



Forgotten Battles

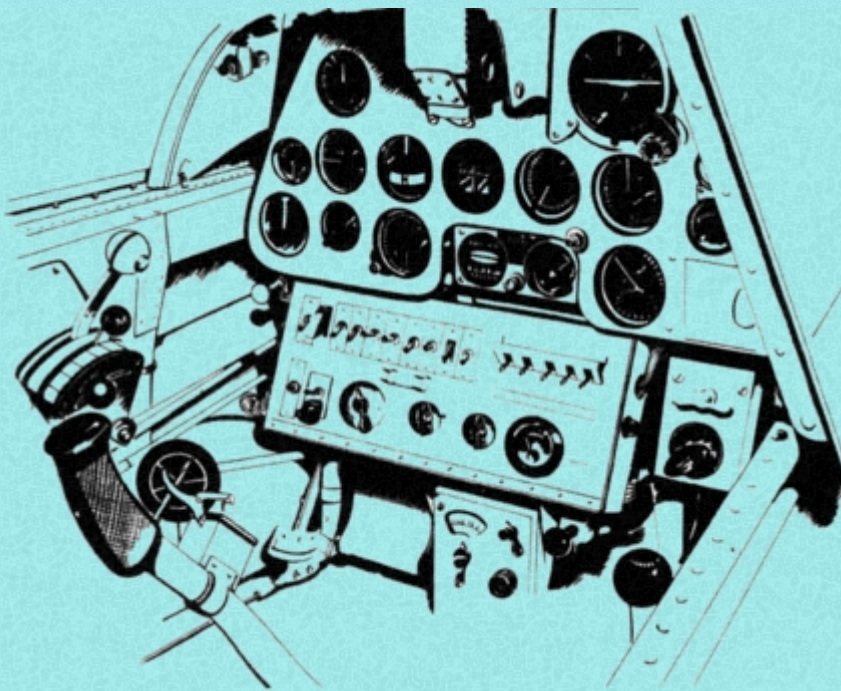
Ace Expansion Pack

Pacific Fighter

Pe-2 Peshka

Sturmoviks over Manchuria

1946



Cockpit Arrangement Guide

Corsican Corsair

v.4.0

May 2011



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This guide is an PDF file of 192 pages, which describes all the cockpits of the 1946 4.10.1 flyable aircraft with the 'in-game' controls and instruments.

It corrects several errors of the original game issued "Flyable Aircraft Guide" and completes the "4.09 Guide" and "4.10m User Guide". It shows many cockpit photos, among which some are rare, of genuine or restored aircraft.

For more information, I suggest to refer to you to real pilot's manuals available on the web. For this purpose, a "Bibliography and Research Sources" section is provided at the end of the guide.

It can be printed on A4 paper size (native size), or on Letter paper size, in duplex mode (recto-verso) and high resolution (on heavy paper) then assembled with plastic or spiral binding.

A description of the methods of navigation in the document, particularly adapted to the full screen mode, is presented hereafter.

Version history

v.4.0 Update - May 15, 2011

- Addition of the 4.10 new flyable aircraft:
 - ◇ Heinkel He 111 H-12 (same cockpit as H2/H-6 variants).
 - ◇ Henschel Hs 129 B-2.
 - ◇ Henschel Hs 129 B-3/Wa.
 - ◇ Junkers Ju 88 A-4/Torp.
 - ◇ Junkers Ju 88 A-17.
 - ◇ Reggiane Re.2000.
 - ◇ New Spitfire variants (same cockpit as previous variants).
 - ◇ Curtiss-Wright CW-21.
 - ◇ Polikarpov I-15bis.
- Adds:
 - ◇ New list of the Realistic Navigation Instrumentation linked in concerned aircraft pages.
 - ◇ Indication of the navigation instruments when they are functional in Realistic Navigation mode.
- Update as follows:
 - ◇ Cover page.
 - ◇ "Introduction" section.
 - ◇ "Units of measurement" page.
 - ◇ Index pages.
 - ◇ List of the 'in-game' controls of aircraft.
 - ◇ "Bibliography and Research Sources" section.
- New photos.

v.3.1 Update - December 7, 2010

- Modifications on the following aircraft:
 - ◇ Ar 234: engine instruments, instrument light switch.
 - ◇ Fw 190 D-9's: inversion of oil temperature and coolant temperature gages.
 - ◇ Ta 152's: inversion of oil temperature and coolant temperature gages.
 - ◇ Go 229: engine instruments.
 - ◇ He 162: exhaust temperature gage.
 - ◇ Me 262's: engine instruments.
 - ◇ N1K2: instrument light switch, normal level fuel indicator light, low fuel warning light.
 - ◇ Ki-84's: instrument light switch, landing light switch, navigation lights switch.
 - ◇ IAR's: screenshots updated.

- ◇ Mosquito: bomb doors lever.
- ◇ Tempest: landing light switch.
- ◇ Seafire: arrester hook lever.
- ◇ Buffalo's: tail wheel lock lever, version information added.
- ◇ P-40 Warhawk: instrument light switch, navigation lights switches.
- ◇ P-63: cockpit light switch, landing light switch, navigation lights switches.
- ◇ YP-80: engine instruments.
- ◇ La-5's: landing light switch, navigation lights switches.
- ◇ La-7's: instrument light switch, landing light switch, navigation lights switches.
- ◇ LaGG-3RD: engine instruments.
- ◇ I-185's: instrument light switch, landing light switch, navigation lights switch.
- ◇ Yak-15: fuel injection pressure gage.
- Update as follows:
 - ◇ Cover page.
 - ◇ "Introduction" section.
 - ◇ "Units of measurement" page.
 - ◇ Index pages.
 - ◇ "Aircraft & operational controls" pages – Gunsight column: type added and "Toggle Gunsight" control indicated in color (blue for "yes", red for "no").
 - ◇ "Bibliography and Research Sources" section.
 - ◇ Bookmarks.
- New photos for Fw 190 D-9 (1945), Me 262 A-2, C.R.42, A6M5/a, P-40 Hawk, I-185 M-82.

v.3.0 Update - October 17, 2009

- Addition of the 4.09 new flyable aircraft:
 - ◇ Avia B-534-IV.
 - ◇ Fokker D.XXI's.
 - ◇ Macchi M.C.200 VII's
 - ◇ Polikarpov I-16 type 5 & 6.
 - ◇ Savoia-Marchetti S.M.79.
- Addition of introduction section.
- Update as follows:
 - ◇ Cover page.
 - ◇ "Units of measurement" page.
 - ◇ Index pages.
 - ◇ List of the 'in-game' controls of aircraft.
 - ◇ "Bibliography and Research Sources" section.
- New high quality photos for He 162, I-153 and I-16's.
- Minor corrections.

v.2.0 Upgrade - September 7, 2009

- Strongly improved navigation in the document, particularly in full screen mode.
- New index page.
- New list of the 'in-game' controls of aircraft.
- Corrections and additions for most of the aircraft.
- Numerous new photos with links.

v.1.0 Initial release - February 8, 2008

Credits and thanks:

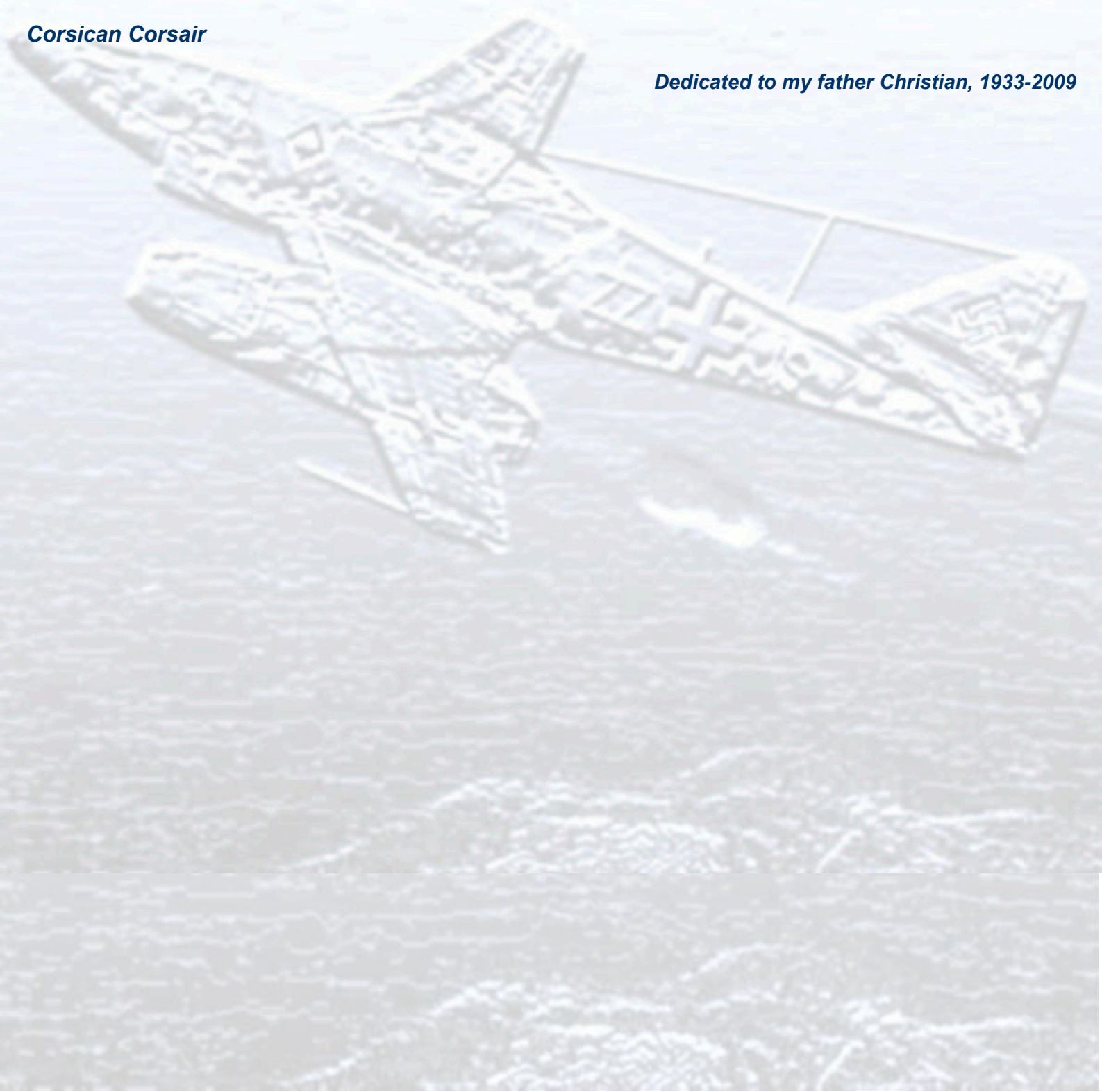
- Sidermax and Pe_Mosor — "Cockpit reference guide" - January 2005.
- Shmulik Hen (AKA 101Hedgehog) — IL-2 Functions v.4.07.005 - January 2007.
- Great thanks to museums, to documents owners and to numerous photographers for the images.
- Tromplamort for his photos of the genuine WWII He 162 belonging to the French Musée de l'Air et de l'Espace and restored by the Memorial Flight Association.

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Corsican Corsair

Dedicated to my father Christian, 1933-2009



In the cover page:


- To click on a war flag (1) brings you in the corresponding section.
- To click on the game logo (2) brings you in the index page.





In the index page, clickable items bring you in the corresponding section (1) or aircraft page (2),


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Introduction --- Navigation in the document
Units of measurement
List of the 'in-game' controls of aircraft
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 Fokker D.XXI Serie 3 Late


 **GERMANY**
 Arado Ar 234 B-2
 Dornier Do 335 A-0
 Dornier Do 335 V-13
 Focke-Wulf Fw 190 A-4
 Focke-Wulf Fw 190 A-5 / A-6
 Focke-Wulf Fw 190 A-8 / A-9
 Focke-Wulf Fw 190 A-8 Mistel III a
 Focke-Wulf Fw 190 D-9 (1944)
 Focke-Wulf Fw 190 D-9 (1945)
 Focke-Wulf Fw 190 F-8
 Focke-Wulf Ta 152 C
 Focke-Wulf Ta 152 H-1
 Focke-Wulf Ta 183
 Gotha Go 229 A-1
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 Heinkel He 162
 Heinkel He III B-2
 Henschel Hs 129 B-2
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 Junkers Ju 88 A-4
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 Messerschmitt Bf 109 E
 Messerschmitt Bf 109 F
 Messerschmitt Bf 109 G-2
 Messerschmitt Bf 109 G-6
 Messerschmitt Bf 109 G-10
 Messerschmitt Bf 109 G-14
 Messerschmitt Bf 109 K-4
 Messerschmitt Bf 109 Z
 Messerschmitt Bf 110 G-2
 Messerschmitt Me 163 B-1a
 Messerschmitt Me 262 A-1a / 1a/U4
 Messerschmitt Me 262 A-2a
 Messerschmitt Me 262 HG II

 **ITALY**
 Fiat C.R.42
 Fiat G.50
 Macchi M.C.200 III
 Macchi M.C.200 VII
 Macchi M.C.202
 Macchi M.C.205
 Reggiane Re.2000
 Savoia-Marchetti S.M.79

 **JAPAN**
 Mitsubishi A6M2 / 3 Reisen
 Mitsubishi A6M5 / 5a Reisen
 Mitsubishi A6M5b / 7-63 Reisen
 Mitsubishi A6M5c / 7-62 Reisen
 Aichi D3A1
 Mitsubishi G4M1-11
 Mitsubishi J2M3 Raiden
 Mitsubishi J2M5 Raiden
 Kawanishi N1K2-JA Shiden Kai
 Nakajima Ki-27
 Nakajima Ki-43 Hayabusa
 Nakajima Ki-43-II Hayabusa
 Nakajima Ki-43-II Kai Hayabusa
 Kawasaki Ki-61-I Hien
 Nakajima Ki-84-Ia Hayate
 Nakajima Ki-84-Ib / Ic Hayate
 Kawasaki Ki-100-I-Ko Hien

 **POLAND**
 Panstwowe Zaklady Lotnicze PZL P.11c

 **ROMANIA**
 Industria Aeronautica Romana I.A.R. 80
 Industria Aeronautica Romana I.A.R. 81-A / C

 **SLOVAKIA**
 Avia B-534-IV

Click on an item to go in the corresponding page. In this one:
 - to click on the war flag brings back for you in this index page,
 - to click on the nose section or the tail section of the aircraft picture brings you in the list of the 'in-game' controls of aircraft.

In an aircraft page:

- To click on the aircraft picture brings you in the list of the 'in-game' controls of aircraft. This list, split into "ENGINE CONTROLS" list and into "AIRCRAFT & OPERATIONAL CONTROLS" list, shows you what are, by aircraft, the controls - active or not - and their settings. The nose section (1) selects the "ENGINE CONTROLS" corresponding page and the tail section (2) selects the "AIRCRAFT & OPERATIONAL CONTROLS" corresponding page.
 - Note:** In the Hurricane page, for the "Mk. I" controls, click on "Mk" in place of the nose section and on "I" in place of the tail section.
- To click on the wind rose (3) brings you in the 'in-game' "REALISTIC NAVIGATION INSTRUMENTATION" list. Navigation instruments (6) having both operating modes, Realistic or NO Realistic, are shown in blue. In the Soviet aircraft, the instruments only present in NO Realistic Navigation mode are shown with red number in white spot.
- To click on the link (4) beside a photograph, when existing, brings you in the website or the webpage lodging this one (possible broken links are not of my fact).
- To click on the war flag (5) brings back for you in the index page.

Heinkel He 111 H-2 / H-6 / H-12

- Artificial horizon
- Course pointer
- Heading indicator
- Airspeed indicator
- Repeater compass
- Turn and bank indicator
- Variometer
- Altimeter
- Autopilot course indicator (gyro heading only)
- Left engine tachometer
- Right engine tachometer
- Left engine oil temperature gage
- Right engine oil temperature gage
- Left engine fuel and oil pressure gage
- Right engine manifold pressure gage
- Left engine manifold pressure gage
- Right engine coolant temperature gage
- Left engine coolant temperature gage
- Right engine fuel and oil pressure gage
- Clock
- Radio bearing indicator (with white needle as homing indicator)
- Left propeller pitch indicator
- Right propeller pitch indicator
- Plays position indicator
- Landing gear position indicator: green - down red - up
- Left engine throttle
- Right engine throttle
- Plays lever
- Left engine supercharger lever
- Right engine supercharger lever
- Left side propeller pitch lever
- Right side propeller pitch lever
- Left engine mixture lever
- Right engine mixture lever
- Left engine oil radiator lever
- Right engine oil radiator lever
- Low fuel warning light for left wing tank
- Left wing tank fuel gage
- Right wing tank fuel gage
- Low fuel warning light for right wing tank
- Left engine fuel and oil pressure gage
- Free air temperature gage
- Right engine fuel and oil pressure gage

4 <http://www.cockpitinstruments.de>

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In an 'in-game' controls of aircraft page, clickable items bring you in:

- the previously shown page (1) (Acrobat Reader & Foxit Reader feature),
- the index page (2),
- the corresponding section (3).

Note: These lists are based partially on the IL-2 Functions tables written by Shmulik Hen (AKA 101Hedgehog) in January 2007 and that I adapted.



ENGINE CONTROLS

Aircraft	Power	Boost	Prop Pitch	Mixture	Mixture Setting Alt	Supercharger	Alt S2-S3	Radiators Flaps	Fire Ext	Feather	Drop Tanks
G4M1-11, 1941	0-110	No	0-100	0-120	6700	2 Stages	3000	C, 2, 4, 6, 8, O	No	Yes	No
Go 229 A-1, 1945	0-100	No	No	No		No		No	No	No	No
He 111 H-2, 1939	0-110	No	0-100	0-120	4800	2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
He 111 H-6, 1941	0-110	No	0-100	0-120	4700	2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
He 111 H-12, 1942	0-110	No	0-100	0-120	4700	2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
He 162A-2, 1945	0-100	No	No	No		No		No	No	No	No
He 162C, 1946	0-110	No	No	No		No		No	No	No	No
He 162D, 1946	0-110	No	No	No		No		No	No	No	No
Heinkel Lerche III B-2, 1946	0-110	No	0-100	No		No		No	No	Yes	No
Hurricane Mk.I, 1938	0-110	No	0-100	100, 120		No		C, 2, 4, 6, 8, O	No	No	No
Hs 129 B-2, 1942	0-110	No	-/+, Auto	0-120	4700	1 Stage		C, 2, 4, 6, 8, O	1 time	Yes	No
Hs 129 B-3/Wa, 1944	0-110	No	-/+, Auto	0-120	4700	1 Stage		C, 2, 4, 6, 8, O	1 time	Yes	No
I.A.R 80, 1940	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
I.A.R 81a, 1940	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
I.A.R 81c, 1940	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
J2M3, 1944	0-110	Yes	0-100	0-120	6500	2 Stages	3000	C, 2, 4, 6, 8, O	No	No	No
J2M5, 1944	0-110	Yes	0-100	0-120	6500	3 Stages	3000 - 5500	C, 2, 4, 6, 8, O	No	No	No
J8A, 1937	0-110	No	No	0-120	4900	No		No	No	Yes	No
Ju 87 B-2, 1940	0-110	No	0-100	No		2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
Ju 87 D-3, 1942	0-110	No	0-100	No		2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
Ju 87 D-5, 1943	0-110	No	0-100	No		2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
Ju 87 G-1, 1943	0-110	No	0-100	No		2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
Ju 88 A-4, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
Ju 88 A-4/Torp, 1942	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
Ju 88 A-17, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
Ki-27 Ko, 1938	0-110	No	No	0-120	6000	No		C, 2, 4, 6, 8, O	No	No	No
Ki-27 Otsu, 1938	0-110	No	No	0-120	6000	No		C, 2, 4, 6, 8, O	No	No	No
Ki-43-Ia, 1941	0-110	No	0-100	0-120	6400	No		C, 2, 4, 6, 8, O	No	No	No
Ki-43-Ib, 1941	0-110	No	0-100	0-120	6400	No		C, 2, 4, 6, 8, O	No	No	No
Ki-43-Ic, 1941	0-110	No	0-100	0-120	6400	No		C, 2, 4, 6, 8, O	No	No	No
Ki-43-II, 1942	0-110	No	0-100	0-120	6400	2 Stages	3300	C, 2, 4, 6, 8, O	No	No	No
Ki-43-II Kai, 1943	0-110	No	0-100	0-120	6400	2 Stages	3300	C, 2, 4, 6, 8, O	No	No	No
Ki-61-I Ko, 1942	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Ki-61-I Hei, 1944	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	4 times	No	Yes
Ki-61-I Otsu, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Ki-84-Ia, 1944	0-110	Yes	0-100	100, 120		2 Stages	2500	C, 2, 4, 6, 8, O	No	No	Yes
Ki-84-Ib, 1944	0-110	Yes	0-100	100, 120		2 Stages	2500	C, 2, 4, 6, 8, O	No	No	Yes
Ki-84-Ic, 1945	0-110	Yes	0-100	100, 120		2 Stages	2500	C, 2, 4, 6, 8, O	No	No	Yes
Ki-100-I Ko, 1945	0-110	Yes	0-100	0-120	6500	2 Stages	3500	C, 2, 4, 6, 8, O	No	No	No
MC.200 Serie 3, 1940	0-110	No	0-100	0-120	4600	No		C, 2, 4, 6, 8, O	5 times	No	No
MC.200 Serie 7, 1941	0-110	No	0-100	0-120	4600	No		C, 2, 4, 6, 8, O	5 times	No	No
MC.200 Serie 7 FB, 1941	0-110	No	0-100	0-120	4600	No		C, 2, 4, 6, 8, O	5 times	No	No
MC.202 Serie III, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
MC.202 Serie VII, 1942	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
MC.202 Serie XII, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
MC.205 V Serie I, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
MC.205 V Serie III, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
Me 163 B-1a, 1944	0-110	No	No	No		No		No	No	No	No

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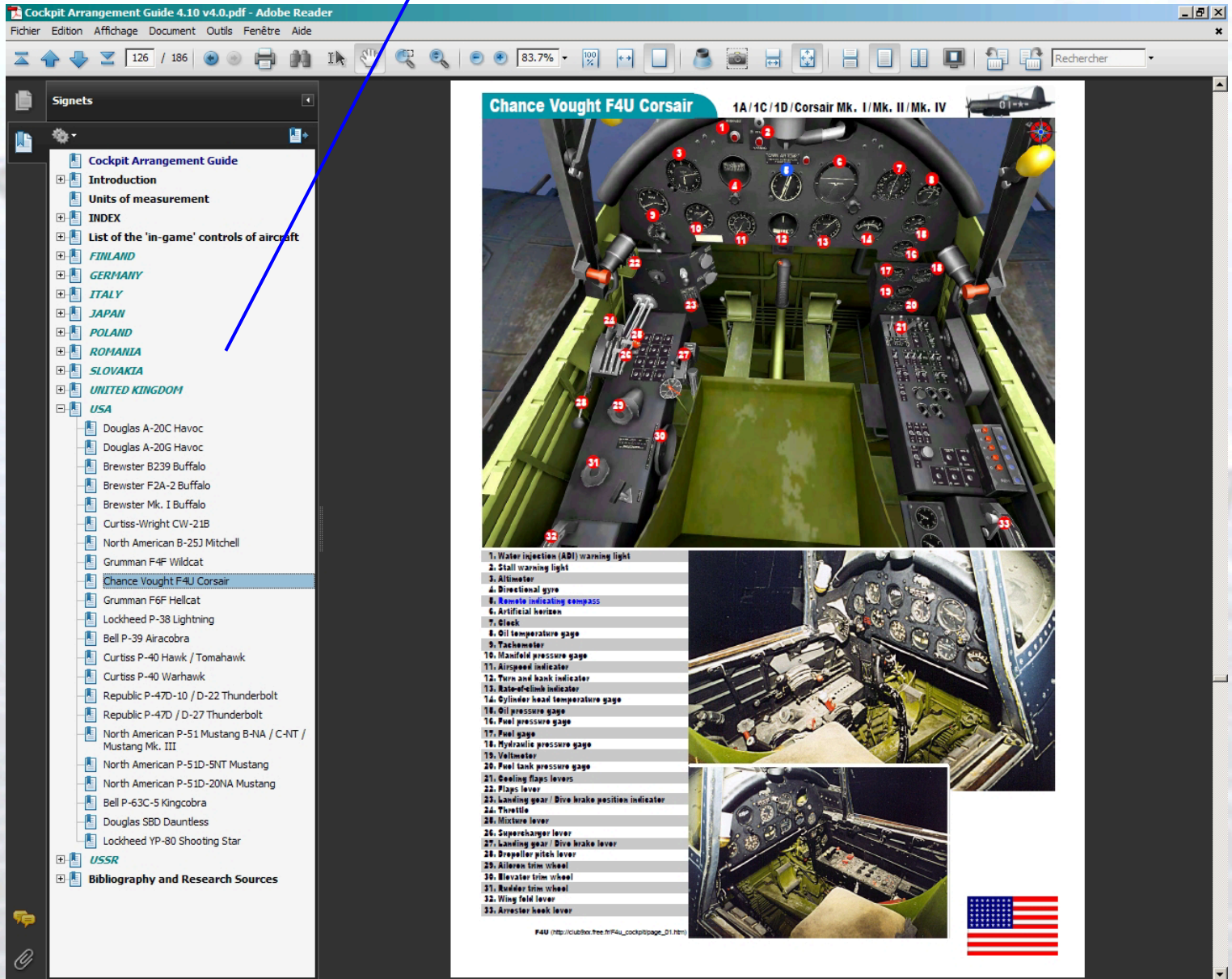
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Aircraft & Operational Controls (Axis)



Click on the war flag to go in the corresponding page.

At last, you can use the bookmarks (1) to go anywhere in the guide.



Cockpit Arrangement Guide 4.10 v4.0.pdf - Adobe Reader

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126 / 186 83.7% 100%

Rechercher

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 - Bell P-63C-5 Kingcobra
 - Douglas SBD Dauntless
 - Lockheed YP-80 Shooting Star
- USSR
- Bibliography and Research Sources

Chance Vought F4U Corsair 1A/1C/1D/Corsair Mk. I/Mk. II/Mk. IV



1. Water injection (ABI) warning light
2. Stall warning light
3. Altimeter
4. Directional gyro
5. Remotely indicating compass
6. Artificial horizon
7. Clock
8. Oil temperature gage
9. Tachometer
10. Manifold pressure gage
11. Airspeed indicator
12. Turn and bank indicator
13. Rate-of-turn indicator
14. Cylinder head temperature gage
15. Oil pressure gage
16. Fuel pressure gage
17. Fuel gage
18. Hydraulic pressure gage
19. Voltmeter
20. Fuel tank pressure gage
21. Cooling flaps levers
22. Flaps lever
23. Landing gear / Dive brake position indicator
24. Throttle
25. Mixture lever
26. Supercharger lever
27. Landing gear / Dive brake lever
28. Propeller pitch lever
29. Aileron trim wheel
30. Elevator trim wheel
31. Rudder trim wheel

F4U (http://clubbox.free.fr/F4U_cockpitpage_01.htm)



Units of measurement

German aircraft:

- manifold pressure (absolute) - atmosphere (ata)
- altitude - meter (m)
- speed - kilometer per hour (km/h)
- vertical speed - meter per second (m/s)

Italian aircraft:

- manifold pressure (absolute) - milimeter of mercury (mm Hg)
 - atmosphere (ata) for M.C.202's
 - kilogram per square centimeter (kg/cm²) for S.M.79
- altitude - meter (m)
- speed - kilometer per hour (km/h)
- vertical speed - meter per second (m/s)

Japan aircraft:

- manifold pressure (relative -/+) - kilogram per square decimeter (kg/dm²)
- altitude - meter (m)
- speed - *Army* - kilometer per hour (km/h)
 - *Navy* - knot (kt) except D3A1 and G4M1
- vertical speed - meter per second (m/s)

Polish aircraft:

- manifold pressure (relative -/+) - kilogram per square centimeter (kg/cm²)
- altitude - meter (m)
- speed - kilometer per hour (km/h)
- vertical speed - meter per second (m/s)

British aircraft:

- manifold pressure (relative -/+) - pound per square inch (lb./sq. in. or PSI)
- altitude - foot (ft)
- speed - mile per hour (mph)
 - knot (kt) for Hurricane's
- vertical speed - foot per minute (fpm)

American aircraft:

- manifold pressure (absolute) - inch of mercury (in. Hg)
- altitude - foot (ft)
- speed - *Air Force* - mile per hour (mph)
 - *Navy* - knot (kt)
- vertical speed - foot per minute (fpm)

Dutch, Finnish, Romanian, Slovakian and Soviet aircraft:

- manifold pressure (absolute) - milimeter or centimeter of mercury (mm Hg - cm Hg)
 - (relative -/+) - milimeter of mercury (mm Hg) for J8A
- altitude - meter (m)
- speed - kilometer per hour (km/h)
- vertical speed - meter per second (m/s)

1 ata = 760 mm Hg = 29.92 in. Hg

± 10 kg/dm² = ± 0.1 kg/cm² = ± 1.4 lb./sq. in.

1000 m = 3280 ft

500 km/h = 310 mph = 270 kt

10 m/s = 1970 fpm

4.10



Forgotten Battles

Ace Expansion Pack

Pacific Fighter

Pe-2 Peshka

Sturmoviks over Manchuria

1946

"Cockpit Arrangement Guide" including cockpit screenshots, reference data, photos search and layout realized by [Corsican Corsair](#).

This guide covers the flyable planes of IL-2 series up to no modded 1946 4.10.1.

The photos of the cockpits, from genuine or restored aircraft, were added **for curiosity** only. When a photo is clearly identified, its link and/or its photographer is indicated. Great thanks to museums, to documents owners and to numerous photographers for these images.

Note: Any reference to Nazi regime is purely and simply historical and has no political intention.

For any (welcome) suggestion, improvement, correction for this edition: corsair58@wanadoo.fr

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Fokker D.XXI Serie 3 Late



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Dornier Do 335 V-13

Focke-Wulf Fw 190 A-4

Focke-Wulf Fw 190 A-5 / A-6

Focke-Wulf Fw 190 A-8 / A-9

Focke-Wulf Fw 190 A-8 Mistel III a

Focke-Wulf Fw 190 D-9 (1944)

Focke-Wulf Fw 190 D-9 (1945)

Focke-Wulf Fw 190 F-8

Focke-Wulf Ta 152 C

Focke-Wulf Ta 152 H-1

Focke-Wulf Ta 183

Gotha Go 229 A-1

Heinkel He 111

Heinkel He 162

Heinkel He III B-2

Henschel Hs 129 B-2

Henschel Hs 129 B-3/Wa

Junkers Ju 87 B-2

Junkers Ju 87 D / G

Junkers Ju 88 A-4

Junkers Ju 88 A-4/Torp

Junkers Ju 88 A-17

Messerschmitt Bf 109 E

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Messerschmitt Bf 109 G-10

Messerschmitt Bf 109 G-14

Messerschmitt Bf 109 K-4

Messerschmitt Bf 109 Z

Messerschmitt Bf 110 G-2

Messerschmitt Me 163 B-1a

Messerschmitt Me 262 A-1a / 1a/U4

Messerschmitt Me 262 A-2a

Messerschmitt Me 262 HG II



ITALY

Fiat C.R.42

Fiat G.50

Macchi M.C.200 III

Macchi M.C.200 VII

Macchi M.C.202

Macchi M.C.205

Reggiane Re.2000

Savoia-Marchetti S.M.79



JAPAN

Mitsubishi A6M2 / 3 Reisen

Mitsubishi A6M5 / 5a Reisen

Mitsubishi A6M5b / 7-63 Reisen

Mitsubishi A6M5c / 7-62 Reisen

Aichi D3A1

Mitsubishi G4M1-11

Mitsubishi J2M3 Raiden

Mitsubishi J2M5 Raiden

Kawanishi N1K2-JA Shiden Kai

Nakajima Ki-27

Nakajima Ki-43 Hayabusa

Nakajima Ki-43-II Hayabusa

Nakajima Ki-43-II Kai Hayabusa

Kawasaki Ki-61-I Hien

Nakajima Ki-84-Ia Hayate

Nakajima Ki-84-Ib / Ic Hayate

Kawasaki Ki-100-I-Ko Hien



POLAND

Panstwowe Zaklady Lotnicze PZL P.11c



ROMANIA

Industria Aeronautica Romana I.A.R. 80

Industria Aeronautica Romana I.A.R. 81-A / C



SLOVAKIA

Avia B-534-IV

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Bristol Beaufighter Mk. 21
De Havilland Mosquito FB. Mk. VI
Gloster Gladiator J8A
Hawker Hurricane
Hawker Tempest Mk.V
Supermarine Seafire Mk. III
Supermarine Spitfire Mk. Vb / c
Supermarine Spitfire Mk. VIII
Supermarine Spitfire Mk. IX



UNITED STATES OF AMERICA

Douglas A-20C Havoc
Douglas A-20G Havoc
Brewster B239 Buffalo
Brewster F2A-2 Buffalo
Brewster Mk. I Buffalo
Curtiss-Wright CW-21B
North American B-25J-1-NA Mitchell
Grumman F4F Wildcat
Chance Vought F4U Corsair
Grumman F6F Hellcat
Lockheed P-38 Lightning
Bell P-39 Airacobra
Curtiss P-40 Hawk / Tomahawk
Curtiss P-40 Warhawk
Republic P-47D-10 / D-22 Thunderbolt
Republic P-47D / D-27 Thunderbolt
North American P-51 Mustang B-NA / C-NT / Mustang Mk. III
North American P-51D-5-NT Mustang
North American P-51D-20-NA Mustang
Bell P-63C-5 Kingcobra
Douglas SBD Dauntless
Lockheed YP-80 Shooting Star



UNION OF SOVIET SOCIALIST REPUBLICS

Bereznyak-Isayev BI-1
Bereznyak-Isayev BI-6
Ilyushin IL-2 Sturmovik (1st / 2nd / 3rd Series / field mod.)
Ilyushin IL-2 Sturmovik (M first-later Series / 3 / 3M / I / T)
Ilyushin IL-10 Beast
Lavochkin La-5
Lavochkin La-5F / FN
Lavochkin La-7
Lavochkin La-7 3xB20
Lavochkin La-7R
Lavochkin/Gorbunov/Gudkov LaGG-3 (4 / 29 / 35 Series)
Lavochkin/Gorbunov/Gudkov LaGG-3 (66 Series / IT)
Lavochkin/Gorbunov/Gudkov LaGG-3RD
Mikoyan-Gurevich MiG-3
Mikoyan-Gurevich MiG-9 F2 (I-300) / FS
Mikoyan-Gurevich I-250 (MiG-13)
Petlyakov Pe-2 (1 Series)
Petlyakov Pe-2 (84 Series)
Petlyakov Pe-2 (110 Series)
Petlyakov Pe-2 (359 Series)
Petlyakov Pe-3
Petlyakov Pe-3bis
Polikarpov I-15bis
Polikarpov I-153
Polikarpov I-16 Type 5 & 6
Polikarpov I-16 Type 18 & 24
Polikarpov I-185 M-71
Polikarpov I-185 M-82
Tupolev TB-3
Yakovlev Yak-1 / B
Yakovlev Yak-3
Yakovlev Yak-3R
Yakovlev Yak-7A / B
Yakovlev Yak-9
Yakovlev Yak-9B / D
Yakovlev Yak-9K / M / T
Yakovlev Yak-9U / UT
Yakovlev Yak-15

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These lists are based partially on the IL-2 Functions tables written by [Shmulik Hen \(AKA 101Hedgehog\)](#) and adapted by Corsican Corsair.



