



DH.98 MOSQUITO  
FB MK VI

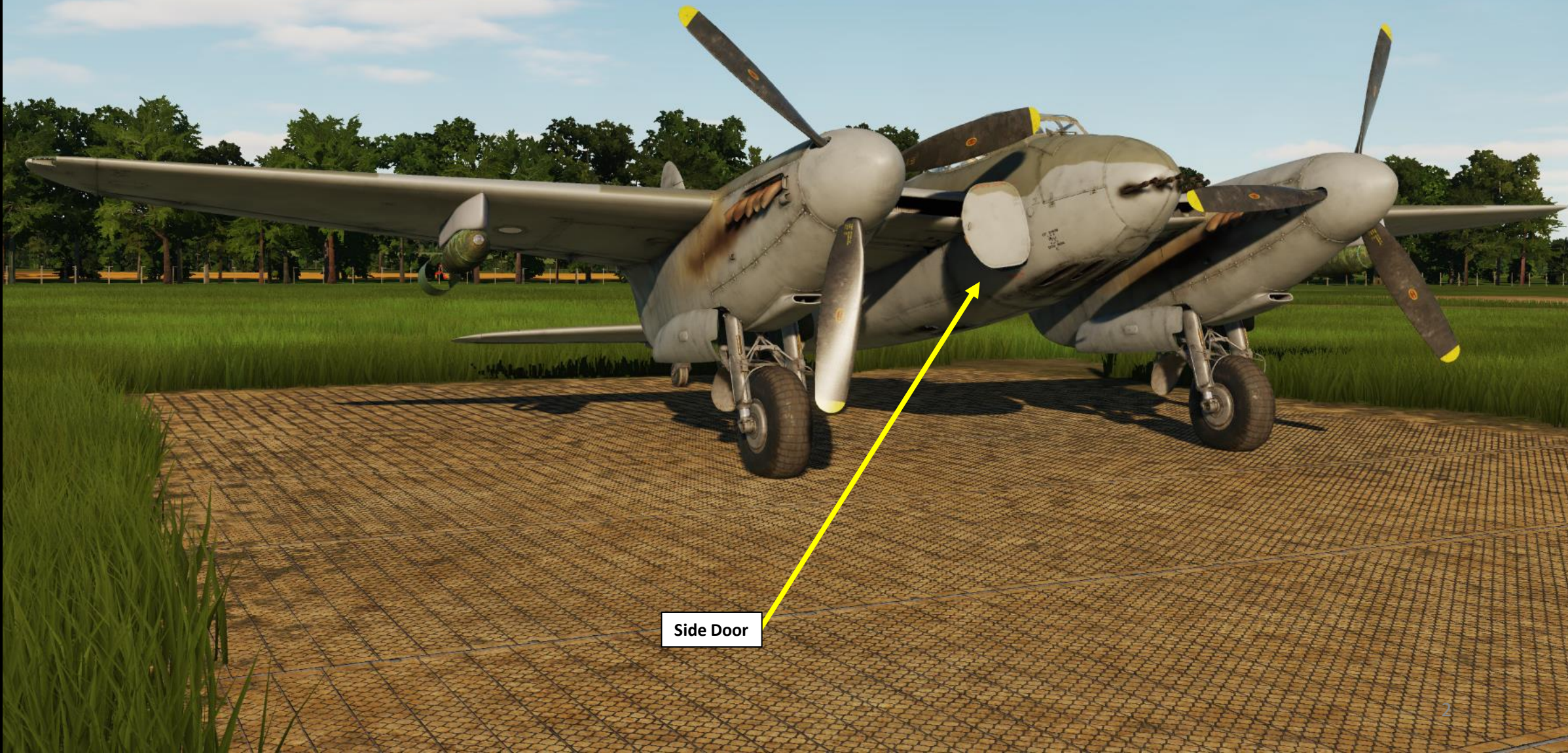
## PART 3 - COCKPIT & EQUIPMENT





DH.98 MOSQUITO  
FB MK VI

## PART 3 – COCKPIT & EQUIPMENT

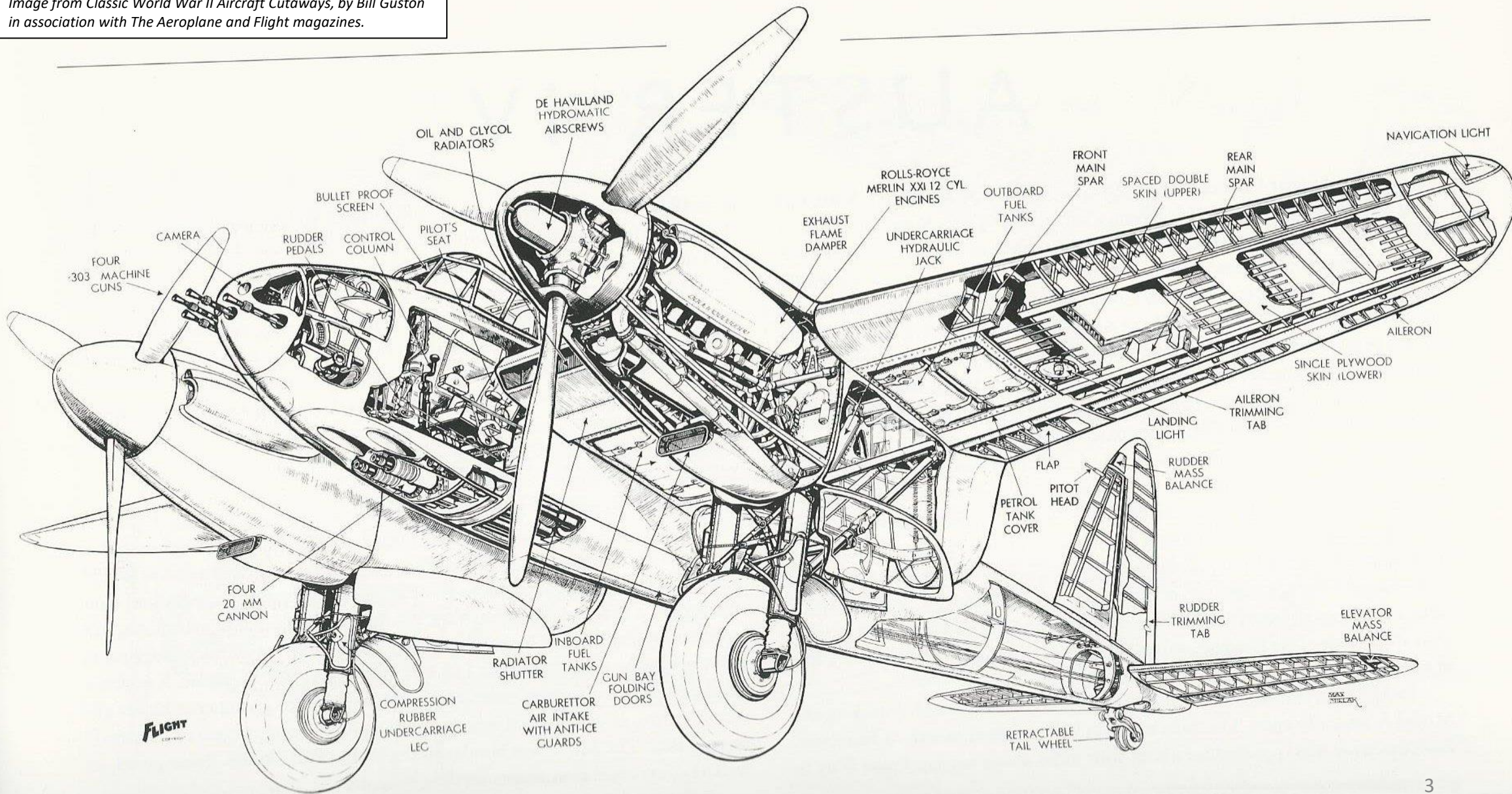


Side Door



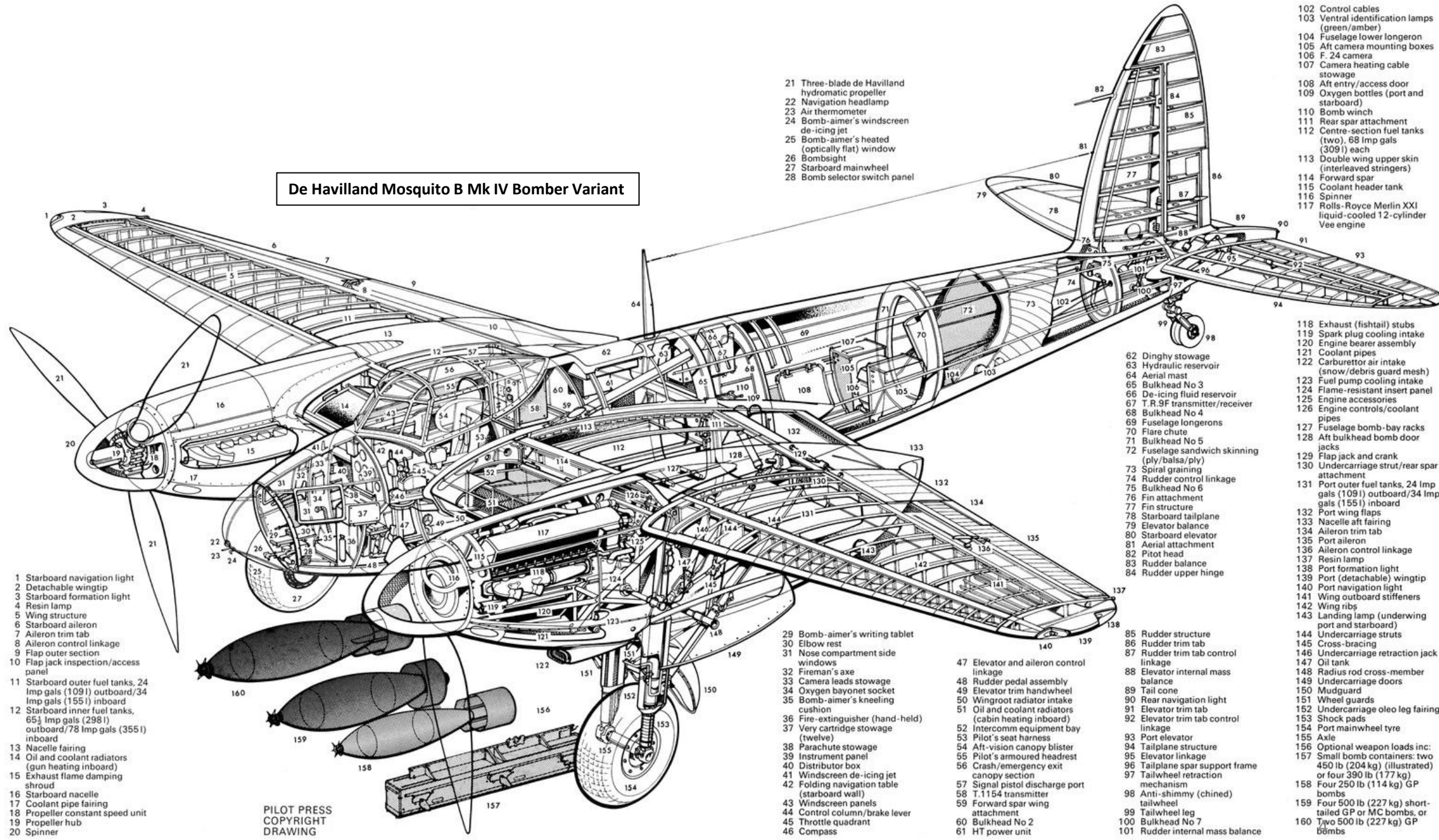
### Mosquito II Fighter Variant

Image from *Classic World War II Aircraft Cutaways*, by Bill Guston in association with *The Aeroplane and Flight* magazines.



FLIGHT

**De Havilland Mosquito B Mk IV Bomber Variant**



- 1 Starboard navigation light
- 2 Detachable wingtip
- 3 Starboard formation light
- 4 Resin lamp
- 5 Wing structure
- 6 Starboard aileron
- 7 Aileron trim tab
- 8 Aileron control linkage
- 9 Flap outer section
- 10 Flap jack inspection/access panel
- 11 Starboard outer fuel tanks, 24 Imp gals (109 l) outboard/34 Imp gals (155 l) inboard
- 12 Starboard inner fuel tanks, 65 1/2 Imp gals (298 l) outboard/78 Imp gals (355 l) inboard
- 13 Nacelle fairing
- 14 Oil and coolant radiators (gun heating inboard)
- 15 Exhaust flame damping shroud
- 16 Starboard nacelle
- 17 Coolant pipe fairing
- 18 Propeller constant speed unit
- 19 Propeller hub
- 20 Spinner

PILOT PRESS  
COPYRIGHT  
DRAWING

- 21 Three-blade de Havilland hydromatic propeller
- 22 Navigation headlamp
- 23 Air thermometer
- 24 Bomb-aimer's windscreens de-icing jet
- 25 Bomb-aimer's heated (optically flat) window
- 26 Bombsight
- 27 Starboard mainwheel
- 28 Bomb selector switch panel

- 29 Bomb-aimer's writing tablet
- 30 Elbow rest
- 31 Nose compartment side windows
- 32 Fireman's axe
- 33 Camera leads stowage
- 34 Oxygen bayonet socket
- 35 Bomb-aimer's kneeling cushion
- 36 Fire-extinguisher (hand-held)
- 37 Very cartridge stowage (twelve)
- 38 Parachute stowage
- 39 Instrument panel
- 40 Distributor box
- 41 Windscreens de-icing jet
- 42 Folding navigation table (starboard wall)
- 43 Windscreens panels
- 44 Control column/brake lever
- 45 Throttle quadrant
- 46 Compass

- 47 Elevator and aileron control linkage
- 48 Rudder pedal assembly
- 49 Elevator trim handwheel
- 50 Wingroot radiator intake
- 51 Oil and coolant radiators (cabin heating inboard)
- 52 Intercomm equipment bay
- 53 Pilot's seat harness
- 54 Aft-vision canopy blister
- 55 Pilot's armoured headrest
- 56 Crash/emergency exit canopy section
- 57 Signal pistol discharge port
- 58 T.1154 transmitter
- 59 Forward spar wing attachment
- 60 Bulkhead No 2
- 61 HT power unit

- 62 Dinghy stowage
- 63 Hydraulic reservoir
- 64 Aerial mast
- 65 Bulkhead No 3
- 66 De-icing fluid reservoir
- 67 T. R. 9F transmitter/receiver
- 68 Bulkhead No 4
- 69 Fuselage longerons
- 70 Flare chute
- 71 Bulkhead No 5
- 72 Fuselage sandwich skinning (ply/balsa/ply)
- 73 Spiral graining
- 74 Rudder control linkage
- 75 Bulkhead No 6
- 76 Fin attachment
- 77 Fin structure
- 78 Starboard tailplane
- 79 Elevator balance
- 80 Starboard elevator
- 81 Aerial attachment
- 82 Pitot head
- 83 Rudder balance
- 84 Rudder upper hinge

- 85 Rudder structure
- 86 Rudder trim tab
- 87 Rudder trim tab control linkage
- 88 Elevator internal mass balance
- 89 Tail cone
- 90 Rear navigation light
- 91 Elevator trim tab
- 92 Elevator trim tab control linkage
- 93 Port elevator
- 94 Tailplane structure
- 95 Elevator linkage
- 96 Tailplane spar support frame
- 97 Tailwheel retraction mechanism
- 98 Anti-shimmy (chined) tailwheel
- 99 Tailwheel leg
- 100 Bulkhead No 7
- 101 Rudder internal mass balance

- 102 Control cables
- 103 Ventral identification lamps (green/amber)
- 104 Fuselage lower longeron
- 105 Aft camera mounting boxes
- 106 F. 24 camera
- 107 Camera heating cable stowage
- 108 Aft entry/access door
- 109 Oxygen bottles (port and starboard)
- 110 Bomb winch
- 111 Rear spar attachment
- 112 Centre-section fuel tanks (two), 68 Imp gals (309 l) each
- 113 Double wing upper skin (interleaved stringers)
- 114 Forward spar
- 115 Coolant header tank
- 116 Spinner
- 117 Rolls-Royce Merlin XXI liquid-cooled 12-cylinder Vee engine

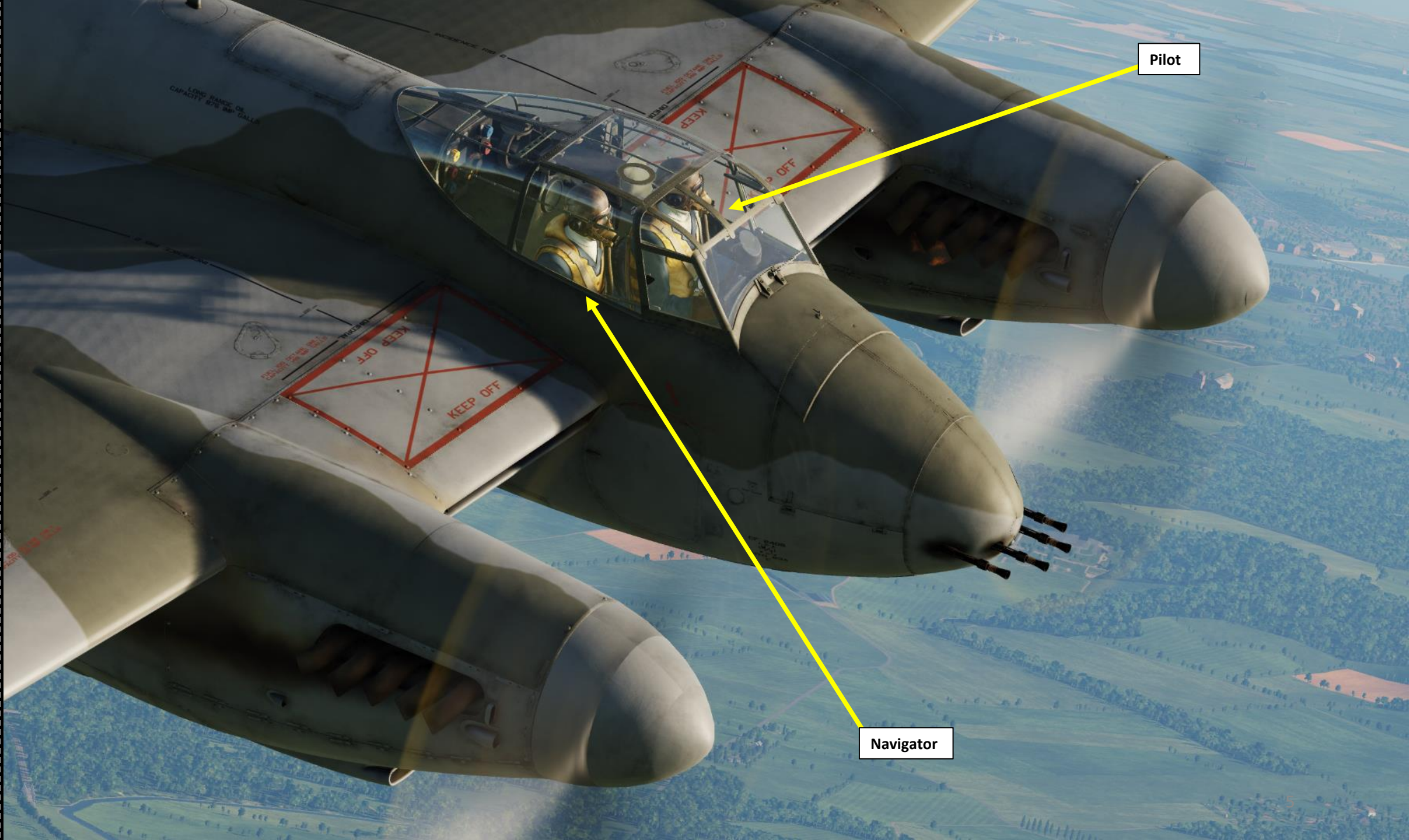
- 118 Exhaust (fishtail) stubs
- 119 Spark plug cooling intake
- 120 Engine bearer assembly
- 121 Coolant pipes
- 122 Carburettor air intake (snow/debris guard mesh)
- 123 Fuel pump cooling intake
- 124 Flame-resistant insert panel
- 125 Engine accessories
- 126 Engine controls/coolant pipes
- 127 Fuselage bomb-bay racks
- 128 Aft bulkhead bomb door jacks
- 129 Flap jack and crank
- 130 Undercarriage strut/rear spar attachment
- 131 Port outer fuel tanks, 24 Imp gals (109 l) outboard/34 Imp gals (155 l) inboard
- 132 Port wing flaps
- 133 Nacelle aft fairing
- 134 Aileron trim tab
- 135 Port aileron
- 136 Aileron control linkage
- 137 Resin lamp
- 138 Port formation light
- 139 Port (detachable) wingtip
- 140 Port navigation light
- 141 Wing outboard stiffeners
- 142 Wing ribs
- 143 Landing lamp (underwing port and starboard)

- 144 Undercarriage struts
- 145 Cross-bracing
- 146 Undercarriage retraction jack
- 147 Oil tank
- 148 Radius rod cross-member balance
- 149 Undercarriage doors
- 150 Mudguard
- 151 Wheel guards
- 152 Undercarriage oleo leg fairing
- 153 Shock pads
- 154 Port mainwheel tyre
- 155 Axle
- 156 Optional weapon loads inc: Small bomb containers: two 450 lb (204 kg) (illustrated) or four 390 lb (177 kg)
- 158 Four 250 lb (114 kg) GP bombs
- 159 Four 500 lb (227 kg) short-tailed GP or MC bombs, or two 500 lb (227 kg) GP bombs
- 160



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### PART 3 - COCKPIT & EQUIPMENT



Pilot

Navigator



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## PART 3 - COCKPIT & EQUIPMENT





