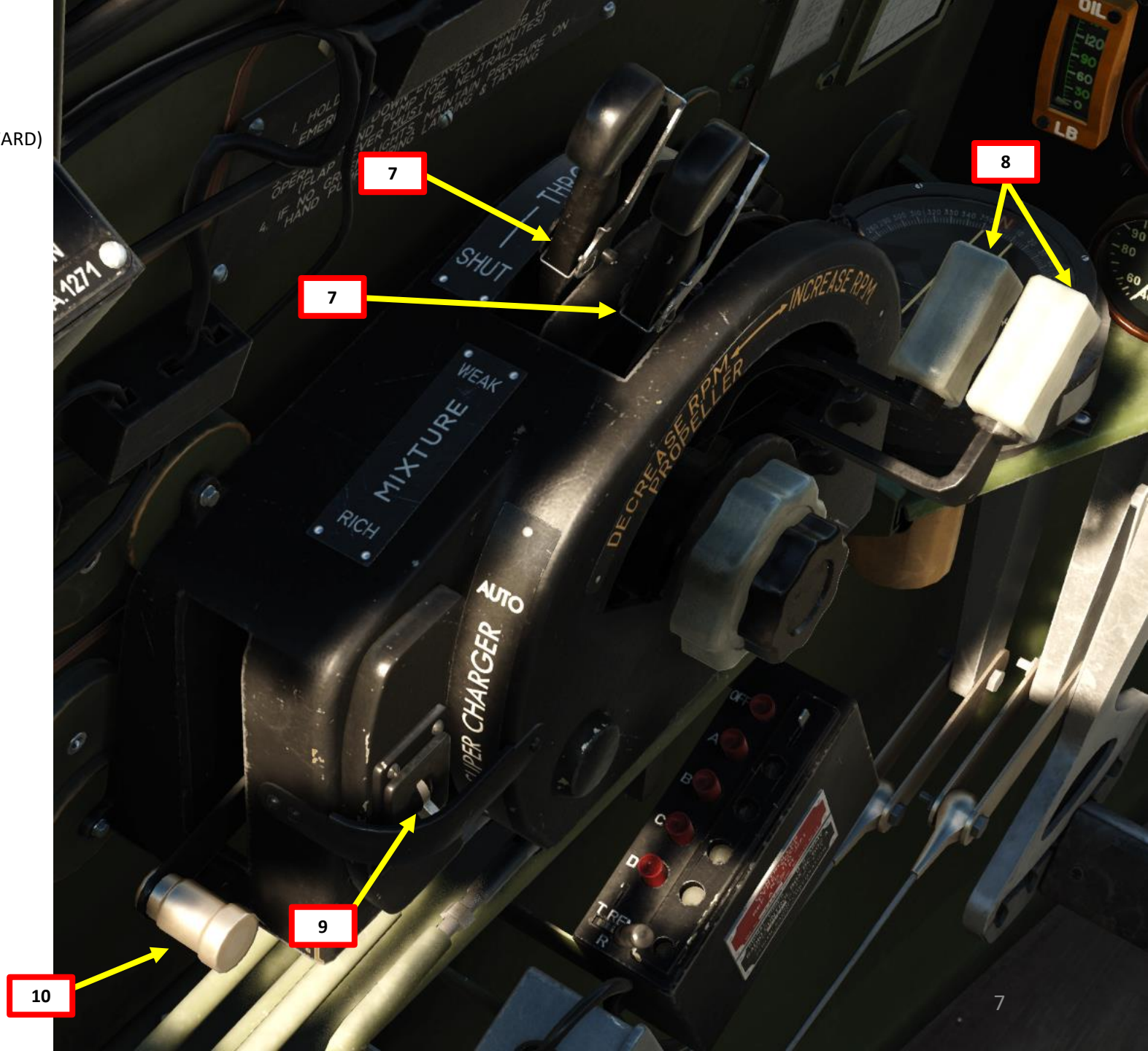
1. Set Main Fuel Cocks – Outer Tanks
2. Set Engine Fuel Cut-Out Handles – IN (Fuel Valve Open)
3. Set Pressure Venting Cock – ON (Vertical)
4. Set Fuel Transfer Cock – OFF (Vertical)
5. Set Immersed Fuel Pump Switch – OFF
6. Set Radiator Shutters Switches – OFF/CLOSED (UP)





ENGINE START

7. Set Throttles – 0.5 inch OPEN (FORWARD)
8. Set RPM Control Levers – Maximum RPM Position (FULLY FORWARD)
9. Set Supercharger Lever – Moderate / Lower Gear (DOWN)
10. Set Fuel Mixture Lever – RICH (DOWN)



ENGINE START

11. Open side window
12. Contact ground crew to start priming the engines. The fuel priming pump is located inside the wheel well.
 - a) Press "RALT + \\" (Communication Push-to-Talk)
 - b) Select ground crew by pressing "F8"
 - c) Select "Start Priming Engines" by pressing "F6".

Main
 F1. Wingman... 12a
 F2. Flight...
 F3. Second Element...
 F5. ATC...
 F8. Ground Crew... 12b
 F12. Exit

2. Main. Ground Crew
 F1. Rearm & Refuel
 F2. Ground Electric Power...
 F3. Request Repair
 F4. Wheel chocks...
 F5. Change cabin equipment...
 F6. Start priming engines 12c
 F11. Previous Menu
 F12. Exit