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Aircraft	Power	Boost	Prop Pitch	Mixture	Mixture Setting Alt	Supercharger	Alt S2-S3	Radiators Flaps	Fire Ext	Feather	Drop Tanks
Allied											
A-20C, 1941	0-110	No	0-100	No		2 Stages	2200	C, 2, 4, 6, 8, O	3 times	Yes	No
A-20G, 1943	0-110	No	0-100	No		2 Stages	2200	C, 2, 4, 6, 8, O	3 times	Yes	No
B-25J-1NA, 1944	0-110	No	0-100	No		2 Stages	2700	C, 2, 4, 6, 8, O	3 times	Yes	No
Beaufighter Mk.21, 1944	0-110	No	0-100	0-120	5200	No		C, 2, 4, 6, 8, O	No	Yes	No
BI-1, 1942	0-100	No	No	No		No		No	No	No	No
Bi-6, 1942	0-100	No	No	No		No		No	No	No	No
Buffalo Mk.I, 1941	0-110	No	0-100	0-120	9400	2 Stages	3000	C, 2, 4, 6, 8, O	No	No	No
CW-21B, 1940	0-110	No	0-100	0-120	9400	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	No
F2A-2, 1941	0-110	No	0-100	0-120	9300	2 Stages	3000	C, 2, 4, 6, 8, O	No	No	No
F4F-3, 1941	0-110	No	0-100	100, 120		3 Stages	2500 - 4800	C, 2, 4, 6, 8, O	No	No	Yes
F4F-4, 1942	0-110	No	0-100	100, 120		3 Stages	2500 - 4800	C, 2, 4, 6, 8, O	No	No	Yes
FM-2, 1943	0-110	Auto (> 100)	0-100	100, 120		2 Stages	2500	C, 2, 4, 6, 8, O	No	No	Yes
F4U-1A, 1943	0-110	Auto (> 100)	0-100	100, 120		3 Stages	2600 - 8200	C, 2, 4, 6, 8, O	No	No	Yes
F4U-1C, 1945	0-110	Auto (> 100)	0-100	100, 120		3 Stages	2600 - 8200	C, 2, 4, 6, 8, O	No	No	Yes
F4U-1D, 1944	0-110	Auto (> 100)	0-100	100, 120		3 Stages	2600 - 8200	C, 2, 4, 6, 8, O	No	No	Yes
Corsair Mk.I, 1943	0-110	Auto (> 100)	0-100	100, 120		3 Stages	2600 - 8200	C, 2, 4, 6, 8, O	No	No	Yes
Corsair Mk.II, 1943	0-110	Auto (> 100)	0-100	100, 120		3 Stages	2600 - 8200	C, 2, 4, 6, 8, O	No	No	Yes
Corsair Mk.IV, 1944	0-110	Auto (> 100)	0-100	100, 120		3 Stages	2600 - 8200	C, 2, 4, 6, 8, O	No	No	Yes
F6F-3 Late, 1943	0-110	Auto (> 100)	0-100	100, 120		3 Stages	2500 - 8100	C, 2, 4, 6, 8, O	No	No	Yes
F6F-5, 1944	0-110	Auto (> 100)	0-100	100, 120		3 Stages	2500 - 8100	C, 2, 4, 6, 8, O	No	No	Yes
Hurricane Mk.IIb, 1940	0-110	Yes	0-100	100, 120		2 Stages	2800	C, 2, 4, 6, 8, O	No	No	No
Hurricane Mk.IIc, 1941	0-110	Yes	0-100	100, 120		2 Stages	2800	C, 2, 4, 6, 8, O	No	No	No
Hurricane Mk.II field mod.	0-110	Yes	0-100	100, 120		2 Stages	2800	C, 2, 4, 6, 8, O	No	No	No
I-15bis, 1937	0-110	No	No	0-120	4750	No		C, 2, 4, 6, 8, O	No	No	No
I-15bis (skis), 1937	0-110	No	No	0-120	4750	No		C, 2, 4, 6, 8, O	No	No	No
I-153 M-62, 1939	0-110	No	0-100	0-120	4000	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	No
I-153P, 1939	0-110	No	0-100	0-120	4000	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	No
I-16 Type 5, 1935	0-100	No	No	0-120	4800	No		C, 2, 4, 6, 8, O	No	No	No
I-16 Type 5 (SPB), 1938	0-100	No	No	0-120	4800	No		C, 2, 4, 6, 8, O	No	No	No
I-16 Type 5 (skis), 1935	0-100	No	No	0-120	4800	No		C, 2, 4, 6, 8, O	No	No	No
I-16 Type 6, 1937	0-100	No	No	0-120	4800	No		C, 2, 4, 6, 8, O	No	No	No
I-16 Type 6 (skis), 1937	0-100	No	No	0-120	4700	No		C, 2, 4, 6, 8, O	No	No	No
I-16 Type 18, 1939	0-110	No	0-100	0-120	4900	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	Yes
I-16 Type 24, 1939	0-110	No	0-100	0-120	4800	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	Yes
I-16 Type 24 (SPB), 1939	0-110	No	0-100	0-120	4800	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	No
I-185 M-71, 1942	0-100	Yes	0-100	0-120	5000	3 Stages	2000 - 4200	C, 2, 4, 6, 8, O	No	No	No
I-185 M-82A, 1942	0-100	Yes	0-100	0-120	5000	3 Stages	2000 - 4200	C, 2, 4, 6, 8, O	No	No	No
I-250, 1946	0-100	No	0-100	0-120	5300	2 Stages	2000	No	No	No	No
IL-2, 1941 (1 series)	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-2, 1941 (2 series)	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-2, 1941 (3 series)	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-2, 1941 field mod.	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-2I, 1943	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-2M, 1942 (first series)	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-2M, 1942 (later series)	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-2T, 1943	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No



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Aircraft	Power	Boost	Prop Pitch	Mixture	Mixture Setting Alt	Supercharger	Alt S2-S3	Radiators Flaps	Fire Ext	Feather	Drop Tanks
IL-2 Type 3, 1943	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-2 Type 3M, 1943	0-110	No	0-100	0-120	6850	No		C, 2, 4, 6, 8, O	No	No	No
IL-10, 1945	0-110	No	0-100	0-120	7000	No		C, 2, 4, 6, 8, O	No	No	No
LaGG-3, 1941 (4 series)	0-110	No	0-100	0-120	4700	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	Yes
LaGG-3, 1942 (29 series)	0-110	No	0-100	0-120	3200	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	Yes
LaGG-3, 1942 (35 series)	0-110	No	0-100	0-120	3200	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	Yes
LaGG-3 IT, 1943	0-110	No	0-100	0-120	3100	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	No
LaGG-3, 1943 (66 series)	0-110	No	0-100	0-120	3500	2 Stages	2200	C, 2, 4, 6, 8, O	No	No	Yes
LaGG-3 RD, 1944	0-100	No	No	No		No		No	No	No	No
La-5, 1942	0-100	Yes	0-100	0-120	5000	2 Stages	3500	C, 2, 4, 6, 8, O	No	No	Yes
La-5F, 1943	0-100	Auto (At 100)	0-100	0-120	5000	2 Stages	3500	C, 2, 4, 6, 8, O	No	No	Yes
La-5FN, 1943	0-110	Auto (> 100)	0-100	0-120	5000	2 Stages	3500	C, 2, 4, 6, 8, O	No	No	Yes
La-7, 1944	0-110	Auto (> 100)	0-100	0-120	6000	2 Stages	3500	C, 2, 4, 6, 8, O	No	No	Yes
La-7 3xB-20, 1944	0-110	Auto (> 100)	0-100	0-120	6000	2 Stages	3500	C, 2, 4, 6, 8, O	No	No	Yes
La-7R, 1945	0-110	Auto (> 100)	0-100	0-120	6000	2 Stages	4500	C, 2, 4, 6, 8, O	No	No	Yes
MiG-3, 1940	0-110	No	0-100	0-120	6900	No		C, 2, 4, 6, 8, O	No	No	No
MiG-3ud, 1941	0-110	No	0-100	0-120	7000	No		C, 2, 4, 6, 8, O	No	No	No
MiG-3 2xUB, 1941	0-110	No	0-100	0-120	7000	No		C, 2, 4, 6, 8, O	No	No	No
MiG-3 2xShVAK, 1941	0-110	No	0-100	0-120	7000	No		C, 2, 4, 6, 8, O	No	No	No
MiG-3 AM-38, 1941	0-110	No	0-100	0-120	6800	No		C, 2, 4, 6, 8, O	No	No	No
MiG-3U, 1942	0-110	No	0-100	0-120	7100	No		C, 2, 4, 6, 8, O	No	No	No
MiG-9 (I-300), 1946	0-100	No	No	No		No		No	No	No	No
MiG-9FS, 1946	0-100	No	No	No		No		No	No	No	No
Mosquito FB.Mk.VI, 1943	0-110	Yes	0-100	No		No		C, O	5 times	Yes	No
P.11c, 1939	0-110	No	No	0-120	4900	No		No	No	Yes	No
P-38J, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	Yes	Yes
P-38L, 1944	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	Yes	Yes
P-38L Late, 1944	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	Yes	Yes
P-40, 1941	0-100	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
P-39D-1, 1941	0-100	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-39D-2, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-39N-1, 1942	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
P-39Q-1, 1944	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
P-39Q-10, 1944	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Hawk 81A-2, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
P-40B, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
P-40C, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Tomahawk Mk.IIa, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Tomahawk Mk.IIb, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-40E, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-40E M-105 field mod.	0-110	No	0-100	0-120	5400	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
P-40M, 1942	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-47D-10, 1943	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-47D-22, 1943	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-47D-27, 1944	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-47D, 1944	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
P-51B-NA, 1943	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
P-51C-NT, 1943	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes



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P-51D-5NT, 1944	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
P-51D-20NA, 1944	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Mustang Mk.III, 1944	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
P-63C-5, 1944	0-110	Auto (> 100)	0-100	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Pe-2, 1940 (1 series)	0-110	No	0-100	0-120	4900	2 Stages	3100	C, 2, 4, 6, 8, O	No	No	No
Pe-2, 1942 (84 series)	0-110	No	0-100	0-120	4900	2 Stages	3100	C, 2, 4, 6, 8, O	No	No	No
Pe-2, 1942 (110 series)	0-110	No	0-100	0-120	4900	2 Stages	3100	C, 2, 4, 6, 8, O	No	No	No
Pe-2, 1944 (359 series)	0-110	No	0-100	0-120	4900	2 Stages	2800	C, 2, 4, 6, 8, O	No	No	No
Pe-3, 1941	0-110	No	0-100	0-120	4900	2 Stages	3100	C, 2, 4, 6, 8, O	No	No	No
Pe-3 bis, 1941	0-110	No	0-100	0-120	4900	2 Stages	3100	C, 2, 4, 6, 8, O	No	No	No
SBD-3, 1942	0-110	No	0-100	0-120	9000	2 Stages	3200	C, 2, 4, 6, 8, O	No	No	No
SBD-5, 1943	0-110	No	0-100	0-120	9100	2 Stages	3200	C, 2, 4, 6, 8, O	No	No	No
Seafire L III, 1943	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Seafire F III, 1943	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Spitfire F Vb early, 1941	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire F Vb, 1941	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire F Vb, 1942	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire F Vb CW, 1943	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire LF Vb, 1942	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire LF Vb CW, 1943	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire F Vb Merlin46, 1942	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire F Vc(2) trop, early 1942	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire F Vc(2) trop 1942	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire F Vc(4) trop, early 1942	0-100	Yes	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
Spitfire LF VIII, 1943	0-100	Yes	0-100, Auto	No		No		No	No	No	Yes
Spitfire LF VIII CW, 1943	0-100	Yes	0-100, Auto	No		No		No	No	No	Yes
Spitfire F IXc, 1942	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire F IXc, 1943	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire LF IXc, 1943	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire LF IXc CW, 1943	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire HF IXc, 1944	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire LF IXe, 1944	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire LF IXe CW, 1944	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire HF IXe, 1944	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire LF IXc 25lbs, 1944	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Spitfire LF IXe CW 25lbs, 1944	0-100	Yes	0-100, Auto	No		Auto		No	No	No	Yes
Tempest Mk.V, 1944	0-110	Yes	0-100	No		2 Stages	3000	C, 2, 4, 6, 8, O	No	No	Yes
TB-3 4M-17, 1933	0-100	No	No	No		No		C, 2, 4, 6, 8, O	5 times	No	No
TB-3 4M-34R, 1933	0-110	No	No	No		No		C, 2, 4, 6, 8, O	5 times	No	No
TB-3 4M-34R (SPB)	0-110	No	No	No		No		C, 2, 4, 6, 8, O	5 times	No	No
Yak-1, 1941	0-110	No	0-100	0-120	4800	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-1B, 1942	0-110	No	0-100	0-120	3600	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-3, 1944	0-110	No	0-100	0-120	4500	2 Stages	2000	C, 2, 4, 6, 8, O, Auto	No	No	No
Yak-3P, 1945	0-110	No	0-100	0-120	4500	2 Stages	2000	C, 2, 4, 6, 8, O, Auto	No	No	No
Yak-3 VK-107, 1945	0-110	No	0-100	0-120	5000	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-3R, 1944	0-100	No	0-100	0-120	4900	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-7A, 1941	0-110	No	0-100	0-120	4800	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-7B, 1941	0-110	No	0-100	0-120	4800	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No



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Aircraft	Power	Boost	Prop Pitch	Mixture	Mixture Setting Alt	Supercharger	Alt S2-S3	Radiators Flaps	Fire Ext	Feather	Drop Tanks
Yak-7B, 1942	0-110	No	0-100	0-120	3600	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-9, 1942	0-110	No	0-100	0-120	3600	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-9B, 1944	0-110	No	0-100	0-120	3700	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-9D, 1943	0-110	No	0-100	0-120	3700	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-9M, 1944	0-110	No	0-100	0-120	3600	2 Stages	2000	C, 2, 4, 6, 8, O, Auto	No	No	No
Yak-9K, 1944	0-110	No	0-100	0-120	3700	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-9T, 1943	0-110	No	0-100	0-120	3700	2 Stages	2000	C, 2, 4, 6, 8, O	No	No	No
Yak-9U, 1944	0-110	No	0-100	0-120	4800	2 Stages	2000	C, 2, 4, 6, 8, O, Auto	No	No	No
Yak-9UT, 1945	0-110	No	0-100	0-120	4800	2 Stages	2000	C, 2, 4, 6, 8, O, Auto	No	No	No
Yak-15, 1946	0-100	No	No	No		No		No	No	No	No
YP-80, 1944	0-100	No	No	No		No		No	No	No	No

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Aircraft & Operational Controls (Axis)

Aircraft	Power	Boost	Prop Pitch	Mixture	Mixture Setting Alt	Supercharger	Alt S2-S3	Radiators Flaps	Fire Ext	Feather	Drop Tanks
Axis											
A6M2, 1940	0-110	No	0-100	0-120	6200	No		C, 2, 4, 6, 8, O	No	No	Yes
A6M2-21, 1941	0-110	No	0-100	0-120	6200	No		C, 2, 4, 6, 8, O	No	No	Yes
A6M2-N, 1942	0-110	No	0-100	0-120	6200	No		C, 2, 4, 6, 8, O	No	No	No
A6M3, 1942	0-110	Yes	0-100	100, 120		2 Stages	3300	C, 2, 4, 6, 8, O	No	No	Yes
A6M5, 1943	0-110	Yes	0-100	100, 120		2 Stages	3300	C, 2, 4, 6, 8, O	No	No	Yes
A6M5a, 1944	0-110	Yes	0-100	100, 120		2 Stages	3300	C, 2, 4, 6, 8, O	No	No	Yes
A6M5b, 1944	0-110	Yes	0-100	100, 120		2 Stages	3300	C, 2, 4, 6, 8, O	No	No	Yes
A6M5c, 1944	0-110	Yes	0-100	100, 120		2 Stages	3300	C, 2, 4, 6, 8, O	No	No	Yes
A6M7-62, 1945	0-110	Yes	0-100	100, 120		2 Stages	3300	C, 2, 4, 6, 8, O	No	No	Yes
A6M7-63, 1945	0-110	Yes	0-100	100, 120		2 Stages	3300	C, 2, 4, 6, 8, O	No	No	Yes
Ar-234B-2/lpr, 1944	0-100	No	No	No		No		No	No	No	Yes
B-239, 1940	0-110	No	0-100	0-120	9400	2 Stages	3000	C, 2, 4, 6, 8, O	No	No	No
B-534-IV, 1937	0-100	No	No	0-120	6400	No		C, 2, 4, 6, 8, O	1 time	No	No
Bf 109 E-4, 1940	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	No
Bf 109 E-4/B, 1940	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	No
Bf 109 E-7/B, 1941	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 E-7/Z, 1941	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	No
Bf 109 F-2, 1941	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 F-4, 1941	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 G-2, 1942	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 G-6, 1943	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 G-6 Late, 1943	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 G-6/AS, 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 G-10, 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 G-14, 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 K-4, 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 K-4 C3, 1945	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	Yes
Bf 109 Z, 1944	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	No
Bf 110 G-2, 1942	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	Yes	Yes
CR.42, 1939	0-110	No	0-100	0-120	4600	No		C, 2, 4, 6, 8, O	No	No	No
D.XXI sarja 3 Early, 1939	0-110	No	No	0-120	5100	No		No	3 times	No	No
D.XXI sarja 3 Late, 1941	0-110	No	No	0-120	5100	No		No	3 times	No	No
D3A1, 1940	0-110	No	0-100	0-120	6250	No		C, 2, 4, 6, 8, O	No	No	No
Do 335 A-0, 1944	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	5 times	Yes	No
Do 335 V-13, 1946	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	5 times	Yes	No
Fw 190 A-4, 1942	0-110	No	0-100, Auto	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Fw 190 A-5, 1943	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Fw 190 A-5 1.65 Ata, 1943	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Fw 190 A-6, 1943	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Fw 190 A-8, 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O	No	No	No
Fw 190 A-9, 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O	No	No	No
Fw 190 D-9, 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	No
Fw 190 D-9, 1945	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	No
Fw 190 F-8, 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O	No	No	No
FW 190 A-8 (Mistel), 1944	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O	No	No	No
G.50, 1938	0-110	No	0-100	0-120	4650	No		C, 2, 4, 6, 8, O	5 times	No	No



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Aircraft	Power	Boost	Prop Pitch	Mixture	Mixture Setting Alt	Supercharger	Alt S2-S3	Radiators Flaps	Fire Ext	Feather	Drop Tanks
G4M1-11, 1941	0-110	No	0-100	0-120	6700	2 Stages	3000	C, 2, 4, 6, 8, O	No	Yes	No
Go 229 A-1, 1945	0-100	No	No	No		No		No	No	No	No
He 111 H-2, 1939	0-110	No	0-100	0-120	4800	2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
He 111 H-6, 1941	0-110	No	0-100	0-120	4700	2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
He 111 H-12, 1942	0-110	No	0-100	0-120	4700	2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
He 162A-2, 1945	0-100	No	No	No		No		No	No	No	No
He 162C, 1946	0-110	No	No	No		No		No	No	No	No
He 162D, 1946	0-110	No	No	No		No		No	No	No	No
Heinkel Lerche III B-2, 1946	0-110	No	0-100	No		No		No	No	Yes	No
Hurricane Mk.I, 1938	0-110	No	0-100	100, 120		No		C, 2, 4, 6, 8, O	No	No	No
Hs 129 B-2, 1942	0-110	No	-/+, Auto	0-120	4700	No		C, 2, 4, 6, 8, O	1 time	Yes	No
Hs 129 B-3/Wa, 1944	0-110	No	-/+, Auto	0-120	4700	No		C, 2, 4, 6, 8, O	1 time	Yes	No
I.A.R 80, 1940	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
I.A.R 81a, 1940	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
I.A.R 81c, 1940	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
J2M3, 1944	0-110	Yes	0-100	0-120	6500	2 Stages	3000	C, 2, 4, 6, 8, O	No	No	No
J2M5, 1944	0-110	Yes	0-100	0-120	6500	3 Stages	3000 - 5500	C, 2, 4, 6, 8, O	No	No	No
J8A, 1937	0-110	No	No	0-120	4900	No		No	No	Yes	No
Ju 87 B-2, 1940	0-110	No	0-100	No		2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
Ju 87 D-3, 1942	0-110	No	0-100	No		2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
Ju 87 D-5, 1943	0-110	No	0-100	No		2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
Ju 87 G-1, 1943	0-110	No	0-100	No		2 Stages	2800	C, 2, 4, 6, 8, O	No	Yes	No
Ju 88 A-4, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
Ju 88 A-4/Torp, 1942	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
Ju 88 A-17, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
Ki-27 Ko, 1938	0-110	No	No	0-120	6000	No		C, 2, 4, 6, 8, O	No	No	No
Ki-27 Otsu, 1938	0-110	No	No	0-120	6000	No		C, 2, 4, 6, 8, O	No	No	No
Ki-43-Ia, 1941	0-110	No	0-100	0-120	6400	No		C, 2, 4, 6, 8, O	No	No	No
Ki-43-Ib, 1941	0-110	No	0-100	0-120	6400	No		C, 2, 4, 6, 8, O	No	No	No
Ki-43-Ic, 1941	0-110	No	0-100	0-120	6400	No		C, 2, 4, 6, 8, O	No	No	No
Ki-43-II, 1942	0-110	No	0-100	0-120	6400	2 Stages	3300	C, 2, 4, 6, 8, O	No	No	No
Ki-43-II Kai, 1943	0-110	No	0-100	0-120	6400	2 Stages	3300	C, 2, 4, 6, 8, O	No	No	No
Ki-61-I Ko, 1942	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Ki-61-I Hei, 1944	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	4 times	No	Yes
Ki-61-I Otsu, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	Yes
Ki-84-Ia, 1944	0-110	Yes	0-100	100, 120		2 Stages	2500	C, 2, 4, 6, 8, O	No	No	Yes
Ki-84-Ib, 1944	0-110	Yes	0-100	100, 120		2 Stages	2500	C, 2, 4, 6, 8, O	No	No	Yes
Ki-84-Ic, 1945	0-110	Yes	0-100	100, 120		2 Stages	2500	C, 2, 4, 6, 8, O	No	No	Yes
Ki-100-I Ko, 1945	0-110	Yes	0-100	0-120	6500	2 Stages	3500	C, 2, 4, 6, 8, O	No	No	No
MC.200 Serie 3, 1940	0-110	No	0-100	0-120	4600	No		C, 2, 4, 6, 8, O	5 times	No	No
MC.200 Serie 7, 1941	0-110	No	0-100	0-120	4600	No		C, 2, 4, 6, 8, O	5 times	No	No
MC.200 Serie 7 FB, 1941	0-110	No	0-100	0-120	4600	No		C, 2, 4, 6, 8, O	5 times	No	No
MC.202 Serie III, 1941	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
MC.202 Serie VII, 1942	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
MC.202 Serie XII, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	No	No
MC.205 V Serie I, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
MC.205 V Serie III, 1943	0-110	No	0-100	No		No		C, 2, 4, 6, 8, O	No	Yes	No
Me 163 B-1a, 1944	0-110	No	No	No		No		No	No	No	No



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Aircraft	Power	Boost	Prop Pitch	Mixture	Mixture Setting Alt	Supercharger	Alt S2-S3	Radiators Flaps	Fire Ext	Feather	Drop Tanks
Me 262 A-1a, 1944	0-100	No	No	No		No		No	No	No	No
Me 262 A-1a/U4, 1945	0-100	No	No	No		No		No	No	No	No
Me 262 A-2a, 1944	0-100	No	No	No		No		No	No	No	No
Me 262 HG-II, 1946	0-110	No	No	No		No		No	No	No	No
N1K2-Ja, 1944	0-110	Yes	No	0-120	6400	2 Stages	4000	C, 2, 4, 6, 8, O	No	No	Yes
Re.2000, 1940	0-110	Yes	0-100	0-120	4200	No		C, 2, 4, 6, 8, O	5 times	Yes	No
SM.79, 1936	0-110	No	0-49/50-100	0-120	5300	No		C, 2, 4, 6, 8, O	3 times	No	No
Ta 152 C, 1945	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	No
Ta 152 H-1, 1945	0-110	Yes	0-100, Auto	No		No		C, 2, 4, 6, 8, O, Auto	No	No	No
Ta 183, 1946	0-110	No	No	No		No		No	No	No	No

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Allied																					
A-20C, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	Yes	Yes	Yes	Ring	No	Yes	Yes	Yes	No
A-20G, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
B-25J-1NA, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Reflector	No	Yes	Yes	No	No
Beaufighter Mk.21, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Bl-1, 1942	No	No	No	R-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	No	No	No
Bi-6, 1942	No	No	No	R-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	No	No	No
Buffalo Mk.I, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
CW-21B, 1940	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	Yes	No	No	No	No	Ring	No	Yes	Yes	Yes	No
F2A-2, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	Yes	Yes	No	No	No	No	Telescope	No	Yes	Yes	No	No
F4F-3, 1941	Yes	Yes	Yes	R-C-T/O-L-Auto	Manual	No	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
F4F-4, 1942	Yes	Yes	Yes	R-C-T/O-L-Auto	Manual	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
FM-2, 1943	Yes	Yes	Yes	R-C-T/O-L-Auto	Manual	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
F4U-1A, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	No	Yes
F4U-1C, 1945	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	No	Yes
F4U-1D, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	No	Yes
Corsair Mk.I, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	No	Yes
Corsair Mk.II, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	No	Yes
Corsair Mk.IV, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	No	Yes	Yes	No	No
F6F-3 Late, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
F6F-5, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
Hurricane Mk.IIb, 1940	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
Hurricane Mk.IIc, 1941	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
Hurricane Mk.II field mod.	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
I-15bis, 1937	No	No	No	No	No	No	No	Yes	No	No	Yes	No	No	No	No	Telescope	Yes	Yes	Yes	No	No
I-15bis (skis), 1937	No	No	No	No	No	No	No	No	No	No	Yes	No	No	No	No	Telescope	Yes	Yes	Yes	No	No
I-153 M-62, 1939	No	No	No	No	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
I-153P, 1939	No	No	No	No	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
I-16 Type 5, 1935	No	No	No	R-L	Manual	No	Yes	No	No	No	Yes	Yes	No	No	No	Telescope	Yes	Yes	Yes	No	No
I-16 Type 5 (SPB), 1938	No	No	No	R-L	Manual	No	Yes	No	No	No	Yes	Yes	No	No	No	Telescope	Yes	Yes	Yes	No	No
I-16 Type 5 (skis), 1935	No	No	No	R-L	No	No	No	No	No	No	Yes	Yes	No	No	No	Telescope	Yes	Yes	Yes	No	No
I-16 Type 6, 1937	No	No	No	R-L	Manual	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
I-16 Type 6 (skis), 1937	No	No	No	R-L	No	No	No	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
I-16 Type 18, 1939	No	No	No	R-L	Manual	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	No	No	No
I-16 Type 24, 1939	No	No	No	R-L	Manual	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	No	No	No
I-16 Type 24 (SPB), 1939	No	No	No	R-L	Manual	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	No	No	No
I-185 M-71, 1942	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
I-185 M-82A, 1942	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
I-250, 1946	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
IL-2, 1941 (1 series)	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
IL-2, 1941 (2 series)	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
IL-2, 1941 (3 series)	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
IL-2, 1941 field mod.	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
IL-2i, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Engraved	No	Yes	Yes	Yes	No
IL-2M, 1942 (first series)	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Engraved	No	Yes	Yes	Yes	No
IL-2M, 1942 (later series)	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Engraved	No	Yes	Yes	Yes	No
IL-2T, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Engraved	No	Yes	Yes	Yes	No
IL-2 Type 3, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Engraved	No	Yes	Yes	Yes	No
IL-2 Type 3M, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Engraved	No	Yes	Yes	Yes	No
IL-10, 1945	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
LaGG-3, 1941 (4 series)	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
LaGG-3, 1942 (29 series)	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
LaGG-3, 1942 (35 series)	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
LaGG-3 IT, 1943	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
LaGG-3, 1943 (66 series)	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
LaGG-3 RD, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
La-5, 1942	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
La-5F, 1943	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
La-5FN, 1943	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
La-7, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
La-7 3xB-20, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
La-7R, 1945	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
MiG-3, 1940	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No

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MiG-3ud, 1941	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
MiG-3 2xUB, 1941	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
MiG-3 2xShVAK, 1941	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
MiG-3 AM-38, 1941	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
MiG-3U, 1942	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
MiG-9 (I-300), 1946	Yes	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
MiG-9FS, 1946	Yes	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
Mosquito FB.Mk.VI, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
P.11c, 1939	Yes	Yes	Yes	No	No	No	Yes	Yes	No	No	No	No	No	No	No	Ring	No	No	No	No	No
P-38J, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-38L, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-38L Late, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-400, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
P-39D-1, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
P-39D-2, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
P-39N-1, 1942	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
P-39Q-1, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
P-39Q-10, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Hawk 81A-2, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
P-40B, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
P-40C, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Tomahawk Mk.IIa, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
Tomahawk Mk.IIb, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
P-40E, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
P-40E M-105 field mod.	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
P-40M, 1942	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
P-47D-10, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-47D-22, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-47D-27, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-47D, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-51B-NA, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
P-51C-NT, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-51D-5NT, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
P-51D-20NA, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Gyro	No	Yes	Yes	Yes	No
Mustang Mk.III, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
P-63C-5, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Pe-2, 1940 (1 series)	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Reflector	No	Yes	No	No	No
Pe-2, 1942 (84 series)	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Reflector	No	Yes	No	No	No
Pe-2, 1942 (110 series)	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Reflector	No	Yes	No	No	No
Pe-2, 1944 (359 series)	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	No	No	No	No	Yes	No	Yes	Reflector	No	Yes	No	No	No
Pe-3, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	No	No	No	No
Pe-3 bis, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	No	No	No
SBD-3, 1942	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	No	Yes	Yes	No	No	No	No	Telescope	No	Yes	Yes	No	No
SBD-5, 1943	Yes	Yes	Yes	R-C-T/O-L	Auto	Yes	Yes	Yes	No	Yes	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
Seafire L III, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Seafire F III, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F Vb early, 1941	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F Vb, 1941	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F Vb, 1942	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F Vb CW, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF Vb, 1942	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF Vb CW, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F Vb Merlin46, 1942	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F Vc(2) trop, early 1942	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F Vc(2) trop 1942	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F Vc(4) trop, early 1942	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF VIII, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF VIII CW, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F IXc, 1942	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire F IXc, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF IXc, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF IXc CW, 1943	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire HF IXc, 1944	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes

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Spitfire LF IXe, 1944	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF IXe CW, 1944	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire HF IXe, 1944	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF IXc 25lbs, 1944	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Spitfire LF IXe CW 25lbs, 1944	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
Tempest Mk.V, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
TB-3 4M-17, 1933	Yes	No	No	No	No	No	Yes	No	No	No	No	No	Yes	No	Yes	None	No	Yes	Yes	Yes	No
TB-3 4M-34R, 1933	Yes	No	No	No	No	No	Yes	No	No	No	No	No	Yes	No	Yes	None	No	Yes	Yes	Yes	No
TB-3 4M-34R (SPB)	Yes	No	No	No	No	No	Yes	No	No	No	No	No	Yes	No	Yes	None	No	Yes	Yes	Yes	No
Yak-1, 1941	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-1B, 1942	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-3, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-3P, 1945	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-3 VK-107, 1945	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-3R, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-7A, 1941	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-7B, 1941	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-7B, 1942	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-9, 1942	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-9B, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-9D, 1943	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-9M, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-9K, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-9T, 1943	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-9U, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-9UT, 1945	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Yak-15, 1946	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
YP-80, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Gyro	No	Yes	Yes	No	No