**Remote Indicating (R.I.)  
Compass Power Switch**

- UP: OFF
- DOWN: ON

**Remote Indicating (R.I.) Compass Power  
Switch**

- UP: OFF
- DOWN: ON

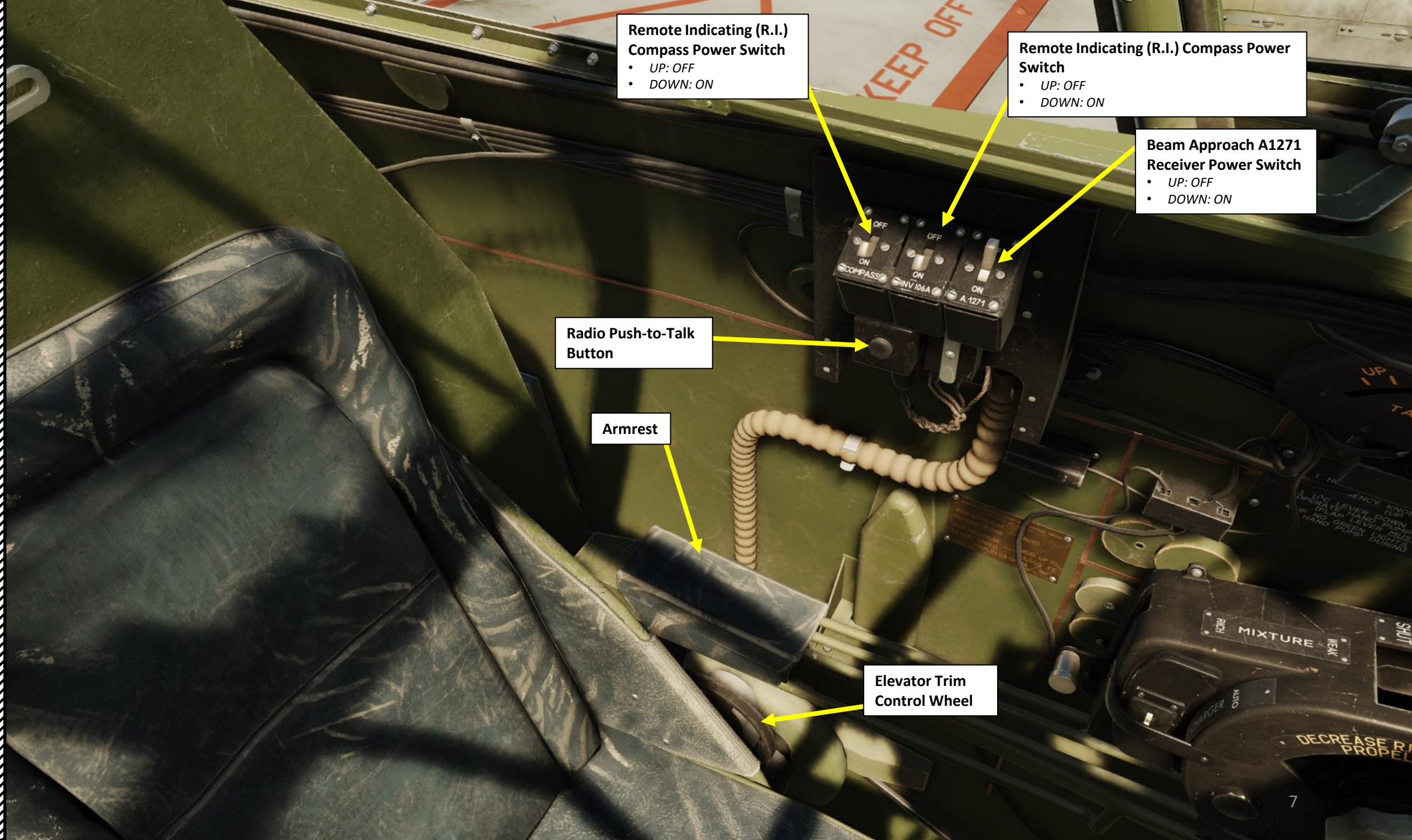
**Beam Approach A1271  
Receiver Power Switch**

- UP: OFF
- DOWN: ON

**Radio Push-to-Talk  
Button**

**Armrest**

**Elevator Trim  
Control Wheel**





Left Window Lock



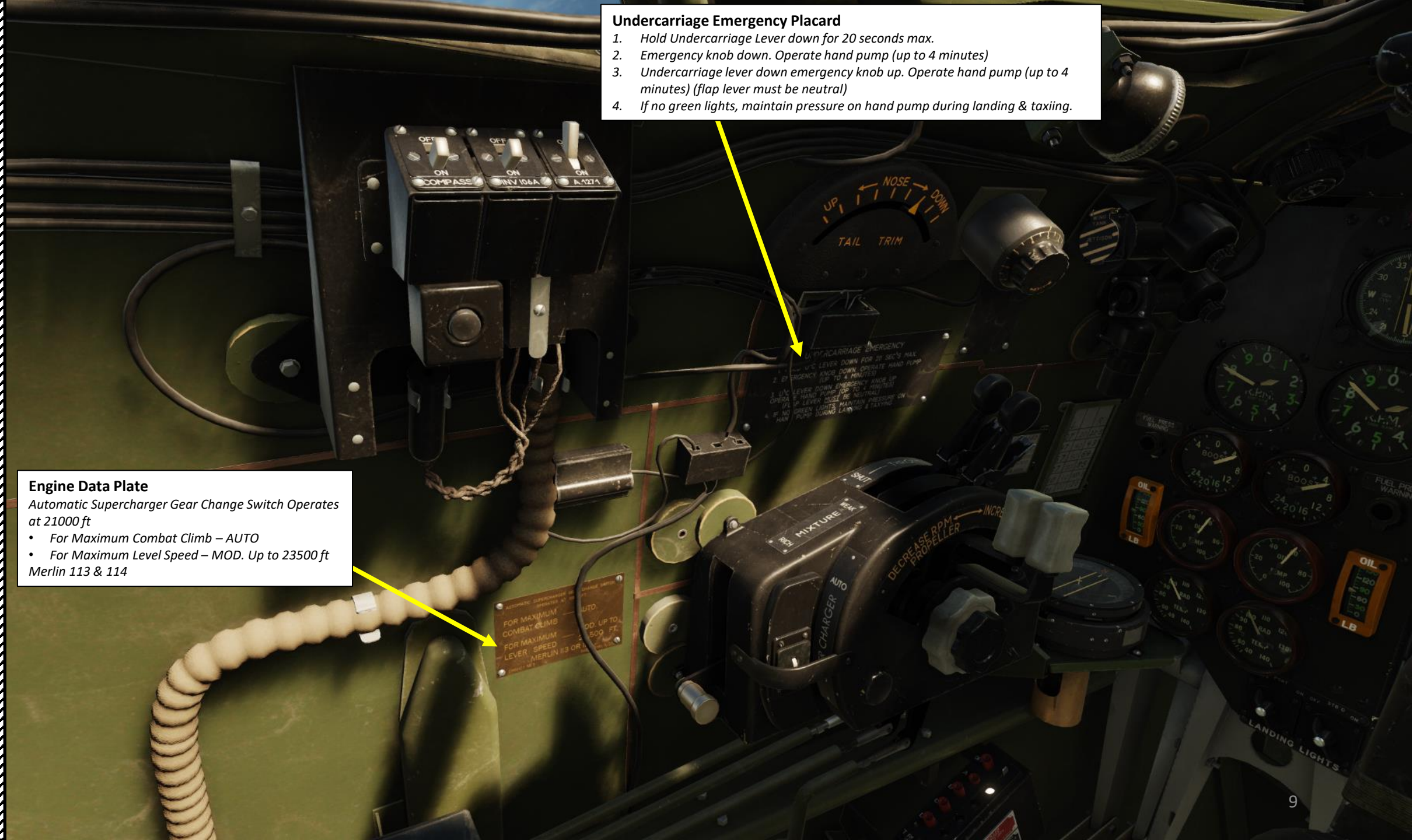
**Undercarriage Emergency Placard**

1. Hold Undercarriage Lever down for 20 seconds max.
2. Emergency knob down. Operate hand pump (up to 4 minutes)
3. Undercarriage lever down emergency knob up. Operate hand pump (up to 4 minutes) (flap lever must be neutral)
4. If no green lights, maintain pressure on hand pump during landing & taxiing.

**Engine Data Plate**

Automatic Supercharger Gear Change Switch Operates at 21000 ft

- For Maximum Combat Climb – AUTO
  - For Maximum Level Speed – MOD. Up to 23500 ft
- Merlin 113 & 114





Seat Height  
Adjustment Lever



EMERGENCY  
FOR 20 SEC'S MAX  
OPERATE HAND PUMP  
(UP TO 4 MINUTES)  
EMERGENCY KNOB DOWN  
3. U/C LEVER DOWN EMERGENCY KNOB UP  
OPERATE HAND PUMP (OP TO 4 MINUTES)  
(FLAP LEVER MUST BE NEUTRAL)  
4. IF NO GREEN LIGHTS MAINTAIN PRESSURE ON  
HAND PUMP DURING LANDING & TAXIING

FOR MAXIMUM  
COMBAT CLIMB  
FOR MAXIMUM  
LEVER SPEED  
MERLIN IS OP

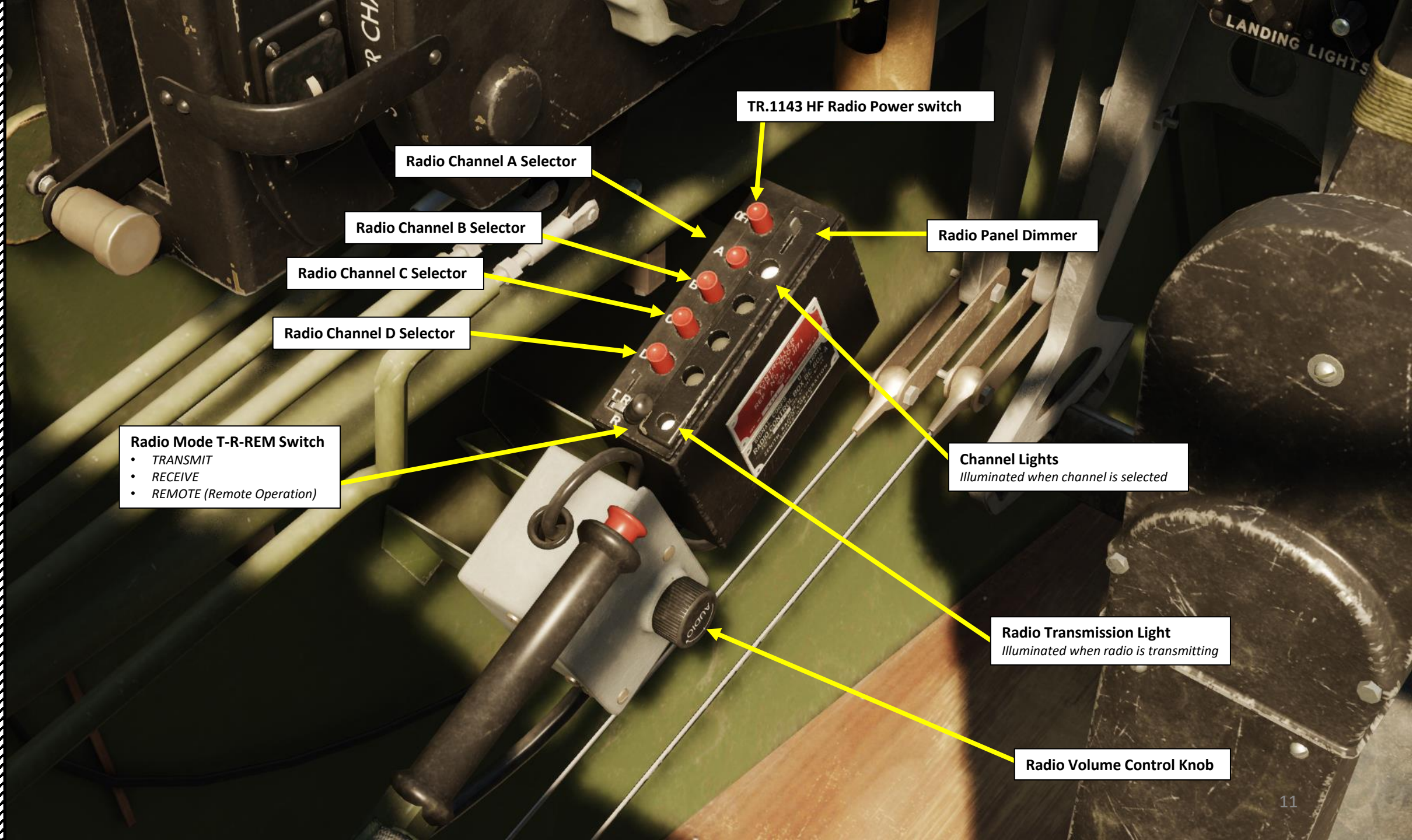
RICH MIXTURE LEAN

DECREASE RPM  
PROPELLER

INCH

SHUT THROTTLE

CHARGER AMP



TR.1143 HF Radio Power switch

Radio Channel A Selector

Radio Channel B Selector

Radio Channel C Selector

Radio Channel D Selector

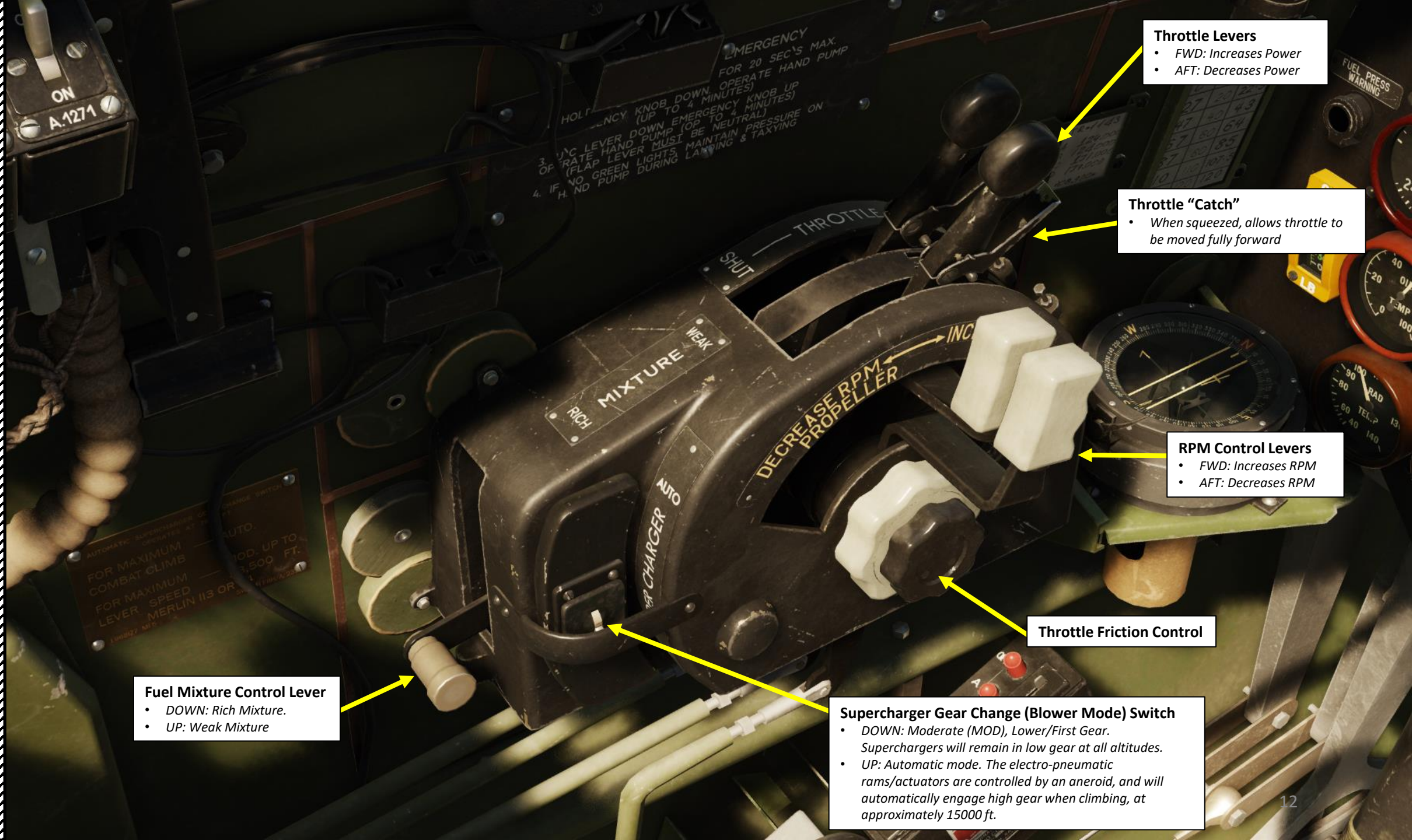
Radio Panel Dimmer

**Radio Mode T-R-REM Switch**  
• TRANSMIT  
• RECEIVE  
• REMOTE (Remote Operation)

**Channel Lights**  
*Illuminated when channel is selected*

**Radio Transmission Light**  
*Illuminated when radio is transmitting*

**Radio Volume Control Knob**



**Throttle Levers**

- FWD: Increases Power
- AFT: Decreases Power

**Throttle "Catch"**

- When squeezed, allows throttle to be moved fully forward

**RPM Control Levers**

- FWD: Increases RPM
- AFT: Decreases RPM

**Throttle Friction Control**

**Supercharger Gear Change (Blower Mode) Switch**

- DOWN: Moderate (MOD), Lower/First Gear. Superchargers will remain in low gear at all altitudes.
- UP: Automatic mode. The electro-pneumatic rams/actuators are controlled by an aneroid, and will automatically engage high gear when climbing, at approximately 15000 ft.

**Fuel Mixture Control Lever**

- DOWN: Rich Mixture.
- UP: Weak Mixture

EMERGENCY  
FOR 20 SEC'S MAX.  
(UP TO 4 MINUTES)  
EMERGENCY KNOB DOWN, OPERATE HAND PUMP  
(UP TO 4 MINUTES)  
EMERGENCY KNOB UP  
(FLAP LEVER MUST BE NEUTRAL)  
EMERGENCY KNOB DOWN, OPERATE HAND PUMP  
(UP TO 4 MINUTES)  
EMERGENCY KNOB UP  
(FLAP LEVER MUST BE NEUTRAL)  
EMERGENCY KNOB DOWN, OPERATE HAND PUMP  
(UP TO 4 MINUTES)  
EMERGENCY KNOB UP  
(FLAP LEVER MUST BE NEUTRAL)

FOR MAXIMUM  
COMBAT CLIMB  
FOR MAXIMUM  
LEVER SPEED  
MERLIN IIS OR  
15,500 FT.



Elevator Trim Control Tab Indicator

Cockpit UV (Ultraviolet) Light  
Turn to adjust

External Wing Fuel Tank Jettison Button  
Flip safety cover, then press button to jettison  
external wing fuel tanks

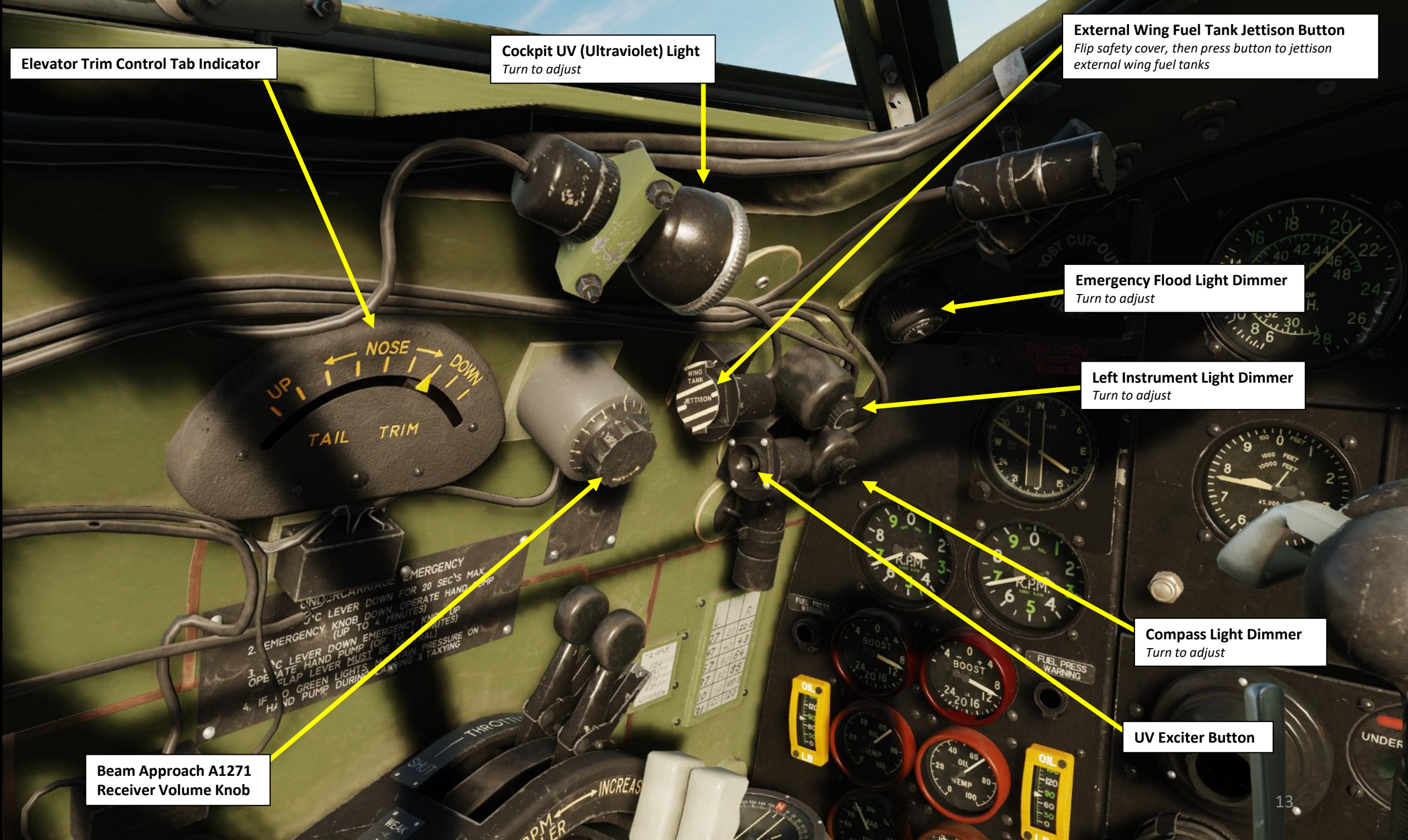
Emergency Flood Light Dimmer  
Turn to adjust

Left Instrument Light Dimmer  
Turn to adjust

Compass Light Dimmer  
Turn to adjust

UV Exciter Button

Beam Approach A1271  
Receiver Volume Knob





UNDERCARRIAGE EMERGENCY  
UPPER LEVER DOWN FOR 20 SEC'S MAX.  
EMERGENCY KNOB DOWN. OPERATE HAND PUMP  
(UP TO 4 MINUTES)  
LOWER LEVER DOWN EMERGENCY KNOB UP  
(UP TO 4 MINUTES)  
HAND PUMP (OP TO 4 MINUTES)  
AP LEVER MUST BE NEUTRAL  
GREEN LIGHTS. MAINTAIN PRESSURE ON  
HAND PUMP DURING LANDING & TAXIING

TR.1143 Radio Channel  
Frequencies Placard (MHz)

TR.1143  
A 124.000  
B 124.000  
C 131.000  
D 139.000  
E 108.900

	L	R
27	20	22.5
47	40	43
67	60	64
87	80	85
10	110	107.5
31	120	120

THROTTLE

SHUT

MIXTURE WEAK

DECREASE RPM. PROPELLER

INCREASE RPM. PROPELLER

CHARGER AUTO

P8 Magnetic Compass

FUEL PRESS WARNING

OIL LB

BOOST

BOOST

TEMP

TEMP

TEMP

R.P.M. 1000 REV

R.P.M. 5000 R.P.H.