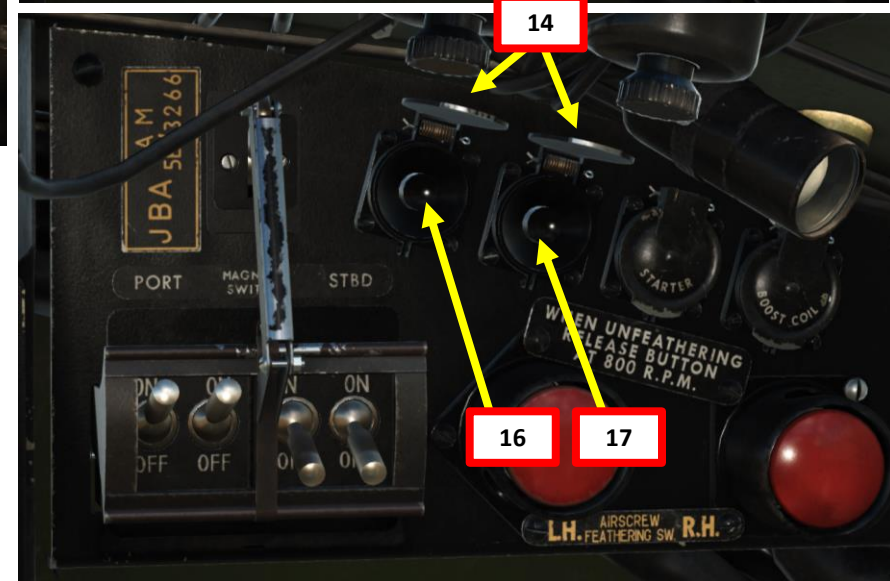
12d PLAYER: start priming engines Ground Crew: copy



Ground Crew priming the engine

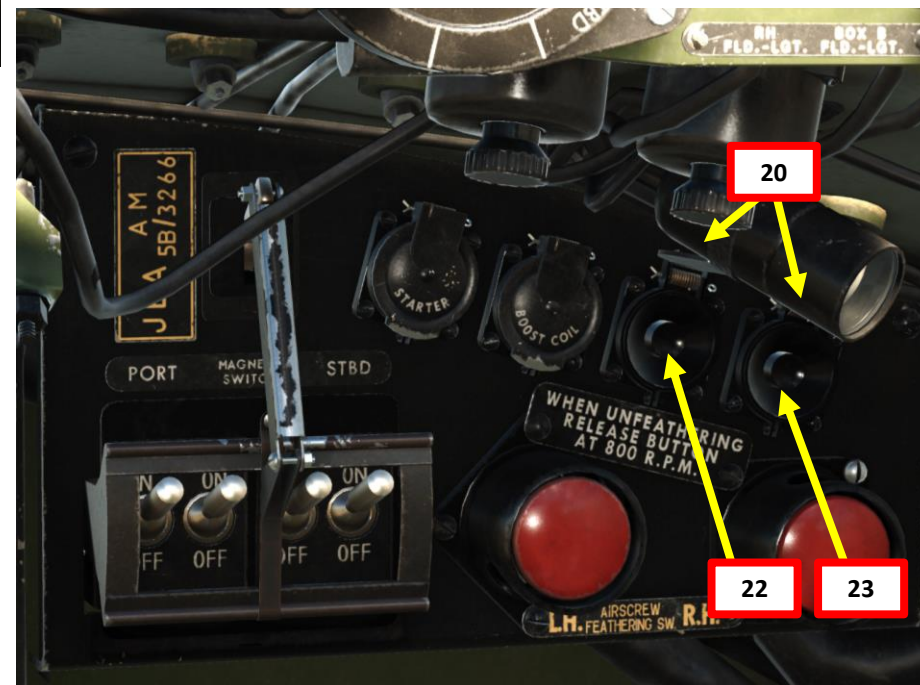
ENGINE START

13. Set Left/Port Engine Magneto Ignition No. 1 & No. 2 Switches – ON (UP)
14. Flip Left/Port Engine Starter and Booster Coil Covers – UP.
 - Note: In real life, these spring-loaded caps provide protection against accidental pressing.
 - Fun fact: the Merlin 25 uses an electrical starter, which relies on battery power (or external ground power) to start the propeller.
15. Verify that the propeller is clear and command « Clear port prop! » to warn people around you that you are about to start the left engine.
16. Press and Hold (Left Click) Left/Port Engine Starter Button. Allow the propeller blades to turn 3 to 4 rotations while the ground crew works the priming pump.
17. While Engine Starter Button is pressed, press and hold (Right Click) the Left/Port Engine Booster Coil Button until the engine “catches” and motor ignition occurs.
 - Note: do not hold the Starter & Booster Coil buttons for more than 20 seconds.
18. Once the engine is running, adjust left throttle to set the engine RPM to 1200.