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Axis																					
A6M2, 1940	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M2-21, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M2-N, 1942	Yes	No	No	R-C-T/O-L	No	No	No	No	No	No	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M3, 1942	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M5, 1943	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M5a, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M5b, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	Yes	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M5c, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M7-62, 1945	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
A6M7-63, 1945	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	Yes	No	No	No	Reflector	Yes	Yes	Yes	No	No
Ar-234B-2/lpr, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	Yes	Yes	Yes	Periscope	No	Yes	Yes	No	No
B-239, 1940	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
B-534-IV, 1937	Yes	No	No	No	No	No	Yes	No	No	No	Yes	Yes	No	No	No	Ring	No	Yes	Yes	No	No
Bf 109 E-4, 1940	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 E-4/B, 1940	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 E-7/B, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 E-7/Z, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 F-2, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 F-4, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 G-2, 1942	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 G-6, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 G-6 Late, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 G-6/AS, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 G-10, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 G-14, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 K-4, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 K-4 C3, 1945	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 109 Z, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Bf 110 G-2, 1942	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
CR.42, 1939	Yes	Yes	Yes	No	No	No	Yes	No	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
D.XXI sarja 3 Early, 1939	Yes	No	No	R-C-T/O-L	No	No	Yes	Yes	No	No	Yes	Yes	No	No	No	Tel. or Ref.	Yes	Yes	Yes	Yes	No
D.XXI sarja 3 Late, 1941	Yes	No	No	R-C-T/O-L	No	No	Yes	Yes	No	No	Yes	Yes	No	No	No	Tel. or Ref.	Yes	Yes	Yes	Yes	No
D3A1, 1940	Yes	Yes	Yes	R-C-T/O-L	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Telescope	Yes	Yes	Yes	Yes	No
Do 335 A-0, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	Yes	Yes	Reflector	Yes	Yes	Yes	Yes	No
Do 335 V-13, 1946	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	Yes	Yes	Reflector	Yes	Yes	Yes	Yes	No
Fw 190 A-4, 1942	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Fw 190 A-5, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Fw 190 A-5 1.65 Ata, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Fw 190 A-6, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Fw 190 A-8, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Fw 190 A-9, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Fw 190 D-9, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Fw 190 D-9, 1945	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Fw 190 F-8, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
FW 190 A-8 (Mistel), 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
G.50, 1938	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
G4M1-11, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	Yes	Yes	Yes	None	No	Yes	Yes	No	No
Go 229 A-1, 1945	Yes	Yes	No	R-C-T/O-L	Auto	Yes	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
He 111 H-2, 1939	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	Yes	Yes	Yes	None	No	Yes	Yes	Yes	No
He 111 H-6, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	Yes/Binoc.	Yes	Yes	None	No	Yes	Yes	Yes	No
He 111 H-12, 1942	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	Yes	Yes	Yes	None	No	Yes	Yes	Yes	No
He 162A-2, 1945	Yes	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	No	No	No
He 162C, 1946	Yes	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	No	No	No
He 162D, 1946	Yes	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	No	No	No
Heinkel Lerche III B-2, 1946	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	Reflector	No	No	No	Yes	No
Hurricane Mk.1, 1938	Yes	No	Yes	R-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	Yes	Yes
Hs 129 B-2, 1942	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	Yes	Yes	Yes	No	Yes
Hs 129 B-3/Wa, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	Yes	Yes	Yes	No	Yes
I.A.R 80, 1940	Yes	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Ring	No	Yes	Yes	No	Yes
I.A.R 81a, 1940	Yes	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	Yes
I.A.R 81c, 1940	Yes	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	Yes
J2M3, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No

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Aircraft	E Trim	A Trim	R Trim	Flaps	Gear	Airbrake	Wheel Brakes	Lock Tail	Wing Fold	Hook	O/C Canopy	Seat	Bombsight	Bombsight Auto	Level Stab	Gunsight - Toggle - Yes / No	Reticle Dim	Cockpit Lights	Nav Lights	Land Lights	Mirror
J2M5, 1944	Yes	No	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	No	Yes	No	No
J8A, 1937	Yes	Yes	Yes	R-L	No	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
Ju 87 B-2, 1940	Yes	Yes	Yes	R-C-T/O-L	No	Yes	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
Ju 87 D-3, 1942	Yes	Yes	Yes	R-C-T/O-L	No	Yes	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
Ju 87 D-5, 1943	Yes	Yes	Yes	R-C-T/O-L	No	Yes	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
Ju 87 G-1, 1943	Yes	Yes	Yes	R-C-T/O-L	No	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
Ju 88 A-4, 1941	Yes	Yes	Yes	R-C-T/O-L-Auto	Auto	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Reflector	Yes	Yes	Yes	Yes	No
Ju 88 A-4/Torp, 1942	Yes	Yes	Yes	R-C-T/O-L-Auto	Auto	No	Yes	Yes	No	No	No	No	Binoculars	No	Yes	Reflector	Yes	Yes	Yes	Yes	No
Ju 88 A-17, 1943	Yes	Yes	Yes	R-C-T/O-L-Auto	Auto	No	Yes	Yes	No	No	No	No	Binoculars	No	Yes	Reflector	Yes	Yes	Yes	Yes	No
Ki-27 Ko, 1938	Yes	No	No	R-C-T/O-L	No	No	Yes	No	No	No	Yes	No	No	No	No	Telescope	Yes	Yes	Yes	No	No
Ki-27 Otsu, 1938	Yes	No	No	R-C-T/O-L	No	No	Yes	No	No	No	Yes	No	No	No	No	Telescope	Yes	Yes	Yes	No	Yes
Ki-43-la, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Telescope	Yes	Yes	Yes	No	No
Ki-43-lb, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Telescope	Yes	Yes	Yes	No	No
Ki-43-lc, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Telescope	Yes	Yes	Yes	No	No
Ki-43-II, 1942	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	No	Yes	No	No
Ki-43-II Kai, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	No	Yes	No	No
Ki-61-I Ko, 1942	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Ki-61-I Hei, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Ki-61-I Otsu, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	Yes	No
Ki-84-la, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
Ki-84-lb, 1944	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
Ki-84-lc, 1945	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
Ki-100-I Ko, 1945	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	Yes	Yes	Yes	Yes	No
MC.200 Serie 3, 1940	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
MC.200 Serie 7, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
MC.200 Serie 7 FB, 1941	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
MC.202 Serie III, 1941	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
MC.202 Serie VII, 1942	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
MC.202 Serie XII, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	Yes
MC.205 V Serie I, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	Yes
MC.205 V Serie III, 1943	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	Yes
Me 163 B-1a, 1944	Yes	No	No	R-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	No	No	No
Me 262 A-1a, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Me 262 A-1a/U4, 1945	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Me 262 A-2a, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
Me 262 HG-II, 1946	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No
N1K2-Ja, 1944	Yes	Yes	Yes	R-C-T/O-L	Auto	No	Yes	No	Yes	No	Yes	No	No	No	No	Reflector	No	No	Yes	No	No
Re.2000, 1940	Yes	Yes	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	Yes	No	No	No	No	Reflector	No	Yes	Yes	No	No
SM.79, 1936	Yes	No	Yes	Auto	Auto	No	Yes	Yes	No	No	Gunners	No	Bomb / Torp,	No	Yes	Ring	Yes	Yes	Yes	Yes	No
Ta 152 C, 1945	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
Ta 152 H-1, 1945	Yes	No	No	R-C-T/O-L	Auto	No	Yes	Yes	No	No	No	No	No	No	No	Reflector	No	Yes	Yes	No	No
Ta 183, 1946	No	No	No	R-C-T/O-L	Auto	No	Yes	No	No	No	No	No	No	No	No	Reflector	Yes	Yes	Yes	No	No

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Aircraft	Adjustable compass	Homing indicator	ILS capacity	Radio compass	Course & gyro indicator	Course pointer	Voice radio com. availability
Allied							
A-20C, 1941	No	Yes	No	No	No	No	Yes
A-20G, 1943	No	Yes	No	No	No	No	Yes
B-25J-1NA, 1944	Yes	Yes (ILS)	Yes	Yes	No	No	Yes
Beaufighter Mk.21, 1944	No	Yes	No	Yes	No	No	Yes
F4F-3, 1941	Yes	No	No	No	No	No	No
F4F-4, 1942	Yes	No	No	No	No	No	No
FM-2, 1943	Yes	No	No	No	No	No	No
F4U-1A, 1943	Yes	No	No	No	No	No	No
F4U-1C, 1945	Yes	No	No	No	No	No	No
F4U-1D, 1944	Yes	No	No	No	No	No	No
Corsair Mk.I, 1943	Yes	No	No	No	No	No	No
Corsair Mk.II, 1943	Yes	No	No	No	No	No	No
Corsair Mk.IV, 1944	Yes	No	No	No	No	No	No
F6F-3 Late, 1943	Yes	No	No	No	No	No	No
F6F-5, 1944	Yes	No	No	No	No	No	No
IL-10, 1945	Yes	Yes	No	No	No	No	No
La-7 3xB-20, 1944	No	Yes	No	Yes	No	No	No
MiG-9 (I-300), 1946	Yes	Yes	No	No	No	No	No
MiG-9FS, 1946	Yes	Yes	No	No	No	No	No
Mosquito FB.Mk.VI, 1943	Yes	No	No	No	No	No	Yes
P-38J, 1943	Yes	No	No	No	No	No	No
P-38L, 1944	Yes	No	No	No	No	No	No
P-38L Late, 1944	Yes	No	No	No	No	No	No
P-400, 1941	Yes	No	No	No	No	No	No
P-39D-1, 1941	Yes	No	No	No	No	No	No
P-39D-2, 1941	Yes	No	No	No	No	No	No
P-39N-1, 1942	Yes	No	No	No	No	No	No
P-39Q-1, 1944	Yes	No	No	No	No	No	No
P-39Q-10, 1944	Yes	No	No	No	No	No	No
P-51B-NA, 1943	Yes	No	No	No	No	No	No
P-51C-NT, 1943	Yes	No	No	No	No	No	No
P-51D-5NT, 1944	Yes	No	No	No	No	No	No
P-51D-20NA, 1944	Yes	No	No	No	No	No	No
Mustang Mk.III, 1944	Yes	No	No	No	No	No	No
P-63C-5, 1944	Yes	No	No	No	No	No	No
Pe-2, 1940 (1 series)	No	Yes	No	No	No	No	Yes
Pe-2, 1942 (84 series)	No	Yes	No	No	No	No	Yes
Pe-2, 1942 (110 series)	No	Yes	No	No	No	No	Yes
Pe-2, 1944 (359 series)	No	Yes	No	No	No	No	Yes
TB-3 4M-17, 1933	No	Yes	No	No	No	No	Yes
TB-3 4M-34R, 1933	No	Yes	No	No	No	No	Yes
TB-3 4M-34R (SPB)	No	Yes	No	No	No	No	Yes
YP-80, 1944	Yes	No	No	No	No	No	No



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Aircraft	Adjustable compass	Homing indicator	ILS capacity	Radio compass	Course & gyro indicator	Course pointer	Voice radio com. availability
Axis							
A6M2, 1940	Yes	Yes	No	No	No	No	No
A6M2-21, 1941	Yes	Yes	No	No	No	No	No
A6M2-N, 1942	Yes	Yes	No	No	No	No	No
A6M3, 1942	Yes	Yes	No	No	No	No	No
A6M5, 1943	Yes	Yes	No	No	No	No	No
A6M5a, 1944	Yes	Yes	No	No	No	No	No
A6M5b, 1944	Yes	Yes	No	No	No	No	No
A6M5c, 1944	Yes	Yes	No	No	No	No	No
A6M7-62, 1945	Yes	Yes	No	No	No	No	No
A6M7-63, 1945	Yes	Yes	No	No	No	No	No
Ar-234B-2/lpr, 1944	Yes	Yes	Yes	No	No	No	No
B-239, 1940	No	Yes	No	No	No	No	No
Bf 109 E-4, 1940	Yes	No	No	No	No	No	No
Bf 109 E-4/B, 1940	Yes	No	No	No	No	No	No
Bf 109 E-7/B, 1941	Yes	No	No	No	No	No	No
Bf 109 E-7/Z, 1941	Yes	No	No	No	No	No	No
Bf 109 F-2, 1941	Yes	No	No	No	No	No	No
Bf 109 F-4, 1941	Yes	No	No	No	No	No	No
Bf 109 G-2, 1942	Yes	No	No	No	No	No	No
Bf 109 G-6, 1943	Yes	Yes	Yes	No	No	No	No
Bf 109 G-6 Late, 1943	Yes	Yes	Yes	No	No	No	No
Bf 109 G-6/AS, 1944	Yes	Yes	Yes	No	No	No	No
Bf 109 G-10, 1944	Yes	Yes	Yes	No	No	No	No
Bf 109 G-14, 1944	Yes	Yes	Yes	No	No	No	No
Bf 109 K-4, 1944	Yes	Yes	Yes	No	No	No	No
Bf 109 K-4 C3, 1945	Yes	Yes	Yes	No	No	No	No
Bf 109 Z, 1944	Yes	Not active	No	No	No	No	No
Bf 110 G-2, 1942	Yes	Yes	Yes	Yes (rear)	Yes	No	Yes
D.XXI sarja 3 Early, 1939	Yes	No	No	No	No	No	No
D.XXI sarja 3 Late, 1941	Yes	No	No	No	No	No	No
D3A1, 1940	Yes	Yes	No	No	No	No	No
Do 335 A-0, 1944	Yes	Yes	Yes	No	No	No	No
Do 335 V-13, 1946	Yes	Yes	Yes	No	No	No	No
Fw 190 A-4, 1942	Yes	Yes	Yes	No	No	No	No
Fw 190 A-5, 1943	Yes	Yes	Yes	No	No	No	No
Fw 190 A-5 1.65 Ata, 1943	Yes	Yes	Yes	No	No	No	No
Fw 190 A-6, 1943	Yes	Yes	Yes	No	No	No	No
Fw 190 A-8, 1944	Yes	Yes	Yes	No	No	No	No
Fw 190 A-9, 1944	Yes	Yes	Yes	No	No	No	No
Fw 190 D-9, 1944	Yes	Yes	Yes	No	No	No	No
Fw 190 D-9, 1945	Yes	Yes	Yes	No	No	No	No
Fw 190 F-8, 1944	Yes	Yes	Yes	No	No	No	No
FW 190 A-8 (Mistel), 1944	Yes	Yes	Yes	No	No	No	No
G4M1-11, 1941	Yes	Yes	Yes	No	No	No	Yes
Go 229 A-1, 1945	Yes	Not active	No	No	No	No	No



Click on the war flag to go in the corresponding page.

REALISTIC NAVIGATION INSTRUMENTATION

Aircraft	Adjustable compass	Homing indicator	ILS capacity	Radio compass	Course & gyro indicator	Course pointer	Voice radio com. availability
He 111 H-2, 1939	Yes	Yes	Yes	Yes	No	Yes	Yes
He 111 H-6, 1941	Yes	Yes	Yes	Yes	No	Yes	Yes
He 111 H-12, 1942	Yes	Yes	Yes	Yes	No	Yes	Yes
He 162A-2, 1945	No	Yes	Yes	No	No	No	No
He 162C, 1946	No	Yes	Yes	No	No	No	No
He 162D, 1946	No	Yes	Yes	No	No	No	No
Hs 129 B-2, 1942	Yes	Yes	Yes	No	No	No	No
Hs 129 B-3/Wa, 1944	Yes	Yes	Yes	No	No	No	No
I.A.R 80, 1940	Yes	No	No	No	No	No	No
I.A.R 81a, 1940	Yes	No	No	No	No	No	No
I.A.R 81c, 1940	Yes	No	No	No	No	No	No
Ju 87 B-2, 1940	Yes	No	No	No	No	No	No
Ju 87 D-3, 1942	Yes	Yes	Yes	No	No	No	No
Ju 87 D-5, 1943	Yes	Yes	Yes	No	No	No	No
Ju 87 G-1, 1943	Yes	Yes	Yes	No	No	No	No
Ju 88 A-4, 1941	Yes	Yes	Yes	Yes	Yes	No	Yes
Ju 88 A-4/Torp, 1942	Yes	Yes	Yes	Yes	Yes	No	Yes
Ju 88 A-17, 1943	Yes	Yes	Yes	Yes	Yes	No	Yes
Me 262 A-1a, 1944	Yes	Yes	Yes	No	No	No	No
Me 262 A-1a/U4, 1945	Yes	Yes	Yes	No	No	No	No
Me 262 A-2a, 1944	Yes	Yes	Yes	No	No	No	No
Me 262 HG-II, 1946	Yes	Yes	Yes	No	No	No	No
N1K2-Ja, 1944	No	Yes	No	No	No	No	No
SM.79, 1936	No	Yes	No	No	No	No	Yes
Ta 152 C, 1945	Yes	Yes	Yes	No	No	No	No
Ta 152 H-1, 1945	Yes	Yes	Yes	No	No	No	No
Ta 183, 1946	Yes	Yes	Yes	No	No	No	No

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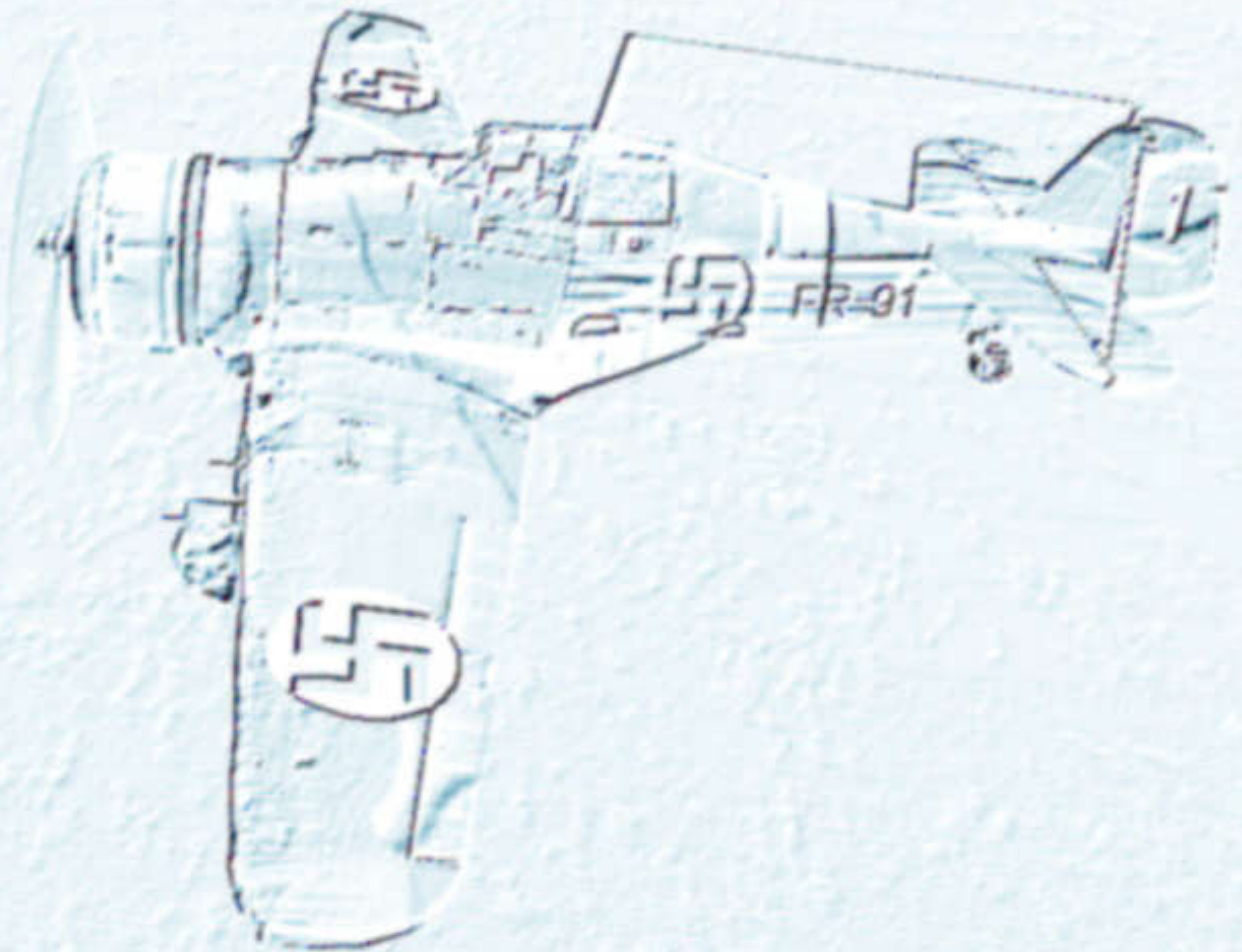


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FINLAND



NETHERLANDS





1. Goertz gunsight
2. Airspeed indicator
3. Turn and bank indicator
4. Variometer
5. Fuel pressure gage
6. Oil pressure gage
7. Oil temperature gage
8. Altimeter
9. Pitch inclinometer
10. Cylinder head temperature gage
11. Brakes triple pressure gage: left & right brakes (top)
not active with skis storage cylinder (bottom)
12. Manifold pressure gage
13. Tachometer
14. Fuel gage
15. Magnetic compass (course setting on upper half)
16. Mixture lever
17. Throttle
18. Engine ignition switch
19. Oxygen pressure gage
20. Oxygen quantity gage
21. Clock
22. Position lights switch
23. Cockpit light switch
24. Landing light switch
25. Gear brakes lever
26. Flaps position indicator
27. Elevator trim indicator
28. Elevator trim wheel
29. Flaps handpump
30. Flaps up-down lever
31. Tail wheel lock lever



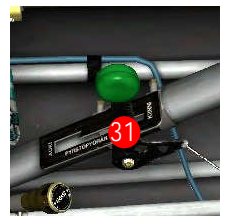
D.XXI - Dutch (<http://www.nederlandseluchtvaart.nl/fotoboek/>)

D.XXI - Finnish (<http://www.preservedaxisaircraft.com/>)





- 1. Revi 3a gunsight
- 2. Airspeed indicator
- 3. Turn and bank indicator
- 4. Variometer
- 5. Fuel pressure gage
- 6. Oil pressure gage
- 7. Oil temperature gage
- 8. Altimeter
- 9. Pitch inclinometer
- 10. Cylinder head temperature gage
- 11. Brakes triple pressure gage: left & right brakes (top)
(not active with skis) storage cylinder (bottom)
- 12. Manifold pressure gage
- 13. Tachometer
- 14. Fuel gage
- 15. Magnetic compass (course setting on upper half)
- 16. Mixture lever
- 17. Throttle
- 18. Engine ignition switch
- 19. Oxygen pressure gage
- 20. Oxygen quantity gage
- 21. Clock
- 22. Position lights switch
- 23. Cockpit light switch
- 24. Landing light switch
- 25. Gear brakes lever



D.XXI - Finnish (http://www.sci.fi/~fai/fm-2.htm)



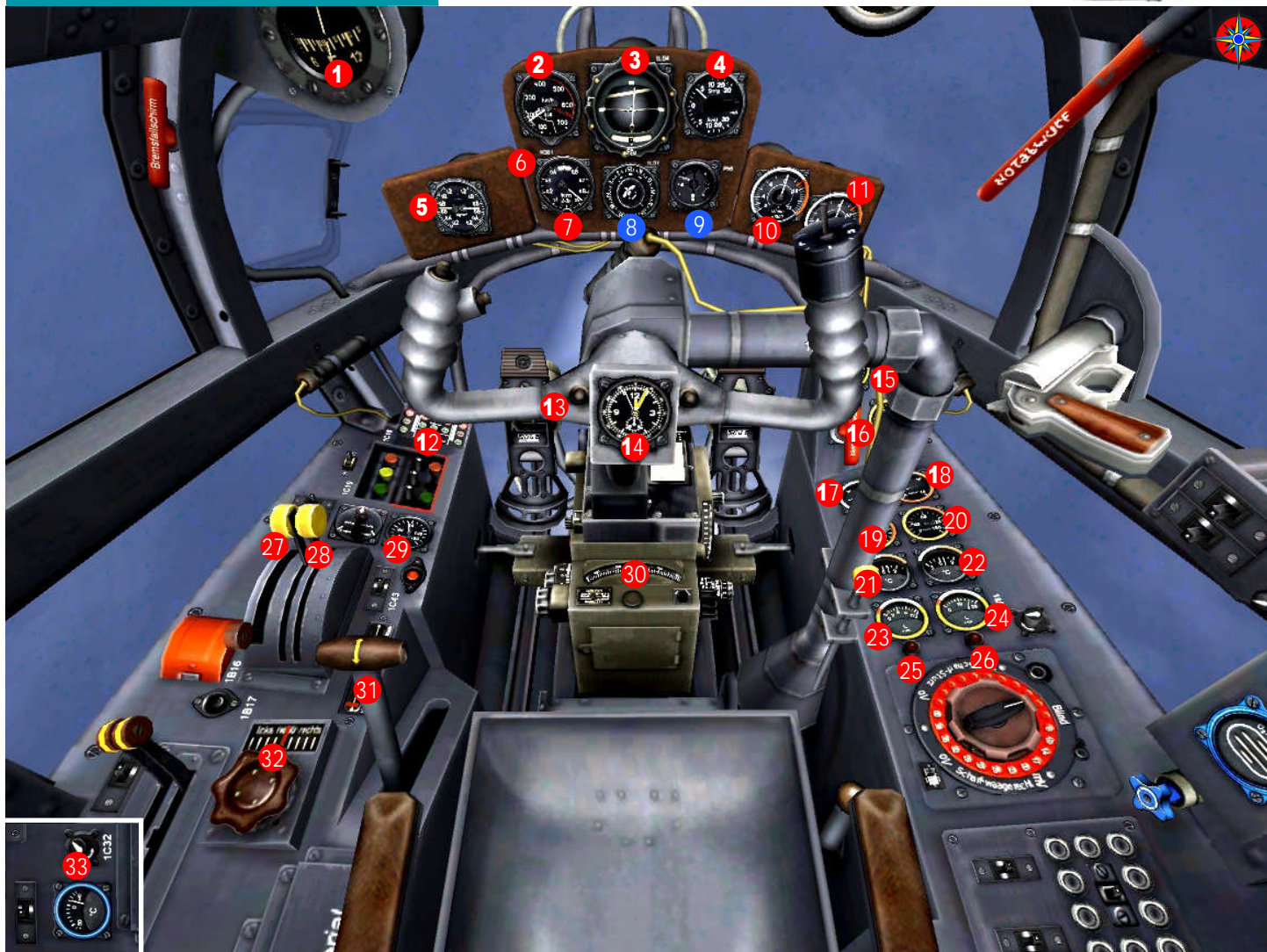


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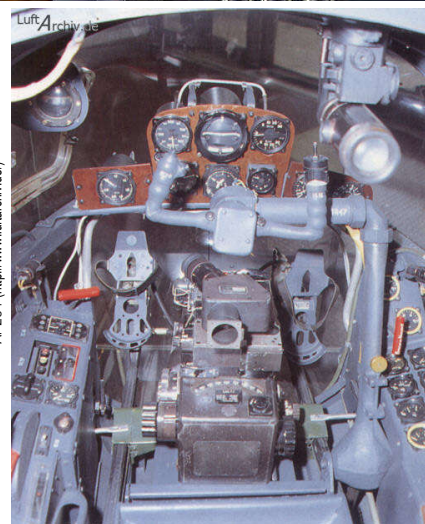
GERMANY



Arado Ar 234 B-2 «Blitz»



1. Magnetic compass
2. Airspeed indicator
3. Artificial horizon / turn and bank indicator
4. Variometer
5. Exhaust pitot pressure gage (left & right engine)
6. Stall warning light
7. Altimeter
8. Repeater compass
9. Homing indicator
10. Left engine tachometer
11. Right engine tachometer
12. Landing gear & flaps actuators and indicators
13. Instrument light switch
14. Clock
15. Left engine gas pressure gage
16. Right engine gas pressure gage
17. Left engine oil pressure gage
18. Right engine oil pressure gage
19. Left engine fuel injection pressure gage
20. Right engine fuel injection pressure gage
21. Left engine gas temperature gage
22. Right engine gas temperature gage
23. Fuel gage (front)
24. Fuel gage (rear)
25. Low fuel warning light (front)
26. Low fuel warning light (rear)
27. Left engine throttle
28. Right engine throttle
29. Hydraulic pressure gage
30. Bombsight controls
31. Elevator trim lever & indicator
32. Rudder trim wheel & indicator
33. Outside temperature gage



Ar 234 (http://www.luftarchiv.de/)

Ar 234 (http://www.clubhyper.com/reference/images/ar234cockpitbs_1.jpg)

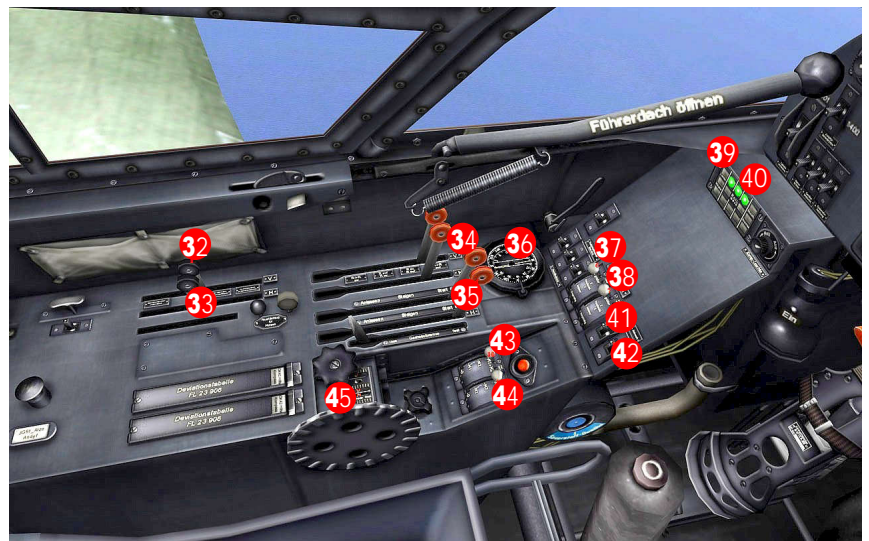


copyright Brian M. Silcox

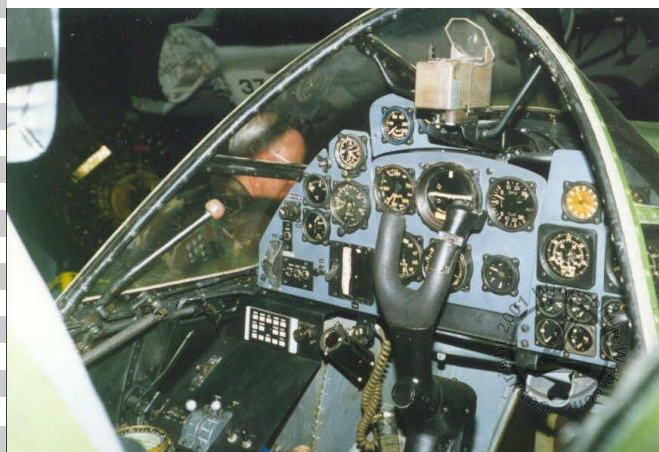




1. Clock
2. Outside temperature gage
3. Radio altimeter
4. Airspeed indicator
5. Stall warning light
6. Artificial horizon / turn and bank indicator
7. Variometer
8. Front propeller pitch indicator
9. Rear propeller pitch indicator
10. Front engine manifold pressure gage & tachometer
11. Rear engine manifold pressure gage & tachometer
12. Low fuel warning light
13. Left nose cannon warning light
14. Propeller cannon warning light
15. Right nose cannon warning light
16. Ammunition counter - left nose cannon
17. Ammunition counter - propeller cannon
18. Ammunition counter - right nose cannon
19. Altimeter
20. Repeater compass
21. Homing indicator
22. Front engine coolant temperature gage
23. Front engine oil temperature gage
24. Rear engine coolant temperature gage
25. Rear engine oil temperature gage
26. Front engine fuel pressure gage
27. Front engine oil pressure gage
28. Rear engine fuel pressure gage
29. Rear engine oil pressure gage
30. Fuel gage
31. Engines fire warning lights
32. Front engine radiator lever
33. Rear engine radiator lever
34. Front engine throttle
35. Rear engine throttle
36. Magnetic compass
37. Front propeller pitch lever
38. Rear propeller pitch lever
39. Flaps position indicator
40. Landing gear position indicator
41. Flaps switch
42. Landing gear switch
43. Front engine ignition switch