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## PART 3 - COCKPIT & EQUIPMENT



Shoulder Harness  
Release Lever

First Aid Kit



Gunsight



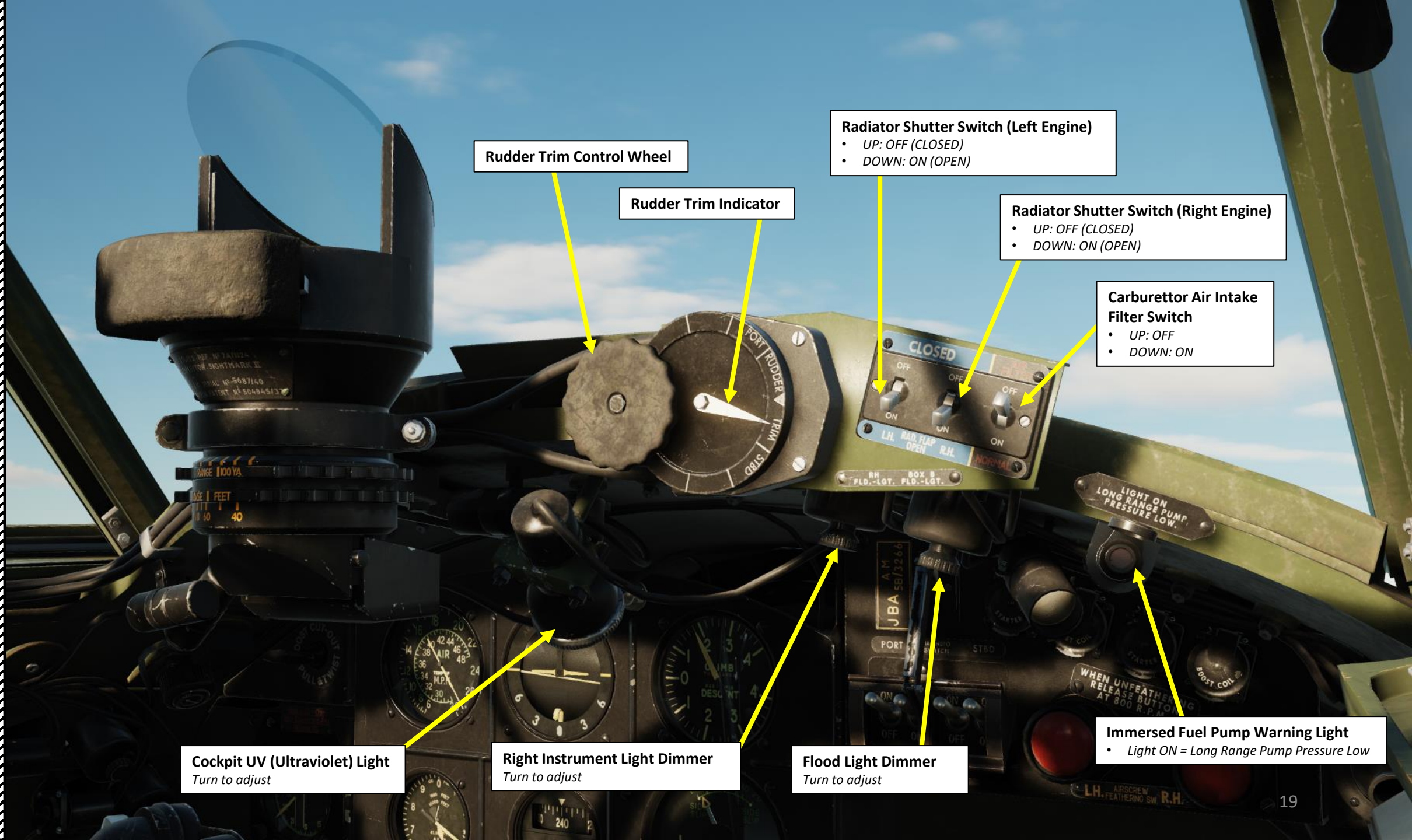
Gunsight Range Control (x100 yards)

Gunsight Target Wingspan Control (ft)



Wiper

Gunsight Brightness  
Intensity Control Knob



Rudder Trim Control Wheel

Rudder Trim Indicator

Radiator Shutter Switch (Left Engine)  
• UP: OFF (CLOSED)  
• DOWN: ON (OPEN)

Radiator Shutter Switch (Right Engine)  
• UP: OFF (CLOSED)  
• DOWN: ON (OPEN)

Carburettor Air Intake Filter Switch  
• UP: OFF  
• DOWN: ON

Cockpit UV (Ultraviolet) Light  
Turn to adjust

Right Instrument Light Dimmer  
Turn to adjust

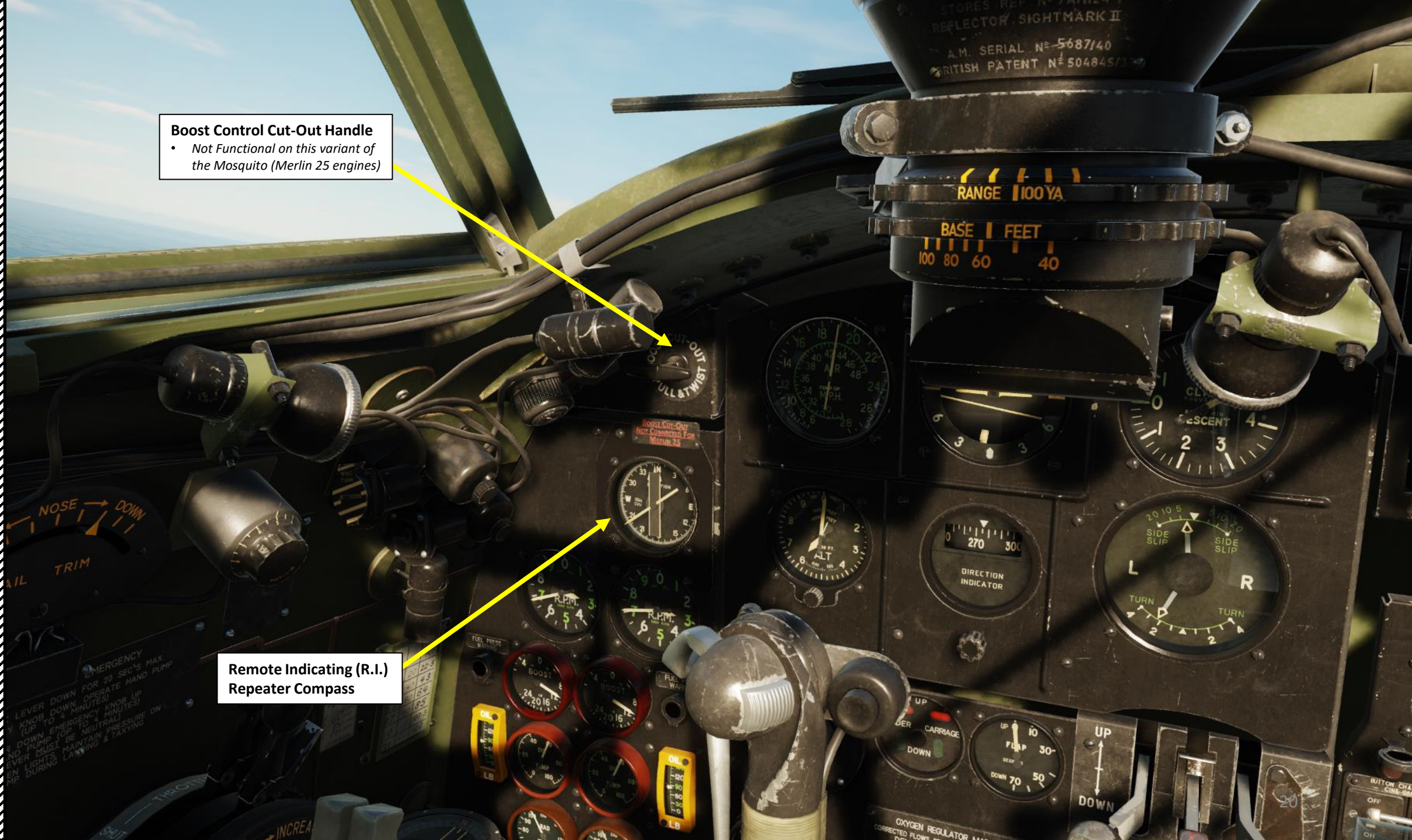
Flood Light Dimmer  
Turn to adjust

Immersed Fuel Pump Warning Light  
• Light ON = Long Range Pump Pressure Low



**Boost Control Cut-Out Handle**  
• Not Functional on this variant of the Mosquito (Merlin 25 engines)

**Remote Indicating (R.I.) Repeater Compass**





**Tachometer (Left Engine)**  
Inner Needle: x1000 RPM  
Outer Needle: x 100 RPM

**Boost Indicator (psi)  
(Left Engine)**  
• Similar to manifold pressure

**Low Fuel Pressure Warning Light  
(Left Engine)**  
Illuminates when main fuel pump  
pressure drops below 10 psi

**Oil Temperature Indicator (deg C)  
(Left Engine)**

**Oil Pressure Indicator (psi)  
(Left Engine)**

**Radiator Coolant Temperature Indicator (deg C)  
(Left Engine)**

BOOST CUT-OUT  
NOT CONNECTED FOR  
MERLIN 25



**Tachometer (Right Engine)**  
Inner Needle: x1000 RPM  
Outer Needle: x 100 RPM

**Boost Indicator (psi)  
(Right Engine)**  
• Similar to manifold pressure

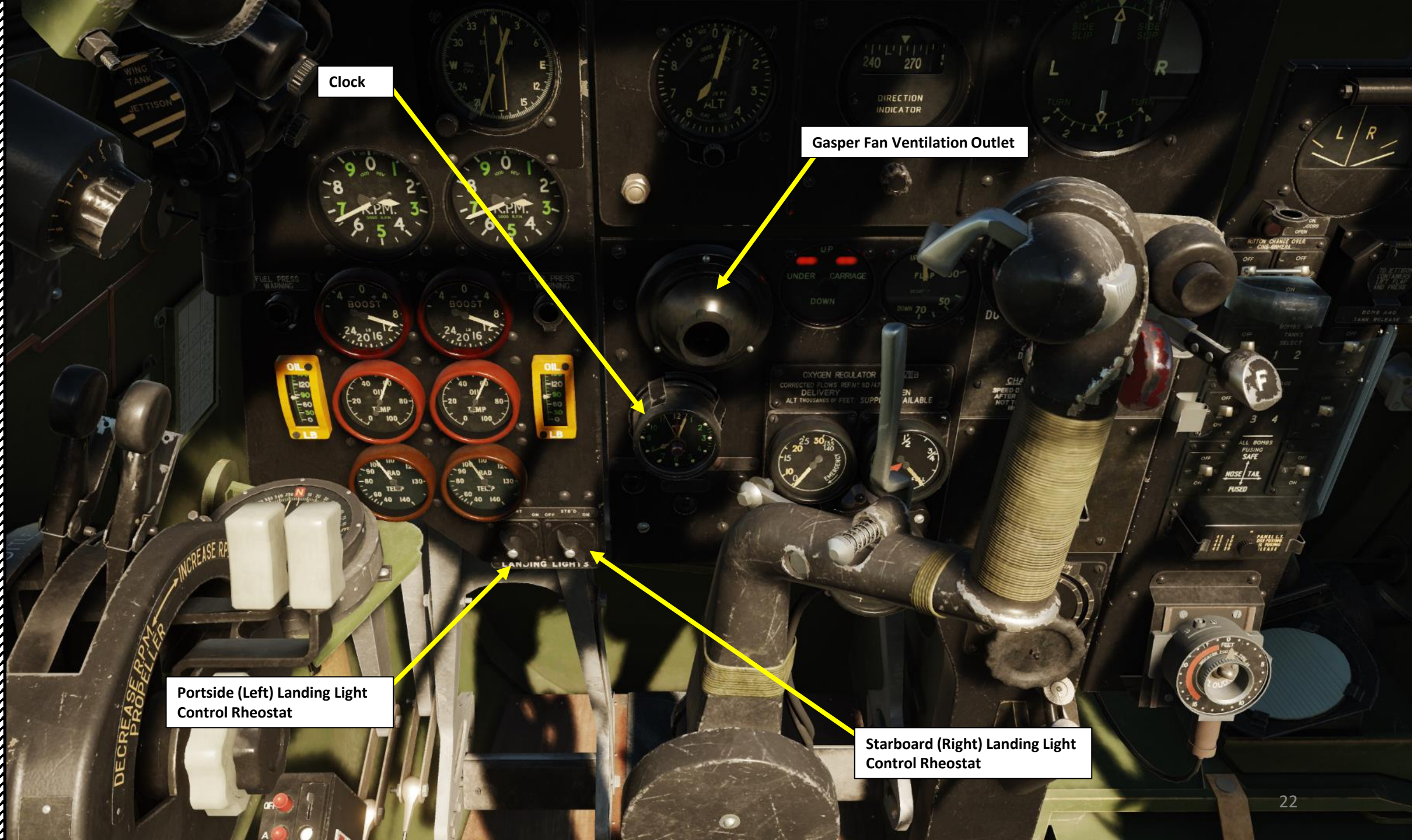
**Low Fuel Pressure Warning Light  
(Right Engine)**  
Illuminates when main fuel pump  
pressure drops below 10 psi

**Oil Temperature Indicator (deg C)  
(Right Engine)**

**Oil Pressure Indicator (psi)  
(Right Engine)**

**Radiator Coolant Temperature Indicator (deg C)  
(Right Engine)**

OXYGEN REGULATOR MARKING  
CORRECTED FLOWS REF: 6D/476  
DELIVERY OXYGEN  
ALT THOUSANDS OF FEET. SUPPLY AIR



Clock

Gasper Fan Ventilation Outlet

Portside (Left) Landing Light Control Rheostat

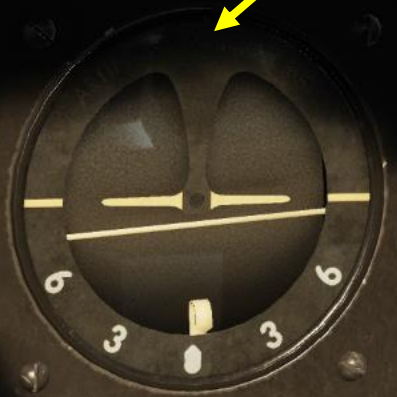
Starboard (Right) Landing Light Control Rheostat



**Airspeed Indicator (mph)**  
 Outer scale: airspeed from 60 to 280 mph  
 Inner scale: airspeed from 280 to 480 mph  
 • Note: the pilot needs to determine by himself whether the aircraft speed is within the outer or the inner scale since there is only one airspeed needle.



**Attitude Indicator**



**Vertical Speed Indicator (x1000 ft/min)**



**Turn and Slip Indicator**



**Altimeter**  
 Longest needle: x100 ft  
 Medium Thick needle: x1000 ft  
 Short Thin needle: x10000 ft



**Altimeter Barometric Pressure Setting (mBar/hPa)**



**Directional Gyro**



**Directional Gyro Adjustment Control Knob**



**Altimeter Barometric Pressure Adjustment Knob**





**Landing Gear (Undercarriage) Position Indicator**

- UP (Red Light)
- DOWN (Green Light)

**Flaps Position Indicator (deg)**

**Landing Gear Control Lever Safety Catch**

- Shown locked. Prevents the landing gear lever from going to the UP position in order to prevent inadvertent landing gear retraction when the aircraft is on the ground.

**Flaps Control Lever Safety Catch**

- Shown locked. Prevents the flap lever from going to the DOWN position in order to prevent inadvertent flap deployment during flight at high speeds.

**Bomb Doors Selector**

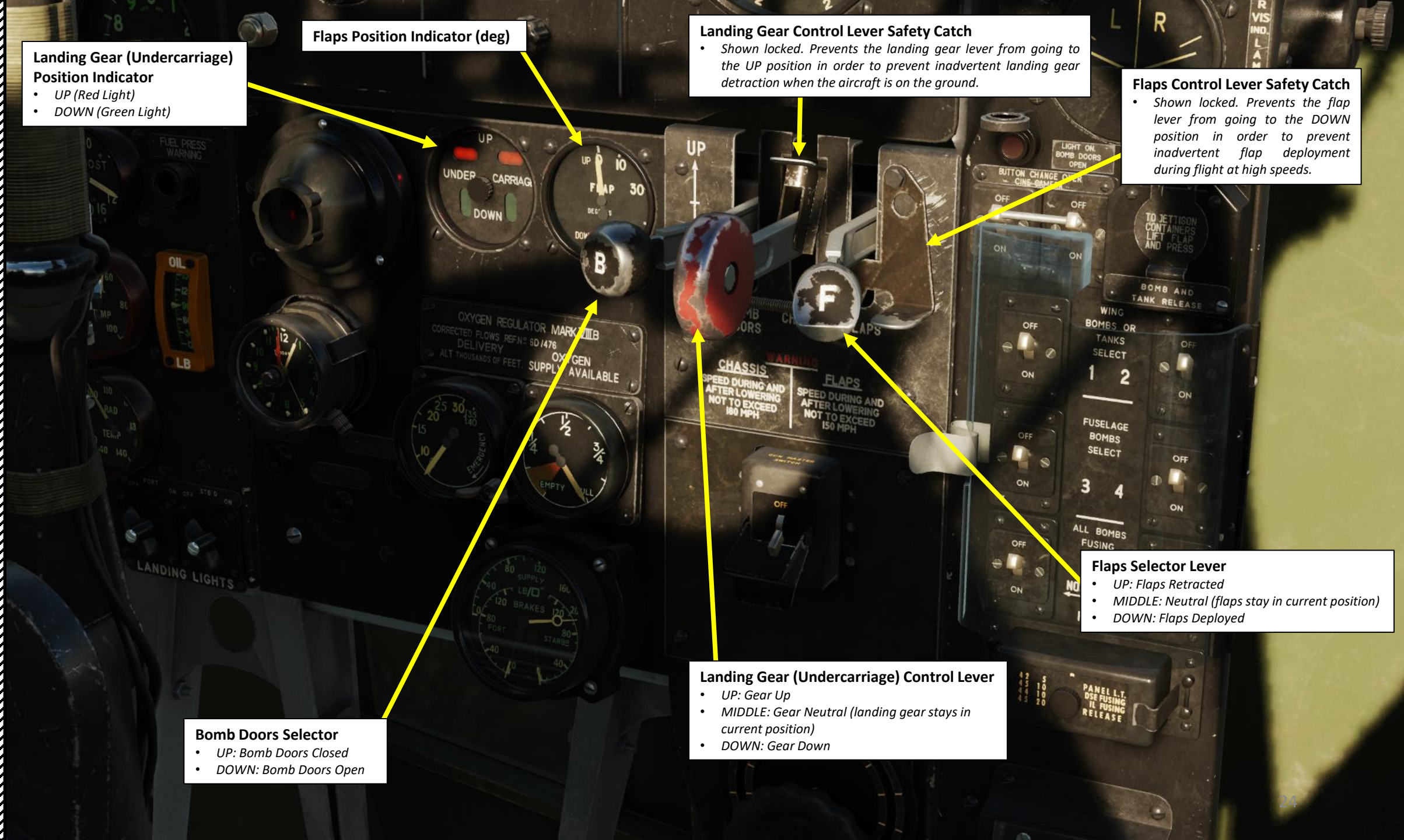
- UP: Bomb Doors Closed
- DOWN: Bomb Doors Open

**Landing Gear (Undercarriage) Control Lever**

- UP: Gear Up
- MIDDLE: Gear Neutral (landing gear stays in current position)
- DOWN: Gear Down

**Flaps Selector Lever**

- UP: Flaps Retracted
- MIDDLE: Neutral (flaps stay in current position)
- DOWN: Flaps Deployed



Pilot Oxygen  
Quantity Indicator

Pilot Oxygen Pressure  
Indicator (psi)