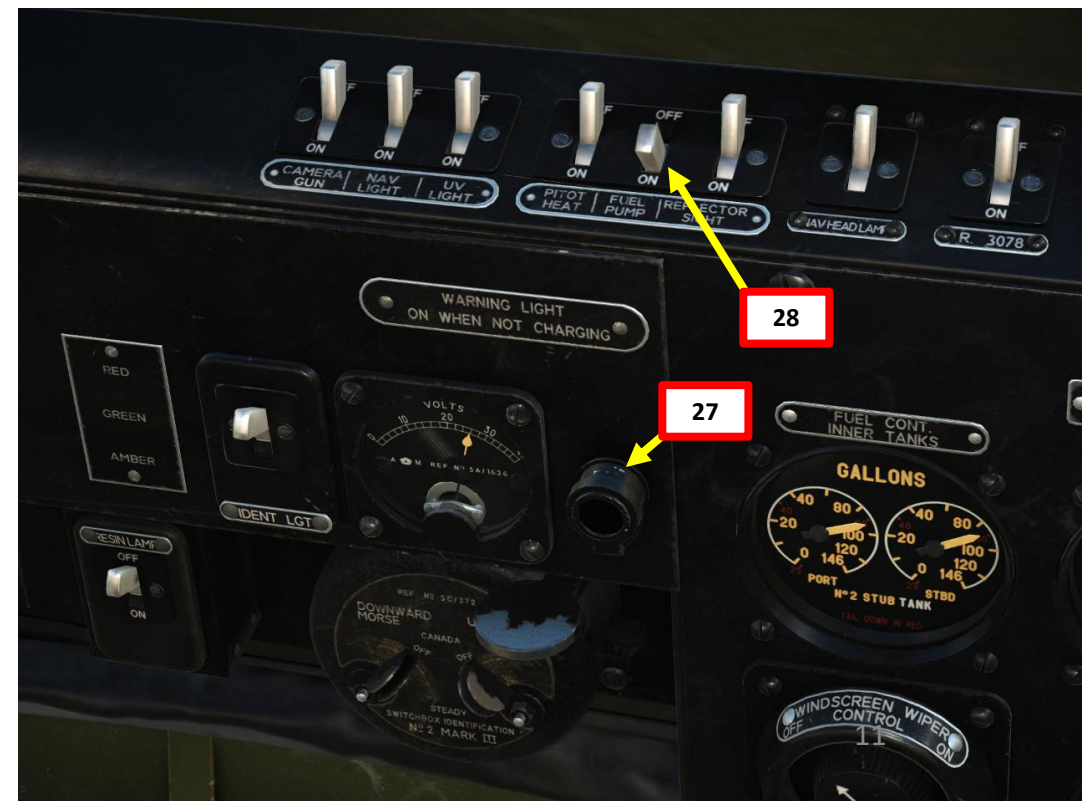
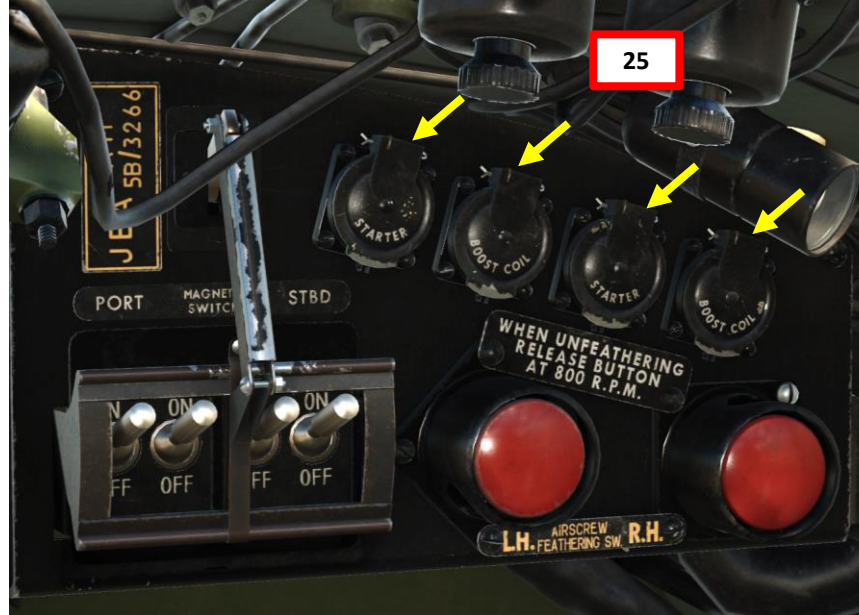
ENGINE START

19. Set Right/Starboard Engine Magneto Ignition No. 1 & No. 2 Switches – ON (UP)
20. Flip Right/Starboard Engine Starter and Booster Coil Covers – UP
21. Verify that the propeller is clear and command « Clear starboard prop! » to warn people around you that you are about to start the right engine.
22. Press and Hold (Left Click) Right/Starboard Engine Starter Button. Allow the propeller blades to turn 3 to 4 rotations while the ground crew works the priming pump.