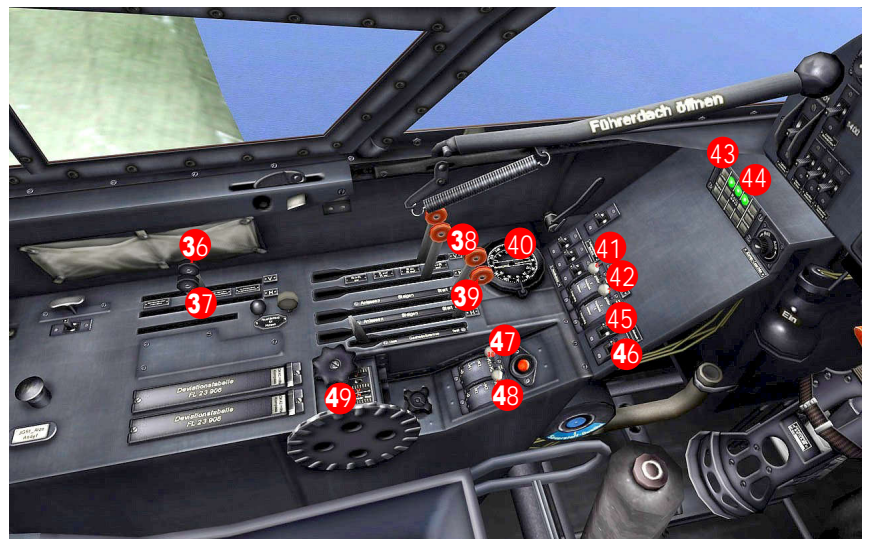


44. Rear engine ignition switch
45. Elevator trim wheel





1. Clock
2. Outside temperature gage
3. Radio altimeter
4. Airspeed indicator
5. Stall warning light
6. Artificial horizon / turn and bank indicator
7. Variometer
8. Front propeller pitch indicator
9. Rear propeller pitch indicator
10. Front engine manifold pressure gage & tachometer
11. Rear engine manifold pressure gage & tachometer
12. Low fuel warning light
13. Left wing cannon warning light
14. Left nose cannon warning light
15. Propeller cannon warning light
16. Right nose cannon warning light
17. Right wing cannon warning light
18. Ammunition counter - left wing cannon
19. Ammunition counter - left nose cannon
20. Ammunition counter - propeller cannon
21. Ammunition counter - right nose cannon
22. Ammunition counter - right wing cannon
23. Altimeter
24. Repeater compass
25. Homing indicator
26. Front engine coolant temperature gage
27. Front engine oil temperature gage
28. Rear engine coolant temperature gage
29. Rear engine oil temperature gage
30. Front engine fuel pressure gage
31. Front engine oil pressure gage
32. Rear engine fuel pressure gage
33. Rear engine oil pressure gage
34. Fuel gage
35. Engine fire warning lights
36. Front engine radiator lever
37. Rear engine radiator lever
38. Front engine throttle
39. Rear engine throttle
40. Magnetic compass
41. Front propeller pitch lever
42. Rear propeller pitch lever
43. Flaps position indicator



44. Landing gear position indicator
45. Flaps switch
46. Landing gear switch
47. Front engine ignition switch
48. Rear engine ignition switch
49. Elevator trim wheel

Do 335 (<http://www.cockpitinstruments.de/>)



Focke-Wulf Fw 190 A-4 «Würger»



1. Left MG warning light
2. Right MG warning light
3. Ammunition counter - inboard left wing cannon
4. Ammunition counter - left MG
5. Ammunition counter - right MG
6. Ammunition counter - inboard right wing cannon
7. Homing indicator
8. Airspeed indicator
9. Artificial horizon / turn and bank indicator
10. Variometer
11. Repeater compass
12. Manifold pressure gage
13. Altimeter
14. Fuel and oil pressure gage
15. Oil temperature gage
16. Fuel gage
17. Propeller pitch indicator
18. Low fuel warning light (15 min at 2500 RPM)
19. Rear tank switchover light (switched off when total fuel < 50%)
20. Tachometer
21. Throttle
22. Engine ignition switch
23. Landing gear position indicator: green - down
no light - transition
red - up
24. Flaps pos. indicator: red - up
red (middle) - combat and take-off position
green - landing position
25. Elevator trim indicator
26. Landing gear and flaps actuators
27. Clock



(<http://www.warbirdsalive.com/wblist/german/fw190/fw190y9.htm>)

Fw 190A3

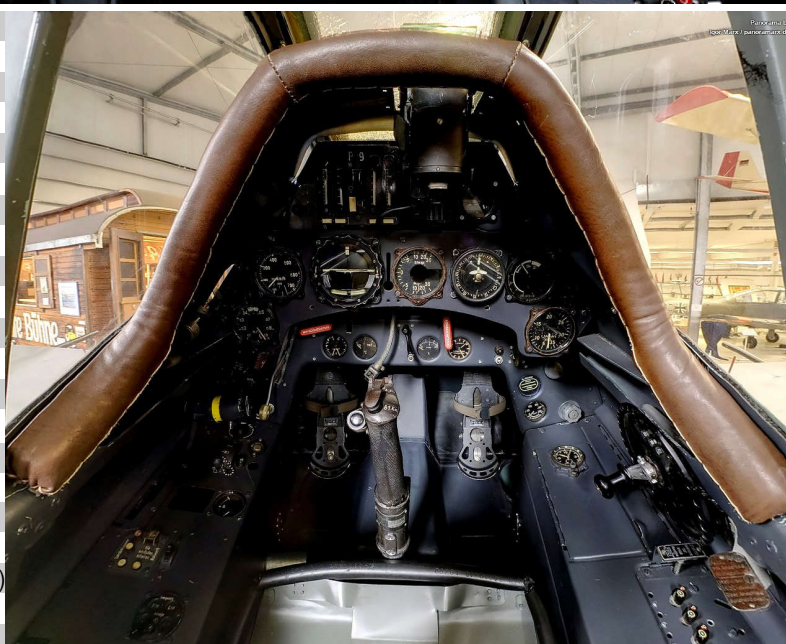


(http://www.warbirdsalive.com/wblist/german/fw190/fw190y9/cocpit_2.jpg)





1. Left MG warning light
2. Right MG warning light
3. Ammunition counter - inboard left wing cannon
4. Ammunition counter - left MG
5. Ammunition counter - right MG
6. Ammunition counter - inboard right wing cannon
7. Homing indicator
8. Airspeed indicator
9. Artificial horizon / turn and bank indicator
10. Variometer
11. Repeater compass
12. Manifold pressure gage
13. Altimeter
14. Fuel and oil pressure gage
15. Oil temperature gage
16. Fuel gage
17. Propeller pitch indicator
18. Low fuel warning light (15 min at 2500 RPM)
19. Rear tank switchover light (switched off when total fuel < 50%)
20. Tachometer
21. Throttle
22. Engine ignition switch
23. Landing gear position indicator: green - down
no light - transition
red - up
24. Flaps pos. indicator: red - up
red (middle) - combat and take-off position
green - landing position
25. Elevator trim indicator
26. Landing gear and flaps actuators
27. External ordnance status lights: two inner - belly bombs/tanks
two outer - wing bombs/tanks
28. Clock

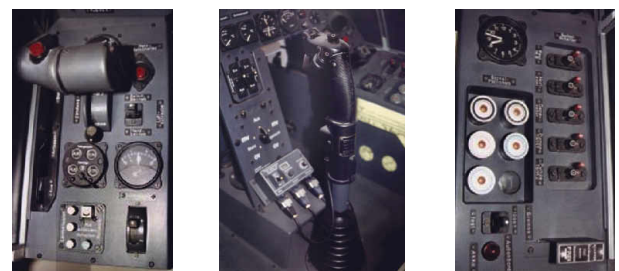


Fw 190A (<http://www.360cities.net/image/luftfahrtmuseum-39>)





- 1. Ammunition counter - inboard left wing cannon
- 2. Ammunition counter - left MG
- 3. Ammunition counter - right MG
- 4. Ammunition counter - inboard right wing cannon
- 5. Homing indicator
- 6. Airspeed indicator
- 7. Artificial horizon / turn and bank indicator
- 8. Variometer
- 9. Repeater compass
- 10. Manifold pressure gage
- 11. Altimeter
- 12. Fuel and oil pressure gage
- 13. Oil temperature gage
- 14. Fuel gage
- 15. Propeller pitch indicator
- 16. Low fuel warning light (15 min at 2500 RPM)
- 17. Rear tank switchover light (switched off when total fuel < 50%)
- 18. Tachometer
- 19. Throttle
- 20. Engine ignition switch
- 21. Landing gear position indicator: green - down
no light - transition
red - up
- 22. Elevator trim indicator
- 23. External ordnance status lights
- 24. Clock
- 25. Landing gear and flaps actuators

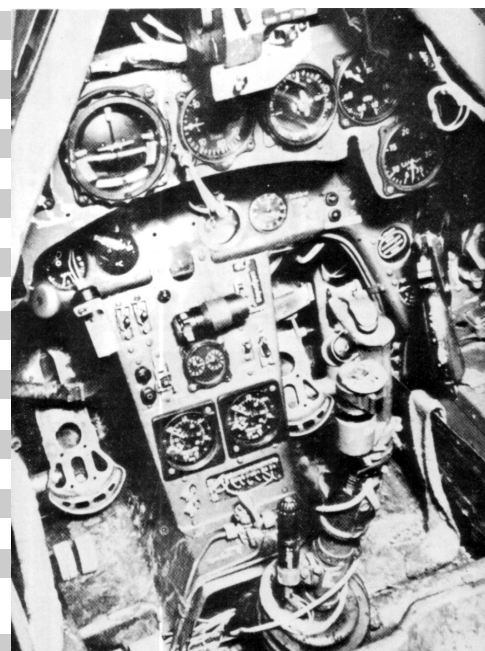


Fw 190A8 (<http://www.clubhyper.com/reference/fw190cockpit/CockPitMap.html>)





1. Ammunition counter - inboard left wing cannon
2. Ammunition counter - left **MG**
3. Ammunition counter - **right MG**
4. Ammunition counter - **inboard** right wing **cannon**
5. **Homing indicator**
6. **Airspeed indicator**
7. **Artificial horizon / turn and bank indicator**
8. **Variometer**
9. **Repeater compass**
10. **Manifold pressure gage**
11. **Altimeter**
12. **Fuel and oil pressure gage**
13. **Oil temperature gage**
14. **Fuel gage**
15. **Propeller pitch indicator**
16. **Low fuel warning light** (15 min at 2500 RPM)
17. **Rear tank switchover light** (switched off when total fuel < 50%)
18. **Tachometer**
19. Engine ignition switch
20. Landing gear position indicator: green - down / red - up
in composite mode for Ju 88 Mistel, once separated for Fw 190 A8
21. Ju 88 Mistel status light (switched off when released)
22. Ju 88 Mistel pitch control (synchronized with the control stick)
23. Propeller pitch indicator for left and right engine - Ju 88 Mistel
24. Left engine manifold pressure gage (big needle) and tachometer (small needle) - Ju 88 Mistel
25. Right engine manifold pressure gage (big needle) and tachometer (small needle) - Ju 88 Mistel
26. Throttle
27. Throttle - Ju 88 Mistel left engine
28. Throttle - Ju 88 Mistel right engine
29. Clock
30. Landing gear and flaps actuators
31. Elevator trim indicator





1. Ammunition counter - left wing cannon
2. Ammunition counter - left MG
3. Ammunition counter - right MG
4. Ammunition counter - right wing cannon
5. Homing indicator
6. Airspeed indicator
7. Artificial horizon / turn and bank indicator
8. Variometer
9. Repeater compass
10. Manifold pressure gage
11. Altimeter
12. Fuel and oil pressure gage
13. Coolant temperature gage
14. Oil temperature gage
15. Fuel gage
16. Low fuel warning light (15 min at 2500 RPM)
17. Rear tank switchover light (switched off when total fuel < 50%)
18. Tachometer
19. Throttle
20. Engine ignition switch
21. Elevator trim indicator
22. Landing gear and flaps actuators
23. Landing gear position indicator: green - down
no light - transition
red - up
24. Clock

Fw 190 D-9 (www.aeronautics.ru/archive/wiiliboais/cockpit/small/Focke-Wulf%20Fw%20190D-9.jpg)



Focke-Wulf Fw 190 D-9 «Dora» (1945)



1. Ammunition counter - left wing cannon
2. Ammunition counter - left MG
3. Ammunition counter - right MG
4. Ammunition counter - right wing cannon
5. Homing indicator
6. Airspeed indicator
7. Artificial horizon / turn and bank indicator
8. Variometer
9. Repeater compass
10. Manifold pressure gage
11. Altimeter
12. Fuel and oil pressure gage
13. Coolant temperature gage
14. Oil temperature gage
15. MW-50 pressure gage
16. Fuel gage
17. Low fuel warning light (15 min at 2500 RPM)
18. Rear tank switchover light (switched off when total fuel < 50%)
19. Tachometer
20. Throttle
21. Engine ignition switch
22. Elevator trim indicator
23. Landing gear and flaps actuators
24. Landing gear position indicator: green - down
no light - transition
red - up
25. Clock



Fw 190 D-9 (<http://untoldvalor.blogspot.com/2007/08/wwii-aircraft-view-from-cockpit.html>)



Fw 190 D-9 (<http://www.largescaleplanes.com/index.php>)





1. Ammunition counter - left wing cannon
2. Ammunition counter - left MG
3. Ammunition counter - right MG
4. Ammunition counter - right wing cannon
5. Homing indicator
6. Airspeed indicator
7. Artificial horizon / turn and bank indicator
8. Variometer
9. Repeater compass
10. Manifold pressure gage
11. Altimeter
12. Fuel and oil pressure gage
13. Oil temperature gage
14. Fuel gage
15. Propeller pitch indicator
16. Low fuel warning light (15 min at 2500 RPM)
17. Rear tank switchover light (switched off when total fuel < 50%)
18. Tachometer
19. Throttle
20. Engine ignition switch
21. Landing gear position indicator: green - down
no light - transition
red - up
22. Elevator trim indicator
23. Landing gear and flaps actuators
24. External ordnance status lights: upper row - wing bombs
lower row - fuselage bombs
25. Clock

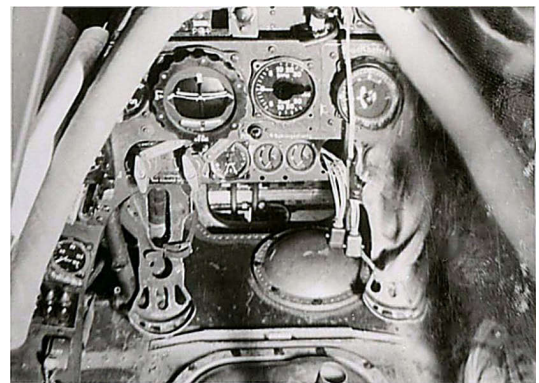
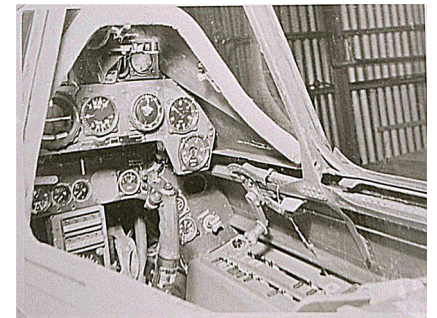


Fw 190F (©Don Randle, www.preservedaxisaircraft.com/)





- 1. Ammunition counter - left wing cannon
- 2. Ammunition counter - left nose cannon
- 3. Ammunition counter - right nose cannon
- 4. Ammunition counter - right wing cannon
- 5. Homing indicator
- 6. Airspeed indicator
- 7. Artificial horizon / turn and bank indicator
- 8. Variometer
- 9. Repeater compass
- 10. Manifold pressure gage
- 11. Altimeter
- 12. Fuel and oil pressure gage
- 13. Coolant temperature gage
- 14. Oil temperature gage
- 15. Fuel gage
- 16. Low fuel warning light (15 min at 2500 RPM)
- 17. Rear tank switchover light (switched off when total fuel < 50%)
- 18. Tachometer
- 19. Landing gear lever
- 20. Throttle
- 21. Hydraulic pressure gage
- 22. Landing gear position indicator: green - down
no light - transition
red - up
- 23. Engine ignition switch
- 24. Flaps actuators
- 25. Elevator trim indicator



Ta 152 (<http://www.cockpitinstrumente.de>)



Focke-Wulf Ta 152 H-1



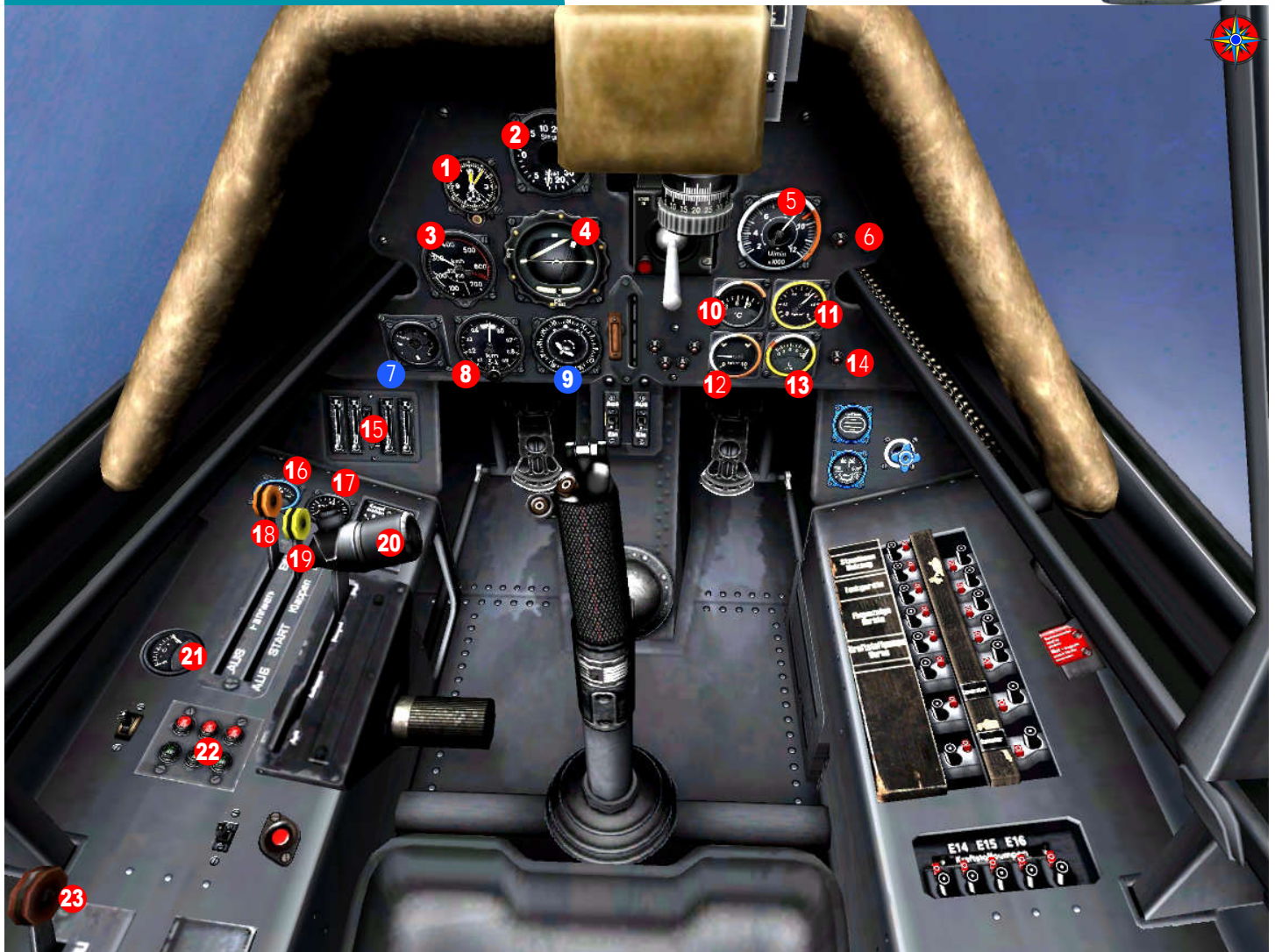
- 1. Ammunition counter - left wing cannon
- 2. Ammunition counter - right wing cannon
- 3. Homing indicator
- 4. Airspeed indicator
- 5. Artificial horizon / turn and bank indicator
- 6. Variometer
- 7. Repeater compass
- 8. Manifold pressure gage
- 9. Altimeter
- 10. Fuel and oil pressure gage
- 11. Coolant temperature gage
- 12. Oil temperature gage
- 13. MW-50 pressure gage
- 14. Fuel gage
- 15. Low fuel warning light (15 min at 2500 RPM)
- 16. Rear tank switchover light (switched off when total fuel < 50%)
- 17. Tachometer
- 18. Landing gear lever
- 19. Hydraulic pressure gage
- 20. Throttle
- 21. Landing gear position indicator: green - down
no light - transition
red - up
- 22. Engine ignition switch
- 23. Flaps actuator
- 24. Elevator trim indicator



Ta 152 (<http://www.cockpitinstrumente.de>)



Focke-Wulf Ta 183 «Huckebein»



1. Clock
2. Variometer
3. Airspeed indicator
4. Artificial horizon / turn and bank indicator
5. **Tachometer**
6. Stall warning light
7. **Homing indicator**
8. Altimeter
9. **Repeater compass**
10. Exhaust gas temperature gage
11. Exhaust pressure gage
12. Oil pressure gage
13. Fuel gage
14. Low fuel warning light
15. Left and right cannons ammunition counters
16. Free air temperature gage
17. **Compressed air** pressure gage
18. Landing gear lever
19. Flaps lever
20. Throttle
21. Elevator trim indicator
22. Landing gear position indicator: green - down
no light - transition
red - up
23. Exhaust nozzle control lever (front position at power > 100%)





1. Landing gear position indicator: green - down
no light - transition
red - up

2. Variometer

3. Artificial horizon / turn and bank indicator

4. Airspeed indicator

White needle - IAS up to 400 km/h, yellow needle - TAS with dual 400 km/h mark

5. Flaps position indicator:

upper red (Ein) - up and combat
middle red (Start) - take-off
lower green (Aus) - landing
no light - transition

6. Altimeter

7. Repeater compass

8. Left tank fuel gage

9. Left tank low fuel warning light

10. Right tank fuel gage

11. Right tank low fuel warning light

12. Left engine fuel injection pressure gage

13. Left engine gas temperature gage

14. Left engine tachometer

15. Right engine tachometer

16. Right engine gas temperature gage

17. Right engine fuel injection pressure gage

18. Outside temperature gage

19. Exhaust pressure gage (left engine only)

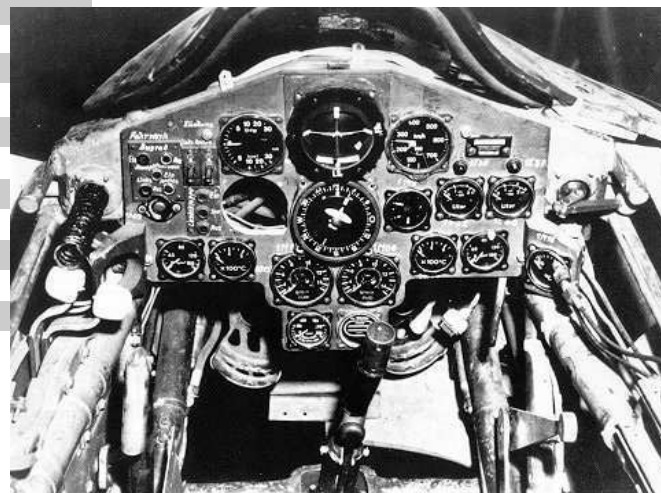
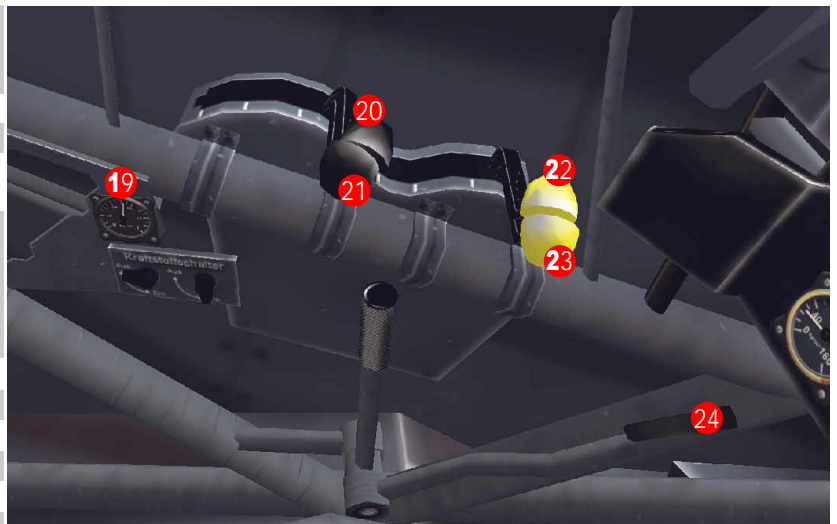
20. Landing gear lever

21. Flaps lever

22. Left engine throttle

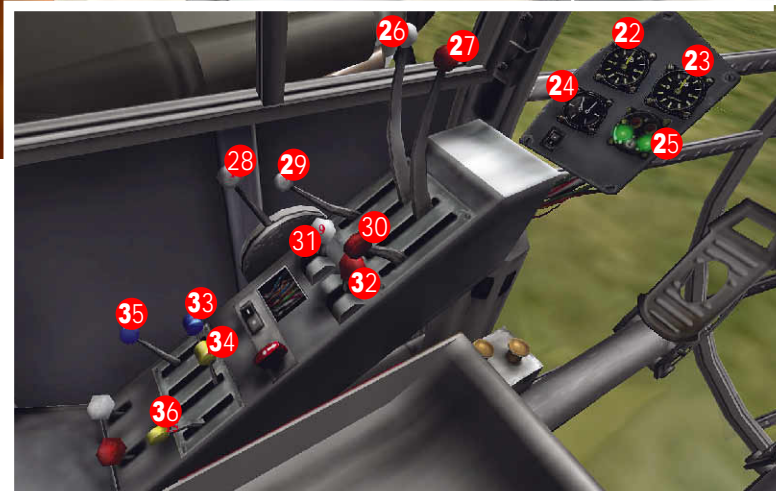
23. Right engine throttle

24. Air brake lever

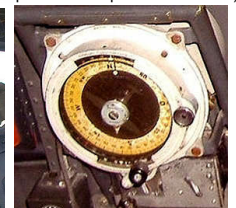




1. Artificial horizon
2. Course pointer
3. Homing indicator
4. Airspeed indicator
5. Repeater compass
6. Turn and bank indicator
7. Variometer
8. Altimeter
9. Autopilot course indicator (gyro heading only)
10. Left engine tachometer
11. Right engine tachometer
12. Left engine oil temperature gage
13. Right engine oil temperature gage
14. Left engine fuel and oil pressure gage
15. Left engine manifold pressure gage
16. Right engine manifold pressure gage
17. Left engine coolant temperature gage
18. Right engine coolant temperature gage
19. Right engine fuel and oil pressure gage
20. Clock
21. Radio bearing indicator (with white needle as homing indicator)
22. Left propeller pitch indicator
23. Right propeller pitch indicator
24. Flaps position indicator
25. Landing gear position indicator: green - down red - up
26. Left engine throttle
27. Right engine throttle
28. Flaps lever
29. Left engine supercharger lever
30. Right engine supercharger lever
31. Left side propeller pitch lever
32. Right side propeller pitch lever
33. Left engine mixture lever
34. Right engine mixture lever
35. Left engine oil radiator lever
36. Right engine oil radiator lever
37. Low fuel warning light for left wing tank
38. Left wing tank fuel gage
39. Right wing tank fuel gage
40. Low fuel warning light for right wing tank
41. Left engine fuel and oil pressure gage
42. Free air temperature gage
43. Right engine fuel and oil pressure gage



He 111 (<http://www.cockpitinstruments.de>)





1. Turn and bank indicator
2. Airspeed indicator (white needle - IAS, yellow needle - TAS)
Max IAS speed marks: 400 km/h-11000 m, 500 km/h-9000 m, 600 km/h-7000 m, 700 km/h-5000 m)
3. Variometer
4. Exhaust gas temperature gage
5. Tachometer
6. Homing indicator
7. Altimeter
8. Magnetic compass
9. Oil pressure gage
10. Fuel injection pressure gage
11. Clock
12. Fuel gage
13. Ammunition counter - left cannon
14. Ammunition counter - right cannon
15. Nosewheel well window
16. Elevator trim lever
17. Landing gear lever (indicator is located in front of the windshield)
18. Throttle



He 162 © Tromplamort – MAE Dugny 2009

He 162 © Tromplamort



He 162 (<http://memorial.flight.free.fr>)



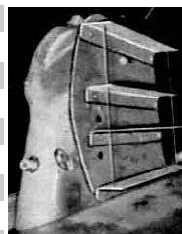


1. Artificial horizon / turn and bank indicator
2. Airspeed indicator
3. Altimeter
4. X-4 missile guidance lever
5. Front engine coolant temperature gage
6. Front engine oil pressure gage
7. Rear engine coolant temperature gage
8. Rear engine oil pressure gage
9. Front engine manifold pressure gage & tachometer
10. Rear engine manifold pressure gage & tachometer
11. Electric generator indicator light
12. Stabilization autopilot: engines power effectiveness indicator light
13. Fuel gage
14. Front engine throttle
15. Rear engine throttle
16. Low fuel warning light
17. Stabilization autopilot: "Switched on" indicator light (control surfaces deployed)
18. Stabilization autopilot: "Engaged" indicator light (control surfaces active)
19. Landing sensing probe indicator lights: green - wheels on ground
no light - in flight
20. Ultra-sound landing altimeter (0-300 m)
21. Variometer



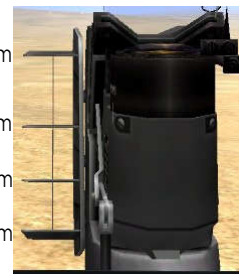


- 1. Elevator trim switch
- 2. Rudder trim switch
- 3. External weapon status light (switched on when weapon charged)
- 4. Ammunition counter - left cannon
- 5. Ammunition counter - left MG
- 6. Ammunition counter - right MG
- 7. Ammunition counter - right cannon
- 8. Altimeter
- 9. Repeater compass
- 10. External ordnance status lights: upper row - wing bombs
middle row - front fuselage bombs
lower row - rear fuselage bombs



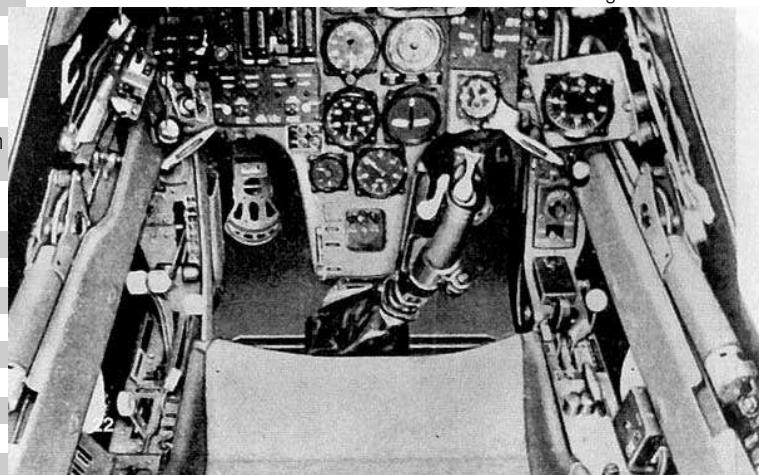
Level bombing sight

10 m
50 m
100 m
200 m
Alt AGL



On engine nacelles

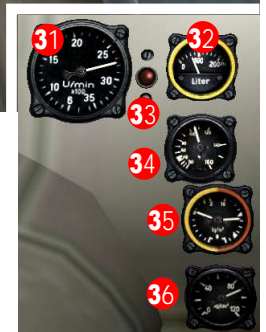
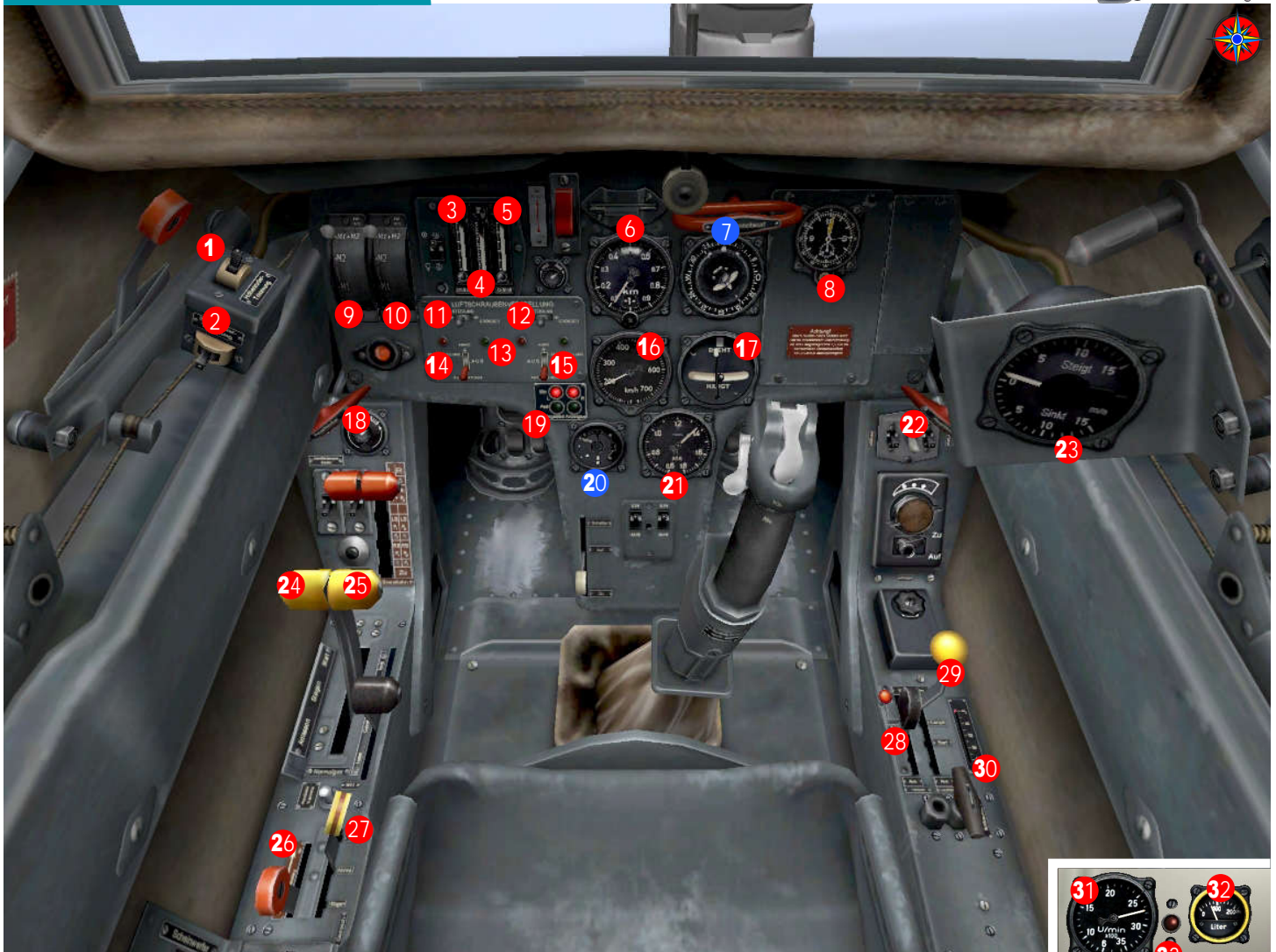
- 11. Left engine ignition switch
- 12. Right engine ignition switch
- 13. Left side propeller pitch switch: left - pitch down
(manual mode / override in automatic mode) right - pitch up
- 14. Right side propeller pitch switch (as before)
- 15. Left & right side propeller pitch indicator lights: green - pitch down
red - pitch up
- 16. Left side propeller pitch mode switch: up - manual mode
down - automatic mode
- 17. Right side propeller pitch mode switch (as before)
- 18. Airspeed indicator
- 19. Turn and bank indicator
- 20. Clock
- 21. Left engine fire extinguisher lever
- 22. Landing gear indicator
- 23. Homing indicator
- 24. Left & right engine manifold pressure gage (dual needle)
- 25. Right engine fire extinguisher lever
- 26. Variometer
- 27. Left engine throttle
- 28. Right engine throttle
- 29. Left & right engine boost lever (front position at power > 100%)
- 30. Left & right engine mixture lever
- 31. Landing gear lever
- 32. Flaps lever