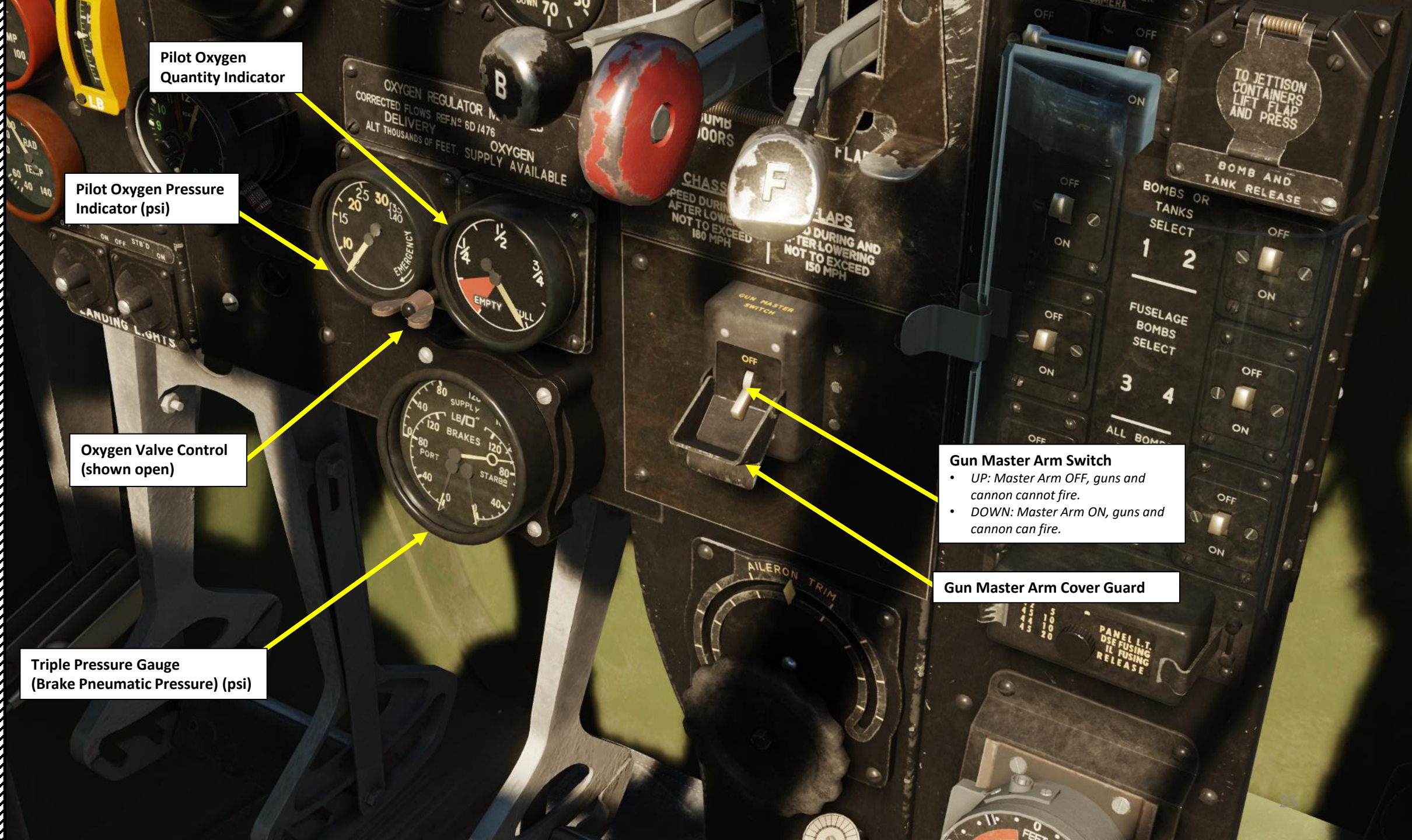
Oxygen Valve Control  
(shown open)

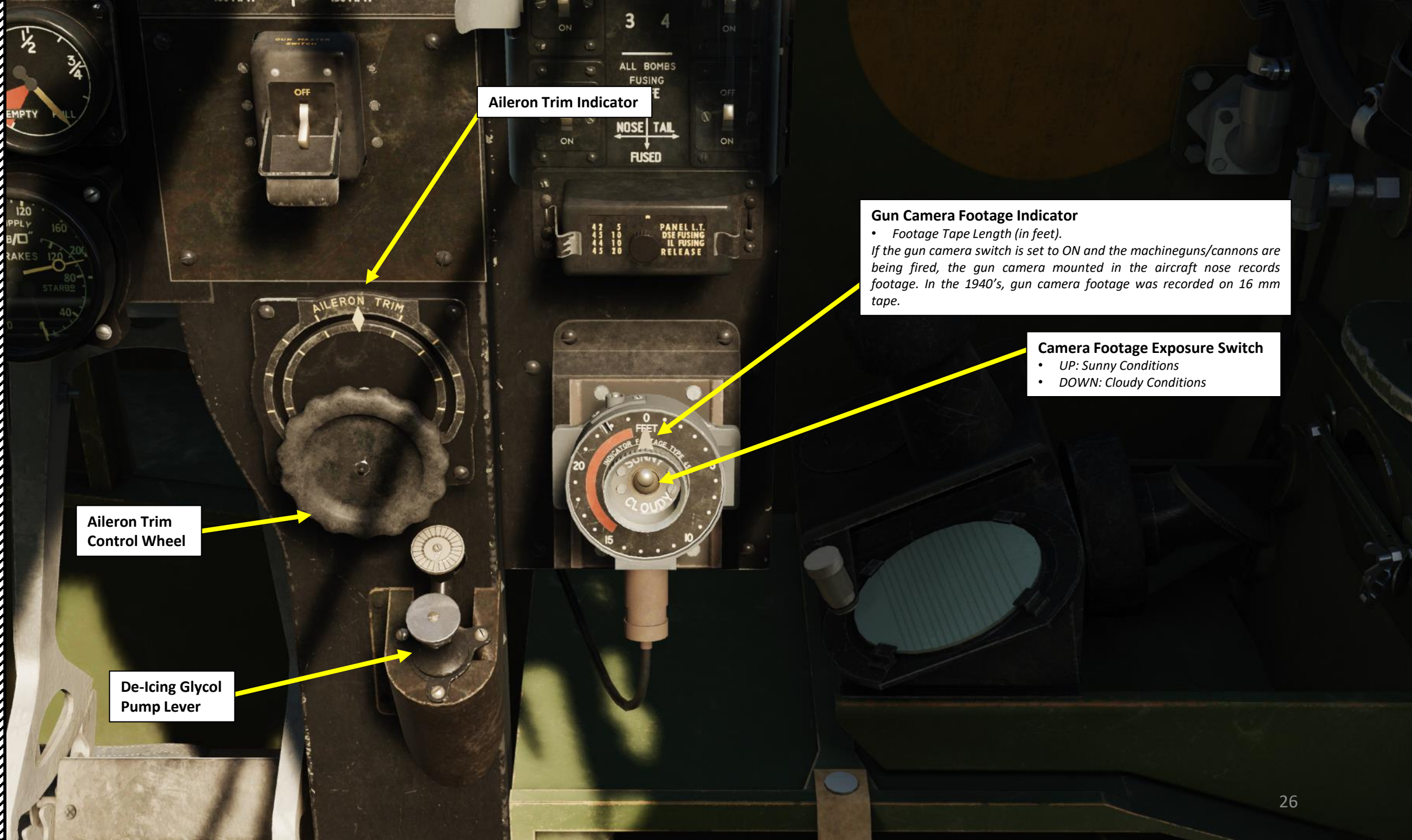
Triple Pressure Gauge  
(Brake Pneumatic Pressure) (psi)

**Gun Master Arm Switch**

- UP: Master Arm OFF, guns and cannon cannot fire.
- DOWN: Master Arm ON, guns and cannon can fire.

**Gun Master Arm Cover Guard**





Aileron Trim Indicator

Gun Camera Footage Indicator

- Footage Tape Length (in feet).

If the gun camera switch is set to ON and the machineguns/cannons are being fired, the gun camera mounted in the aircraft nose records footage. In the 1940's, gun camera footage was recorded on 16 mm tape.

Camera Footage Exposure Switch

- UP: Sunny Conditions
- DOWN: Cloudy Conditions

Aileron Trim Control Wheel

De-icing Glycol Pump Lever



Engine Starter Button (with cover)  
(Left Engine)

Engine Booster Coil Button (with  
cover) (Left Engine)

Engine Starter Button (with cover)  
(Right Engine)

Engine Booster Coil Button (with  
cover) (Right Engine)

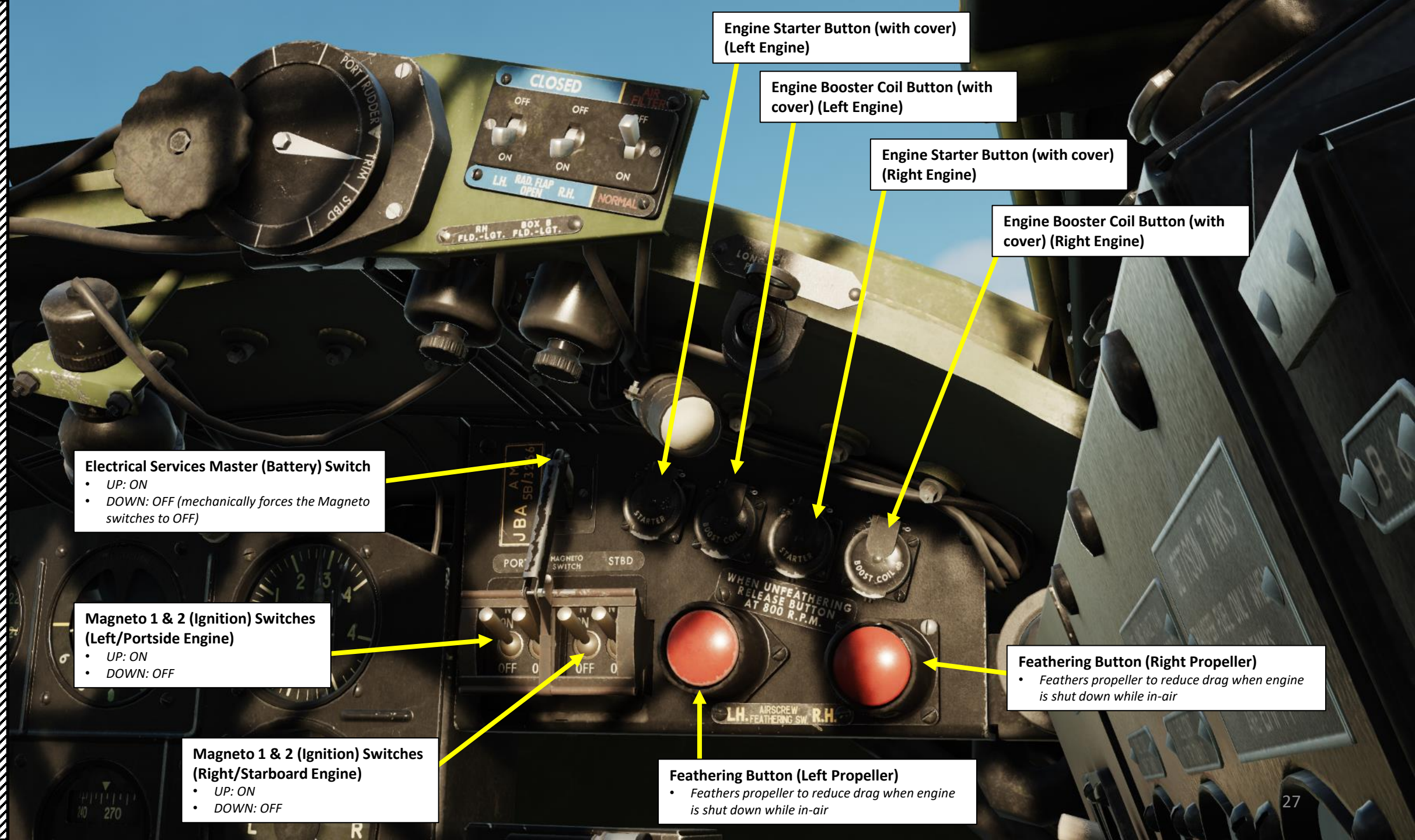
Electrical Services Master (Battery) Switch  
• UP: ON  
• DOWN: OFF (mechanically forces the Magneto  
switches to OFF)

Magneto 1 & 2 (Ignition) Switches  
(Left/Portside Engine)  
• UP: ON  
• DOWN: OFF

Magneto 1 & 2 (Ignition) Switches  
(Right/Starboard Engine)  
• UP: ON  
• DOWN: OFF

Feathering Button (Left Propeller)  
• Feathers propeller to reduce drag when engine  
is shut down while in-air

Feathering Button (Right Propeller)  
• Feathers propeller to reduce drag when engine  
is shut down while in-air





Gasper Fan Ventilation Outlet

**Direction Finding Left (L) Needle**

To navigate towards D/F emitter, needle must be centered

**Direction Finding (DF) Indicator**

**Bomb Control Panel Flood Light Dimmer**

**Direction Finding Right (R) Needle**

To navigate towards D/F emitter, needle must be centered

**Bomb Doors Warning Light**

Illuminates when bomb doors are OPEN

**Bomb Containers and Wing Drop Tanks Jettison Button (with cover guard)**

**Bombs or Camera Changeover Switch**

- UP: OFF (Gun Cine Camera Selected, Bombs not Selected)
- DOWN: ON (Bombs Selected, Gun Cine Camera not Selected)

**Wing Bombs 2 (or Tank) Selector Switch**

- UP: OFF
- DOWN: ON (Selected)

**Wing Bombs 1 (or Tank) Selector Switch**

- UP: OFF
- DOWN: ON (Selected)

**Bomb Control Panel Protective Glass**

**Bomb Control Panel Protective Glass Handle (click to open or close the glass)**

**Inner Bay Bombs 4 Selector Switch**

- UP: OFF
- DOWN: ON (Selected)

**Inner Bay Bombs 3 Selector Switch**

- UP: OFF
- DOWN: ON (Selected)

**Bomb Tail Fuzing Switch**

- UP: Fuze OFF
- DOWN: Fuze ARMED

**Bomb Nose Fuzing Switch**

- UP: Fuze OFF
- DOWN: Fuze ARMED

**Bomb Fusing Box**



### Drift Scale

A drift meter consists of a small telescope extended vertically through the bottom of the aircraft with the eyepiece inside the fuselage at the navigator's station. A reticle, normally consisting of spaced parallel lines, is rotated until objects on the ground are seen to be moving parallel to the vertical lines. The angle of the reticle then indicates the aircraft's drift angle due to winds aloft. It is also used to calculate the ground speed by measuring the time it takes for an object on the ground to pass from the upper to the lower horizontal line of the reticle.

Drift sights were used to estimate the sideways drift over the ground caused by crosswind. Calculating drift is important for both high level bombing and long distance navigation. This is particularly relevant for over water navigation due to the absence of ground references to obtain fixes.

Feel free to consult this link for museum photos:

<https://www.britmodeller.com/forums/index.php?/topic/235068711-mosquito-fbvi-drift-sight-questions/&do=findComment&comment=3597530>

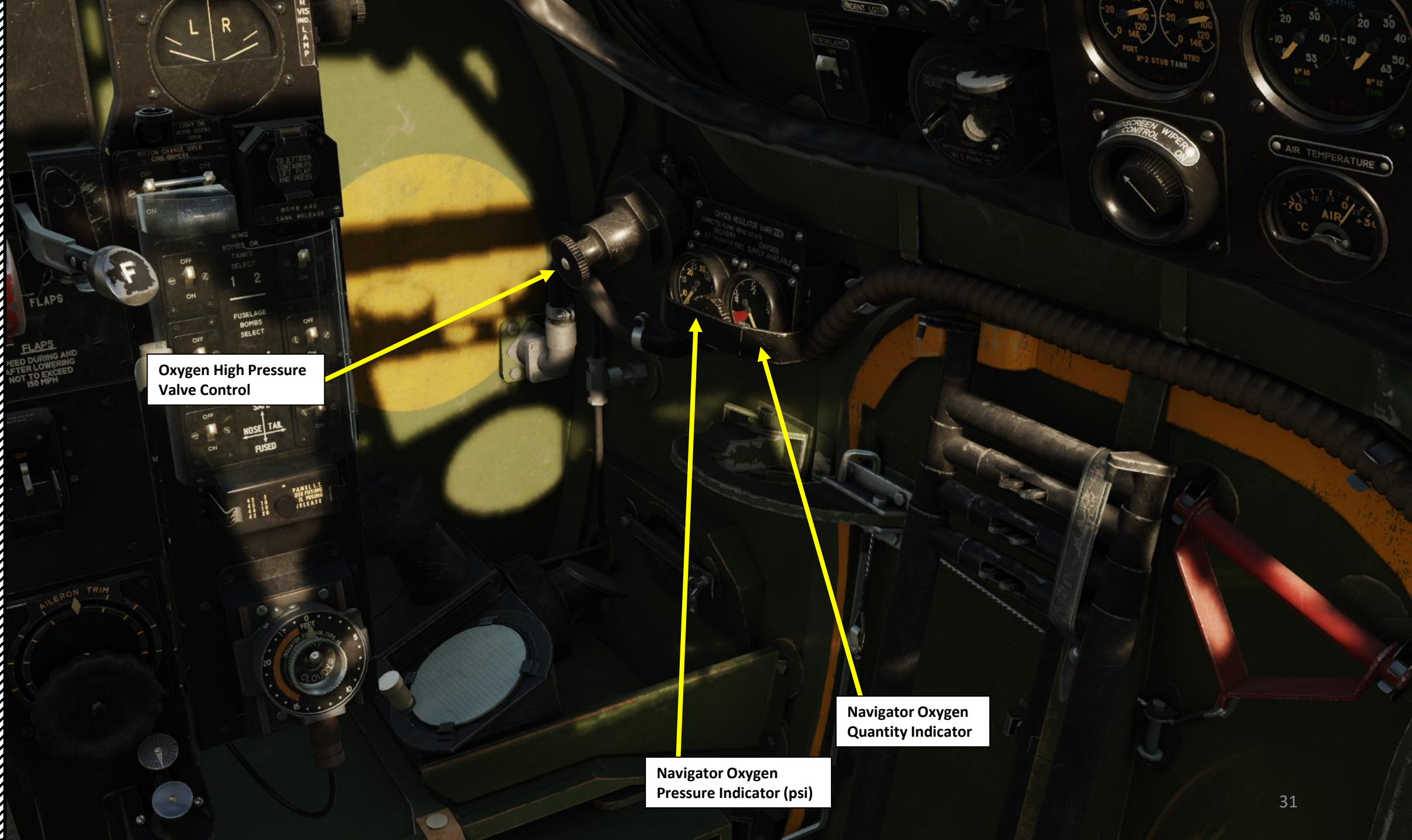


### Periscopic Drift Sight

Stowed Position. When in use, the sight is slid to the right so that the periscope head is outside the aircraft looking down.

Periscope Head  
Access Door

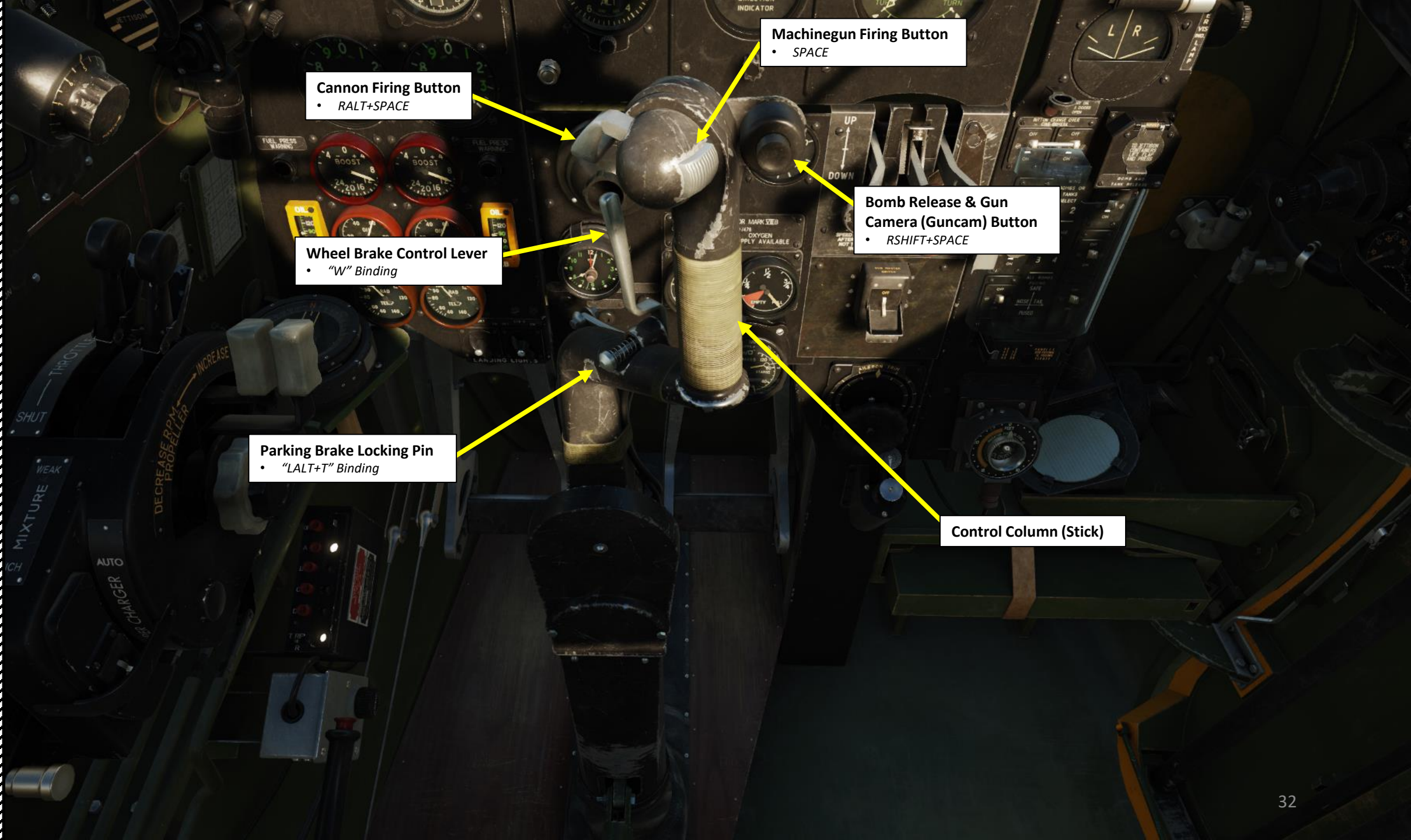
Drift Recorder



Oxygen High Pressure Valve Control

Navigator Oxygen Pressure Indicator (psi)

Navigator Oxygen Quantity Indicator



**Cannon Firing Button**  
• RALT+SPACE

**Machinegun Firing Button**  
• SPACE

**Bomb Release & Gun  
Camera (Guncam) Button**  
• RSHIFT+SPACE

**Wheel Brake Control Lever**  
• "W" Binding

**Parking Brake Locking Pin**  
• "LALT+T" Binding

**Control Column (Stick)**



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# PART 3 - COCKPIT & EQUIPMENT



Rudder Pedals



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### PART 3 - COCKPIT & EQUIPMENT