23. While Engine Starter Button is pressed, press and hold (Right Click) the Right/Starboard Engine Booster Coil Button until the engine “catches” and motor ignition occurs.
 - Note: do not hold the Starter & Booster Coil buttons for more than 20 seconds.
24. Once the engine is running, adjust right throttle to set the engine RPM to 1200.



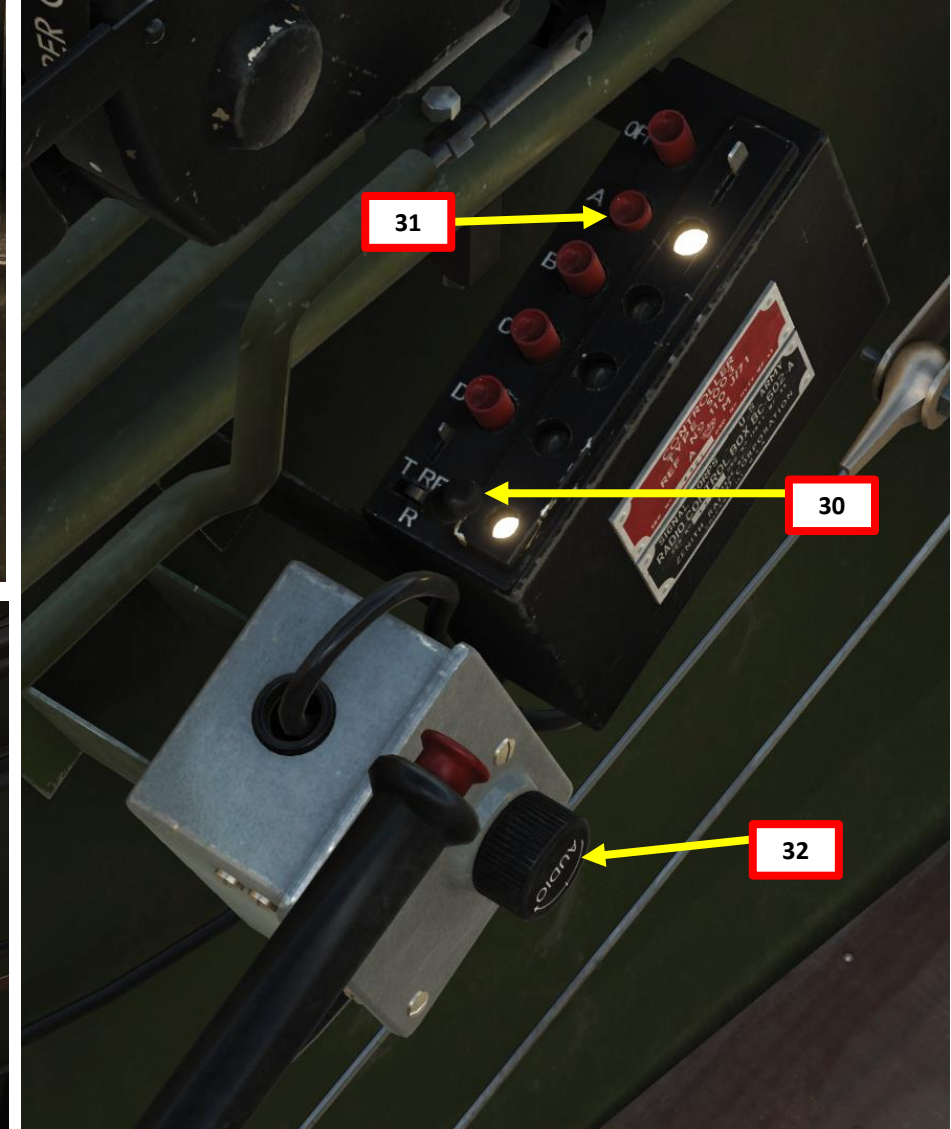
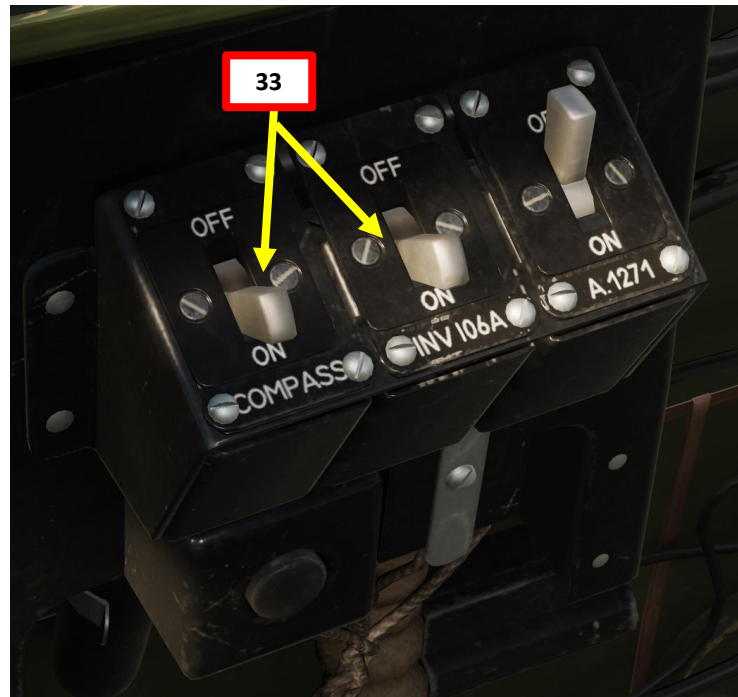
ENGINE START