- 33. Flaps position indicator
- 34. Engine tachometer
- 35. Fuel gage
- 36. Low fuel warning light
- 37. Oil temperature gage
- 38. Fuel and oil pressure gage
- 39. Hydraulic oil pressure gage (on left side only)

Henschel Hs 129 B-2





On engine nacelles



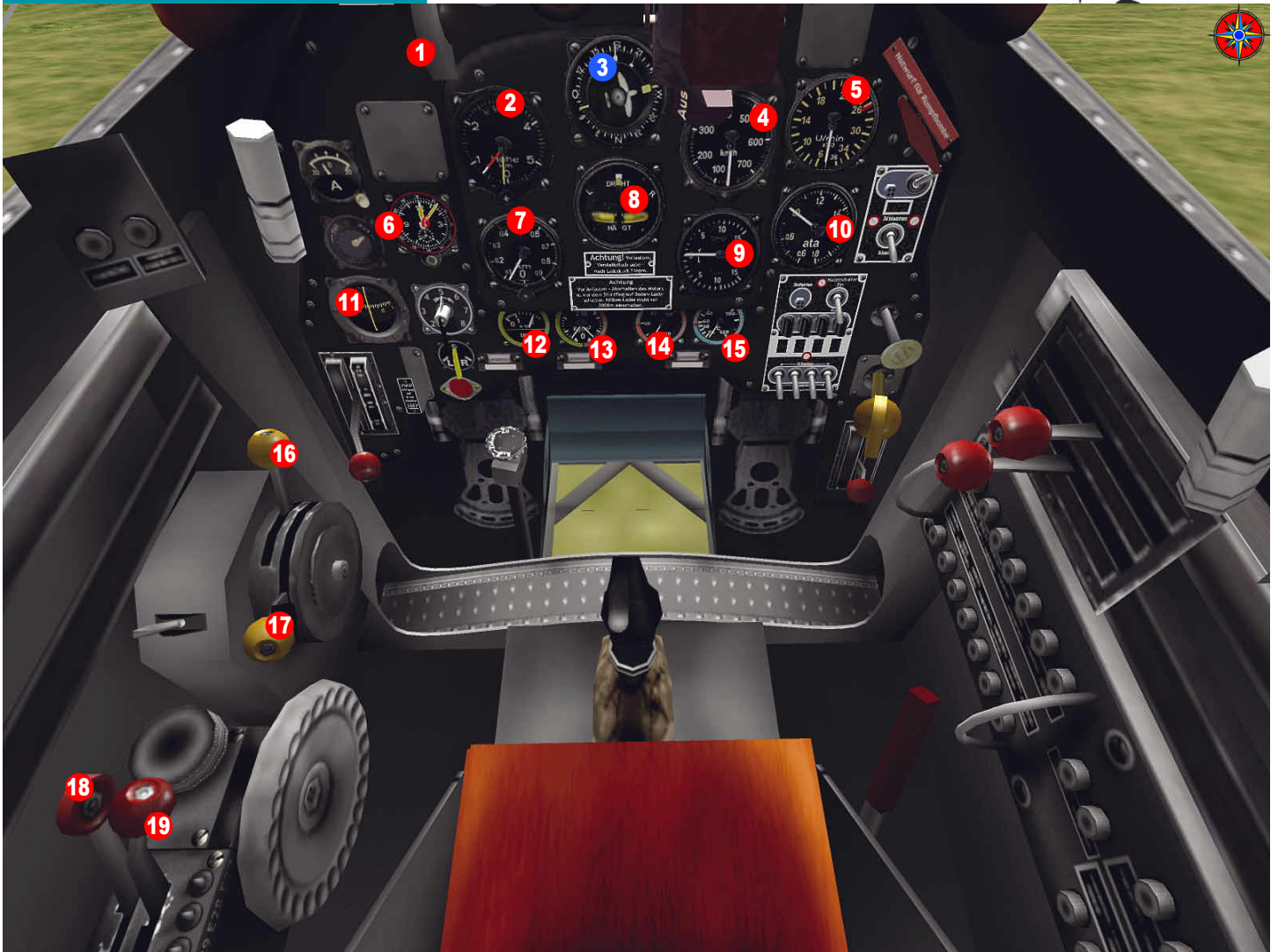
Henschel Hs 129 B-3/Wa

1. Elevator trim switch
2. Rudder trim switch
3. Ammunition counter - left MG
4. Ammunition counter - 7,5 cm BK cannon
5. Ammunition counter - right MG
6. Altimeter
7. Repeater compass
8. Clock
9. Left engine ignition switch
10. Right engine ignition switch
11. Left side propeller pitch switch: left - pitch down (manual mode / override in automatic mode) right - pitch up
12. Right side propeller pitch switch (as before)
13. Left & right side propeller pitch indicator lights: green - pitch down red - pitch up
14. Left side propeller pitch mode switch: up - manual mode down - automatic mode
15. Right side propeller pitch mode switch (as before)
16. Airspeed indicator
17. Turn and bank indicator
18. Left engine fire extinguisher lever
19. Landing gear indicator
20. Homing indicator
21. Left & right engine manifold pressure gage (dual needle)
22. Right engine fire extinguisher lever
23. Variometer
24. Left engine throttle
25. Right engine throttle
26. Left & right engine boost lever (front position at power > 100%)
27. Left & right engine mixture lever
28. Landing gear lever
29. Flaps lever
30. Flaps position indicator
31. Engine tachometer
32. Fuel gage
33. Low fuel warning light

34. Oil temperature gage
35. Fuel and oil pressure gage
36. Hydraulic oil pressure gage (on left side only)



Junkers Ju 87 B-2 Stuka



1. Supercharger lever: rear position - stage 1
front position - stage 2
2. Contact altimeter
(with adjustable altitude needle for automatic bomb drop & pull-up)
3. Repeater compass
4. Airspeed indicator
5. Tachometer
6. Clock
7. Altimeter
8. Turn and bank indicator
9. Variometer
10. Manifold pressure gage
11. Magnetic compass
12. Fuel gage
13. Fuel and oil pressure gage
14. Oil temperature gage
15. Coolant temperature gage
16. Propeller pitch lever
17. Throttle
18. Dive brakes lever: rear position - deployed
front position - stowed
19. Flaps lever



Ju 87B1 (<http://www.cockpitinstrumente.de>)





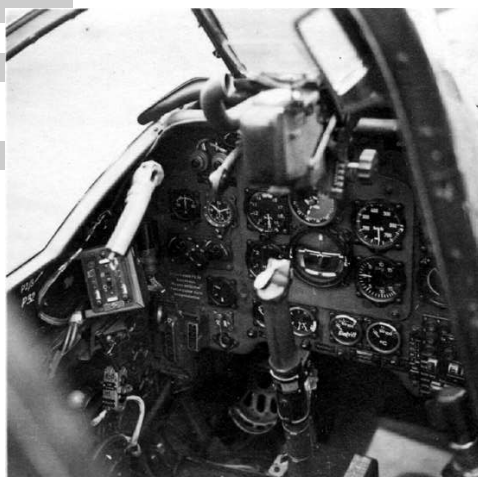
1. Clock
2. Supercharger lever: rear position - stage 1
front position - stage 2
3. Altimeter
4. Repeater compass
5. Airspeed indicator
6. Tachometer
7. Left and right ammunition counters (MG in D-3, cannons in D-5 & G-1)
8. Magnetic compass
9. Contact altimeter
(with adjustable altitude needle for bomb drop (automatic in D-3 only) & pull-up)
10. Turn and bank indicator
11. Variometer
12. Manifold pressure gage
13. Homing indicator
14. Fuel gage
15. Fuel and oil pressure gage
16. Oil temperature gage
17. Coolant temperature gage
18. Propeller pitch lever
19. Throttle
20. Dive brakes lever: rear position - deployed
(except in G-1) front position - stowed
21. Flaps lever



Ju 87G2 (©Peter Cohausz)



(www.aeronautics.ru/archive/wilibooks/cockpit/small/Junkers%20Ju%2087G-2.jpg)



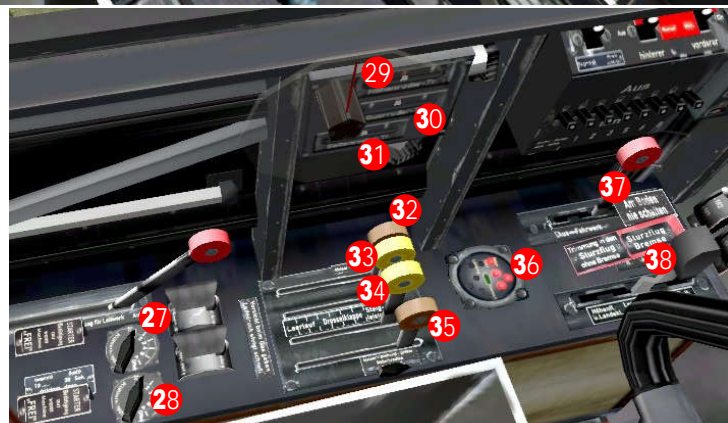
Ju 87D5 (http://www.cockpitinstrumente.de)



Junkers Ju 88 A-4



- 1. Variometer
- 2. Turn and bank indicator
- 3. Artificial horizon
- 4. Airspeed indicator
- 5. Altimeter
- 6. Homing indicator
- 7. Contact altimeter
(with adjustable altitude needle for bomb drop & pull-up)
- 8. Course & gyro indicator (top: selected course - bottom: gyro heading)
- 9. Radio bearing indicator (with white needle as homing indicator)
- 10. Repeater compass
- 11. Left engine manifold pressure gage
- 12. Right engine manifold pressure gage
- 13. Left engine tachometer
- 14. Right engine tachometer
- 15. Left & right engine fuel and oil pressure gage
- 16. Left engine coolant temperature gage
- 17. Right engine coolant temperature gage
- 18. Fuel gage
- 19. Fuel gage
- 20. Free air temperature gage
- 21. Fuel consumption gage
- 22. Left engine ignition switch
- 23. Right engine ignition switch
- 24. Clock

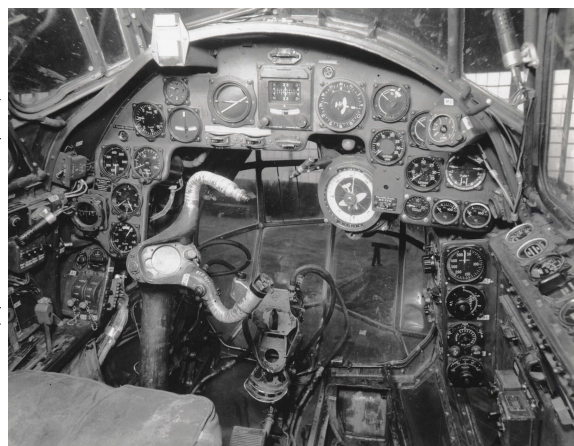


- 25. True airspeed selector switch
- 26. True airspeed indicator
- 27. Left engine oil radiator selector switch
- 28. Right engine oil radiator selector switch
- 29. Elevator trim wheel and indicator
- 30. Aileron trim indicator
- 31. Rudder trim indicator
- 32. Left side propeller pitch lever
- 33. Left engine throttle
- 34. Right engine throttle
- 35. Right side propeller pitch lever
- 36. Landing gear & flaps position indicator

On engine nacelles



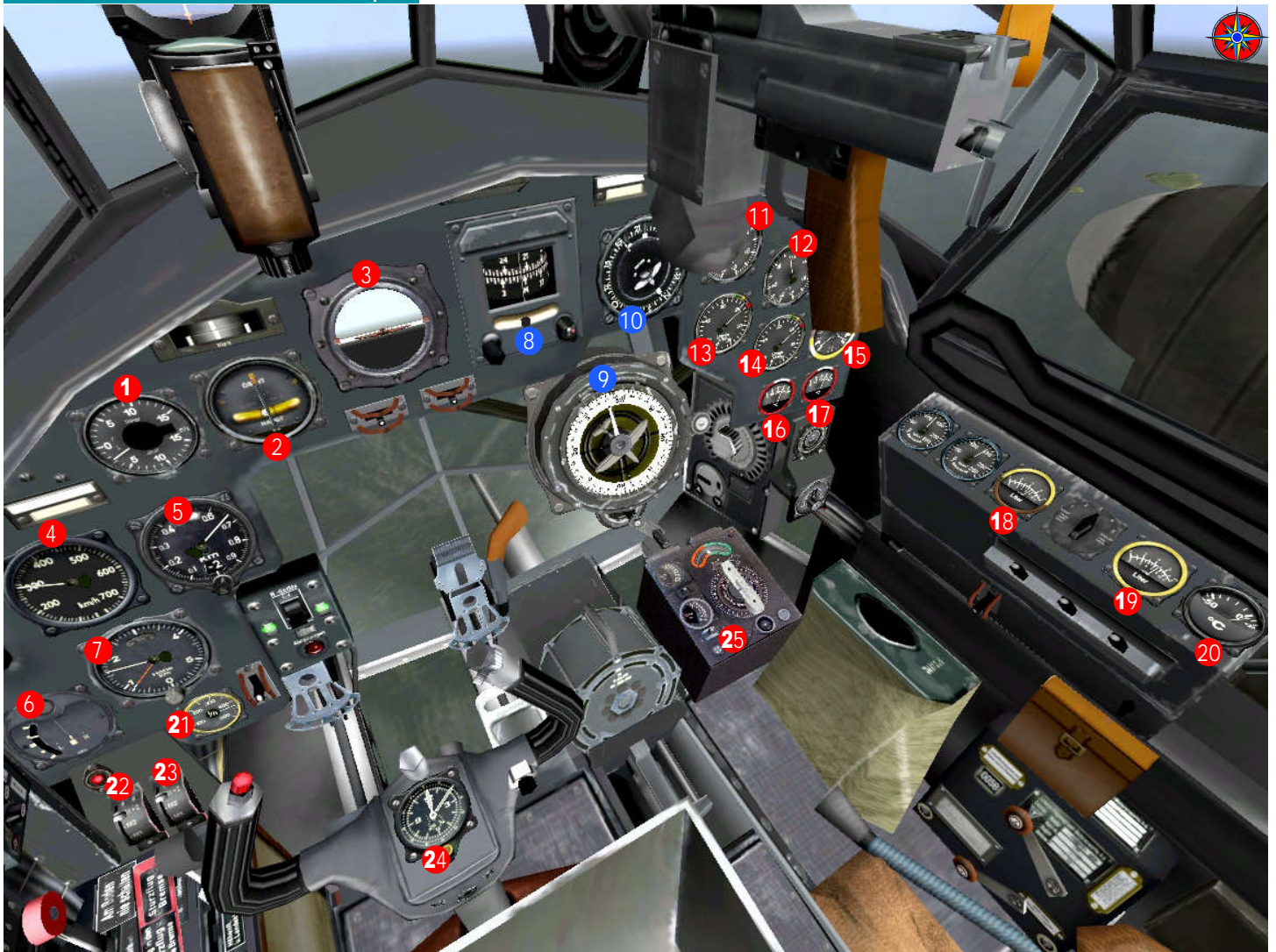
Ju 88 (http://www.nationalmuseum.af.mil/photos)



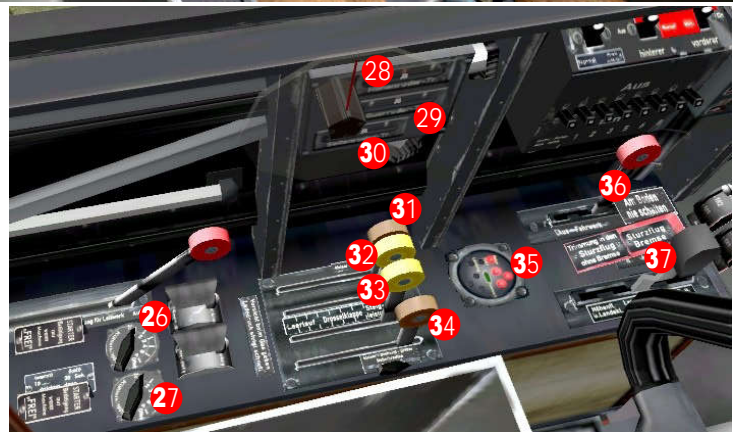
- 37. Landing gear lever
- 38. Flaps lever
- 39. Hydraulic oil pressure gage
- 40. Oil temperature gage



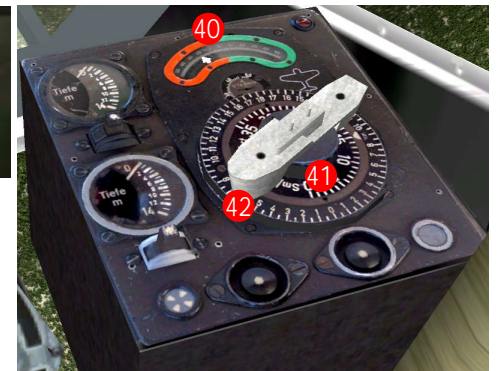
Junkers Ju 88 A-4/Torp



1. Variometer
2. Turn and bank indicator
3. Artificial horizon
4. Airspeed indicator
5. Altimeter
6. Homing indicator
7. Contact altimeter
8. Course & gyro indicator (top: selected course - bottom: gyro heading)
9. Radio bearing indicator (with white needle as homing indicator)
10. Repeater compass
11. Left engine manifold pressure gage
12. Right engine manifold pressure gage
13. Left engine tachometer
14. Right engine tachometer
15. Left & right engine fuel and oil pressure gage
16. Left engine coolant temperature gage
17. Right engine coolant temperature gage
18. Fuel gage
19. Fuel gage
20. Free air temperature gage
21. Fuel consumption gage
22. Left engine ignition switch
23. Right engine ignition switch
24. Clock
25. Torpedo data computer (Torpedo-Kommandogerät (ToKG))
26. Left engine oil radiator selector switch
27. Right engine oil radiator selector switch
28. Elevator trim wheel and indicator
29. Aileron trim indicator
30. Rudder trim indicator
31. Left side propeller pitch lever
32. Left engine throttle
33. Right engine throttle
34. Right side propeller pitch lever
35. Landing gear & flaps position indicator
36. Landing gear lever
37. Flaps lever



On engine nacelles



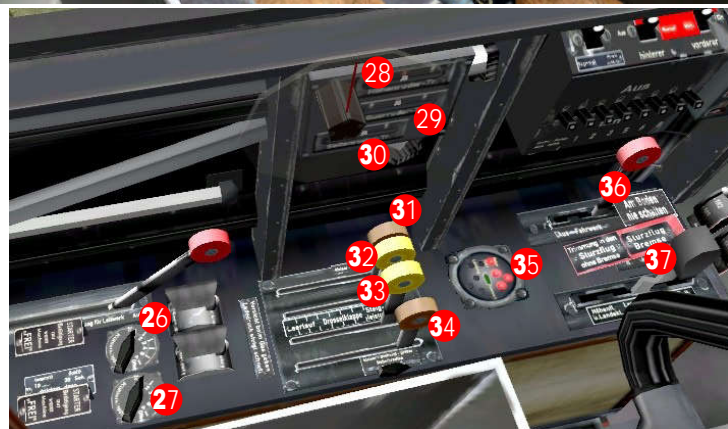
ToKG front panel

38. Hydraulic oil pressure gage
39. Oil temperature gage
40. Firing angle display (torpedo gyro angle)
41. Target ship's speed scale
42. Ship's Angle-on-Bow (AoB) button & scale

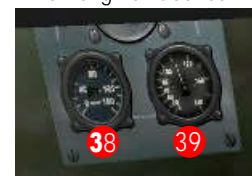




1. Variometer
2. Turn and bank indicator
3. Artificial horizon
4. Airspeed indicator
5. Altimeter
6. Homing indicator
7. Contact altimeter
8. Course & gyro indicator (top: selected course - bottom: gyro heading)
9. Radio bearing indicator (with white needle as homing indicator)
10. Repeater compass
11. Left engine manifold pressure gage
12. Right engine manifold pressure gage
13. Left engine tachometer
14. Right engine tachometer
15. Left & right engine fuel and oil pressure gage
16. Left engine coolant temperature gage
17. Right engine coolant temperature gage
18. Fuel gage
19. Fuel gage
20. Free air temperature gage
21. Fuel consumption gage
22. Left engine ignition switch
23. Right engine ignition switch
24. Clock
25. Torpedo data computer (Torpedo-Kommandogerät (ToKG))
26. Left engine oil radiator selector switch
27. Right engine oil radiator selector switch
28. Elevator trim wheel and indicator
29. Aileron trim indicator
30. Rudder trim indicator
31. Left side propeller pitch lever
32. Left engine throttle
33. Right engine throttle
34. Right side propeller pitch lever
35. Landing gear & flaps position indicator
36. Landing gear lever
37. Flaps lever



On engine nacelles



ToKG 1B front panel (See controls on Ju 88 A-4/Torp)
 38. Hydraulic oil pressure gage
 39. Oil temperature gage





- 1. Clock
- 2. Engine ignition switch
- 3. Altimeter
- 4. Repeater compass
- 5. Manifold pressure gage
- 6. Airspeed indicator
- 7. Turn and bank indicator
- 8. Tachometer
- 9. Propeller pitch indicator
- 10. Low fuel warning light
- 11. Fuel and oil pressure gage
- 12. Landing gear position indicator: green - down
no light - transition
red - up
- 13. Fuel gage
- 14. Oil temperature gage
- 15. Coolant temperature gage
- 16. Landing gear lever
- 17. Throttle



Bf 109E-4 ©Rod Dermo <http://www.airliners.net>





- 1. Ammunition counter - left MG
- 2. Ammunition counter - cannon
- 3. Ammunition counter - right MG
- 4. Clock
- 5. Engine ignition switch
- 6. Altimeter
- 7. Repeater compass
- 8. Manifold pressure gage
- 9. Landing gear position indicator: green - down
no light - transition
red - up
- 10. Landing gear actuators
- 11. Airspeed indicator
- 12. Turn and bank indicator
- 13. Tachometer
- 14. Propeller pitch indicator
- 15. Coolant temperature gage
- 16. Low fuel warning light
- 17. Fuel gage
- 18. Fuel and oil pressure gage
- 19. Throttle



Bf 109F4





- 1. Ammunition counter - left MG
- 2. Ammunition counter - cannon
- 3. Ammunition counter - right MG
- 4. Clock
- 5. Engine ignition switch
- 6. Repeater compass
- 7. Artificial horizon / turn and bank indicator
- 8. Manifold pressure gage
- 9. Landing gear position indicator: green - down
no light - transition
red - up
- 10. Landing gear actuators
- 11. Altimeter
- 12. Airspeed indicator
- 13. Tachometer
- 14. Propeller pitch indicator
- 15. Coolant temperature gage
- 16. Low fuel warning light
- 17. Fuel gage
- 18. Fuel and oil pressure gage
- 19. Throttle



Bf 109G2 (<http://www.360cities.net/image/lufffahrtmuseum-40>)





1. Ammunition counter - left MG
2. Ammunition counter - cannon
3. Ammunition counter - right MG
4. Clock
5. Engine ignition switch
6. Repeater compass
7. Artificial horizon / turn and bank indicator
8. Manifold pressure gage
9. Homing indicator
10. Landing gear position indicator: green - down
no light - transition
red - up
11. Landing gear actuators
12. Altimeter
13. Airspeed indicator
14. Tachometer
15. Propeller pitch indicator
16. Coolant temperature gage
17. Low fuel warning light
18. Fuel gage
19. Fuel and oil pressure gage
20. Throttle



Bf 109G6 ©Mikael Olrog, <http://109list.hobbyvista.com/index1024.htm>





1. Ammunition counter - left MG
2. Ammunition counter - cannon
3. Ammunition counter - right MG
4. Clock
5. Engine ignition switch
6. Repeater compass
7. Artificial horizon / turn and bank indicator
8. Manifold pressure gage
9. Homing indicator
10. Landing gear position indicator: green - down
no light - transition
red - up
11. Landing gear actuators
12. Altimeter
13. Airspeed indicator
14. Tachometer
15. Propeller pitch indicator
16. Coolant temperature gage
17. Low fuel warning light
18. Fuel gage
19. Fuel and oil pressure gage
20. Throttle

Bf 109G10 (http://www.aircraftresourcecenter.com/AVIA/1001-100/mel/037_Me_109_G-10part2/vela037b.htm)



Photo © 2001
Randy Smith





- 1. Ammunition counter - left MG
- 2. Ammunition counter - cannon
- 3. Ammunition counter - right MG
- 4. Clock
- 5. Engine ignition switch
- 6. Repeater compass
- 7. Artificial horizon / turn and bank indicator
- 8. Manifold pressure gage
- 9. Homing indicator
- 10. Landing gear position indicator: green - down
no light - transition
red - up
- 11. Landing gear actuators
- 12. Altimeter
- 13. Airspeed indicator
- 14. Tachometer
- 15. Propeller pitch indicator
- 16. Coolant temperature gage
- 17. Low fuel warning light
- 18. Fuel gage
- 19. Fuel and oil pressure gage
- 20. Throttle
- 21. MW-50 indicator





1. Ammunition counter - left MG
2. Ammunition counter - right MG
3. MW-50 pressure gage
4. Clock
5. Airspeed indicator
6. Artificial horizon / turn and bank indicator
7. Variometer
8. Fuel and oil pressure gage
9. Coolant temperature gage
10. Oil temperature gage
11. Altimeter
12. Repeater compass
13. Homing indicator
14. Tachometer
15. Propeller pitch indicator
18. Landing gear actuators & position indicator: green - down
no light transition
red - up
17. Engine ignition switch
18. Manifold pressure gage
19. Fuel gage
20. Low fuel warning light
21. Throttle
22. MW-50 indicator



Bf 109G14AS / K4

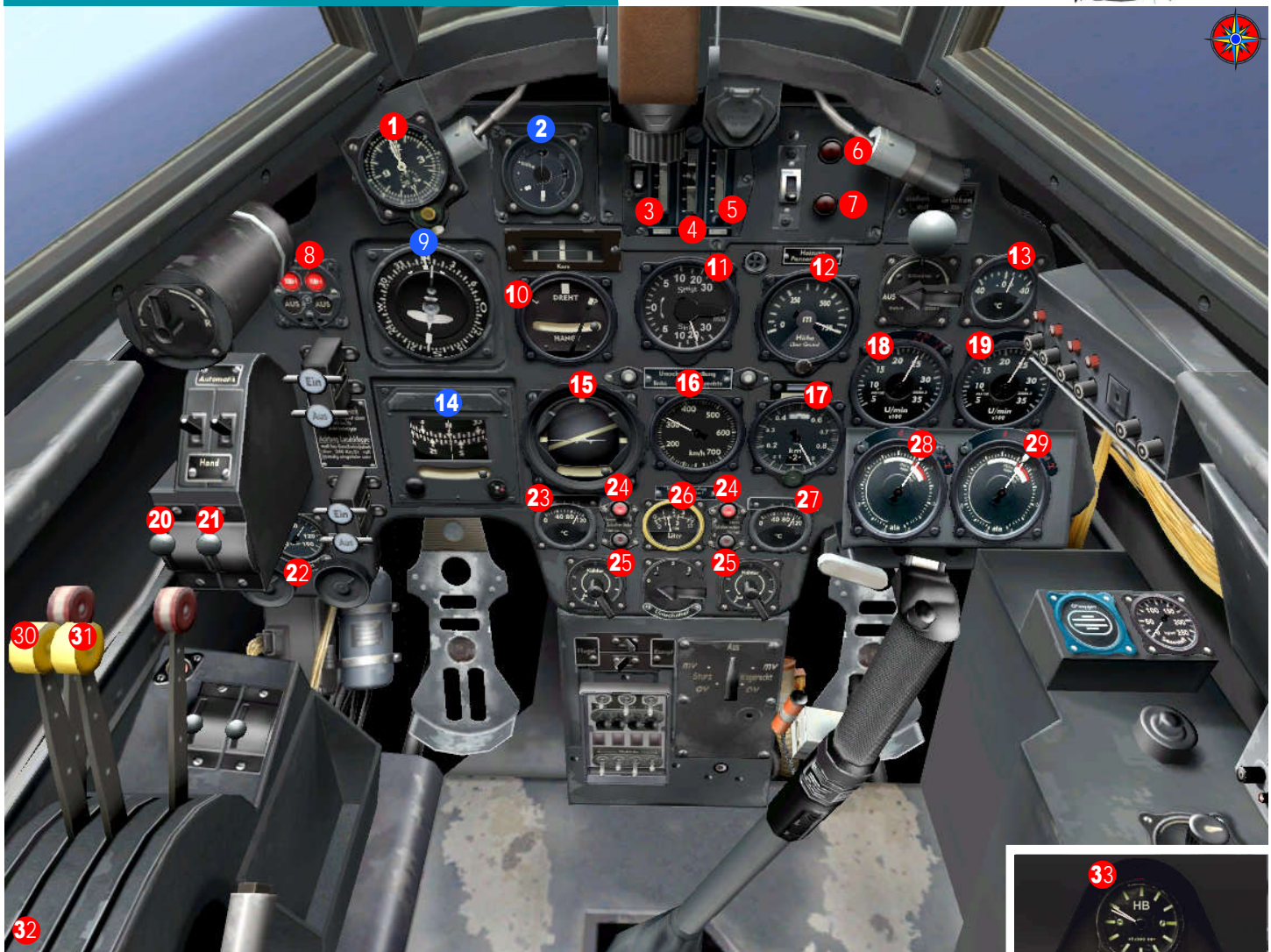




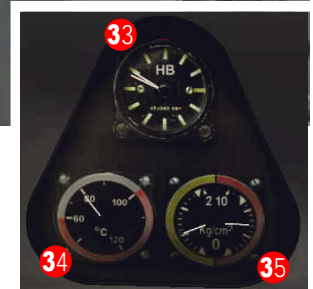
1. Ammunition counter - left cannon
2. Ammunition counter - optional MK103 gunpod
3. Ammunition counter - right cannon
4. Clock
5. Left engine ignition switch
6. Right engine ignition switch
7. Repeater compass
8. Artificial horizon / turn and bank indicator
9. Left engine manifold pressure gage (white needle) and tachometer (yellow needle)
10. Right engine manifold pressure gage (white needle) and tachometer (yellow needle)
11. Landing gear position indicator: green - down
no light - transition
red - up
12. Altimeter
13. Airspeed indicator
14. Left engine coolant temperature gage
15. Right engine coolant temperature gage
16. Left engine fuel and oil pressure gage
17. Right engine fuel and oil pressure gage
18. Low fuel warning light
19. Propeller pitch indicator for left and right engine
20. Fuel gage
21. Landing gear actuators
22. Left engine throttle
23. Right engine throttle



Messerschmitt Bf 110 G-2 Zerstörer



1. Clock
2. Homing indicator
3. Ammunition counter - left cannon
4. Ammunition counter - optional MK108 cannons
5. Ammunition counter - right cannon
6. Right cannon warning light
7. Left cannon warning light
8. Landing gear **position indicator: green - down red - up**
9. Repeater compass
10. Turn and bank indicator
11. Variometer
12. Radio altimeter
13. Outside temperature gage
14. **Course & gyro indicator: top: selected course bottom: gyro heading**
15. Artificial horizon
16. Airspeed indicator
17. Altimeter
18. Left engine tachometer
19. Right engine tachometer
20. Left engine **propeller pitch lever**
21. Right engine **propeller pitch lever**
22. Compressed air pressure gage
23. Left engine **coolant temperature gage**
24. Low fuel warning light for left/right front fuel tank
25. Low fuel warning light for left/right rear fuel tank
26. Fuel gage
27. Right engine **coolant temperature gage**
28. Left engine **manifold pressure gage**
29. Right engine **manifold pressure gage**
30. Left engine **throttle**
31. Right engine **throttle**
32. Left & right **engine oil radiator levers** (not visible)