Right Window Lock



**Ultraviolet (UV) Lights Switch**

- DOWN: ON
- UP: OFF

**Navigation Lights Switch**

- DOWN: ON
- UP: OFF

**Cine-Camera Master Switch**

- DOWN: ON
- UP: OFF

**Pressure-Head (Pitot Tube) Heater Switch**

- DOWN: ON
- UP: OFF

**Immersed Fuel Pump Switch**

- DOWN: ON
- UP: OFF

**Reflector Gunsight Power Switch**

- DOWN: ON
- UP: OFF

**IFF (Identify-Friend-or-Foe)  
Detonator Pushbuttons**

**Fire Extinguisher Pushbutton**

*Portside (Left) Engine*

**Fire Extinguisher Pushbutton**

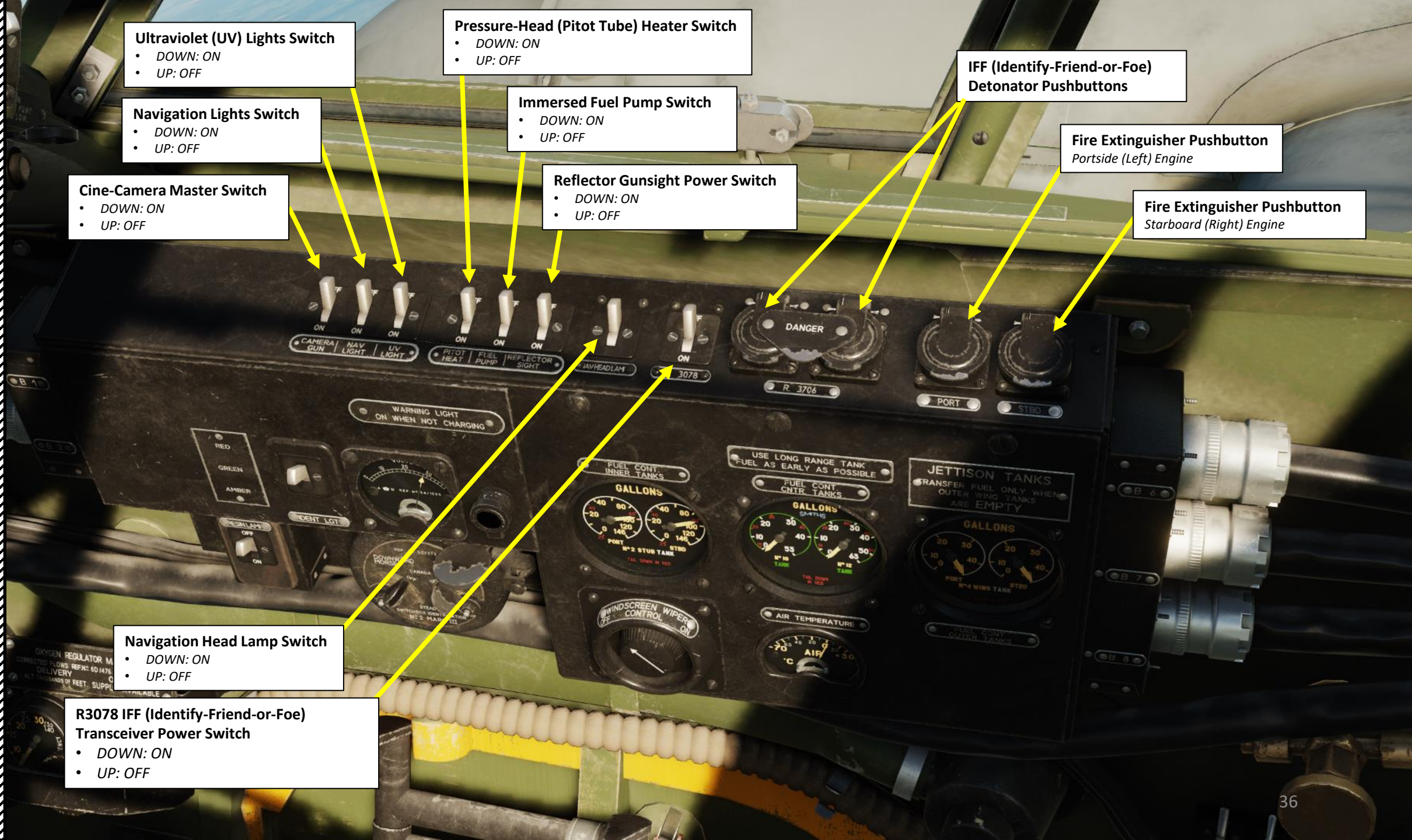
*Starboard (Right) Engine*

**Navigation Head Lamp Switch**

- DOWN: ON
- UP: OFF

**R3078 IFF (Identify-Friend-or-Foe)  
Transceiver Power Switch**

- DOWN: ON
- UP: OFF



**Identification Lights  
Color Selector Switch**

- UP: Red
- MIDDLE: Green
- DOWN: Amber

**RESIN (Restricted Intensity)  
Lamps Switch**

- UP: OFF
- DOWN: ON

**Lower Identification (Air Recognition) Light Control  
Switch**

- STEADY (AFT) – Constantly illuminates
- OFF (MID)
- MORSE (FWD) – Illuminates when Morse switch is pressed

**Upper Identification (Air  
Recognition) Light Control Switch  
(Not Functional in the Mosquito)**

**Identification Light Morse switch**

Used to toggle identification lights to send morse signals

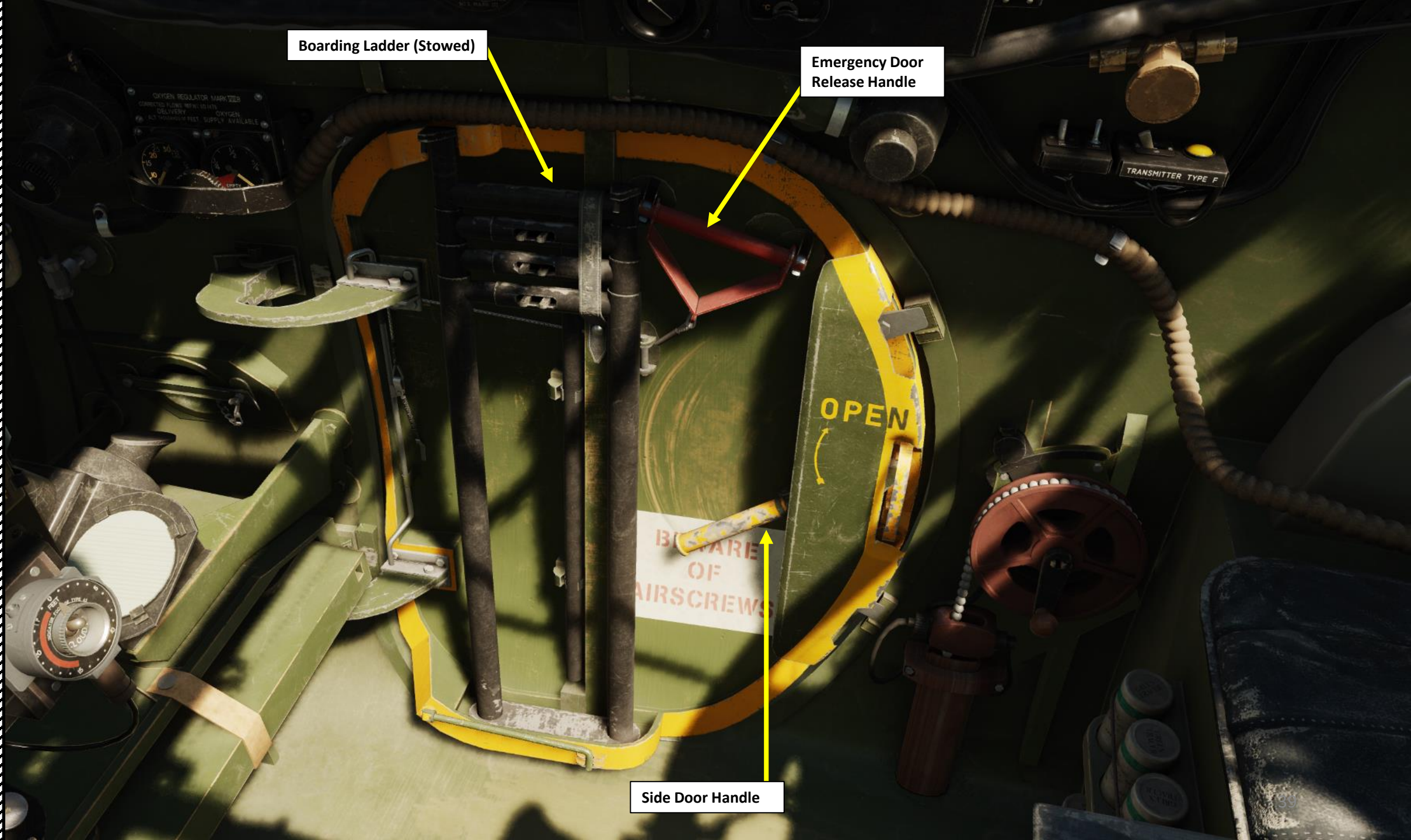






DH.98 MOSQUITO  
FB MK VI

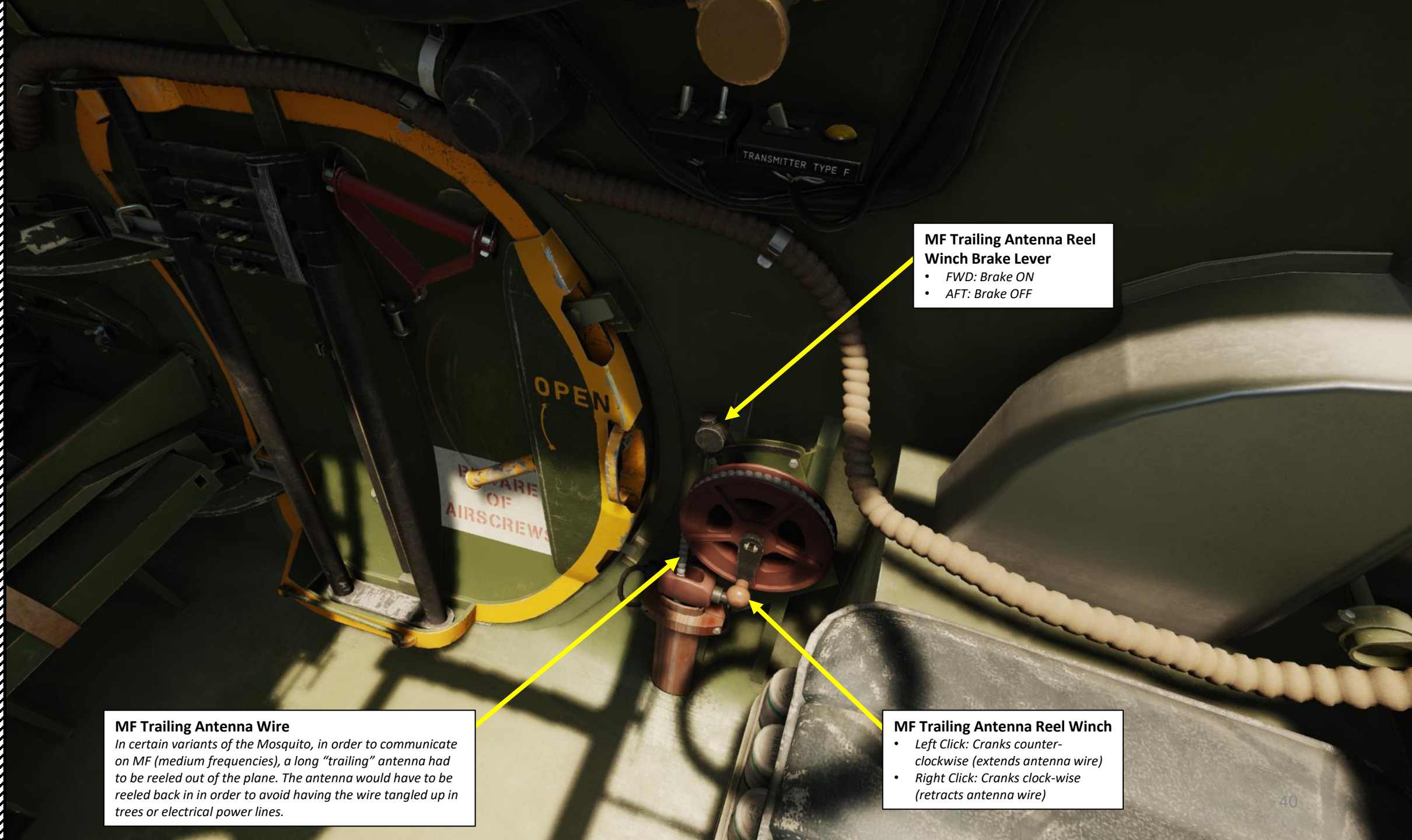
### PART 3 - COCKPIT & EQUIPMENT



Boarding Ladder (Stowed)

Emergency Door Release Handle

Side Door Handle



**MF Trailing Antenna Reel  
Winch Brake Lever**

- FWD: Brake ON
- AFT: Brake OFF

**MF Trailing Antenna Wire**

*In certain variants of the Mosquito, in order to communicate on MF (medium frequencies), a long “trailing” antenna had to be reeled out of the plane. The antenna would have to be reeled back in in order to avoid having the wire tangled up in trees or electrical power lines.*

**MF Trailing Antenna Reel Winch**

- Left Click: Cranks counter-clockwise (extends antenna wire)
- Right Click: Cranks clock-wise (retracts antenna wire)



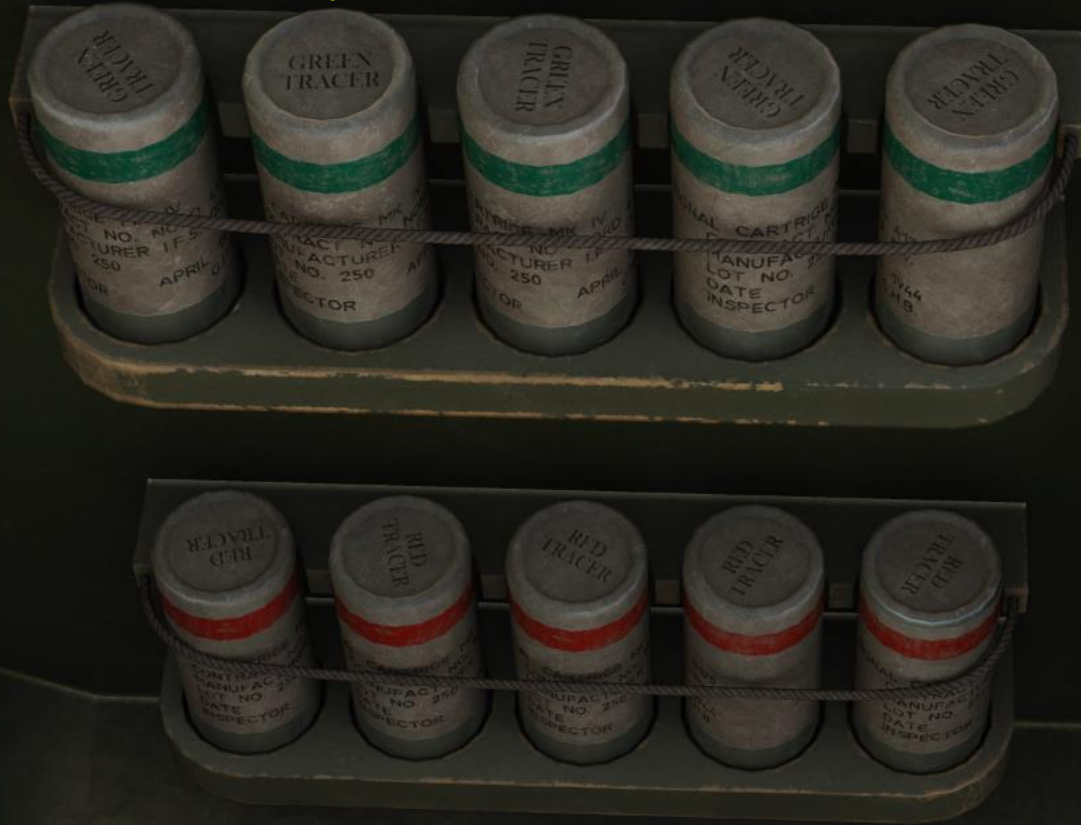
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### PART 3 – COCKPIT & EQUIPMENT





Signal Flare Cartridges



Hydraulic Hand Pump Socket

*Note: The hand pump handle is under the pilot seat and has to be screwed in the socket. Hand-pumping the landing gear down takes 4 minutes to build up enough pressure to successfully deploy and lock the landing gear for landing.*



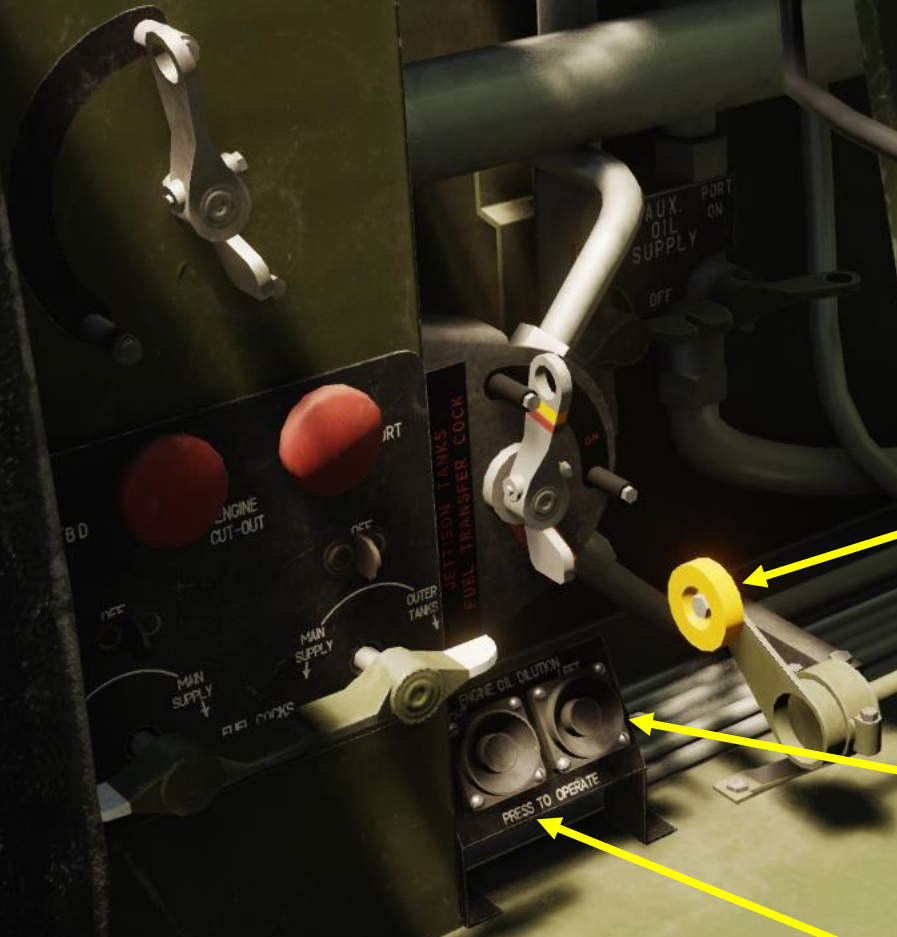
Oxygen Bottle



# PART 3 – COCKPIT & EQUIPMENT

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**Cockpit Heating Lever**  
• FWD: ON  
• AFT: OFF

**Left Engine Oil Dilution Button (Press to Operate)**

**Right Engine Oil Dilution Button (Press to Operate)**

**Fuel Tank Pressurization (Fuel Venting Cock) Control Handle**

- Vertical Position (Shown): Fuel Pressurization ON.
- Horizontal Position: Fuel Pressurization OFF.

**Auxiliary Oil Supply Control Handle**

- Vertical Position: OFF
- Horizontal Position (Shown): ON. This provides extra oil pressure boost for the left (left handle) or right (right handle) engine and enables the supply of lubricant from an external power supply.

**Fuel Transfer Valve Control Handle**

- Vertical Position (Shown): Fuel Transfer Valve Close (OFF)
- Horizontal Position: Fuel Transfer Valve Open (ON). Fuel pumps transfer fuel from the underwing tanks to the outer wing tanks



**Right Engine Fuel Cut-Out Handle**

- Pulled OUT: Fuel Valve Closed (Engine Cut-Out)
- Pushed IN: Fuel Valve Open

**Left Engine Fuel Cut-Out Handle**

- Pulled OUT: Fuel Valve Closed (Engine Cut-Out)
- Pushed IN: Fuel Valve Open

**Right Engine Fuel Cock Selector**

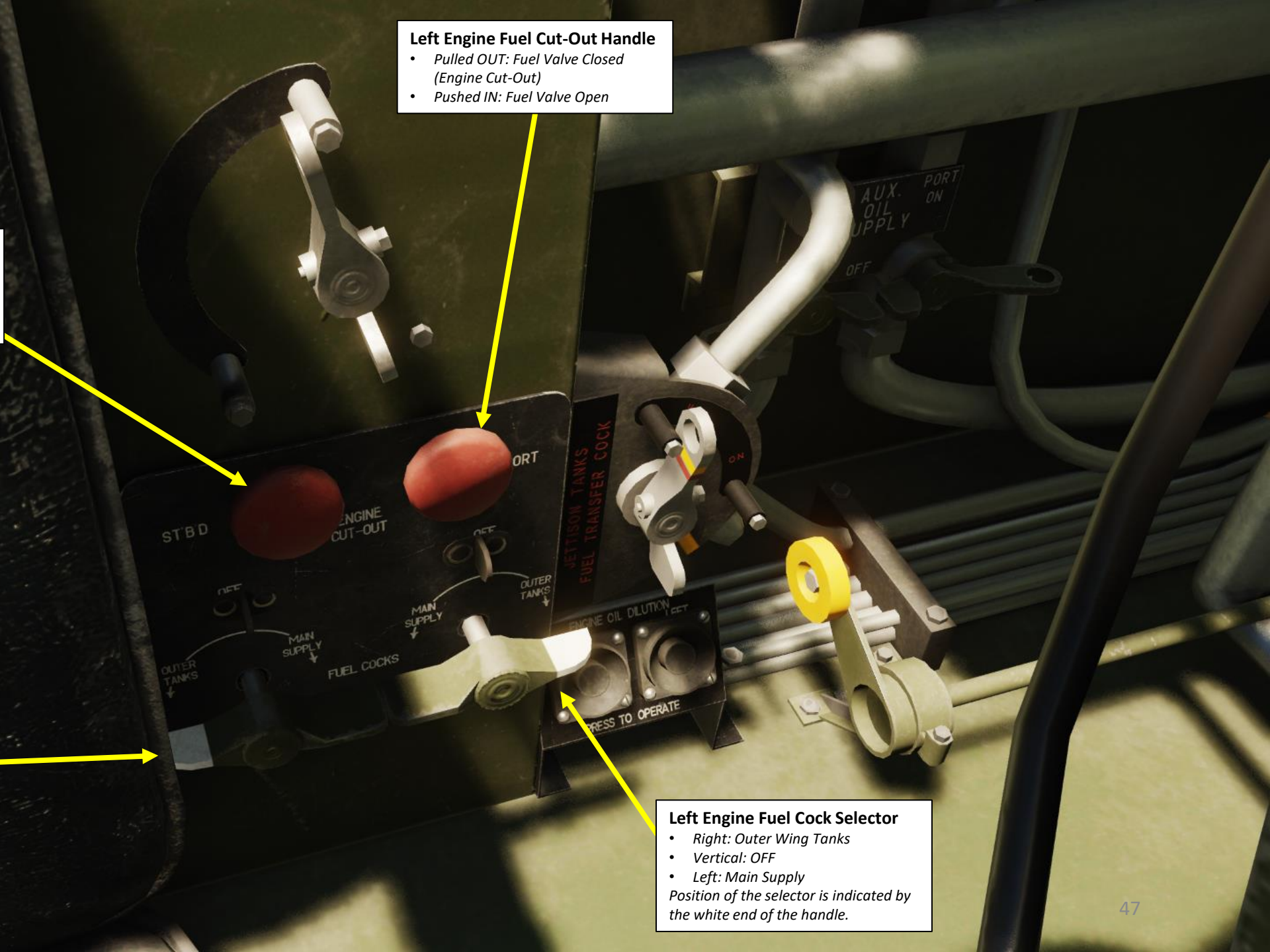
- Left: Outer Wing Tanks
- Vertical: OFF
- Right: Main Supply

Position of the selector is indicated by the white end of the handle.