25. Flip all starter and booster coil covers DOWN
26. Set Radiator Shutters Switches – ON/OPEN (DOWN)
27. Confirm that Generator Warning Light is Extinguished
28. Set Immersed Fuel Pump Switch – ON



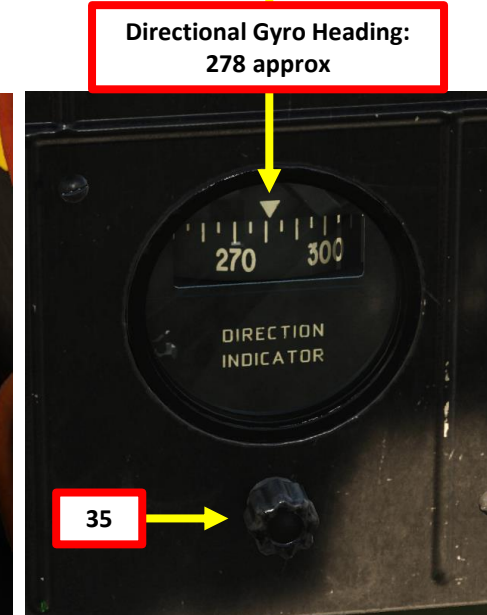
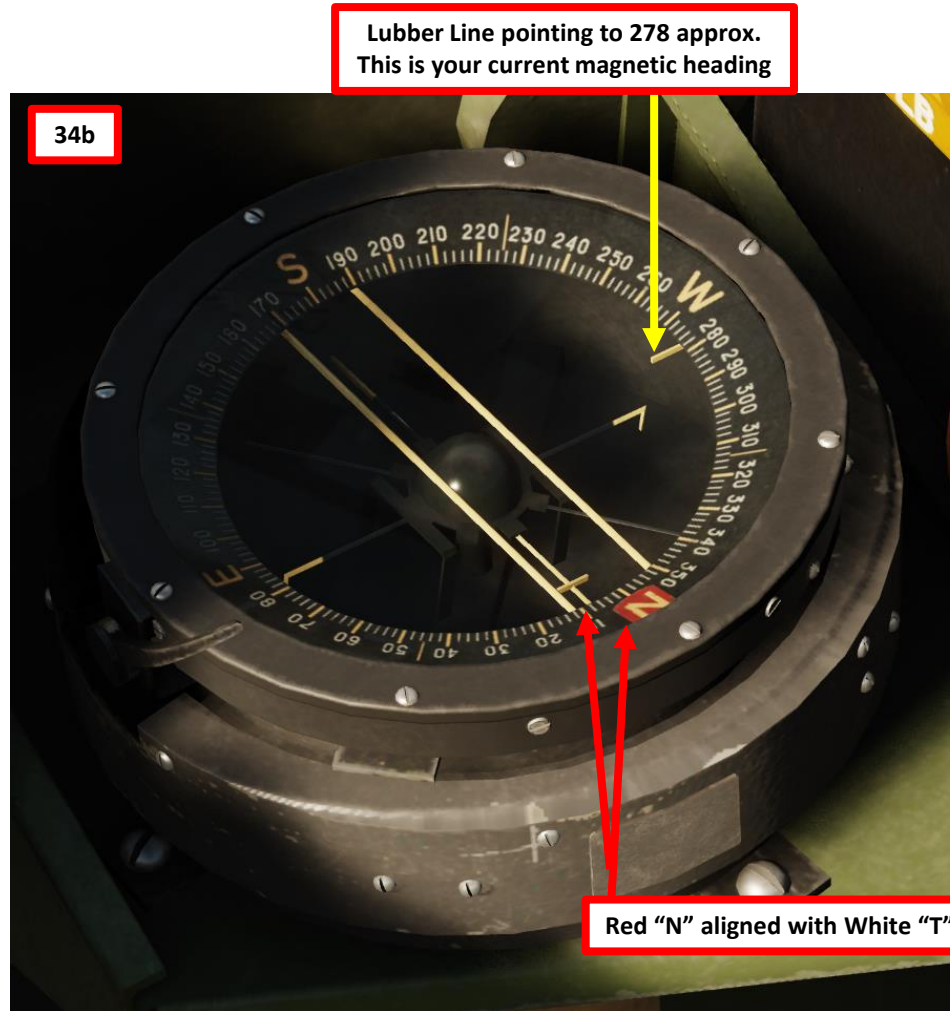
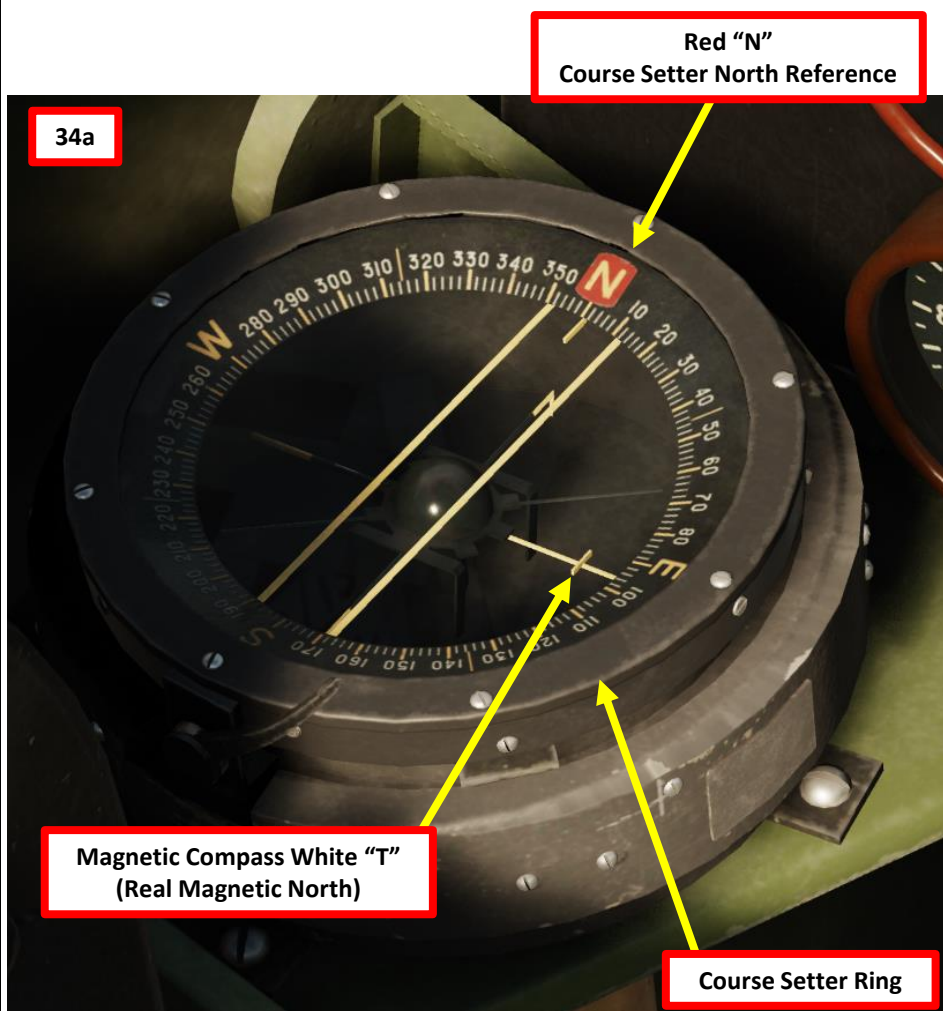
POST-START

29. Set Pilot Oxygen Valve – OPEN
30. Set the radio Transmit-Receive switch to “REM” (Remote Operation)
31. Select desired channel (A, B, C or D)
32. Adjust Radio Volume – As Required
33. Set Remote Indicating (R.I.) Compass Power Switches – ON (DOWN)