On engine nacelles

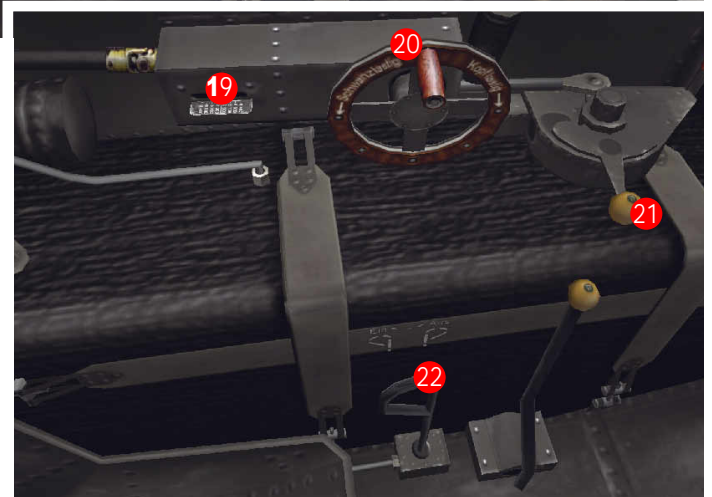


Bf110G4 (<http://www.cockpitinstruments.de>)

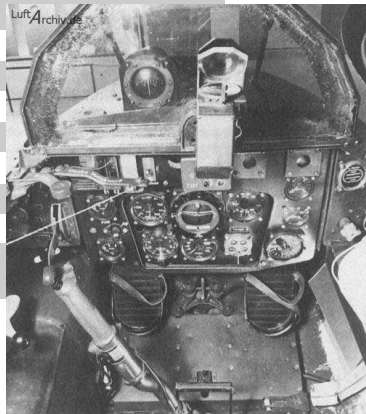
33. Propeller pitch indicator
34. Oil temperature gage
35. Fuel and oil pressure gage



Messerschmitt Me 163 B-1a «Komet»



1. Magnetic **compass**
2. Landing gear **position indicator**: green - down
no light - transition
red - up
3. Airspeed indicator
White needle - IAS up to 400 km/h, yellow needle - TAS with dual 400 km/h mark
4. **Artificial horizon / turn and bank indicator**
5. **Variometer**
6. Ammunition **counter - left cannon**
7. Ammunition **counter - right cannon**
8. **Left cannon warning light**
9. **Right cannon warning light**
10. **Thrust gage (low power)**
11. **Thrust gage (high power)**
12. Landing gear **lever**
13. **Clock**
14. **Altimeter**
15. **Tachometer (in %)**
16. Fuel **consumption gage**
17. **Low fuel warning light**
18. **Exhaust temperature gage**
19. **Elevator trim indicator**
20. **Elevator trim wheel**
21. **Throttle - 4 settings:**
0% - 35% - 65% - 100%
22. **Flaps lever**



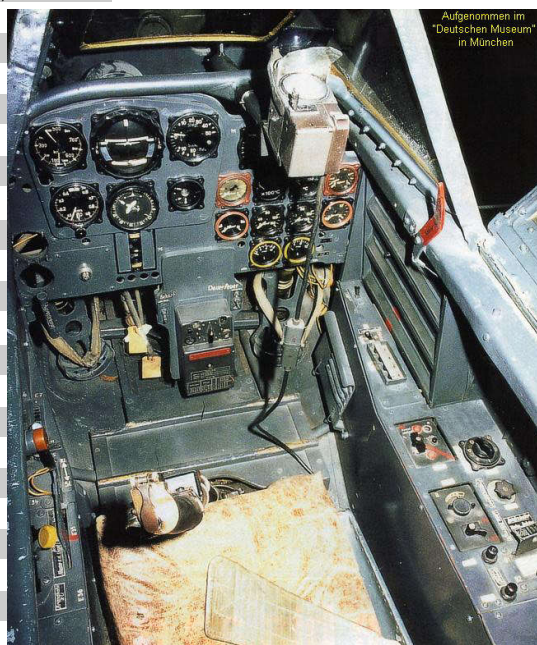
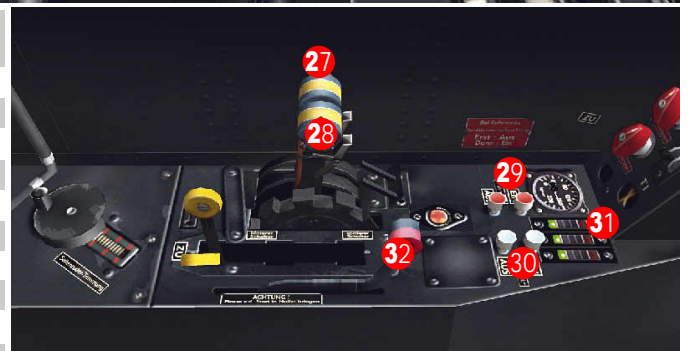
Me 163 (<http://www.luftarchiv.de/>)

Me163 (http://www.aventure.de/dux02pssi/Me163_Cockpit_0440.jpg)





- 1. Airspeed indicator**
White needle - IAS up to 400 km/h, yellow needle - TAS with dual 400 km/h mark
- 2. Artificial horizon**
- 3. Variometer**
- 4. Overspeed warning light**
- 5. Altimeter**
- 6. Repeater compass**
- 7. Homing indicator**
- 8. Clock**
- 9. Cabin pressure warning light**
- 10. Ammunition counter - left upper cannon (BK5 cannon on a1/U4)**
- 11. Ammunition counter - right upper cannon (not active on a1/U4)**
- 12. Cannon warning lights (lighted on a1/U4)**
- 13. Left engine tachometer**
- 14. Right engine tachometer**
- 15. Left engine gas pressure gage**
- 16. Left engine gas temperature gage**
- 17. Right engine gas temperature gage**
- 18. Right engine gas pressure gage**
- 19. Left engine oil pressure gage**
- 20. Left engine fuel injection pressure gage**
- 21. Right engine fuel injection pressure gage**
- 22. Right engine oil pressure gage**
- 23. Low fuel warning light (front)**
- 24. Fuel gage (front)**
- 25. Fuel gage (rear)**
- 26. Low fuel warning light (rear)**
- 27. Left engine throttle**
- 28. Right engine throttle**
- 29. Flaps actuators**
- 30. Landing gear actuators**
- 31. Landing gear position: green - down / red - up**
- 32. Elevator trim lever**



Aufgenommen im "Deutsches Museum" in München

Me262 http://www.browweb.de/UA_2008/Historie_Flugzeug/Messerschmitt_Me_262/M_e262_cockpit.html



Messerschmitt Me 262 A-2a «Sturmvogel»

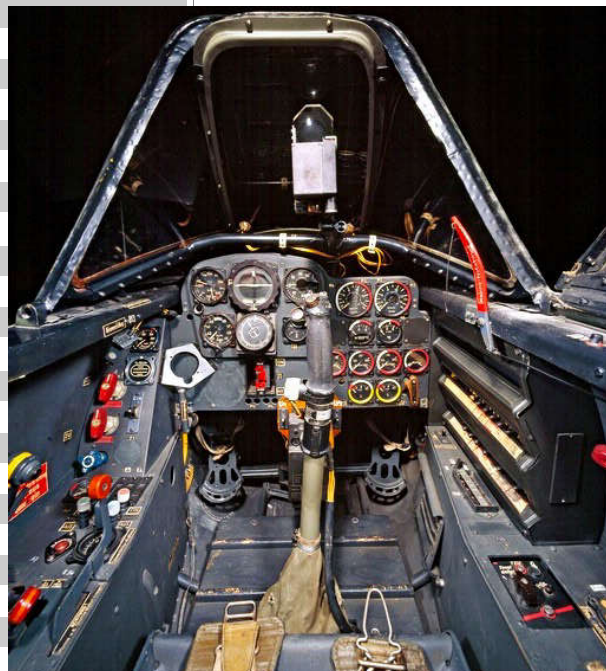
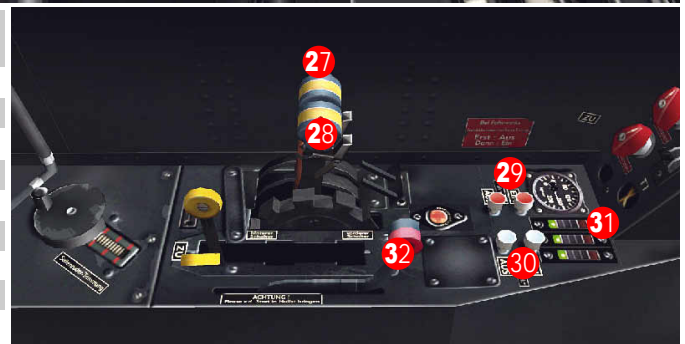


- 1. Airspeed indicator**
White needle - IAS up to 400 km/h, yellow needle - TAS with dual 400 km/h mark
- 2. Artificial horizon**
- 3. Variometer**
- 4. Overspeed warning light**
- 5. Altimeter**
- 6. Repeater compass**
- 7. Homing indicator**
- 8. Clock**
- 9. Cabin pressure warning light**

- 10. Ammunition counter - left upper cannon**
- 11. Ammunition counter - right upper cannon**
- 12. Cannon warning lights (outer lighted)**

- 13. Left engine tachometer**
- 14. Right engine tachometer**
- 15. Left engine gas pressure gage**
- 16. Left engine gas temperature gage**
- 17. Right engine gas temperature gage**
- 18. Right engine gas pressure gage**
- 19. Left engine oil pressure gage**
- 20. Left engine fuel injection pressure gage**
- 21. Right engine fuel injection pressure gage**
- 22. Right engine oil pressure gage**
- 23. Low fuel warning light (front)**
- 24. Fuel gage (front)**
- 25. Fuel gage (rear)**
- 26. Low fuel warning light (rear)**

- 27. Left engine throttle**
- 28. Right engine throttle**
- 29. Flaps actuators**
- 30. Landing gear actuators**
- 31. Landing gear position: green - down / red - up**
- 32. Elevator trim lever**



Me 262 (<http://www.nasm.si.edu/exhibitions/gaz211/aircontrols.cfm>)



Messerschmitt Me 262 HG II



- 1. Airspeed indicator**
White needle - IAS up to 400 km/h, yellow needle - TAS with dual 400 km/h mark
- 2. Artificial horizon**
- 3. Variometer**
- 4. Overspeed warning light**
- 5. Altimeter**
- 6. Repeater compass**
- 7. Homing indicator**
- 8. Clock**
- 9. Cabin pressure warning light**
- 10. Ammunition counter - left upper cannon**
- 11. Ammunition counter - right upper cannon**
- 12. Cannon warning lights**
- 13. Left engine tachometer**
- 14. Right engine tachometer**
- 15. Left engine gas pressure gage**
- 16. Left engine gas temperature gage**
- 17. Right engine gas temperature gage**
- 18. Right engine gas pressure gage**
- 19. Left engine oil pressure gage**
- 20. Left engine fuel injection pressure gage**
- 21. Right engine fuel injection pressure gage**
- 22. Right engine oil pressure gage**
- 23. Low fuel warning light (front)**
- 24. Fuel gage (front)**
- 25. Fuel gage (rear)**
- 26. Low fuel warning light (rear)**
- 27. Left engine throttle**
- 28. Right engine throttle**
- 29. Flaps actuators**
- 30. Landing gear actuators**
- 31. Landing gear position: green - down / red - up**
- 32. Elevator trim lever**

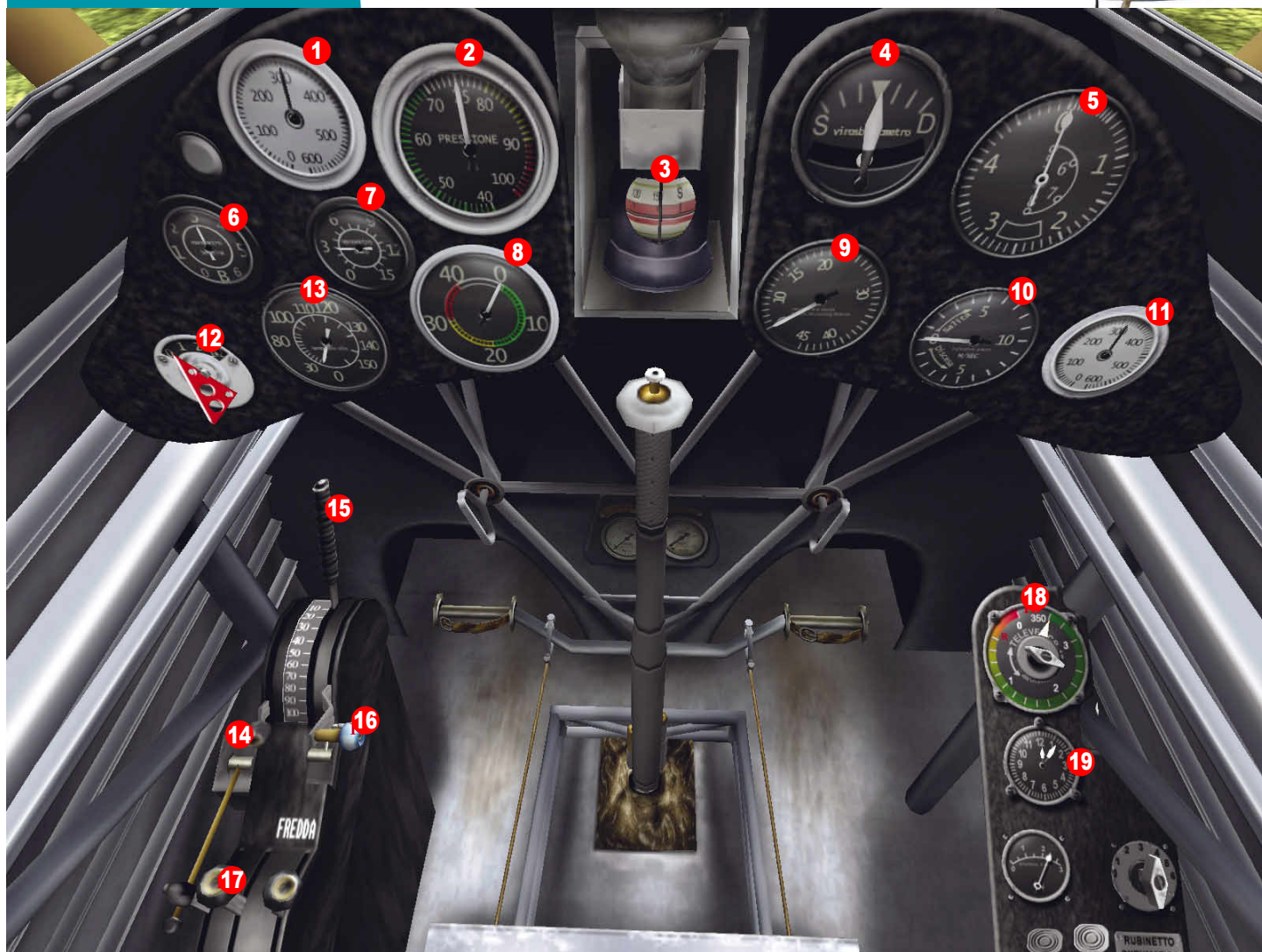


Me 262 B-1a (<http://www.dvhaa.org/>)



ITALY





1. Ammunition counter - left MG
2. Manifold pressure gage
3. Magnetic compass
4. Turn and bank indicator
5. Altimeter
6. Fuel pressure gage
7. Oil pressure gage
8. Tachometer
9. Airspeed indicator
10. Variometer
11. Ammunition counter - right MG
12. Engine ignition switch
13. Oil temperature gage
14. Mixture lever: rear position - richer mixture
front position - leaner mixture
15. Throttle (100% in rear position)
16. Propeller pitch lever (100% in rear position)
17. Radiator levers
18. Fuel gage
19. Clock



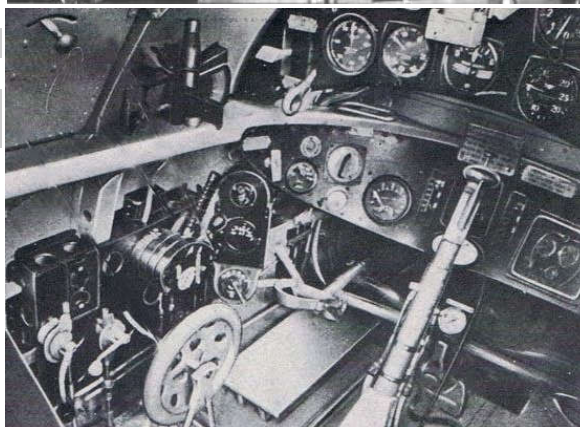
C. R. 42 (http://surfcity.kund.dalnet.se/falco_sweden.htm)

C. R. 42 (<http://www.warcraft.net/forum/>)



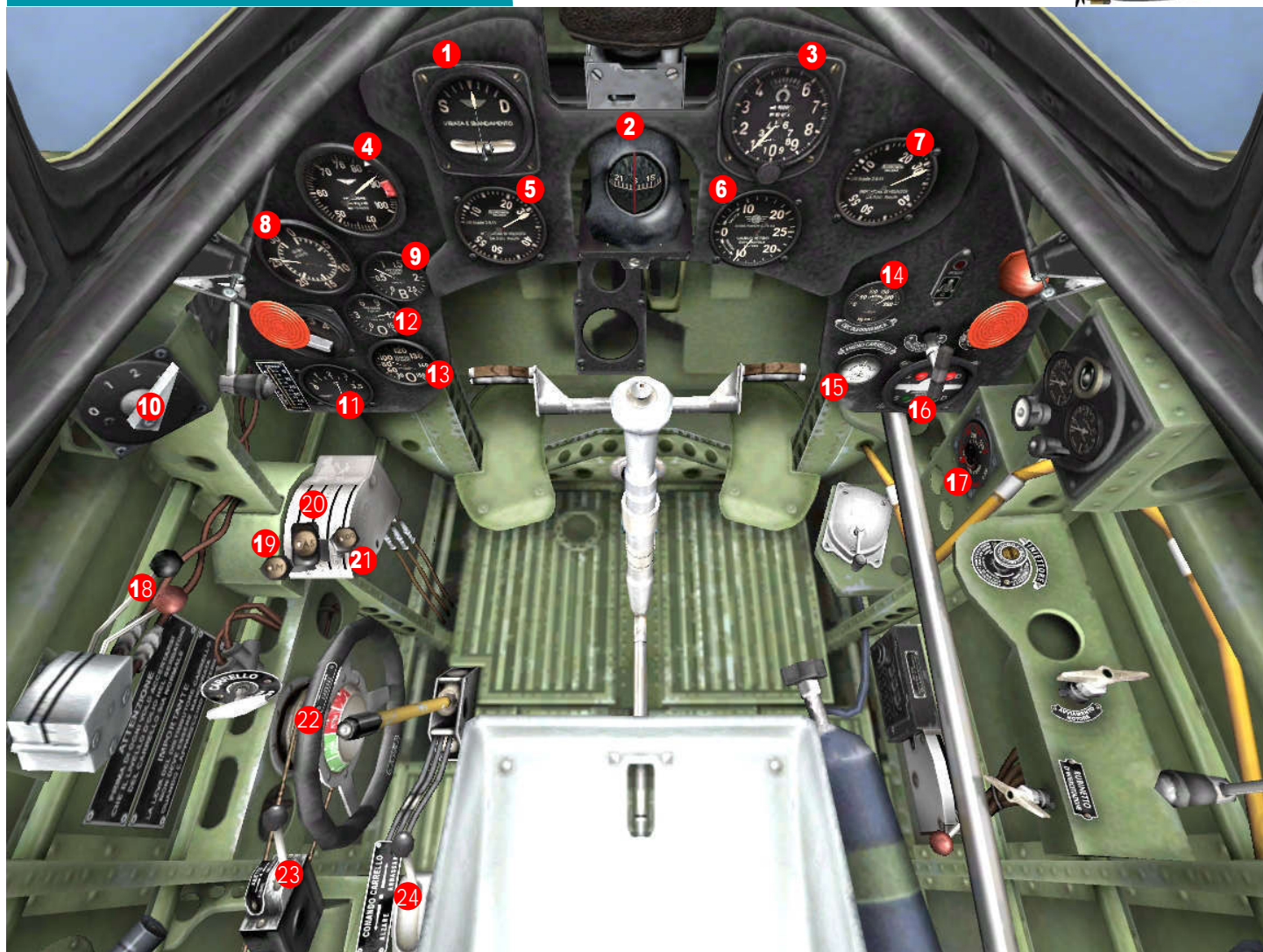


- 1. Fuel pressure gage
- 2. Oil pressure gage
- 3. Tachometer
- 4. Altimeter
- 5. Airspeed indicator
- 6. Flaps lever
- 7. Landing gear lever
- 8. Manifold pressure gage
- 9. Airspeed indicator
- 10. Turn and bank indicator
- 11. Variometer
- 12. Oil temperature gage
- 13. Cylinder head temperature gage
- 14. Ammunition counter - left MG
- 15. Magnetic compass
- 16. Ammunition counter - right MG
- 17. Landing gear position indicator: green - down
no light transition
red - up
- 18. Clock
- 19. Propeller pitch lever
- 20. Throttle
- 21. Mixture lever: rear position - leaner mixture
front position - richer mixture



G50 (<http://www.airwar.ru/aww2.html>)



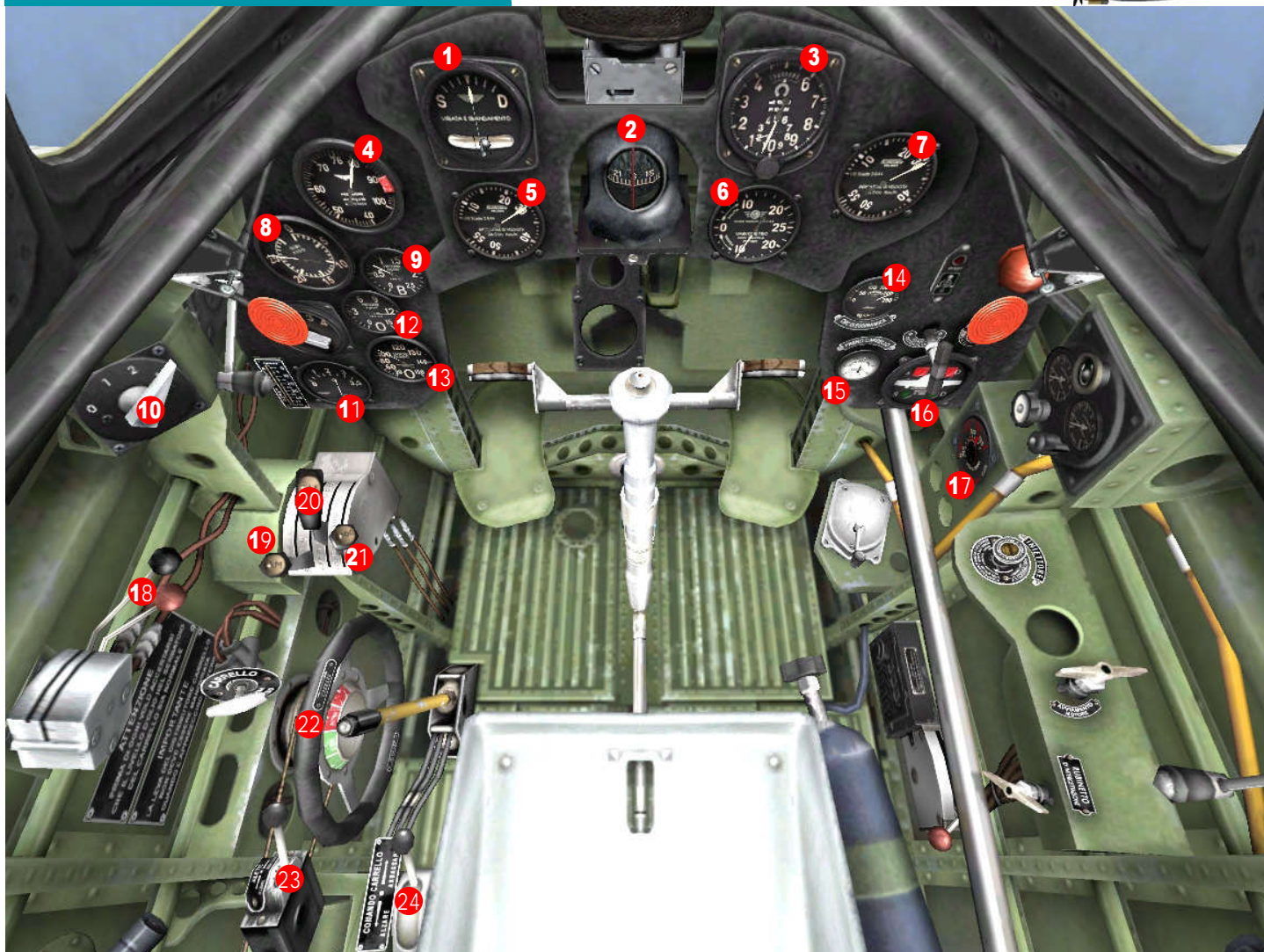


1. Turn and bank indicator
2. Magnetic compass
3. Altimeter
4. Manifold pressure gage
5. Airspeed indicator
6. Variometer
7. Airspeed indicator
8. Tachometer
9. Fuel pressure gage
10. Engine ignition switch
11. Cylinder head temperature gage
12. Oil pressure gage
13. Oil temperature gage
14. Landing gear control oil pressure gage
15. Brake pressure gage
16. Landing gear position indicator: green - down
no light - transition
red - up
17. Fuel gage
18. Radiator levers
19. Propeller pitch lever (100% in rear position)
20. Throttle (100% in rear position)
21. Mixture lever: rear position - richer mixture
front position - leaner mixture
22. Elevator trim wheel
23. Flaps lever
24. Landing gear lever



M.C.200 (http://www.stormmagazine.com/ReferencePics/MC200/MC200figra/Valle.htm)





1. Turn and bank indicator
2. Magnetic compass
3. Altimeter
4. Manifold pressure gage
5. Airspeed indicator
6. Variometer
7. Airspeed indicator
8. Tachometer
9. Fuel pressure gage
10. Engine ignition switch
11. Cylinder head temperature gage
12. Oil pressure gage
13. Oil temperature gage
14. Landing gear control oil pressure gage
15. Brake pressure gage
16. Landing gear position indicator: green - down
no light - transition
red - up
17. Fuel gage
18. Radiator levers
19. Propeller pitch lever (100% in rear position)
20. Throttle (100% in rear position)
21. Mixture lever: rear position - richer mixture
front position - leaner mixture
22. Elevator trim wheel
23. Flaps lever
24. Landing gear lever



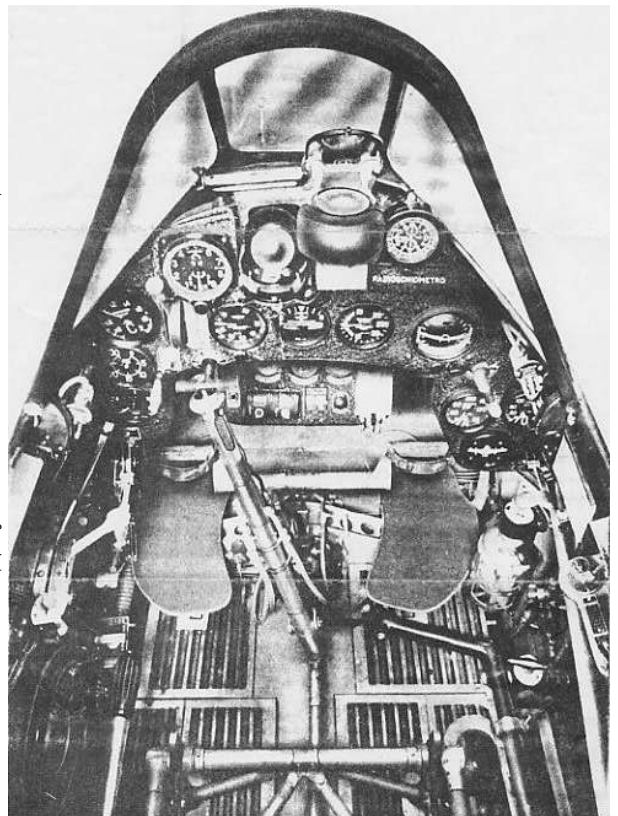
M.C.200 (http://www.57thfightergroup.org/reunions/2008_italy/index.html)





1. Altimeter
2. Magnetic compass
3. Clock
4. Manifold pressure gage
5. Airspeed indicator
6. Turn and bank indicator
7. Variometer
8. Artificial horizon
9. Tachometer
10. Oil pressure gage
11. Fuel pressure gage
12. Fuel gage
13. Brake pressure gage
14. Landing gear oil pressure gage
15. MG air pressure gage
16. Coolant temperature gage
17. Oil temperature gage
18. Throttle (100% in rear position)
19. Propeller pitch lever (100% in rear position)
20. Engine ignition switch
21. Landing gear lever
22. Nose MG ammunition counter & warning light
23. Wings MG ammunition counter
24. Landing gear position indicator: green - down
no light - transition
red - up
25. Flaps position indicator
26. Flaps lever
27. Radiator lever
28. Elevator trim wheel

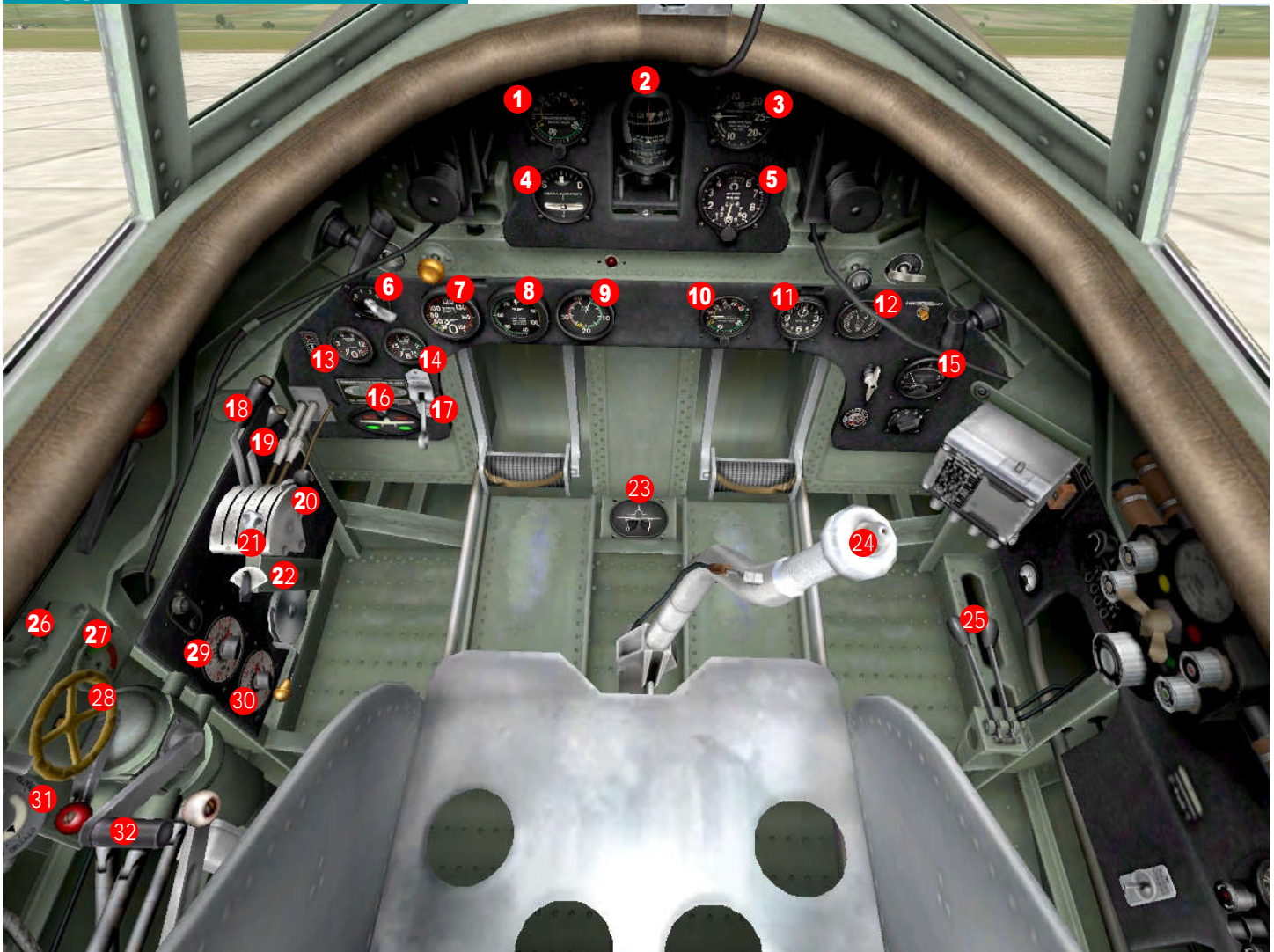
M.C.202 (http://digilander.libero.it/emilianarola/Taranto/le/C02/Photo/le.htm)