**Left Engine Fuel Cock Selector**

- Right: Outer Wing Tanks
- Vertical: OFF
- Left: Main Supply

Position of the selector is indicated by the white end of the handle.





Armored  
Headrest

Armored Headrest Handle  
*Click on handle to allow the navigator  
to access rear compartment.*



Signal Flare Gun  
Socket

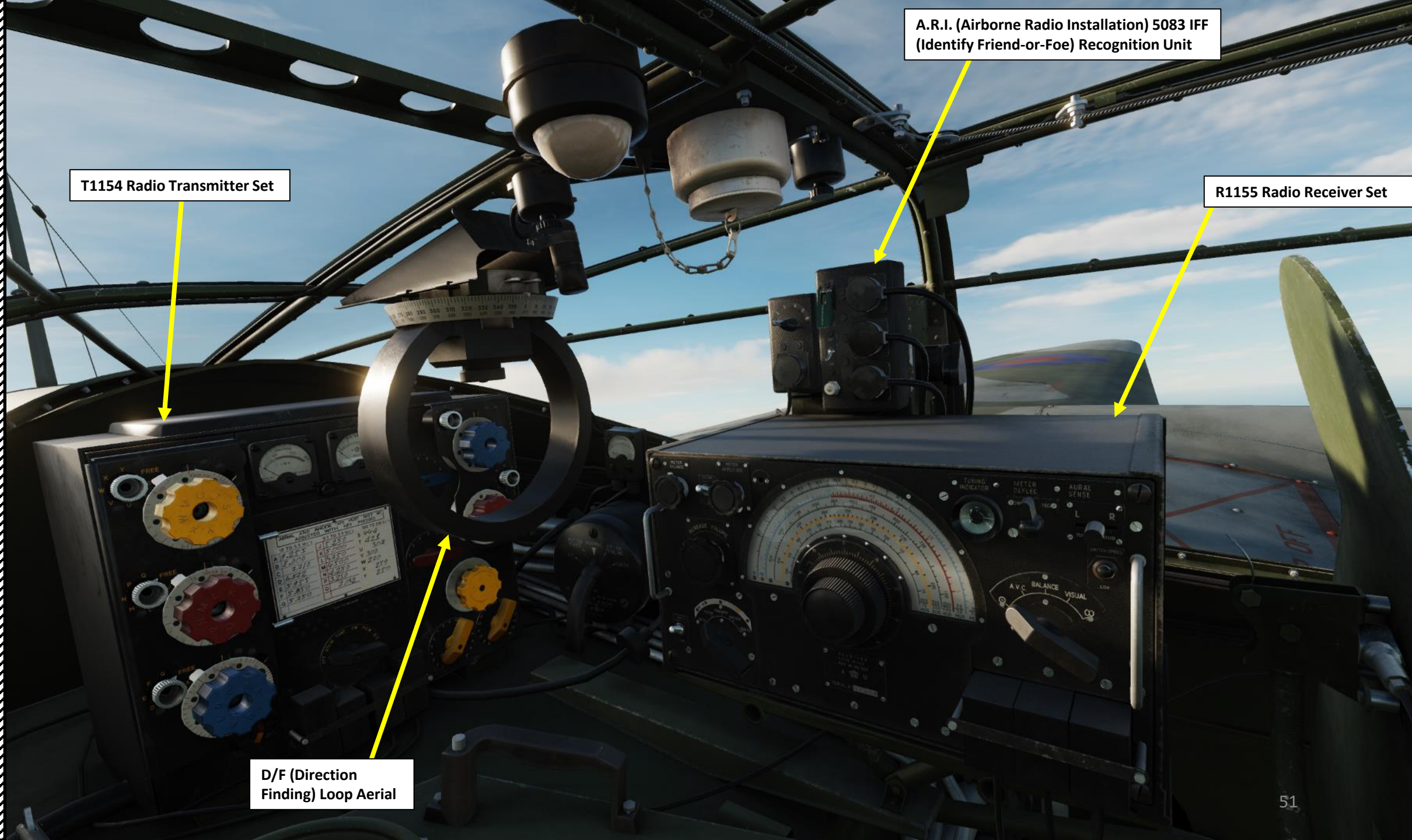




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## PART 3 – COCKPIT & EQUIPMENT





T1154 Radio Transmitter Set

A.R.I. (Airborne Radio Installation) 5083 IFF  
(Identify Friend-or-Foe) Recognition Unit

R1155 Radio Receiver Set

D/F (Direction  
Finding) Loop Aerial



Dome Light

Loop Aerial  
Light Dimmer

D/F Loop Aerial Lock  
*Locks the scale directional  
marking scale in position.*

D/F (Direction  
Finding) Loop Aerial  
(Antenna)

Dome Light Dimmer

Loop Aerial Light

D/F (Direction  
Finding) Loop Aerial  
Directional Markings

AERIAL AND ANODE TAPS MUST NOT BE ADJUSTED WITH KEY PRESSED

	10 TO 5.5 Mc's	5.5 TO 3.0 Mc's	300 TO 200 KC's
A	9.255	J 5.250	S 444
B	8.000	K 5.000	T 421
C	7.710	L 4.750	U 303
		M 4.500	V 300
			W 370

**A.R.I. 5083 IFF Detonator Switch**  
*Used to destroy the IFF system.*

**A.R.I. (Airborne Radio Installation) 5083 IFF  
(Identify Friend-or-Foe) Recognition Unit**

**A.R.I. 5083 IFF  
Channel Selector**

**A.R.I. 5083 IFF Power Switch**

- UP: ON
- DOWN: OFF





**Filter Switch**  
Switches between the meter balance and meter amplitude controls, so that the L/F filter may be switched off if desired.

**Meter Amplitude Control**  
Adjusts the needles of the visual indicator to a convenient point on the meter scale

**Heterodyne Pre-set Adjustment**  
Semi-variable condenser, with screwdriver adjustment which varies the beat frequency.

**Receiver Tuning Indicator Light**  
Illuminates when signal is received

**Meter Deflection Sensitivity Switch**  
Provides comparatively LOW sensitivity of the visual indicator for homing purposes, or HIGH sensitivity of the visual indicator when taking bearings by the visual method.

**Aural Sense Switch**

- L: Left sense determination using aural Direction Finding
- R: Right sense determination using aural Direction Finding
- Central position: OFF

**Meter Frequency Switch**  
Alters the switching frequency from 30 (LOW) to 80 (HIGH) cycles per second.

**R1155 Radio Receiver Set Master Selector Switch**

- **Omni (O):** All round reception.
- **A.V.C.:** Gives automatic volume control.
- **Balance.:** for Visual D/F (Direction Finding), for the purpose of matching the circuits and valves associated with the visual indicator.
- **Visual D/F.:** In this position, A.V.C. is in use.
- **Figure-of-Eight (∞):** Aural Direction Finding, bearings are taken on aural nulls, using the bandswitch for sense determination. The H/F gain is manually controlled, the A.V.C. being disconnected.

**R1155 Radio Receiver Set Frequency Range Switch**

- **18/75:** Range from 18.5 MHz to 7.5 MHz (H/F)
- **75/30:** Range from 7.5 MHz to 3.0 MHz (H/F, used for Directional Finding)
- **1500/600:** Range from 1500 KHz to 600 KHz (M/F, used for Directional Finding)
- **500/700:** Range from 500 KHz to 200 KHz (M/F, used for Directional Finding)
- **200/75:** Range from 200 KHz to 75 KHz (M/F, used for Directional Finding)

**R1155 Radio Receiver Set**

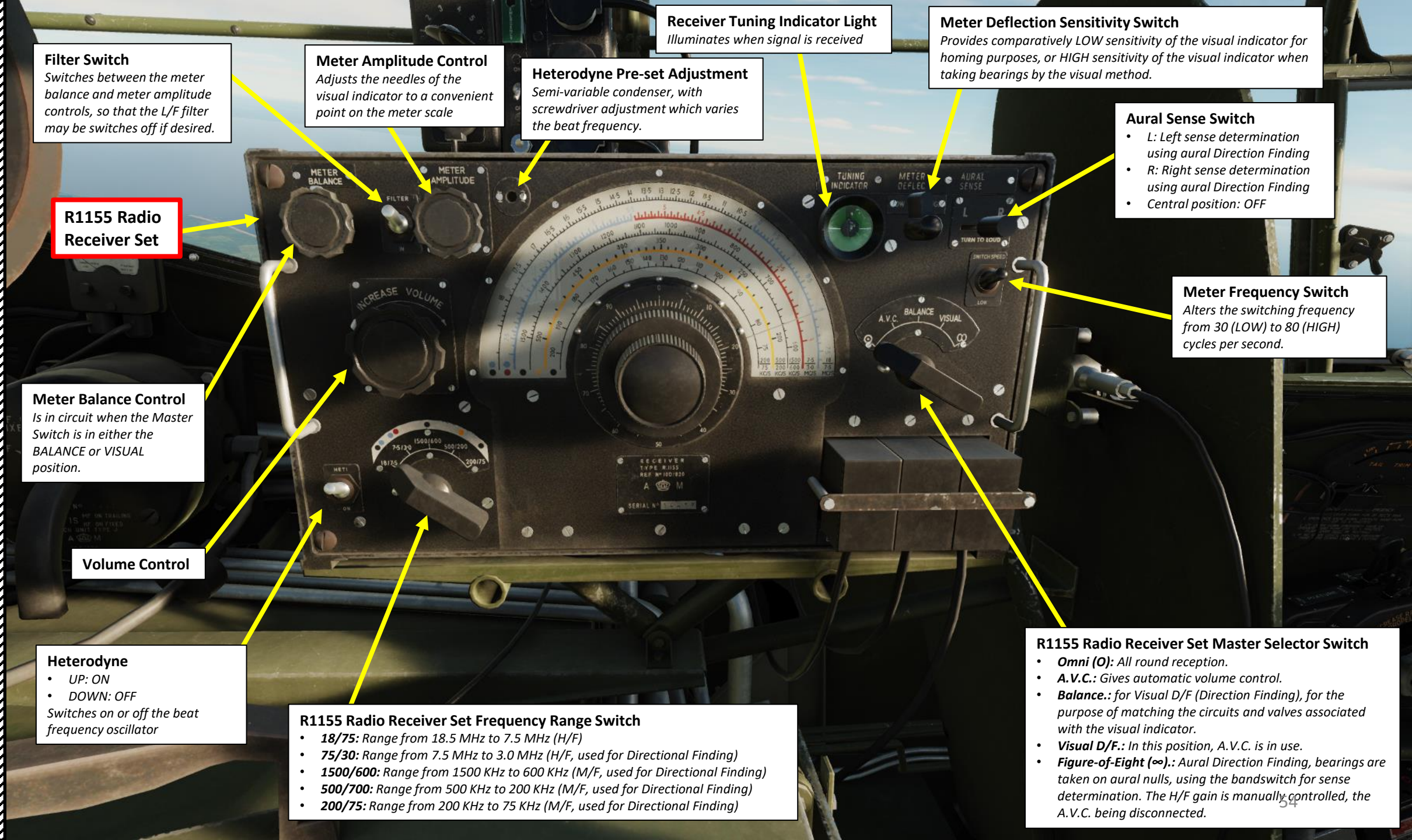
**Meter Balance Control**  
Is in circuit when the Master Switch is in either the BALANCE or VISUAL position.

**Volume Control**

**Heterodyne**

- UP: ON
- DOWN: OFF

Switches on or off the beat frequency oscillator





**R1155 Radio Receiver Set Tuning Scale**

- **Black Range:** from 18.5 MHz to 10 MHz
- **Blue Range:** from 10 MHz to 7.5 MHz

**R1155 Radio Receiver Set Tuning Scale**

- **Blue Range:** from 7.5 MHz to 5.5 MHz
- **Red Range:** from 5.5 MHz to 3.0 MHz

**R1155 Radio Receiver Set Tuning Scale**

- **Black Range:** from 1500 KHz to 600 KHz

**R1155 Radio Receiver Set Tuning Scale**

- **Yellow Range:** from 500 KHz to 200 KHz

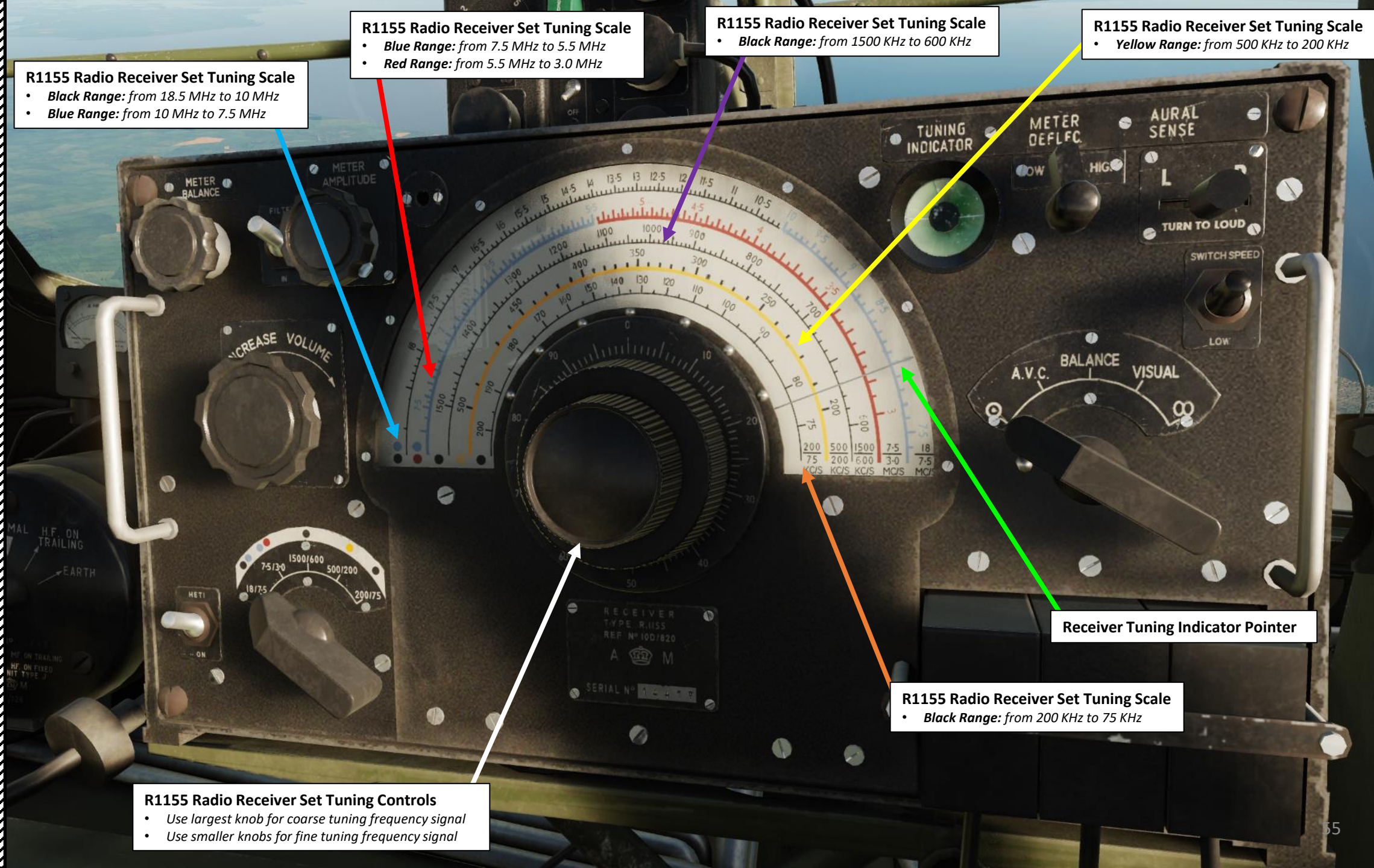
**R1155 Radio Receiver Set Tuning Scale**

- **Black Range:** from 200 KHz to 75 KHz

**R1155 Radio Receiver Set Tuning Controls**

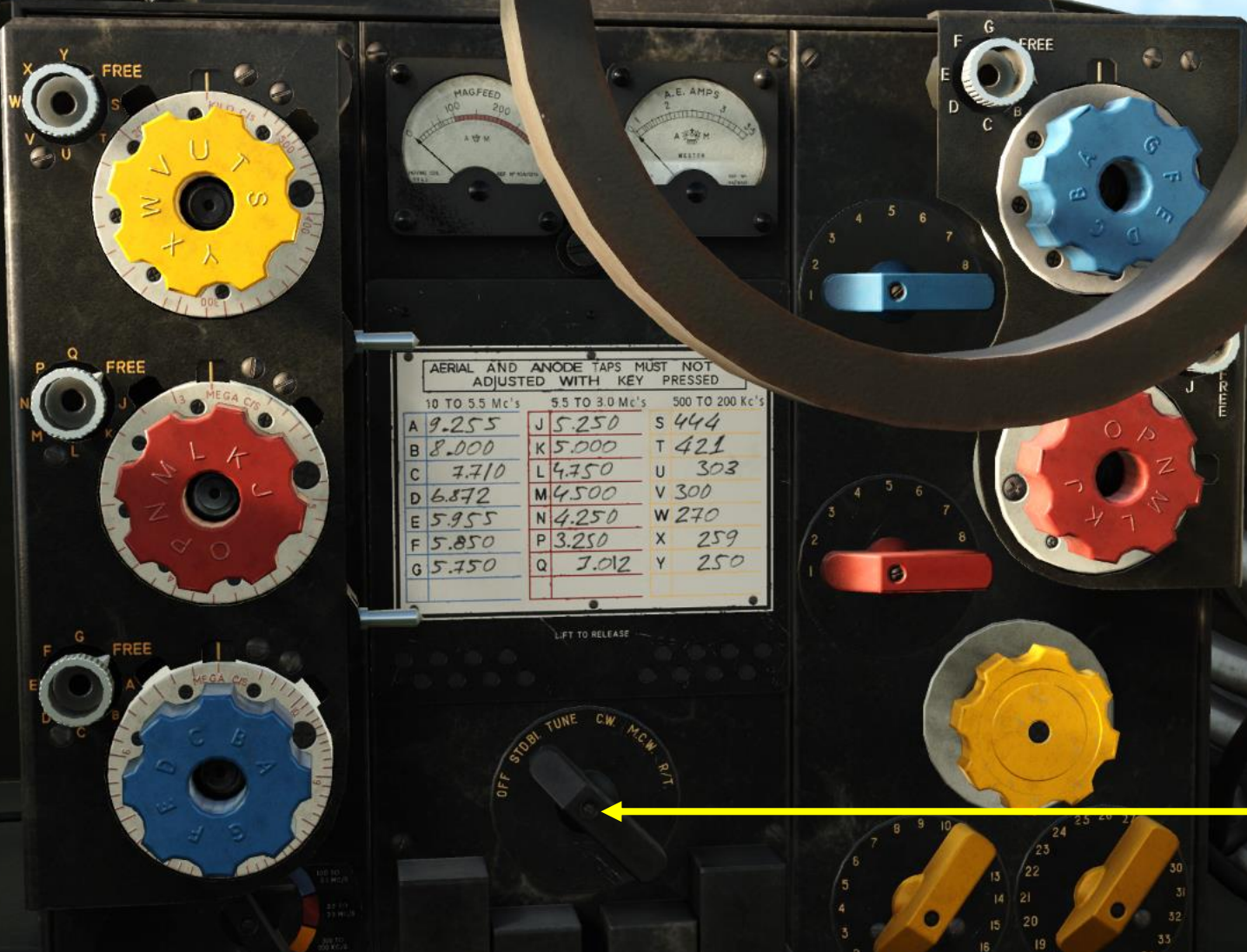
- Use largest knob for coarse tuning frequency signal
- Use smaller knobs for fine tuning frequency signal

**Receiver Tuning Indicator Pointer**





T1154 Radio Transmitter Set



AERIAL AND ANODE TAPS MUST NOT ADJUSTED WITH KEY PRESSED

10 TO 5.5 Mc's		5.5 TO 3.0 Mc's		500 TO 200 Kc's	
A	9.255	J	5.250	S	444
B	8.000	K	5.000	T	421
C	7.710	L	4.750	U	303
D	6.872	M	4.500	V	300
E	5.955	N	4.250	W	270
F	5.850	P	3.250	X	259
G	5.750	Q	3.012	Y	250

T1154 Radio Frequency Range Selector (S1)



- **Blue Range 1:** 10.0 MHz to 5.5 MHz
- **Red Range 2:** 5.5 MHz to 3.0 MHz
- **Yellow Range 3:** 500 KHz to 200 KHz

T1154 Radio Transmitter Set Tuning Control (S5)

- **OFF:** Off
- **STD-BI:** Standby, receiver becomes operative.
- **TUNE:** low power continuous wave (CW) transmission occurs. Short distance communications and any setting up adjustments of the transmitter should be made with the switch at this position.
- **CW:** Continuous Wave. L.T. (Low Tension) energizing circuits of the two power units are maintained so that H.T. (High Tension) and L.T. continue to be supplied to transmitter and receiver.
- **MCW:** Modulated Continuous Wave. When key is pressed, oscillations from the tone-generator are fed to the suppressor grids of the power amplifiers, thus modulating their output at low frequency.
- **R/T:** Receive/Transmit

Notes:

- HF (High Frequency) transmission/reception is done with the fixed aerial (antenna). Frequency ranges 1 (blue) and 2 (red) are on HF frequencies.
- MF (Medium Frequency) transmission/reception is done with the trailing aerial (antenna). Frequency range 3 (yellow) is on MF frequencies.