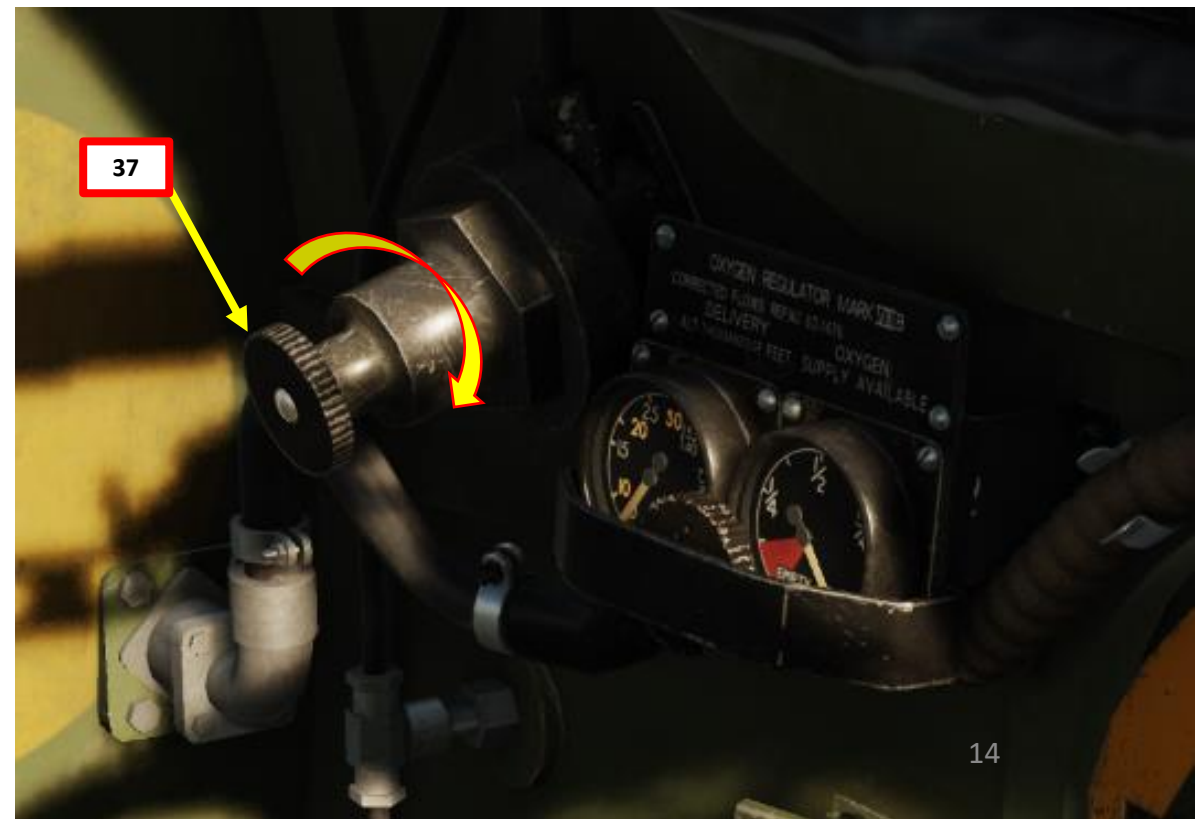
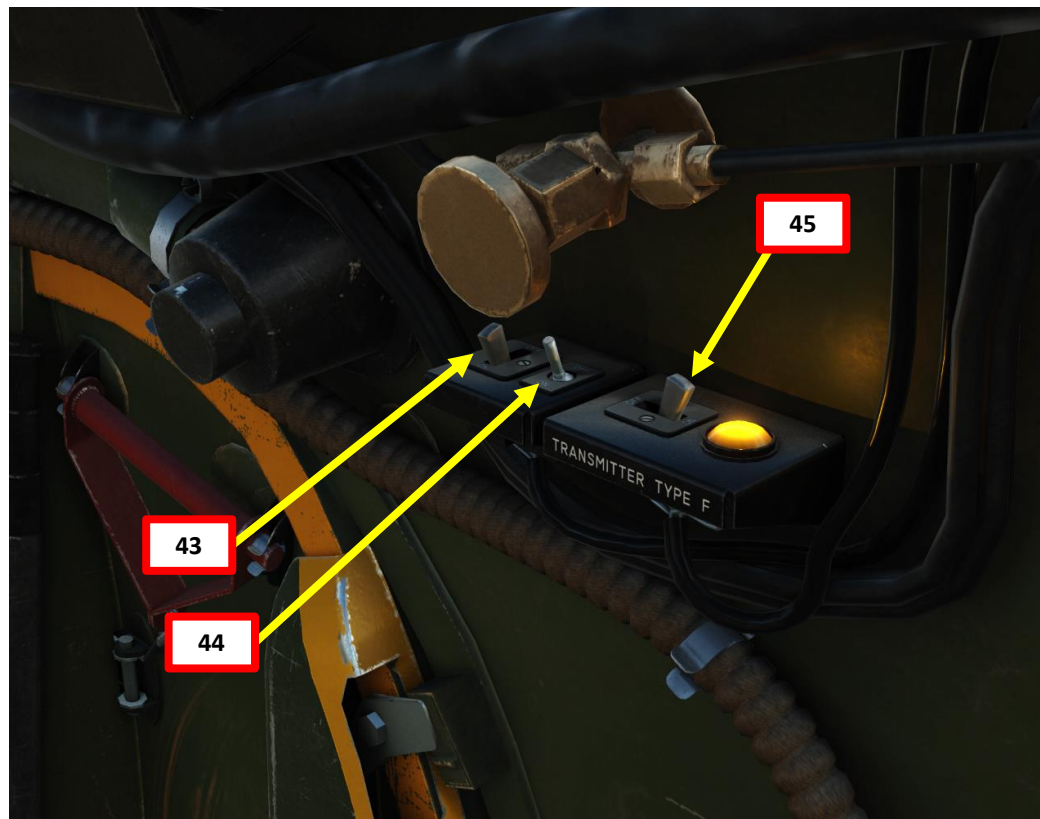
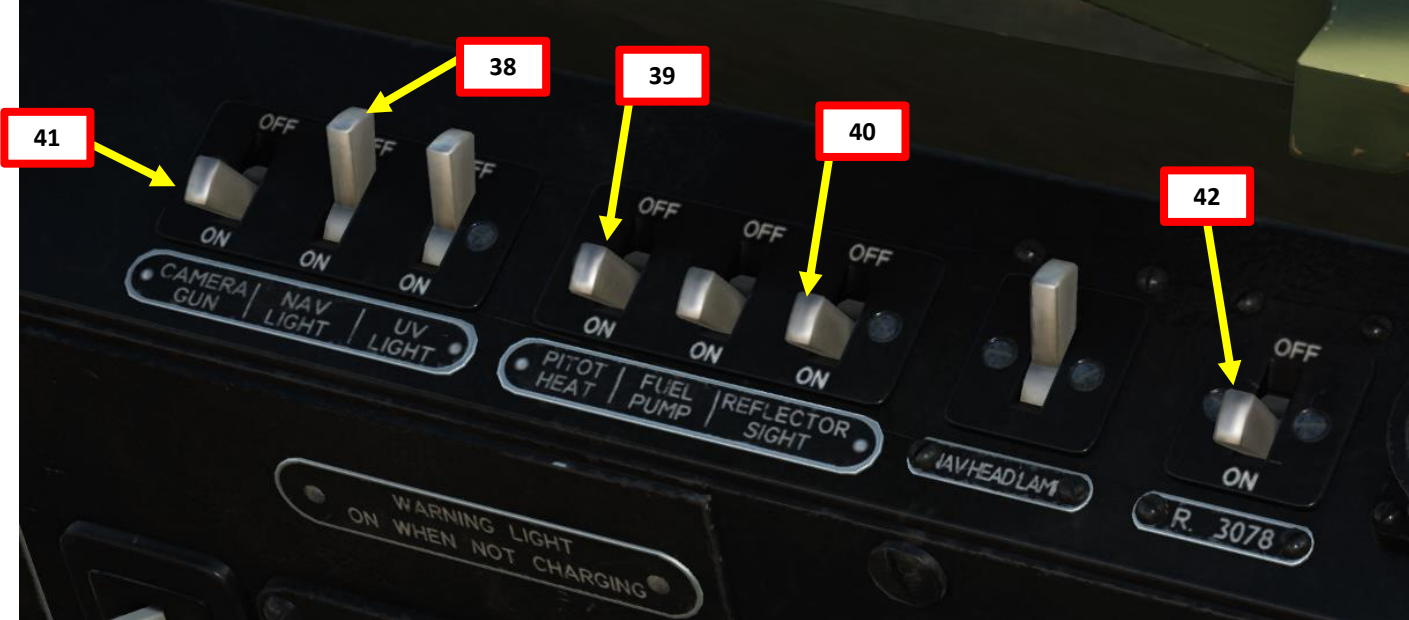
POST-START