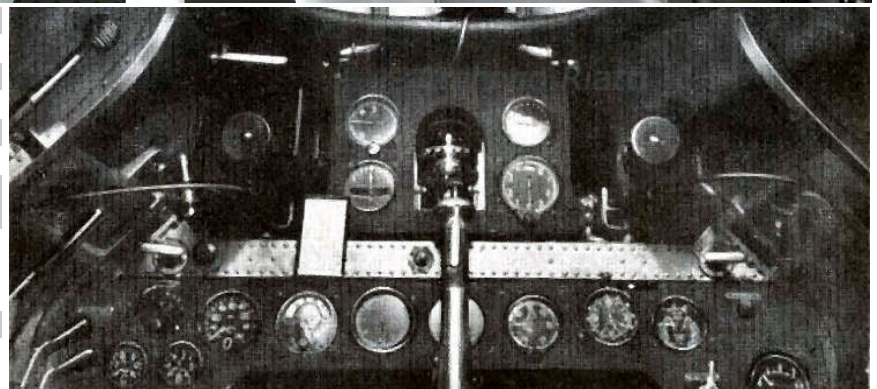


1. Altimeter
2. Magnetic compass
3. Clock
4. Manifold pressure gage
5. Airspeed indicator
6. Turn and bank indicator
7. Variometer
8. Artificial horizon
9. Tachometer
10. Oil pressure gage
11. Fuel pressure gage
12. Brake pressure gage
13. Landing gear oil pressure gage
14. MG air pressure gage
15. Electric generator warning light
16. Coolant temperature gage
17. Oil temperature gage
18. Throttle (100% in rear position)
19. Propeller pitch lever (100% in rear position)
20. Engine ignition switch
21. Landing gear lever
22. Wings weapon ammunition counter & warning light
23. Nose MG ammunition counter & warning light
24. Landing gear position indicator: green - down
no light - transition
red - up
25. Flaps position indicator
26. Flaps lever
27. Fuel gage
28. Radiator lever
29. Elevator trim wheel

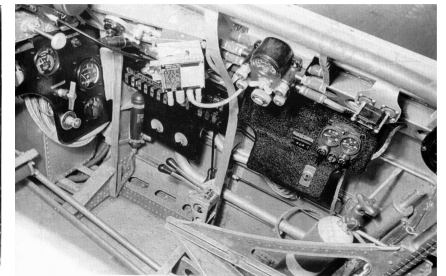




1. Airspeed indicator
2. Magnetic compass
3. Variometer
4. Turn and bank indicator
5. Altimeter
6. Engine ignition switch
7. Oil temperature gage: E needle - Oil-in
U needle - Oil-out
8. Manifold pressure gage
9. Tachometer
10. Airspeed indicator
11. Clock
12. Brakes triple pressure gage: storage cylinder (top)
left & right brakes (bottom)
13. Oil pressure gage
14. Fuel pressure gage
15. Cylinder head temperature gage
16. Landing gear position indicator: green - down
no light - transition
red - up
17. Landing gear lever
18. Throttle (100% in rear position)
19. Mixture lever: rear position - richer mixture
front position - leaner mixture
20. Boost lever (automatic at 100% < Power > 110% [rear posit.]
21. Propeller pitch lever (100% in rear position)
22. Propeller feathering switch (ON in right position)
23. Landing gear position mechanical indicator
24. Gear brakes button
25. Radiator levers
26. Rudder trim wheel
27. Elevator trim indicator
28. Elevator trim wheel
29. Fuel gage (front wing tank)
30. Fuel gage (rear wing tank)
31. Flaps position indicator
32. Flaps handle



Re.2000



Savoia-Marchetti S.M.79 «Sparviero»



- 1. Magnetic compass
- 2. Torpedo sight (only in torpedo configuration)
- 3. Homing indicator
- 4. Directional gyro
- 5. Artificial horizon
- 6. Fuel gage
- 7. Altimeter
- 8. Variometer
- 9. Turn and bank indicator
- 10. Airspeed indicator
- 11. Clock
- 12. Left **engine tachometer**
- 13. Central engine tachometer
- 14. Right engine tachometer
- 15. Left engine manifold pressure gage
- 16. Central engine manifold pressure gage
- 17. Right engine manifold pressure gage
- 18. Left engine oil temperature gage: E needle - Oil-in
U needle - Oil-out
- 19. Central engine oil temperature gage (as before)
- 20. Right engine oil temperature gage (as before)
- 21. Left engine oil pressure gage
- 22. Central engine oil pressure gage
- 23. Right engine oil pressure gage
- 24. Left engine fuel pressure gage
- 25. Central engine fuel pressure gage
- 26. Right engine fuel pressure gage
- 27. Outside air temperature gage
- 28. Compressed air bottle pressure gage (brakes system)
- 29. Brakes pressure gage
- 30. Landing gear position indicator:
green - down and throttle <= 15%
red - up and throttle <= 15%
- 31. Propellers hydraulic drive pressure gage
- 32. Landing gear lever
- 33. Left engine ignition switch
- 34. Central engine ignition switch

S.M.79 (http://www.eaf51.org/Photo_22_S_79.htm)

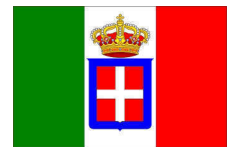
S.M.79 (http://www.abocianeso.org/Sm79cockpit.jpg)



- 35. Right engine ignition switch
- 36. Gear brakes lever
- 37. Mixture levers for left, central & right engines
- 38. Throttles for left, central & right engines
- 39. **Propeller two-pitch levers** for left, central & right engines
front position - fine pitch (100 to 50%)
rear position - coarse pitch (0 to 50%)
- 40. Elevator trim handle & position indicator (located in the ceiling)



Torpedo sight





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JAPAN





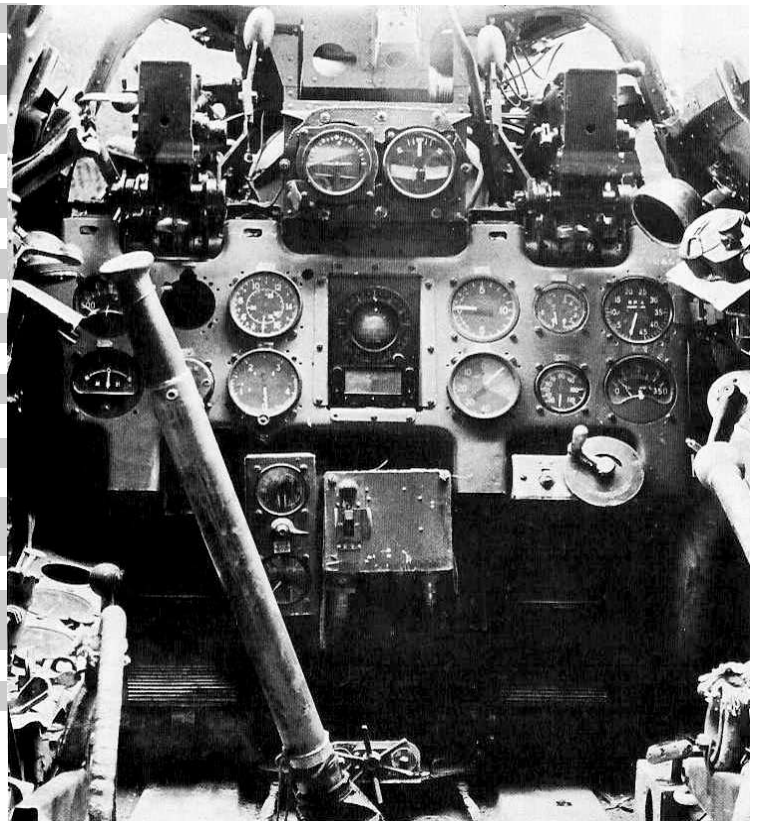
- 1. Artificial horizon
- 2. Turn and bank indicator
- 3. Clock
- 4. Airspeed indicator
- 5. Magnetic compass
- 6. Variometer
- 7. Fuel and oil pressure gage
- 8. Tachometer
- 9. Homing indicator
- 10. Engine ignition switch
- 11. Altimeter
- 12. Cylinder head temperature gage
- 13. Oil temperature gage
- 14. Manifold pressure gage
- 15. Throttle
- 16. Mixture lever: rear position - leaner mixture
front position - richer mixture
- 17. Propeller pitch lever
- 18. Supercharger lever: (on A6M3)
rear position - stage 1
front position - stage 2
- 19. Fuel gage (fuselage tank)
- 20. Fuel gage (wing tanks)

A6M2 (http://www.webidphotographs.com/AUZero/AU-19s.jpg)





- 1. Artificial horizon
- 2. Turn and bank indicator
- 3. Exhaust temperature gage
- 4. Clock
- 5. Airspeed indicator
- 6. Magnetic compass
- 7. Variometer
- 8. Fuel and oil pressure gage
- 9. Tachometer
- 10. Homing indicator
- 11. Engine ignition switch
- 12. Altimeter
- 13. Manifold pressure gage
- 14. Oil temperature gage
- 15. Cylinder head temperature gage
- 16. Throttle
- 17. Mixture lever: rear position - leaner mixture
front position - richer mixture
- 18. Propeller pitch lever
- 19. Supercharger lever: rear position - stage 1
front position - stage 2
- 20. Fuel gage (fuselage tank)
- 21. Fuel gage (wing tanks)



A6M5a





1. Artificial horizon
2. Turn and bank indicator
3. Exhaust temperature gage
4. Clock
5. Airspeed indicator
6. Magnetic compass
7. Variometer
8. Fuel and oil pressure gage
9. Tachometer
10. Homing indicator
11. Engine ignition switch
12. Altimeter
13. Manifold pressure gage
14. Oil temperature gage
15. Cylinder head temperature gage
16. Throttle
17. Mixture lever: rear position - leaner mixture
front position - richer mixture
18. Propeller pitch lever
19. Supercharger lever: rear position - stage 1
front position - stage 2
20. Fuel gage (fuselage tank)
21. Fuel gage (wing tanks)



A6M5 (http://hubpages.com/hub/War-2-Best-Fighter-Planes)

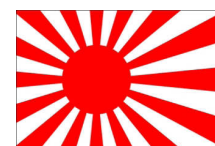




1. Water-methanol (ADI) tank gage
2. Artificial horizon
3. Turn and bank indicator
4. Exhaust temperature gage
5. Clock
6. Airspeed indicator
7. **Magnetic compass**
8. Variometer
9. Fuel and oil pressure gage
10. Tachometer
11. **Homing indicator**
12. Engine ignition switch
13. Altimeter
14. Manifold pressure gage
15. Oil temperature gage
16. Cylinder head temperature gage
17. Throttle
18. Mixture lever: rear position - leaner mixture
front position - richer mixture
19. Propeller pitch lever
20. Supercharger lever: rear position - stage 1
front position - stage 2
21. Fuel gage (fuselage tank)
22. Fuel gage (wing tanks)



A6M7 (http://www.j-aircraft.com/walk/masataka_Kumamoto/A6M7/a6m7_walkaround.html)



Aichi D3A1 «Val»



1. Airspeed indicator
2. Turn and bank indicator
3. Altimeter
4. Artificial horizon
5. Variometer
6. Clock
7. Magnetic compass (lower half only active)
8. **Magnetic compass**
9. Fuel and oil pressure gage
10. Oil temperature gage
11. **Homing indicator**
12. Manifold pressure gage
13. Tachometer
14. Fuel/Air ratio gage
15. Cylinder head temperature gage
16. Throttle
17. Propeller pitch lever
18. Mixture lever: rear position - leaner mixture
front position - richer mixture
19. Fuel gage (wing tanks)
20. Fuel gage (fuselage tank)



D3A1 (<http://gunsight.jp/b/index.htm>)



Mitsubishi G4M1-11 «Betty»



1. Clock
2. Altimeter
3. Turn and bank indicator
4. Airspeed indicator
5. Tachometers for left/right engine
6. Manifold pressure gages for left/right engine
7. Fuel and oil pressure gages for left/right engine
8. Exhaust temperature gages for left/right engine
9. Oil temperature gages for left/right engine
10. Cylinder head temperature gages for left/right engine
11. Magnetic induction compass
12. Magnetic compass
13. Homing indicator
14. Autopilot directional gyro & bank indicator
15. Autopilot artificial horizon
16. Mixture levers for left/right engine
17. Throttles for left/right engine
18. Propeller pitch levers for left/right engine
19. Landing gear & flaps position indicator: green - down
no light - transition
red - up
20. Airspeed indicator
21. Turn and bank indicator
22. Variometer
23. Altimeter
24. Magnetic compass
25. Artificial horizon
26. Free air temperature gages for left/right engine
27. Flaps position indicator
28. Variometer
29. Fuel gage (left wing outboard & inboard tank, fuselage tank,
right wing outboard & inboard tank)

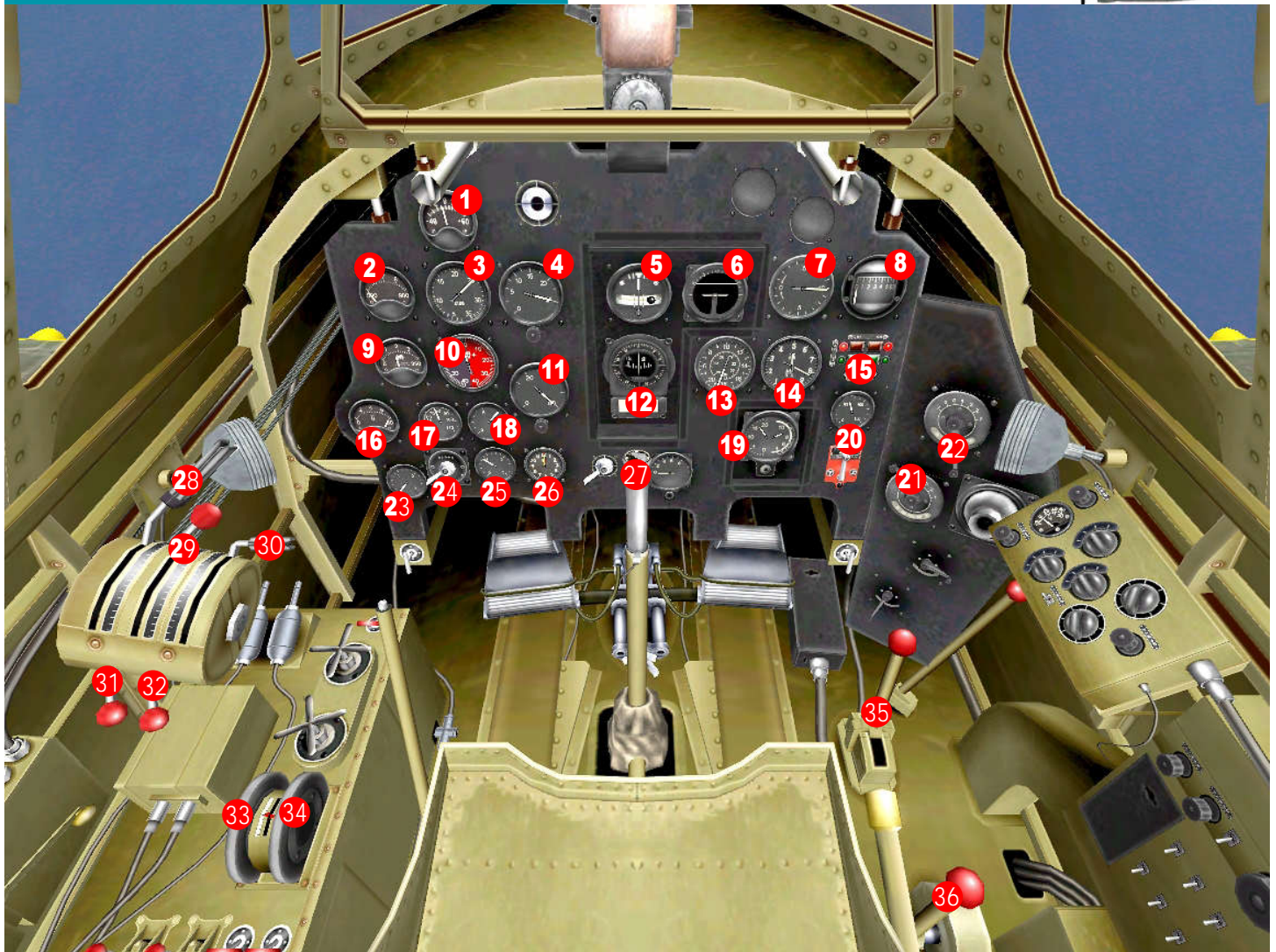


G4M1 (<http://www.airwar.ru/aww2.html>)



G4M1 (<http://gunsight.jp/b/index.htm>)





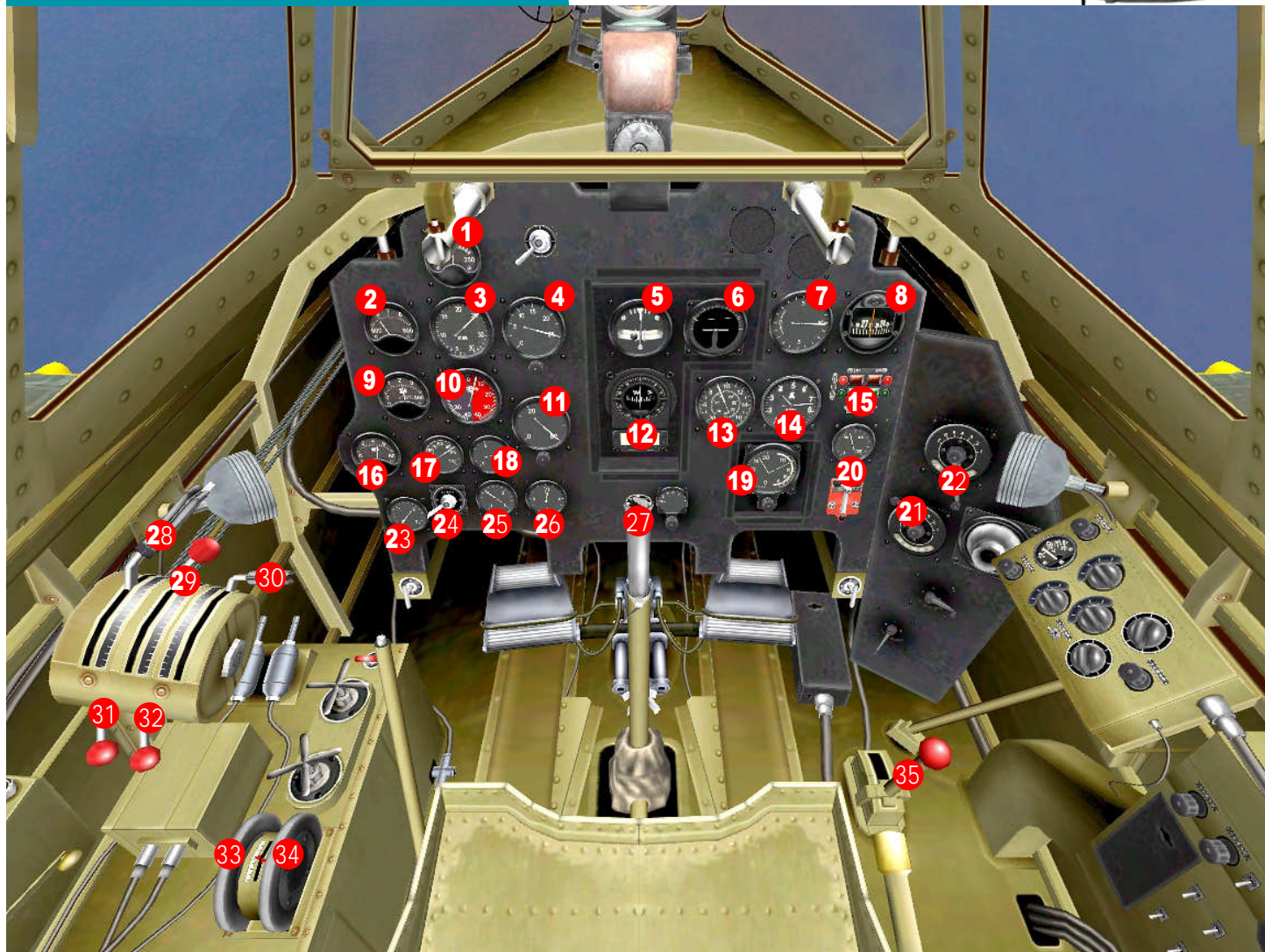
1. Free air temperature gage
2. Exhaust temperature gage
3. Tachometer
4. Fuel gage
5. Turn and bank indicator
6. Artificial horizon
7. Variometer
8. Flaps position indicator
9. Cylinder head temperature gage
10. Manifold pressure gage
11. Fuel gage
12. Magnetic compass
13. Airspeed indicator
14. Altimeter
15. Landing gear position indicator: green - down
no light - transition
red - up
16. Water (ADI) quantity gage
17. Oil temperature gage
18. Oil pressure gage
19. Oxygen system gage
20. Hydraulic pressure gage
- 21 & 22. Radiator handles
23. Water (ADI) pressure gage
24. Engine ignition switch
25. Fuel pressure gage
26. Clock
27. Flaps switch
28. Throttle
29. Mixture lever
30. Propeller pitch lever
31. Supercharger lever
32. Boost lever
33. Elevator trim wheel & indicator
34. Rudder trim wheel & indicator
- 35 & 36. Landing gear levers



J2M3 (<http://gunsight.jp/b/index.htm>)



Mitsubishi J2M5 Raiden «Jack»

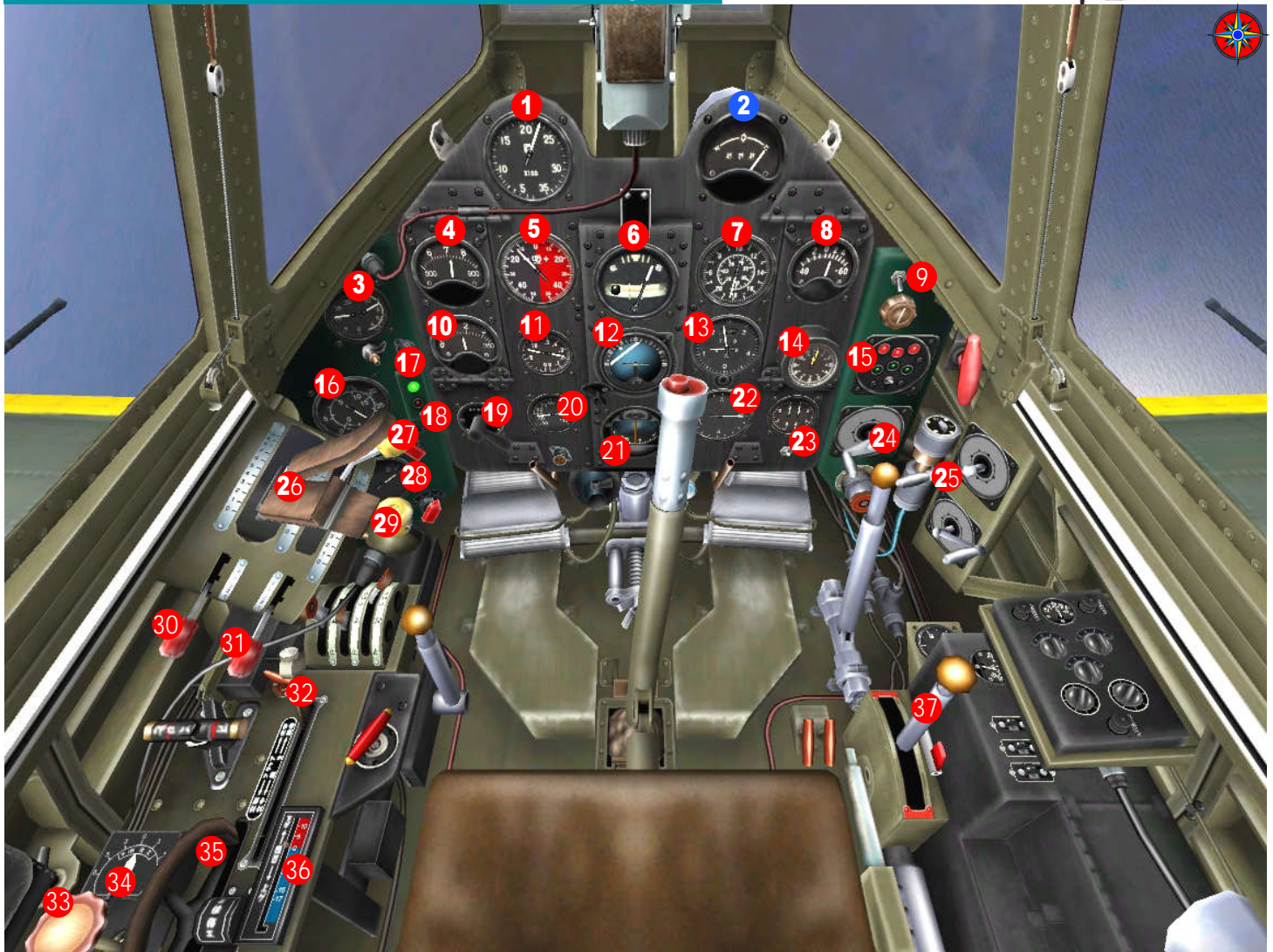


1. Free air temperature gage
2. Exhaust temperature gage
3. Tachometer
4. Fuel gage
5. Turn and bank indicator
6. Artificial horizon
7. Variometer
8. Magnetic compass
9. Cylinder head temperature gage
10. Manifold pressure gage
11. Fuel gage
12. Magnetic compass
13. Airspeed indicator
14. Altimeter
15. Landing gear position indicator: green - down
no light - transition
red - up
16. Water (ADI) quantity gage
17. Oil temperature gage
18. Oil pressure gage
19. Oxygen system gage
20. Hydraulic pressure gage
- 21 & 22. Radiator handles
23. Water (ADI) pressure gage
24. Engine ignition switch
25. Fuel pressure gage
26. Clock
27. Flaps switch
28. Throttle
29. Mixture lever
30. Propeller pitch lever
31. Supercharger lever
32. Boost lever
33. Elevator trim wheel & indicator
34. Rudder trim wheel & indicator
35. Landing gear lever

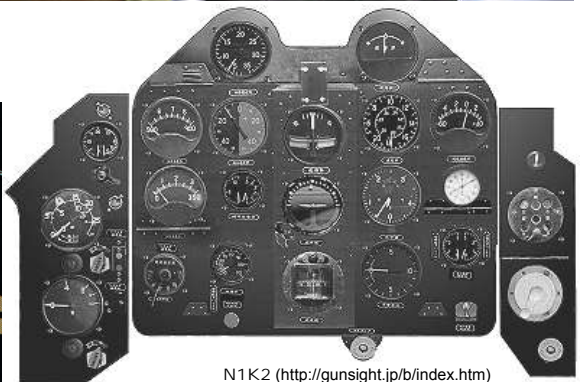
J2M5 (http://www.warbirdphotographs.com/Navylab&WZJ2M-5s.jpg)



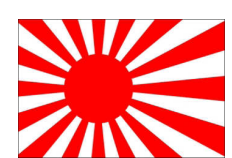
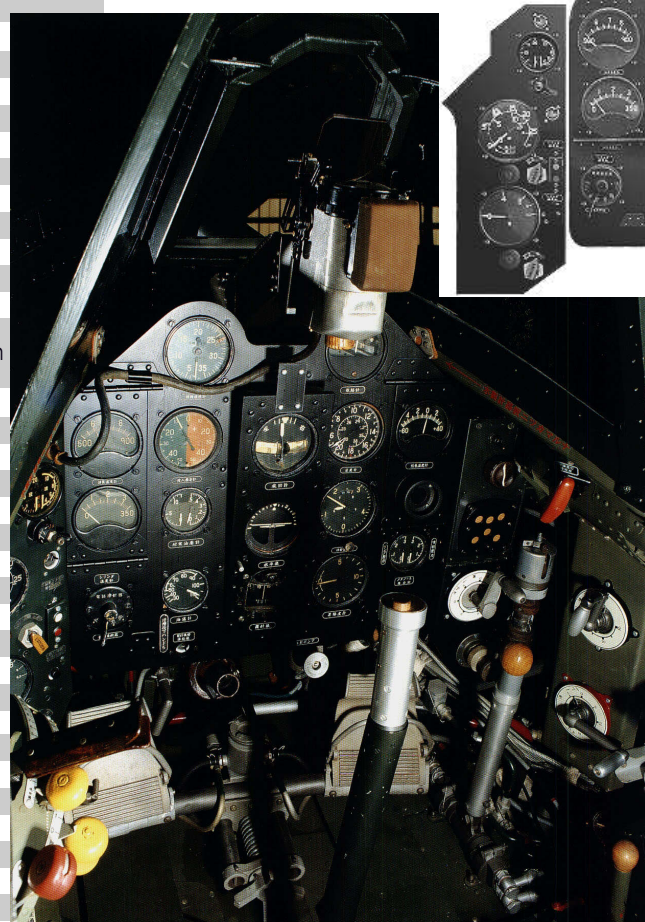
Kawanishi N1K2-JA Shiden Kai «George»



- 1. Tachometer
- 2. **Homing indicator**
- 3. Oxygen system gage
- 4. Exhaust temperature gage
- 5. Manifold pressure gage
- 6. Turn and bank indicator
- 7. Airspeed indicator
- 8. Free air temperature gage
- 9. Instrument light switch
- 10. Cylinder head temperature gage
- 11. Oil & fuel pressure gage
- 12. Artificial horizon
- 13. Altimeter
- 14. Clock
- 15. Landing gear position: green - down
no light - transition
red - up
- 16. Fuel gage (fuselage tank)
- 17. Operational fuel level indicator light
- 18. Low fuel warning light
- 19. Engine ignition switch
- 20. Oil temperature gage
- 21. Magnetic compass
- 22. Variometer
- 23. Water-methanol (ADI) pressure gage
- 24 & 25. Radiator handles
- 26. Throttle
- 27. Propeller pitch lever
- 28. Fuel gage (wing tanks)
- 29. Mixture lever
- 30 & 31. Supercharger levers
- 32. Flaps lever
- 33. Rudder trim wheel
- 34. Rudder trim indicator
- 35. Elevator trim wheel
- 36. Elevator trim indicator
- 37. Landing gear lever



N1K2 (<http://gunsight.jp/b/index.htm>)



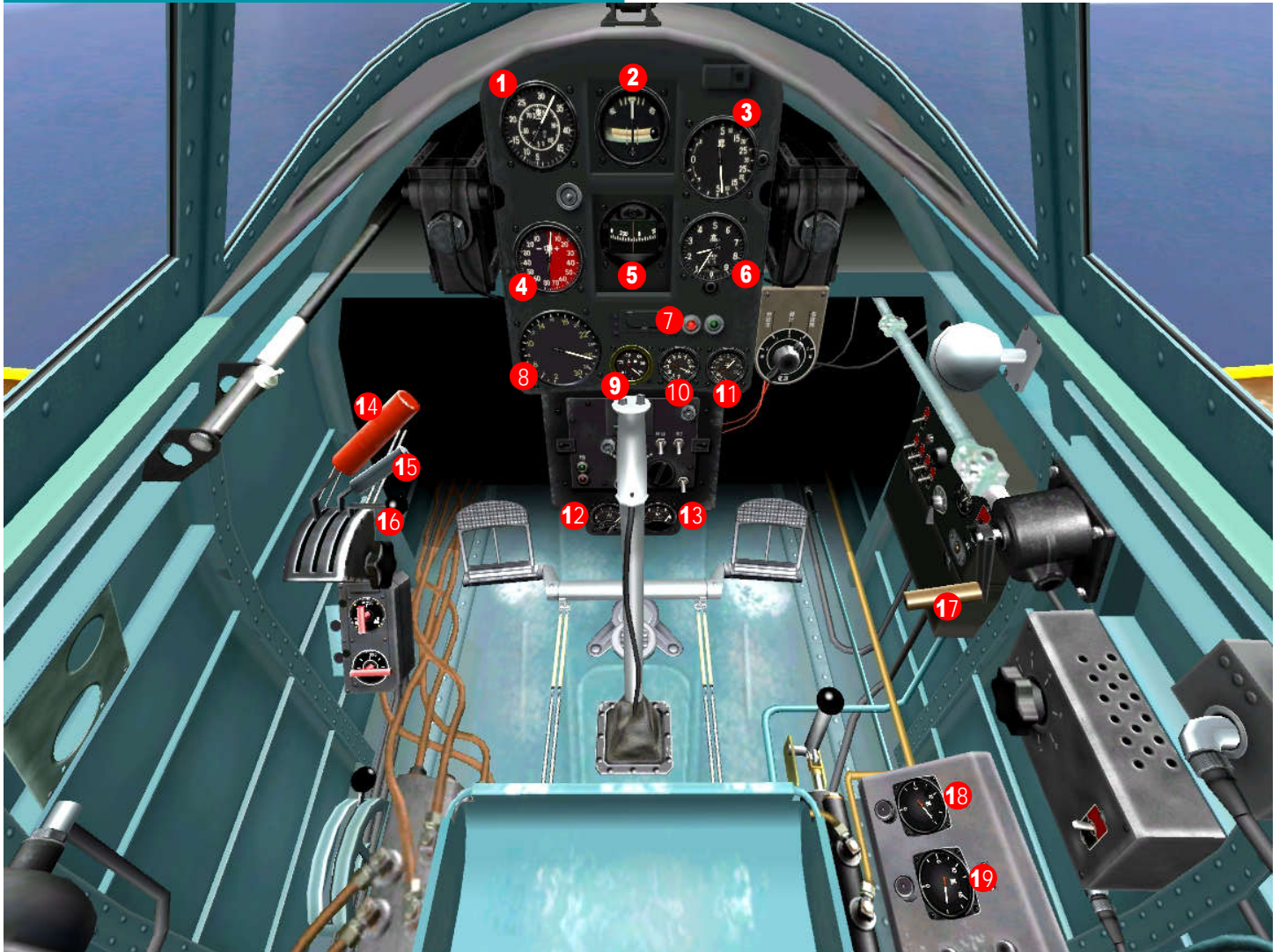


1. Airspeed indicator
2. Radiator handle
3. Turn and bank indicator
4. Variometer
5. Oil pressure gage
6. Oil temperature gage
7. Tachometer
8. Manifold pressure gage
9. Magnetic compass
10. Altimeter
11. Fuel pressure gage
12. Coolant temperature gage
13. Engine ignition switch
14. Clock
15. Fuel gage
16. Throttle
17. Flaps handle
18. Elevator trim lever