**Master Oscillator Dial**  
• Preset Channels S, T, U, V, W, X, & Y

**C17 Master Oscillating Tuning Condenser**  
Frequency Range 3 – Medium Frequency (M/F)  
• Preset Channels S, T, U, V, W, X, & Y

**Master Oscillator Dial**  
• Preset Channels J, K, L, M, N, P, & Q

**C4 Master Oscillating Tuning Condenser**  
Frequency Range 2 – High Frequency (H/F)  
• Preset Channels J, K, L, M, N, P, & Q

**Master Oscillator Dial**  
• Preset Channels A, B, C, D, E, F, & G

**C2 Master Oscillating Tuning Condenser**  
Frequency Range 1 – High Frequency (H/F)  
• Preset Channels A, B, C, D, E, F, & G

T1154 Radio Transmitter Magnetic Feed

T1154 Radio Transmitter Ammeter (Amperes)

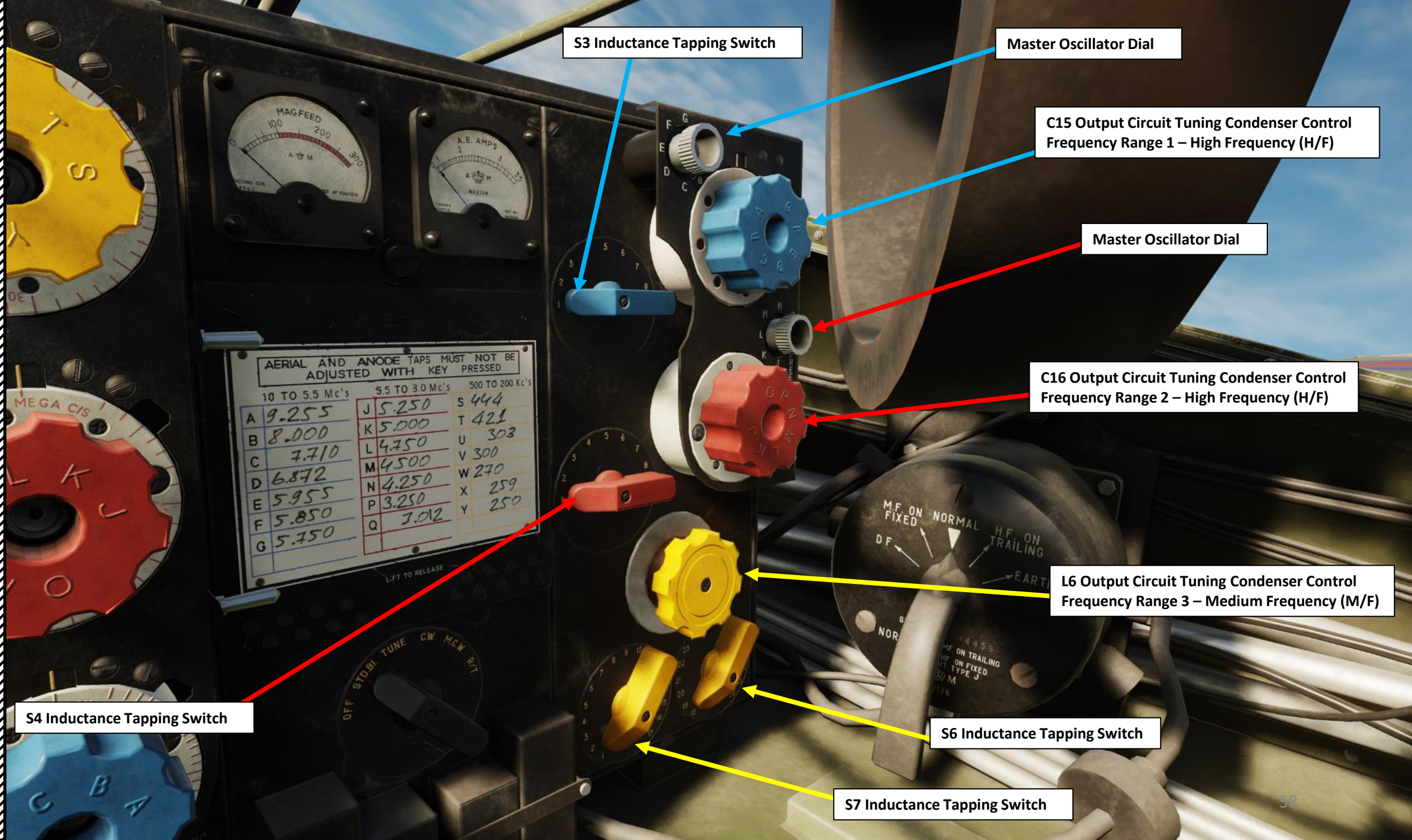
Vernier Adjustment Switch

AERIAL AND ANODE TAPS MUST NOT BE ADJUSTED WITH KEY PRESSED

10 TO 5.5 Mc's		5.5 TO 3.0 Mc's		500 TO 200 Kc's	
A 9.255	J 5.250	S 444			
B 8.000	K 5.000	T 421			
C 7.710	L 4.750	U 303			
D 6.872	M 4.500	V 300			
E 5.955	N 4.250	W 270			
F 5.850	P 3.250	X 259			
G 5.750	Q 3.012	Y 250			

T1154 Radio Frequency Placard

Vernier Adjustment Switch



S3 Inductance Tapping Switch

Master Oscillator Dial

C15 Output Circuit Tuning Condenser Control  
Frequency Range 1 – High Frequency (H/F)

Master Oscillator Dial

C16 Output Circuit Tuning Condenser Control  
Frequency Range 2 – High Frequency (H/F)

AERIAL AND ANODE TAPS MUST NOT BE ADJUSTED WITH KEY PRESSED

10 TO 5.5 Mc's		5.5 TO 3.0 Mc's		500 TO 200 Kc's	
A	9.255	J	5.250	S	444
B	8.000	K	5.000	T	421
C	7.710	L	4.750	U	303
D	6.872	M	4.500	V	300
E	5.955	N	4.250	W	270
F	5.850	P	3.250	X	259
G	5.750	Q	3.012	Y	250

S4 Inductance Tapping Switch

L6 Output Circuit Tuning Condenser Control  
Frequency Range 3 – Medium Frequency (M/F)

S6 Inductance Tapping Switch

S7 Inductance Tapping Switch



The **Inductance Tapping controls** are used to connect the aerial (antenna) to any of the output circuit inductances.

See this video for more information: <https://youtu.be/KSylo01n5FY>

The **Condenser controls** (also known as “variable capacitors”) are used to adjust radio transmitter frequencies. The oscillator frequency is also tuned when its associated condenser is being tuned.

See this video for more information: <https://youtu.be/adTdkM7Brss>

The **Oscillator controls** are used to stabilize radiated frequency of the condenser/capacitor.

See this video for more information: <https://youtu.be/yCwKB0Wvi-o>

The **Vernier controls** are used for frequency adjustment of +/- 1 %.

Inductance Tapping Switch

Output Tuning Condenser Control

Master Oscillator Dial

Master Oscillating Tuning Condenser

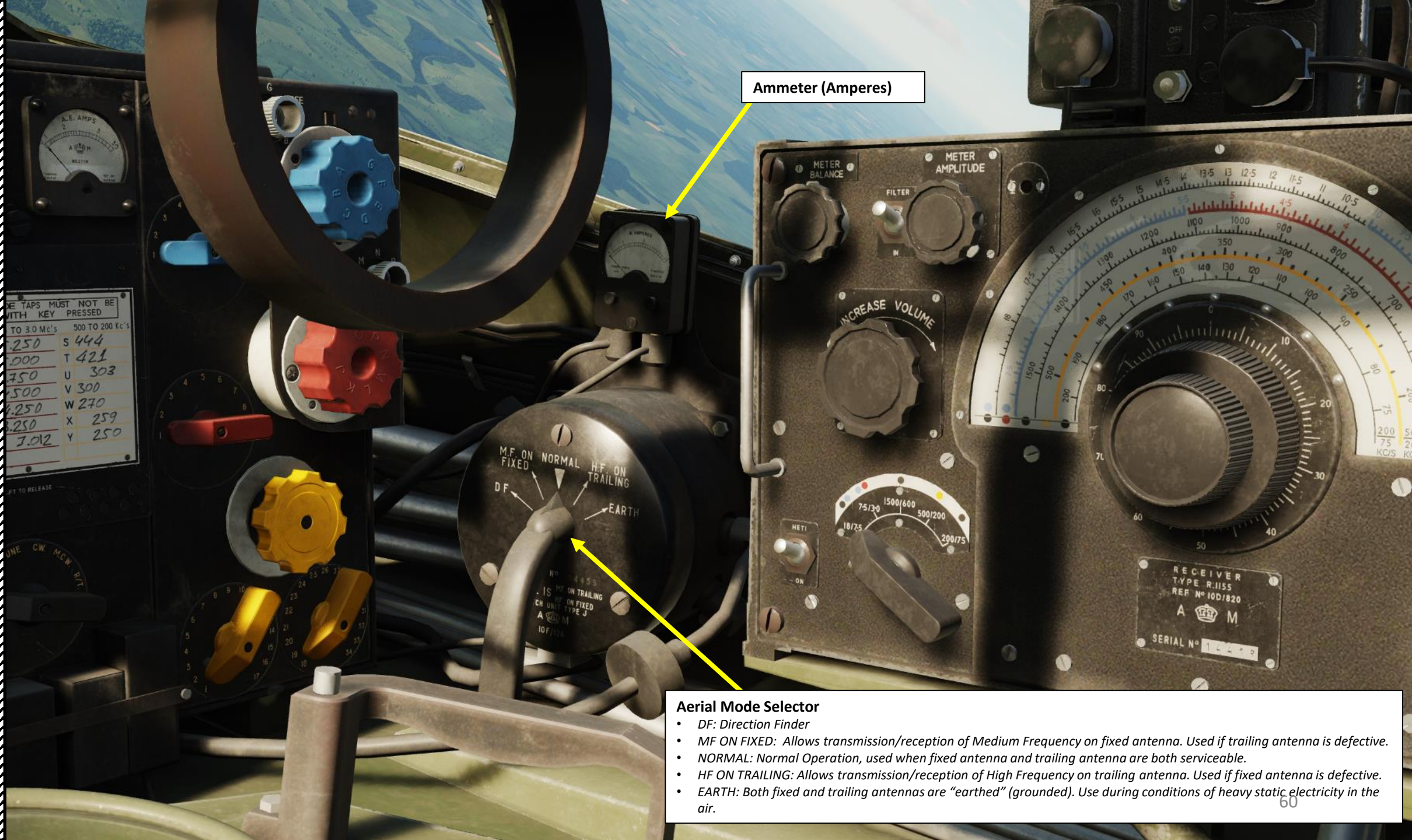
Vernier Adjustment Switch

AERIAL AND ANODE TAPS MUST NOT BE ADJUSTED WITH KEY PRESSED

10 TO 5.5 Mc's	5.5 TO 3.0 Mc's	300 TO 200 Kc's
A 9.255	J 5.250	S 444
B 8.000	K 5.000	T 421
C 7.710	L 4.750	U 303
D 6.872	M 4.500	V 300
E 5.955	N 4.250	W 270
F 5.850	P 3.250	X 259
G 5.750	Q 3.002	Y 250

THE TAPS MUST NOT BE  
WITH KEY PRESSED

	TO 3.0 Mc's	500 TO 200 Kc's
250	S 444	
300	T 421	
350	U 303	
400	V 300	
450	W 270	
500	X 259	
550	Y 250	



Ammeter (Amperes)

**Aerial Mode Selector**

- *DF*: Direction Finder
- *MF ON FIXED*: Allows transmission/reception of Medium Frequency on fixed antenna. Used if trailing antenna is defective.
- *NORMAL*: Normal Operation, used when fixed antenna and trailing antenna are both serviceable.
- *HF ON TRAILING*: Allows transmission/reception of High Frequency on trailing antenna. Used if fixed antenna is defective.
- *EARTH*: Both fixed and trailing antennas are "earthed" (grounded). Use during conditions of heavy static electricity in the air.



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FB MK VI

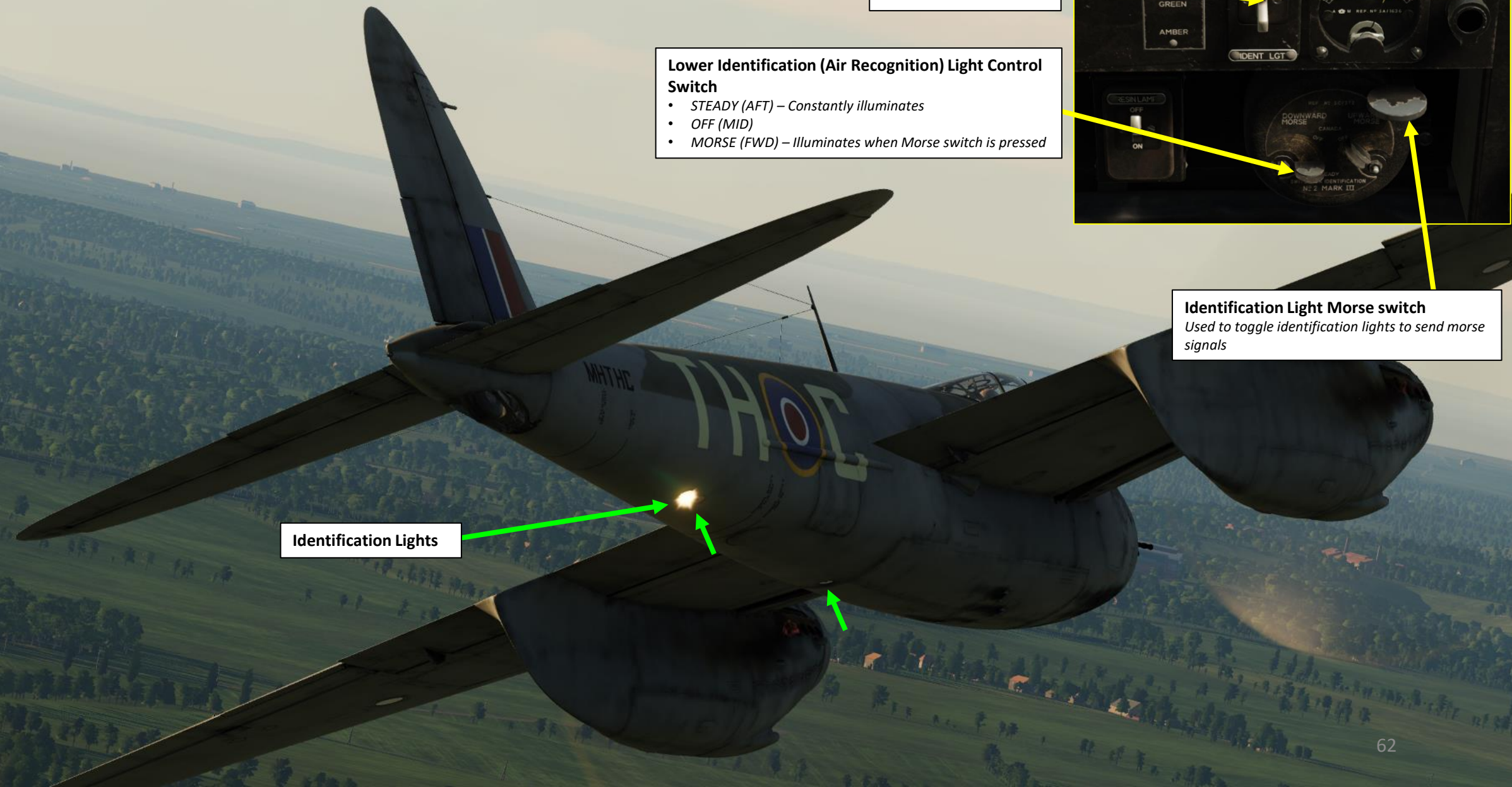
## PART 3 – COCKPIT & EQUIPMENT



### Flashlight

- ON/OFF: LALT + L





Identification Lights

**Identification Lights  
Color Selector Switch**

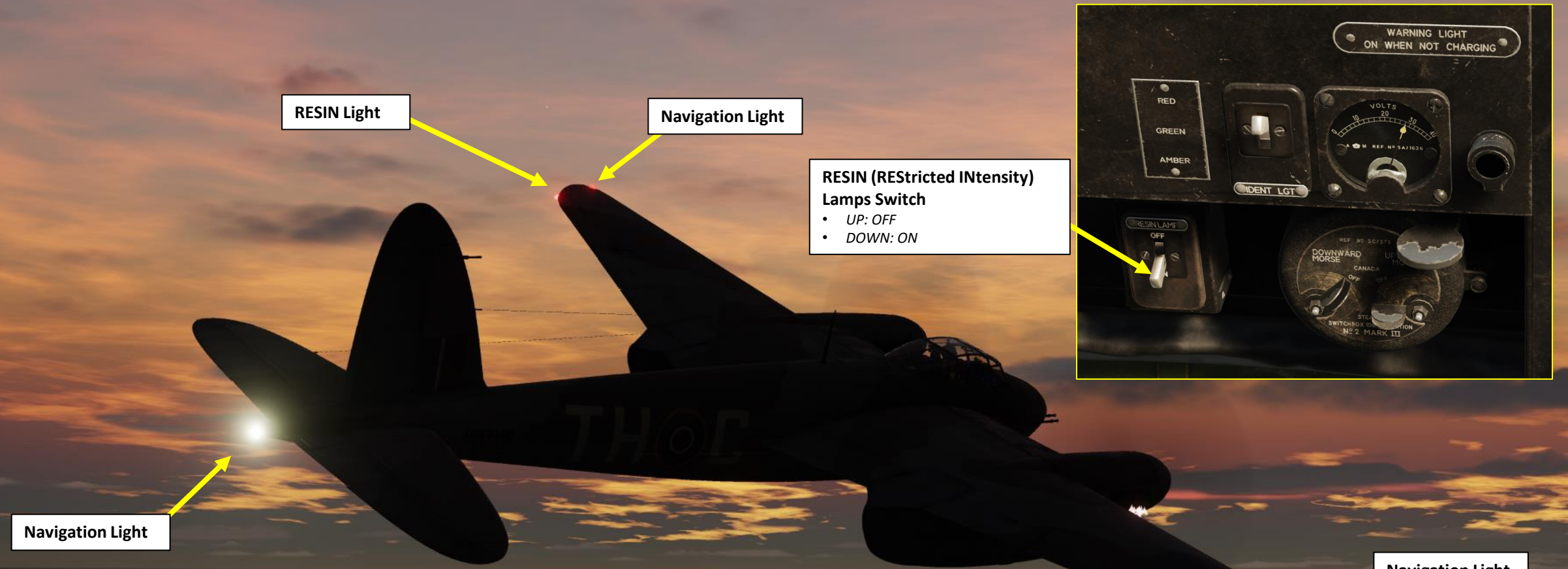
- UP: Red
- MIDDLE: Green
- DOWN: Amber

**Lower Identification (Air Recognition) Light Control Switch**

- STEADY (AFT) – Constantly illuminates
- OFF (MID)
- MORSE (FWD) – Illuminates when Morse switch is pressed