34. Turn the Course Setter ring of the P8 Magnetic Compass (scroll mousewheel on course setter ring) to align the red “N” (North Reference of the course setter) with the white “T” cross (real magnetic North of the compass). The lubber line will display your current heading.
35. Turn the Directional Gyro adjustment knob to match the heading of the directional gyro with the one shown by the magnetic compass’ lubber line.



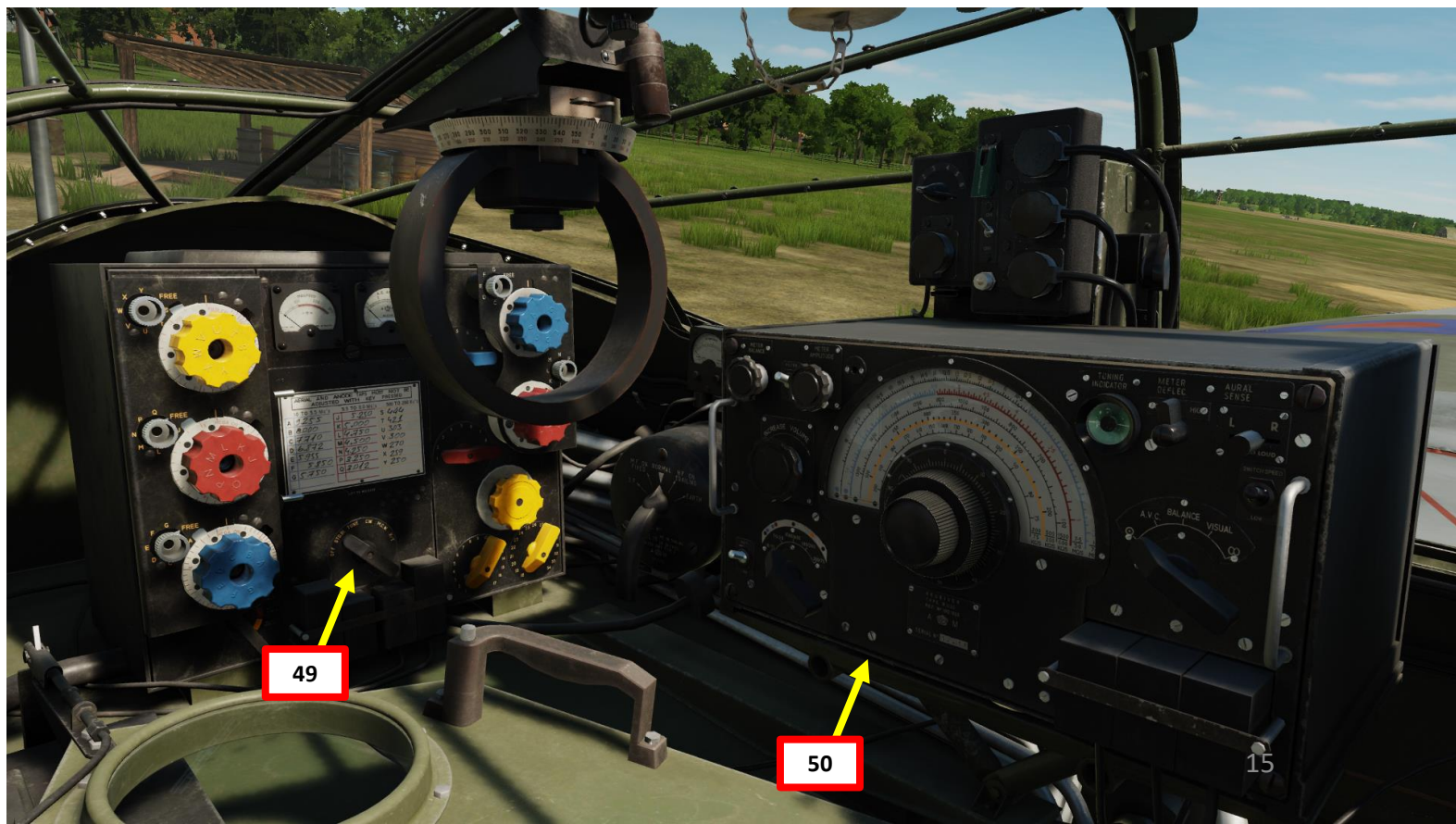
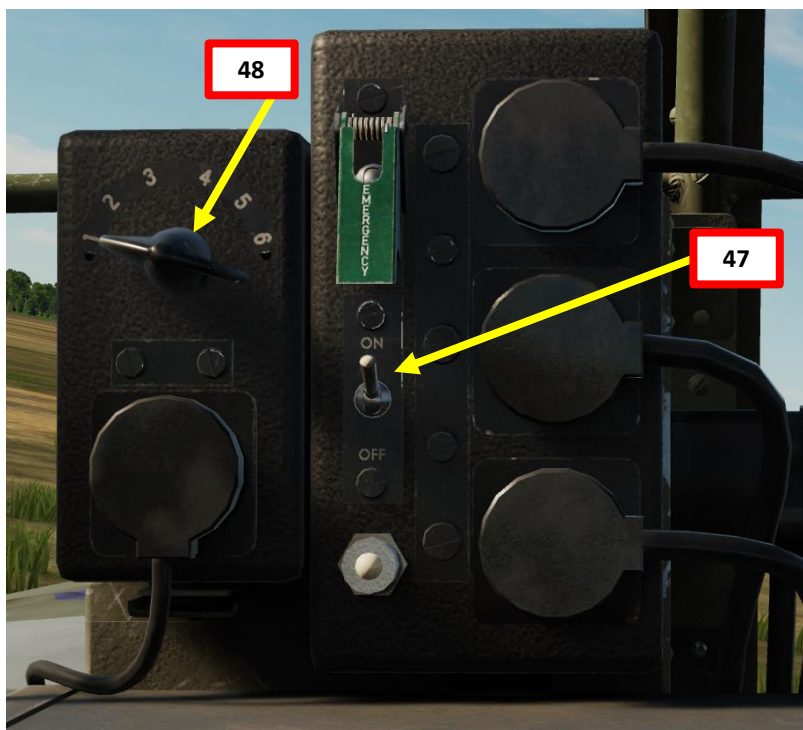
POST-START