**Identification Light Morse switch**  
Used to toggle identification lights to send morse signals



RESIN Light

Navigation Light

Navigation Light

**RESIN (REstricted INTensity)  
Lamps Switch**  
• UP: OFF  
• DOWN: ON



Navigation Light

RESIN Light

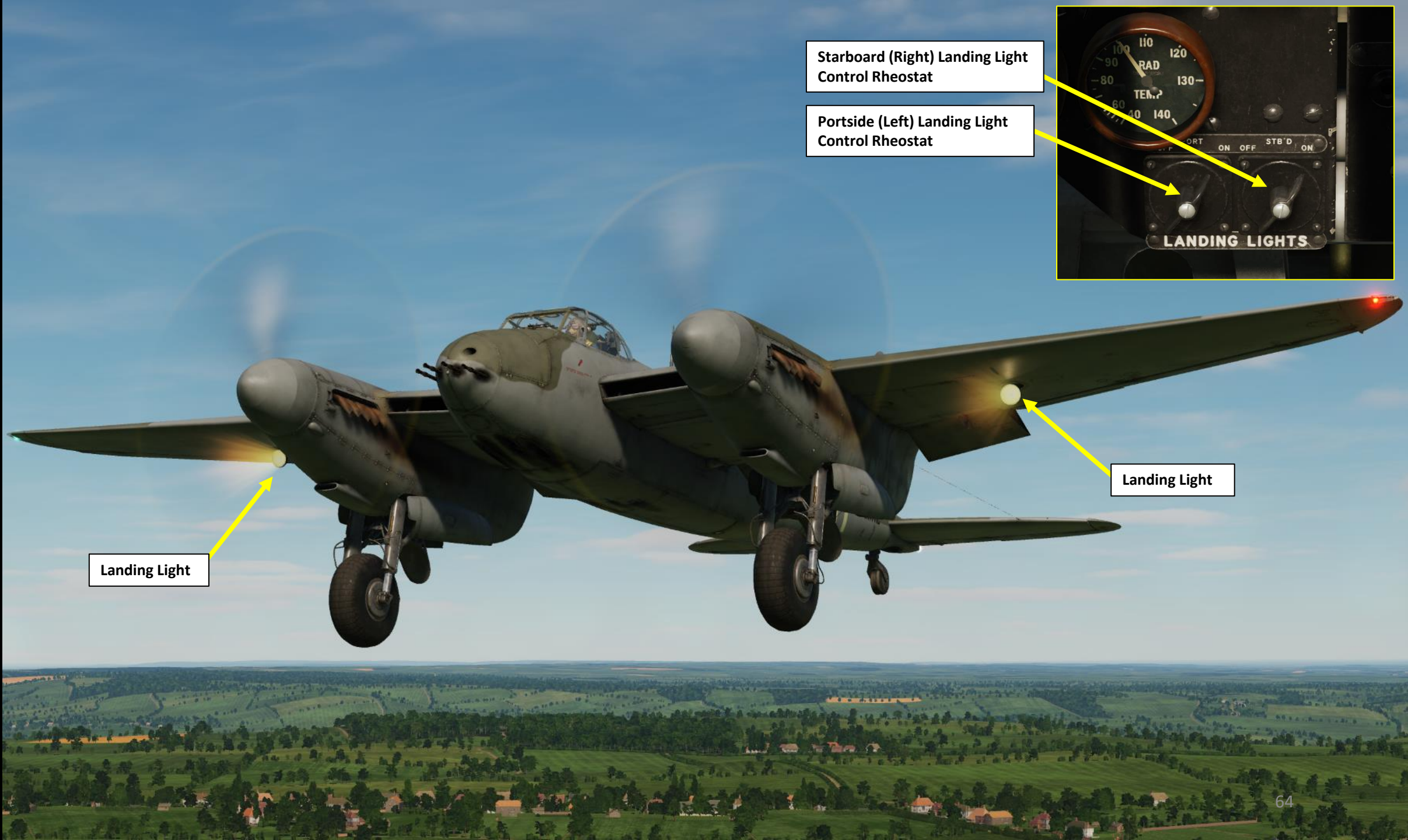


**Navigation Lights Switch**  
• DOWN: ON  
• UP: OFF



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FB MK VI

**PART 3 - COCKPIT & EQUIPMENT**



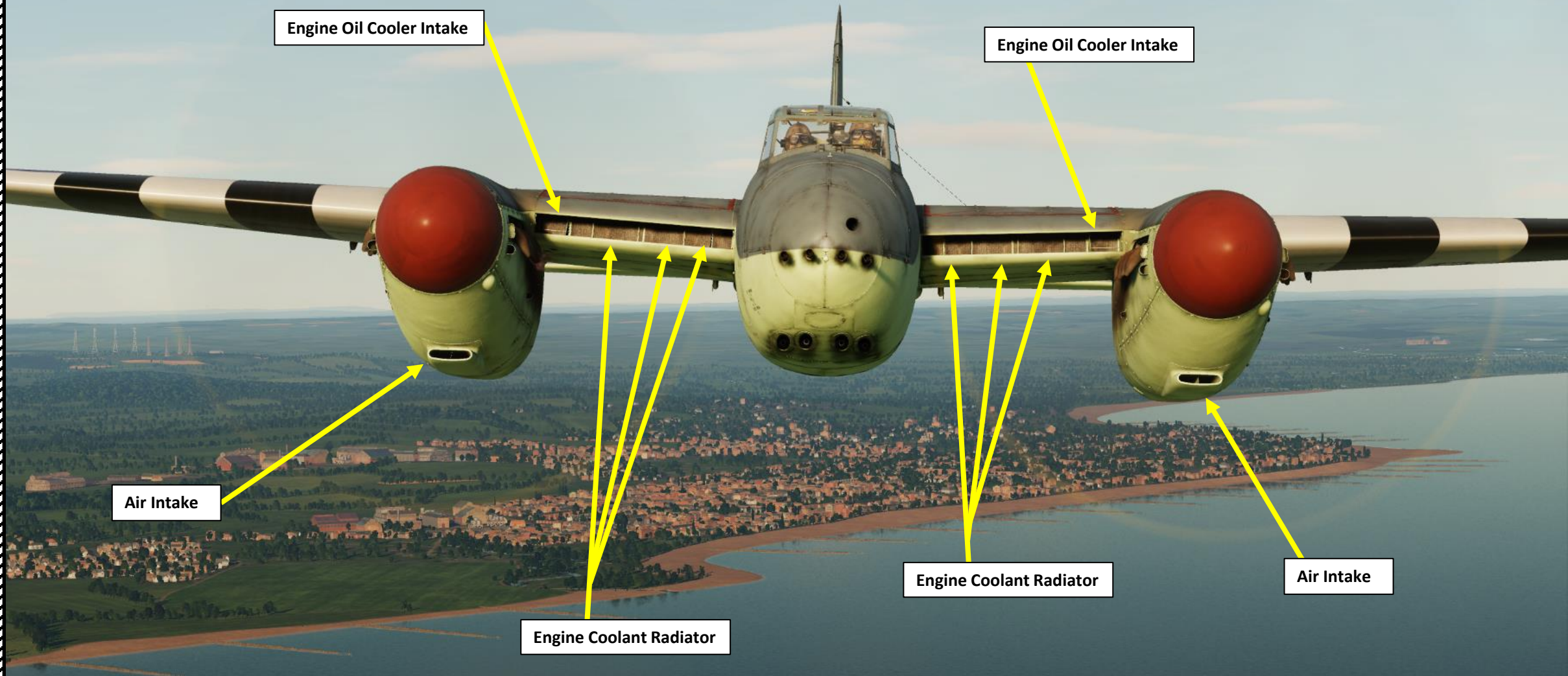
Landing Light

Landing Light

Starboard (Right) Landing Light Control Rheostat

Portside (Left) Landing Light Control Rheostat





Engine Oil Cooler Intake

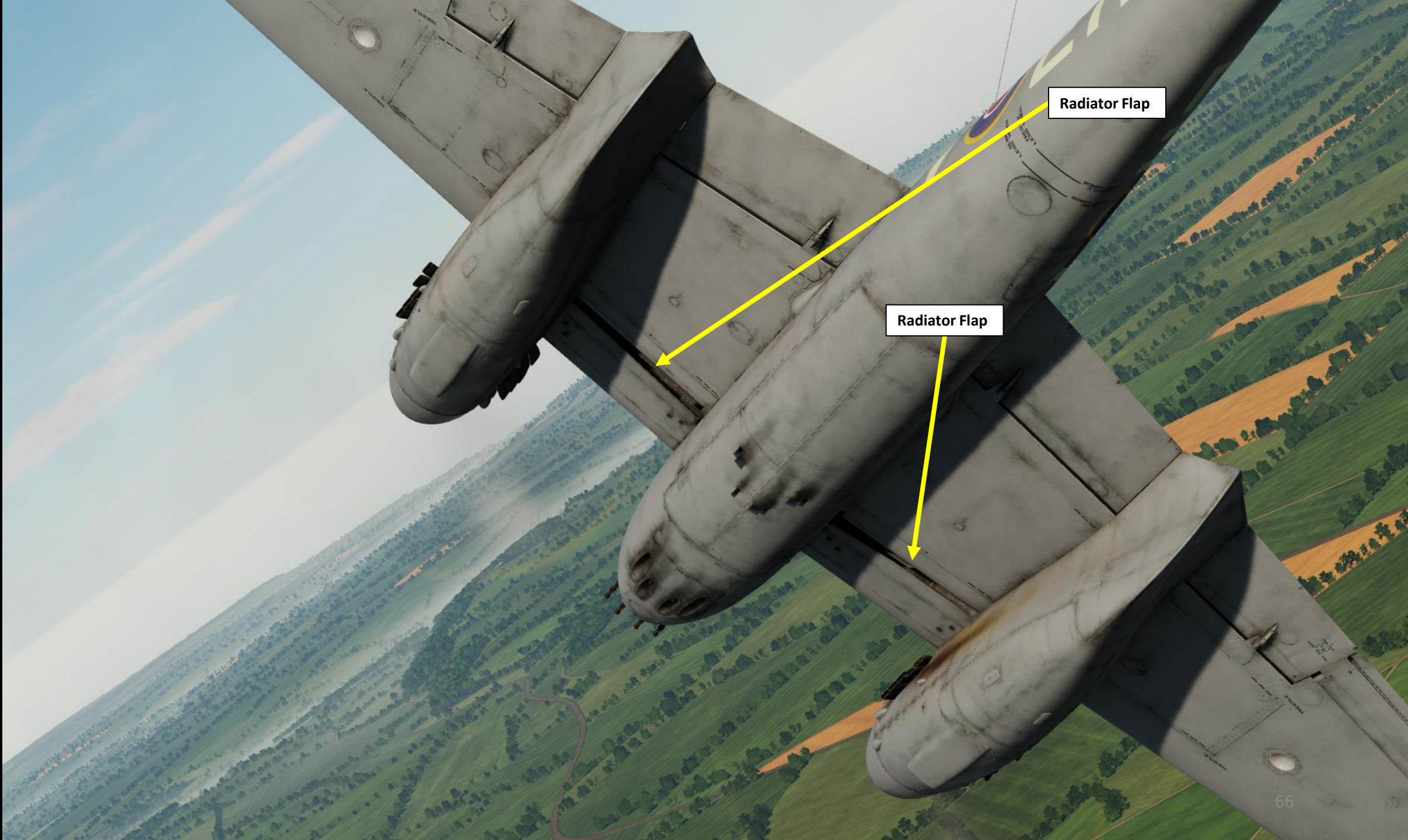
Engine Oil Cooler Intake

Air Intake

Engine Coolant Radiator

Engine Coolant Radiator

Air Intake





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**PART 3 – COCKPIT & EQUIPMENT**



Pitot Tube

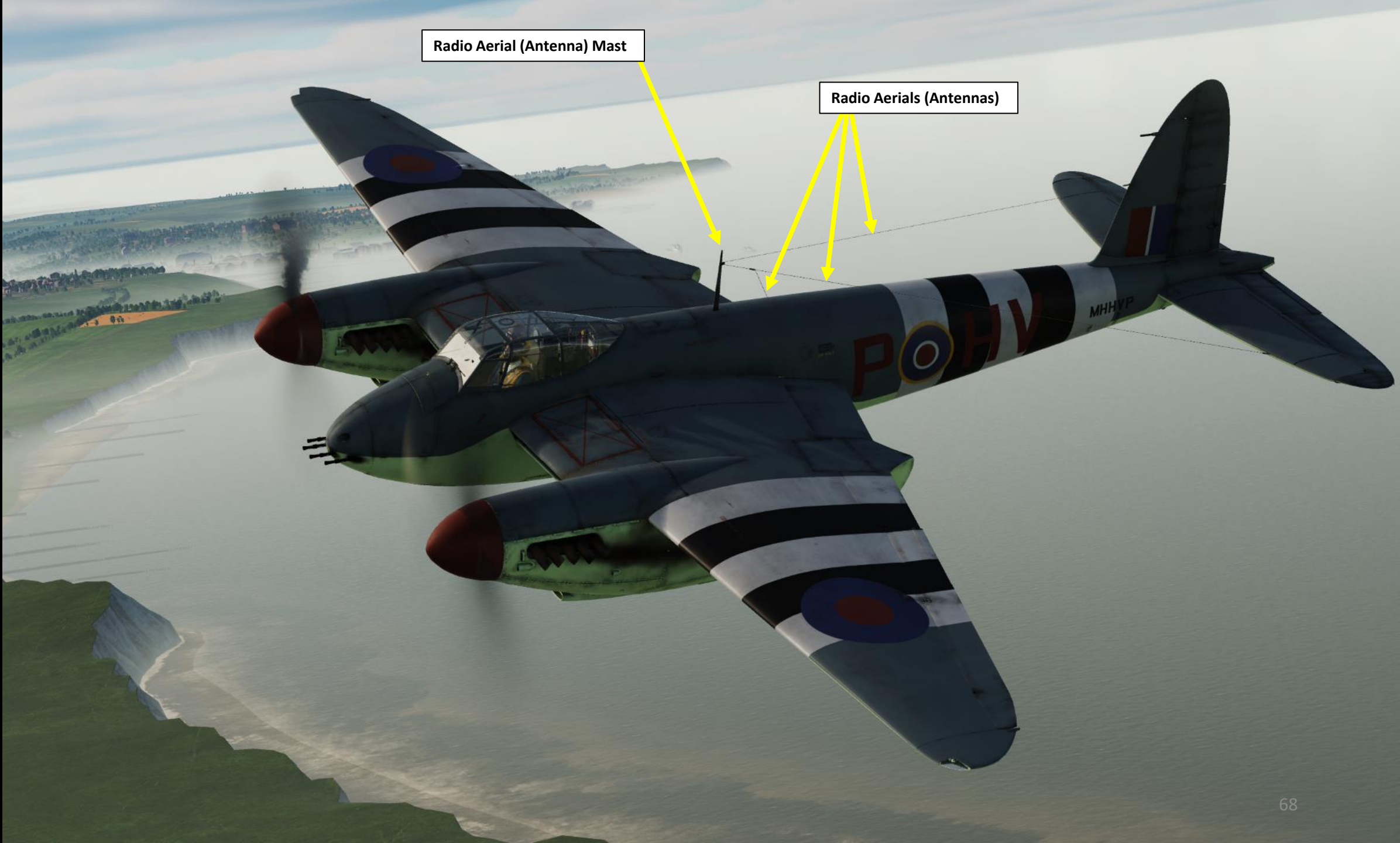


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FB MK VI

**PART 3 – COCKPIT & EQUIPMENT**

Radio Aerial (Antenna) Mast

Radio Aerials (Antennas)



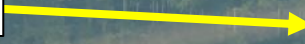


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**PART 3 – COCKPIT & EQUIPMENT**



Tailwheel



Mudguard



Wheel Brakes  
*Pneumatically actuated*



Landing Gear (shown deployed)  
*Hydraulically actuated by engine-driven pumps*



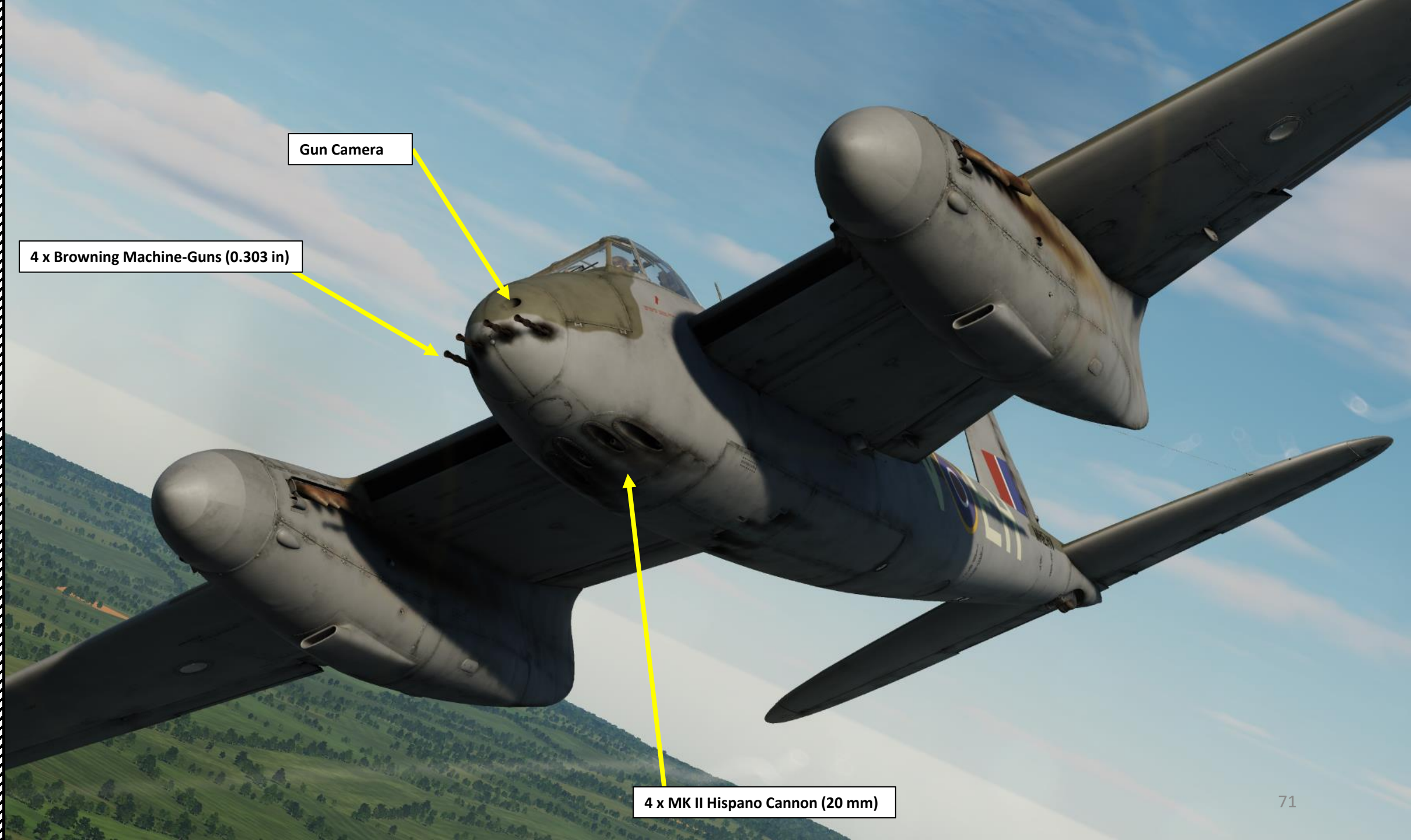


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## PART 3 – COCKPIT & EQUIPMENT



**Flaps**  
*Hydraulically actuated, from 0 to 45 deg*



Gun Camera

4 x Browning Machine-Guns (0.303 in)

4 x MK II Hispano Cannon (20 mm)



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FB MK VI

## PART 3 - COCKPIT & EQUIPMENT



**2 x Bombs**  
250 lbs or 500 lbs each

**Bomb Bay Doors**  
(Open)



**PART 3 – COCKPIT & EQUIPMENT**



Ammunition Ejection Ports

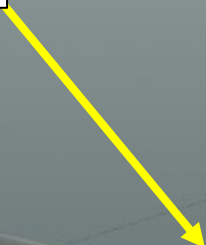
Access to 20 mm Hispano Cannons



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## PART 3 – COCKPIT & EQUIPMENT

Rudder Trim Tab



Elevator Trim Tab





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**PART 3 – COCKPIT & EQUIPMENT**



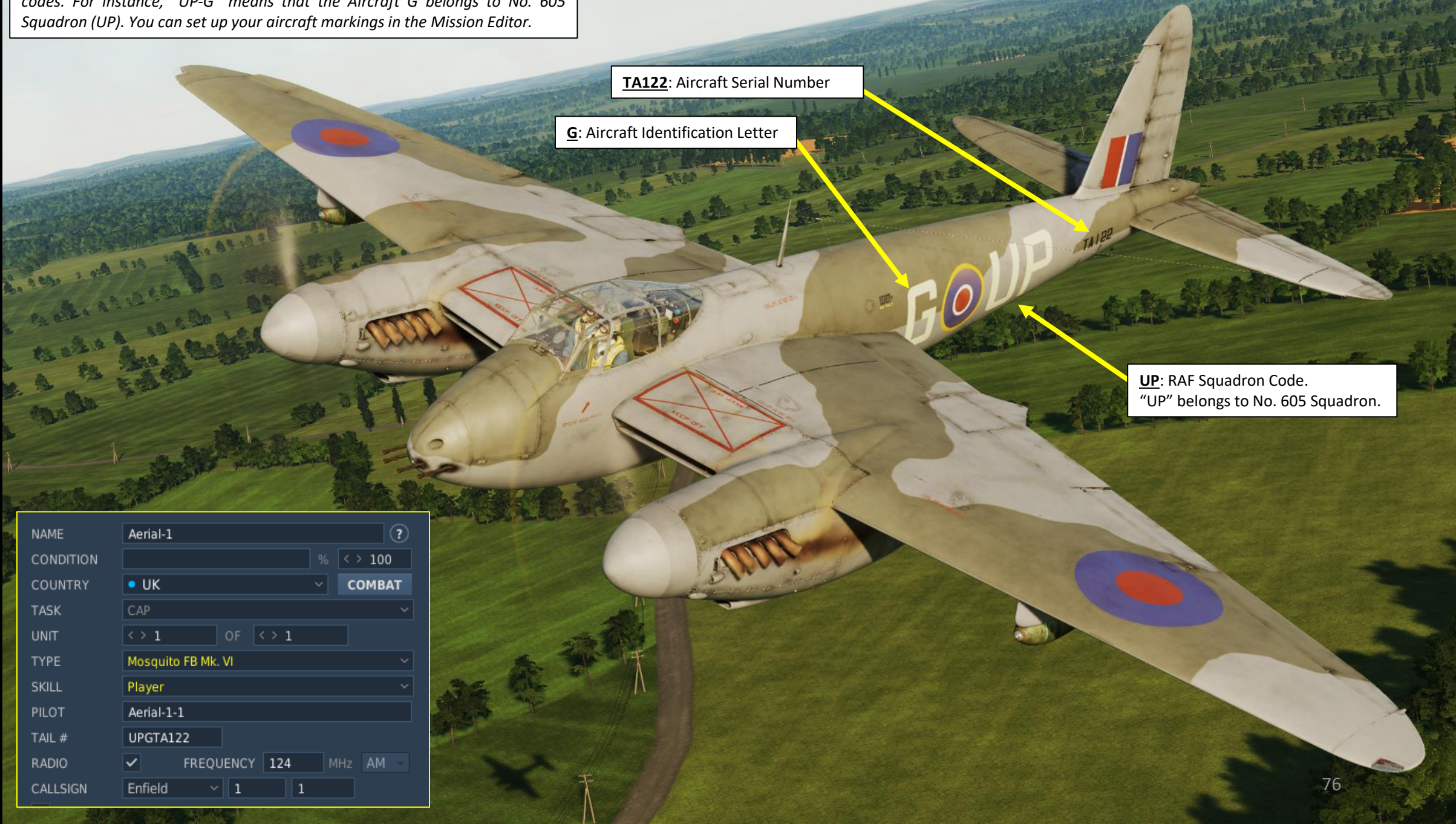
Aileron Trim Tab



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FB MK VI

## PART 3 – COCKPIT & EQUIPMENT

In World War 2, the Royal Air Force used aircraft markings as identification codes. For instance, “UP-G” means that the Aircraft G belongs to No. 605 Squadron (UP). You can set up your aircraft markings in the Mission Editor.



**TA122:** Aircraft Serial Number

**G:** Aircraft Identification Letter

**UP:** RAF Squadron Code.  
“UP” belongs to No. 605 Squadron.

NAME	Aerial-1	?
CONDITION	<input type="text"/>	% < > 100
COUNTRY	UK	COMBAT
TASK	CAP	
UNIT	< > 1	OF < > 1
TYPE	Mosquito FB Mk. VI	
SKILL	Player	
PILOT	Aerial-1-1	
TAIL #	UPGTA122	
RADIO	<input checked="" type="checkbox"/>	FREQUENCY 124 MHz AM
CALLSIGN	Enfield	1 1