36. Select Navigator Seat by pressing “2”
37. Check Oxygen High Pressure Valve – OPEN (turn valve clockwise)
38. Set Navigation Lights – As Required
39. Set Pitot Heat Switch – ON (if required)
40. Set Gun Reflector Sight Power Switch – ON (DOWN)
41. Set Cine-Camera (Gun Camera) Master Switch – ON (DOWN)
42. Set R3078 IFF (Identify-Friend-or-Foe) Transceiver Power Switch – ON (DOWN)
43. Set T1154 Radio Transmitter Low Voltage Power Switch – ON (LEFT)
44. Set T1154 Radio Transmitter High Voltage Power Switch – ON (LEFT)
45. Set Transmitter Type F (Morse Code) Power Switch – ON (AFT)



POST-START

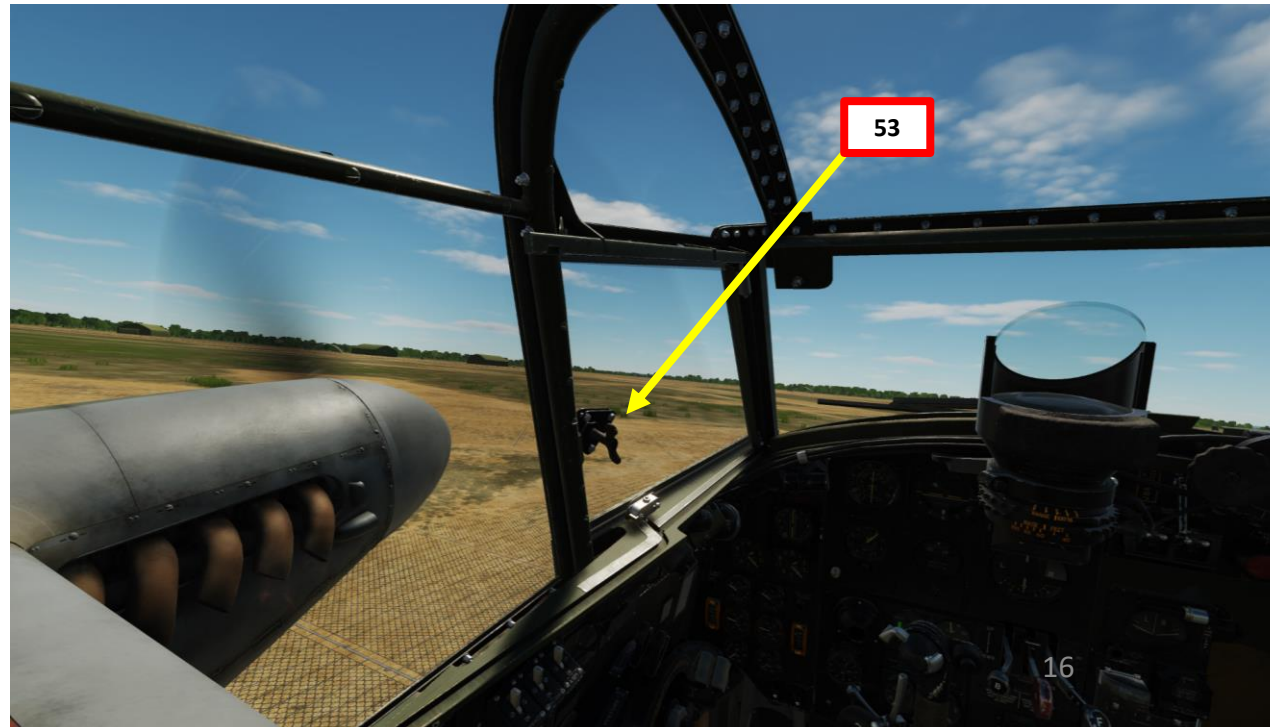
46. Lower the armored headrest of the navigator seat to access the radio compartment by clicking on the headrest handle.
47. Set A.R.I. 5083 IFF (Identify-Friend-or-Foe) Power Switch – ON (UP)
48. Set A.R.I. 5083 IFF Channel – As required in mission briefing.
49. Set T1154 Radio Transmitter Set Tuning Control knob – STD-BI (Standby).
50. Set R1155 Radio Receiver – As required.
 - T1154/R1155 Radio Set Tutorial is further explained in the Radio section.





POST-START

51. Raise the armored headrest of the navigator seat.
52. Select Pilot Seat by pressing “1”
53. Close side window.



ENGINE WARM-UP

1. Ensure oil pressure is in the 60-120 psi range.
2. Adjust throttle to a RPM of 1200 (IDLE).
3. Wait until engine oil warms up above 20 deg C and radiator coolant temperature is above 40 deg C.
4. Once both engines are warmed up, you may start taxiing.

Note: Attempting a takeoff with low oil or coolant temperature can lead to dire consequences. Waiting for proper engine warm-up is often overlooked by virtual pilots and the Merlin engine leaves no room for error when engine temperatures are concerned.