Ki-27 (<http://gunsight.jp/b/index.htm>)

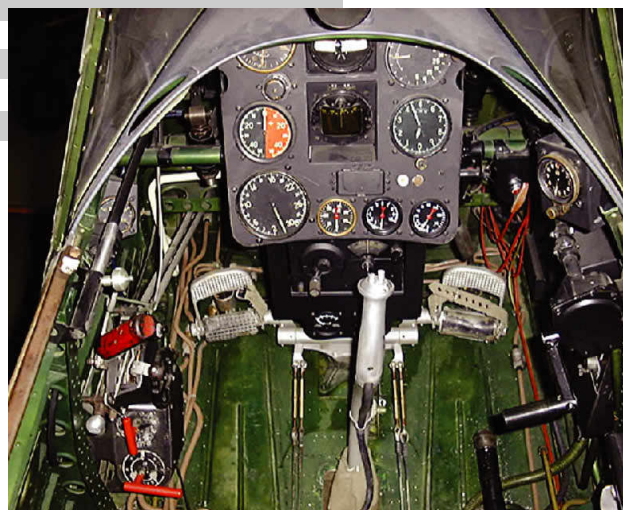




1. Airspeed indicator
2. Turn and bank indicator
3. Variometer
4. Manifold pressure gage
5. Magnetic compass
6. Altimeter
7. Landing gear position indicator: green - up
no light - in transition
red - down
8. Tachometer
9. Fuel pressure gage
10. Oil pressure gage
11. Oil temperature gage
12. Cylinder head temperature gage
13. Exhaust temperature gage
14. Throttle
15. Propeller pitch lever
16. Mixture lever
17. Radiator handle
18. Fuel gage (front)
19. Fuel gage (rear)

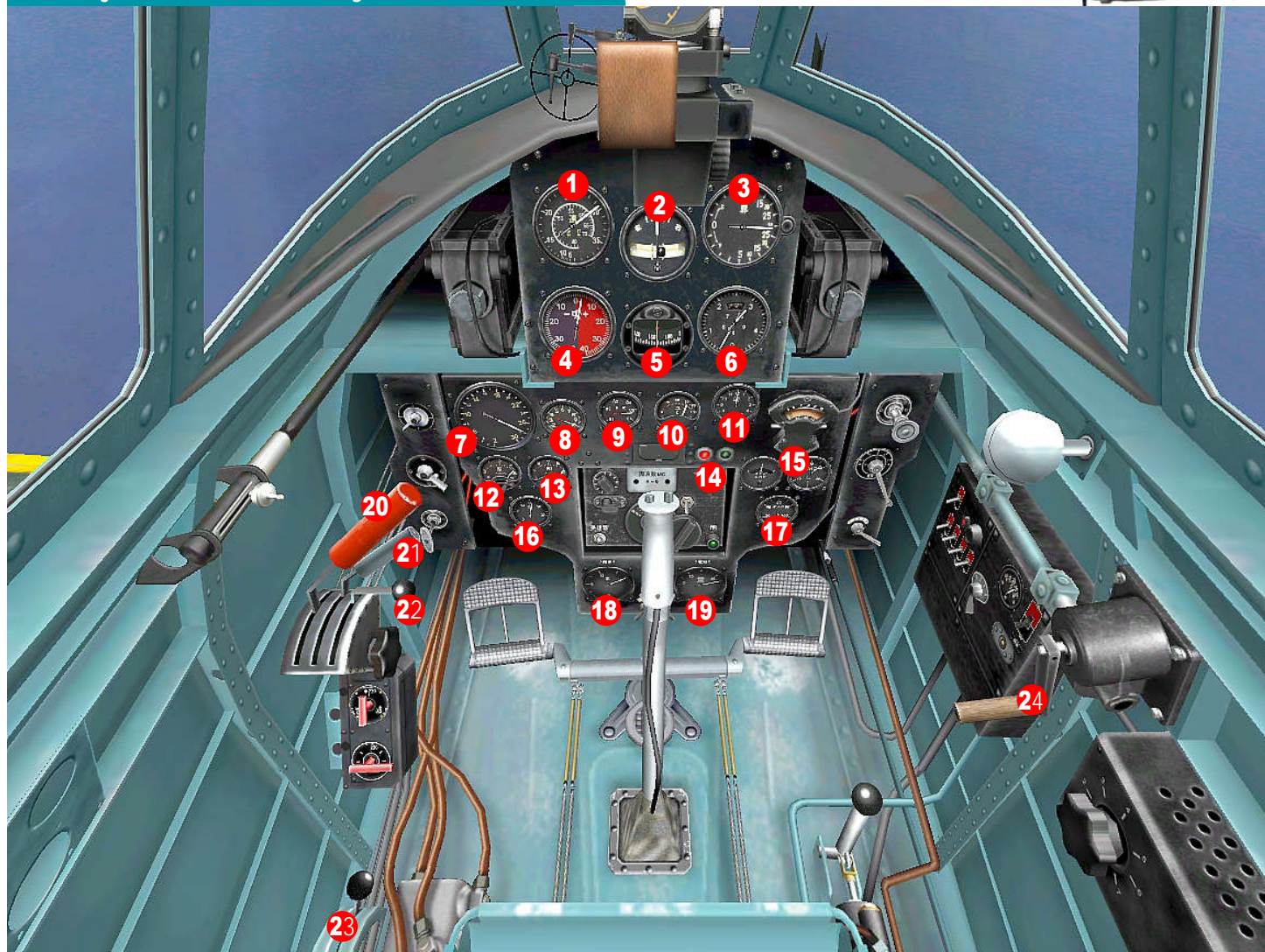


Ki-43 (<http://gunsight.jp/b/index.htm>)

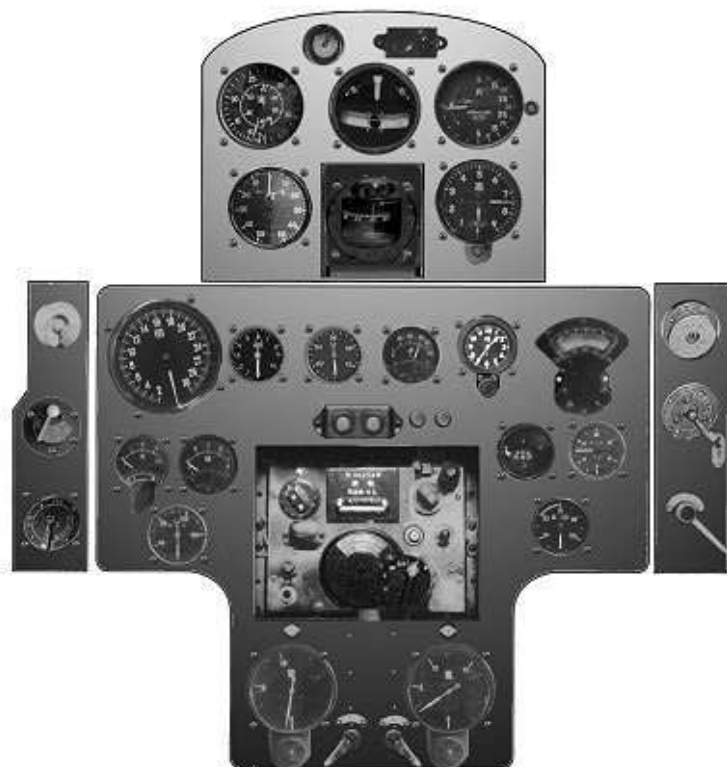


Ki-43 (www.nazipm.co.nz)





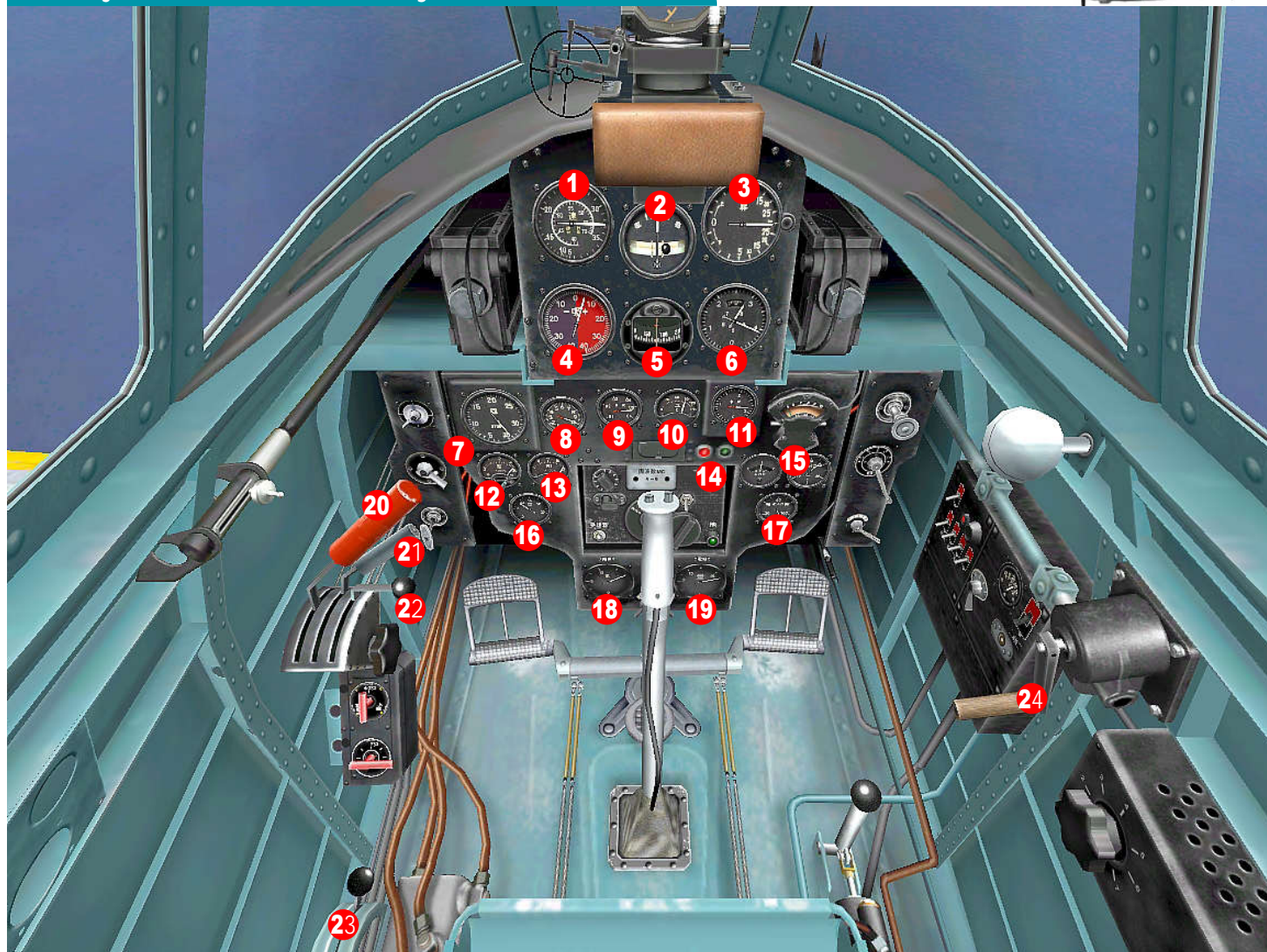
1. Airspeed indicator
2. Turn and bank indicator
3. Variometer
4. Manifold pressure gage
5. Magnetic compass
6. Altimeter
7. Tachometer
8. Oil pressure gage
9. Fuel pressure gage
10. Oil temperature gage
11. Clock
12. Cylinder head temperature gage
13. Exhaust temperature gage
14. Landing gear position indicator: green - down
no light - transition
red - up
15. Oxygen system gages (3)
16. Gun pressure gage
17. Hydraulic pressure gage
18. Fuel gage (front tank)
19. Fuel gage (rear tank)
20. Throttle
21. Propeller pitch lever
22. Mixture lever
23. Flaps lever
24. Radiator handle



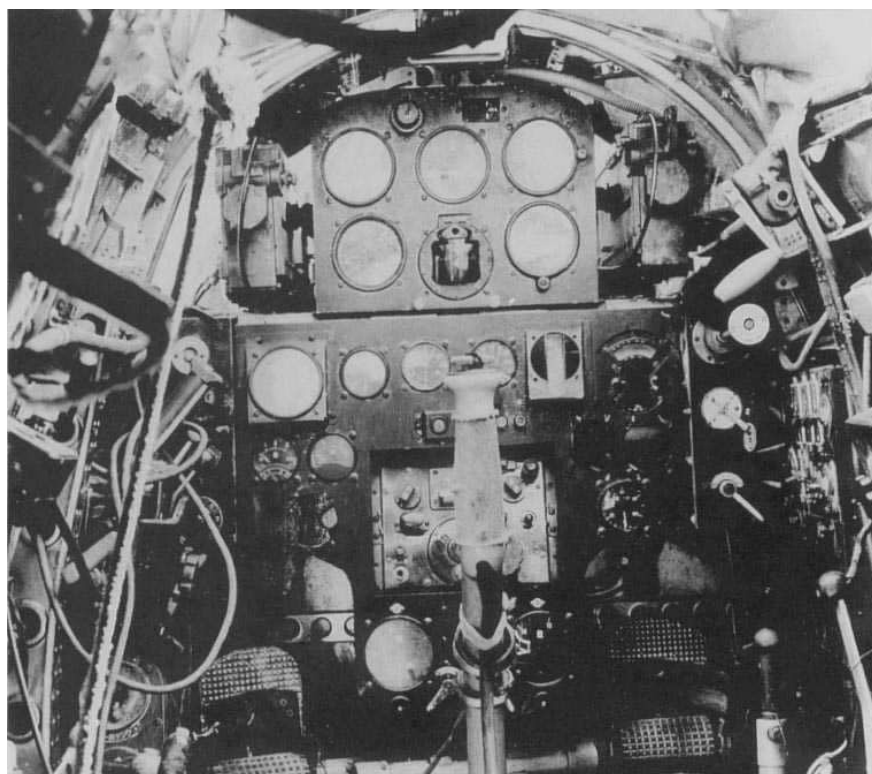
Ki-43-II (<http://gunsight.jp/b/index.htm>)



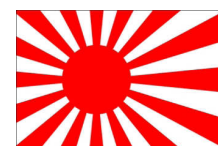
Nakajima Ki-43-II Kai Hayabusa «Oscar»

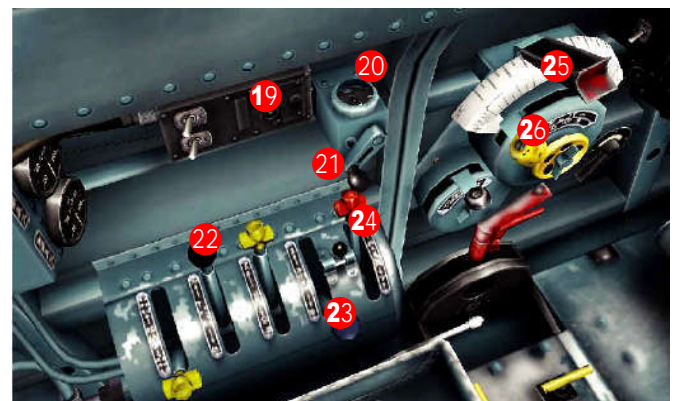


1. Airspeed indicator
2. Turn and bank indicator
3. Variometer
4. Manifold pressure gage
5. Magnetic compass
6. Altimeter
7. Tachometer
8. Oil pressure gage
9. Fuel pressure gage
10. Oil temperature gage
11. Clock
12. Cylinder head temperature gage
13. Exhaust temperature gage
14. Landing gear position indicator: green - down
no light - transition
red - up
15. Oxygen system gages (3)
16. Gun pressure gage
17. Hydraulic pressure gage
18. Fuel gage (front tank)
19. Fuel gage (rear tank)
20. Throttle
21. Propeller pitch lever
22. Mixture lever
23. Flaps lever
24. Radiator handle



Ki-43 II Kai (<http://www.warbirdphotographs.com/ArmyJB&W3/Ki-43-Cockpit-112.jpg>)





- 1. Turn and bank indicator
- 2. Variometer
- 3. Airspeed indicator
- 4. Magnetic compass
- 5. Altimeter
- 6. Clock
- 7. Free air temperature gage
- 8. Manifold pressure gage
- 9. Exhaust temperature gage
- 10. Tachometer
- 11. Coolant temperature gage
- 12. Oil temperature gage
- 13. Oil pressure gage
- 14. Fuel pressure gage
- 15. Flaps position indicator
- 16. Radiator position indicator
- 17. Landing gear position indicator: green - up
no light - in transition
red - down
- 18. Fuel gage
- 19. External ordnance indicator lights
- 20. Elevator trim indicator
- 21. Elevator trim lever
- 22. Flaps lever
- 23. Radiator lever
- 24. Landing gear lever
- 25. Throttle
- 26. Propeller pitch lever



Nakajima Ki-84-1a Hayate «Frank»



- 1. Turn and bank indicator
- 2. Artificial horizon
- 3. Variometer
- 4. Airspeed indicator
- 5. Magnetic compass
- 6. Altimeter
- 7. Tachometer
- 8. Manifold pressure gage
- 9. Clock
- 10. Engine ignition switch
- 11. Landing gear position indicator: green - down
no light - transition
red - up
- 12. Cylinder head temperature gage
- 13. Exhaust temperature gage
- 14. Oil temperature gage
- 15. Oil pressure gage
- 16. Fuel pressure gage
- 17. Water-methanol (ADI) pressure gage
- 18. Fuel gage with integrated low fuel warning light
- 19. Propeller pitch lever
- 20. Mixture lever: rear position - leaner mixture
front position - richer mixture
- 21. Throttle
- 22. Landing gear lever
- 23. Flaps lever
- 24. Position lights switch
- 25. Landing light switch
- 26. Instrument light switch
- 27 & 28. Radiators levers

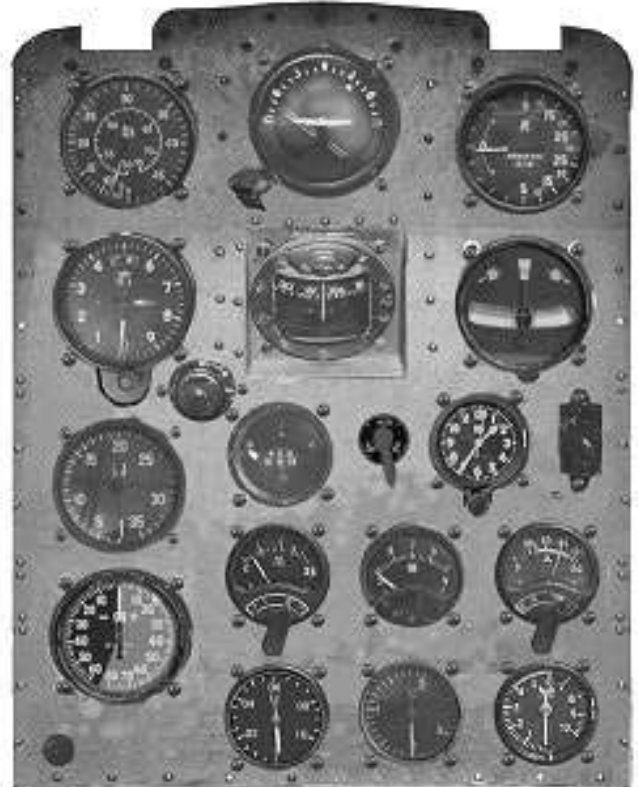


Ki-84-1a (<http://gunsight.jp/b/index.htm>)





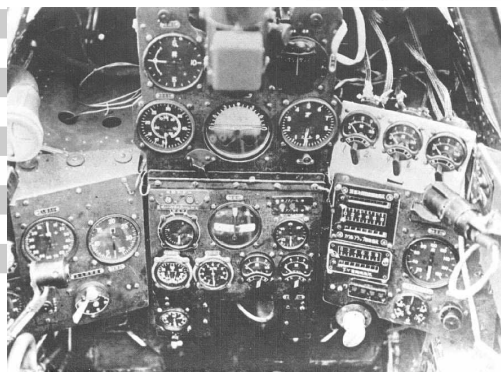
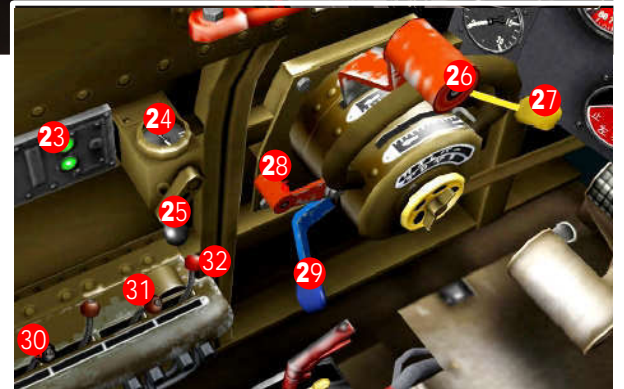
1. Airspeed indicator
2. Artificial horizon
3. Variometer
4. Altimeter
5. Magnetic compass
6. Turn and bank indicator
7. Tachometer
8. Clock
9. Engine ignition switch
10. Landing gear position indicator: green - down
no light - transition
red - up
11. Manifold pressure gage
12. Cylinder head temperature gage
13. Exhaust temperature gage
14. Oil temperature gage
15. Fuel pressure gage
16. Water-methanol (ADI) pressure gage
17. Oil pressure gage
18. Fuel gage with integrated low fuel warning light
19. Propeller pitch lever
20. Mixture lever: rear position - leaner mixture
front position - richer mixture
21. Throttle
22. Landing gear lever
23. Flaps lever
24. Position lights switch
25. Landing light switch
26. Instrument light switch
- 27 & 28. Radiators levers



Ki-84-Ib (<http://gunsight.jp/b/index.htm>)



Kawasaki Ki-100-I-Ko Hien Type 5 «Tony»



Ki-100 (http://www.wartr photographs.com/army/88/W4/Ki-100-35s.jpg)

Ki-100 (http://gunsight.jp/b/index.htm)

1. **Variometer**
2. **Magnetic compass**
3. Airspeed indicator
4. Artificial horizon
5. Altimeter
6. Manifold pressure gage
7. Tachometer
8. Water-methanol (ADI) pressure gage
9. Turn and bank indicator
10. Fuel pressure gage
11. Flaps position indicator
12. Radiator position indicator
13. Fuel gage with integrated low fuel warning light
14. Gun pressure gage
15. Engine ignition switch
16. Oil pressure gage
17. Oil temperature gage
18. Cylinder head temperature gage
19. Exhaust **temperature gage**
20. Landing gear position indicator: green - up
no light - in transition
red - down
21. Clock
22. Magnetic compass
23. External ordnance indicator lights
24. Elevator trim indicator
25. **Elevator trim lever**
26. Throttle
27. Propeller pitch lever
28. Mixture lever
29. Boost **lever**
30. Flaps **lever**
31. Radiator **lever**
32. Landing gear lever



POLAND





1. Magnetic compass
2. Manifold pressure gage
3. Airspeed indicator
4. Pitch inclinometer
5. Tachometer
6. Oil-in temperature gage
7. Fuel pressure gage
8. Engine oil temperature gage
9. Oil pressure gage
10. Turn and bank indicator
11. Altimeter
12. Clock
13. Throttle



P11 (<http://img379.imageshack.us/my.php?image=1000085th9.jpg>)

P11 (<http://img57.imageshack.us/my.php?image=1010118mi3.jpg>)

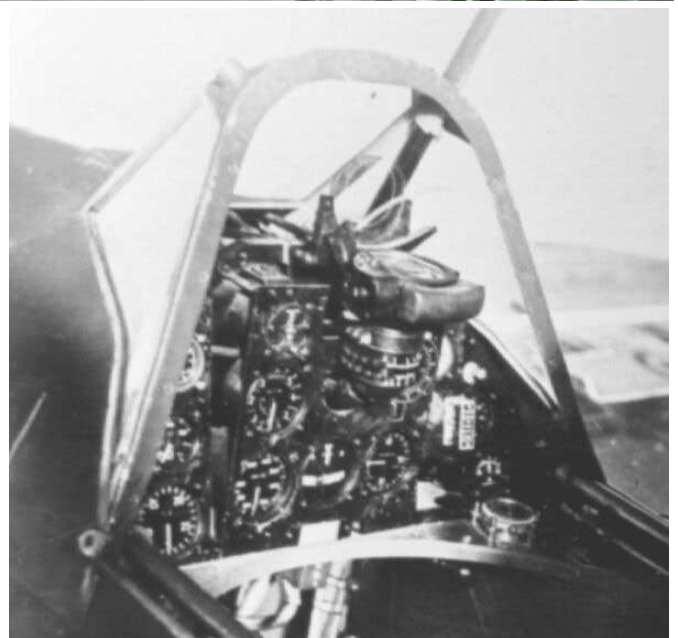


ROMANIA



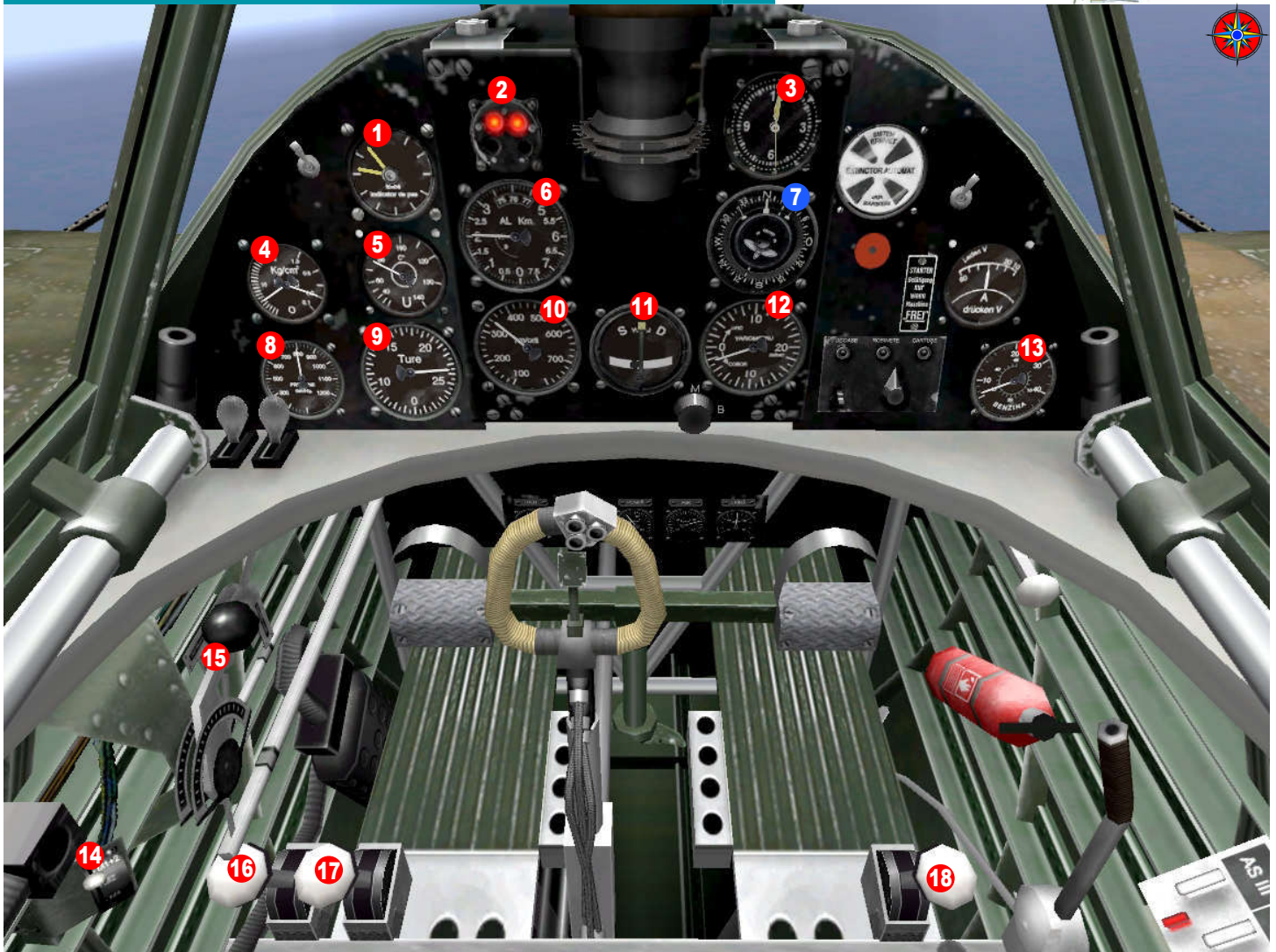


- 1. Propeller pitch indicator
- 2. Altimeter
- 3. Repeater compass
- 4. Clock
- 5. Fuel and oil pressure gage
- 6. Oil temperature gage
- 7. Airspeed indicator
- 8. Turn and bank indicator
- 9. Variometer
- 10. Manifold pressure gage
- 11. Tachometer
- 12. Landing gear position indicator: green - down
no light - transition
red - up
- 13. Fuel gage
- 14. Engine ignition switch
- 15. Throttle
- 16. Flaps lever
- 17. Landing gear lever
- 18. Radiator lever



IAR 80 (<http://www.rcgroups.com/forums/showthread.php?t=446637&page=11>)

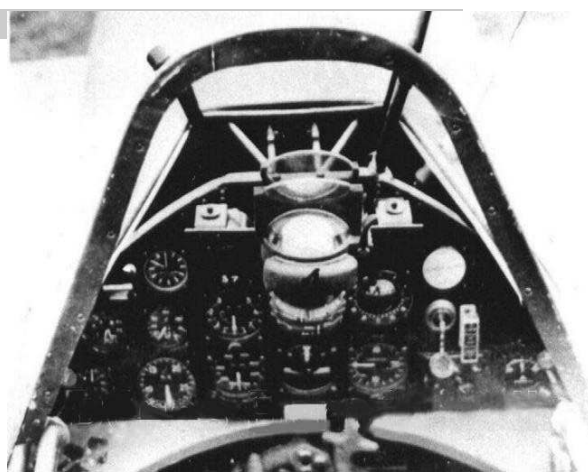




- 1. Propeller pitch indicator
- 2. Landing gear position indicator: green - down
no light - transition
red - up
- 3. Clock
- 4. Fuel and oil pressure gage
- 5. Oil temperature gage
- 6. Altimeter
- 7. Repeater compass
- 8. Manifold pressure gage
- 9. Tachometer
- 10. Airspeed indicator
- 11. Turn and bank indicator
- 12. Variometer
- 13. Fuel gage
- 14. Engine ignition switch
- 15. Throttle
- 16. Flaps lever
- 17. Landing gear lever
- 18. Radiator lever



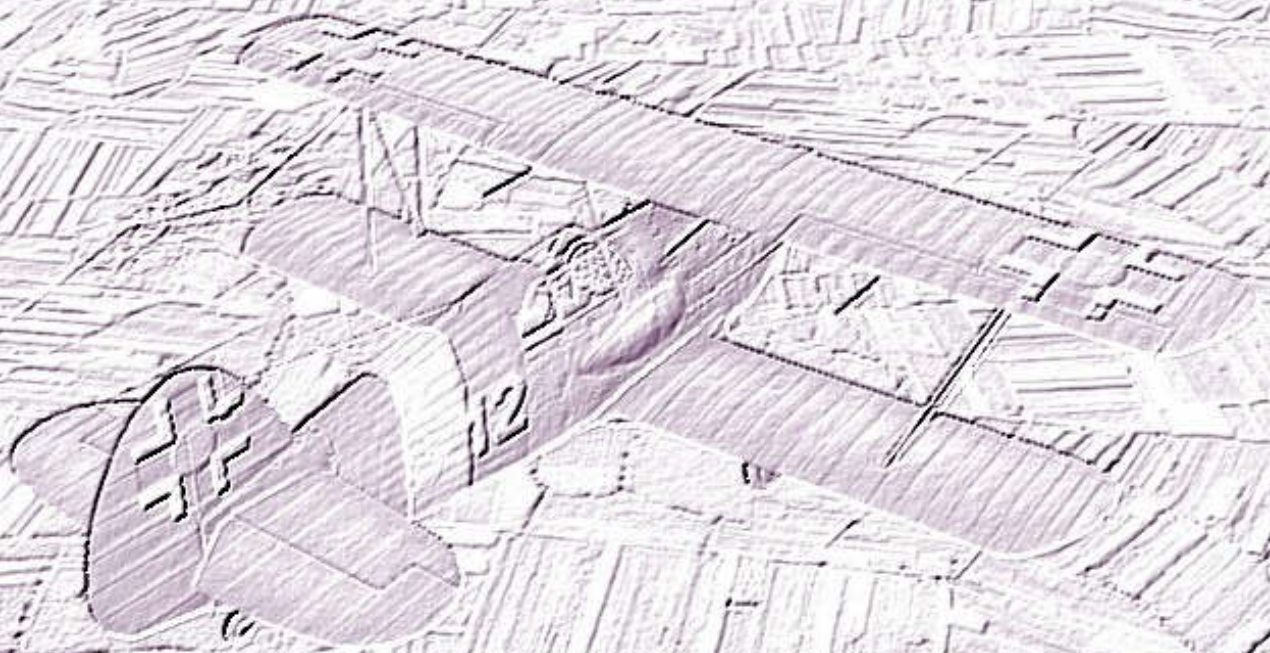
IAR 81 (<http://www.rcgroups.com/forums/showthread.php?t=446637&page=11>)





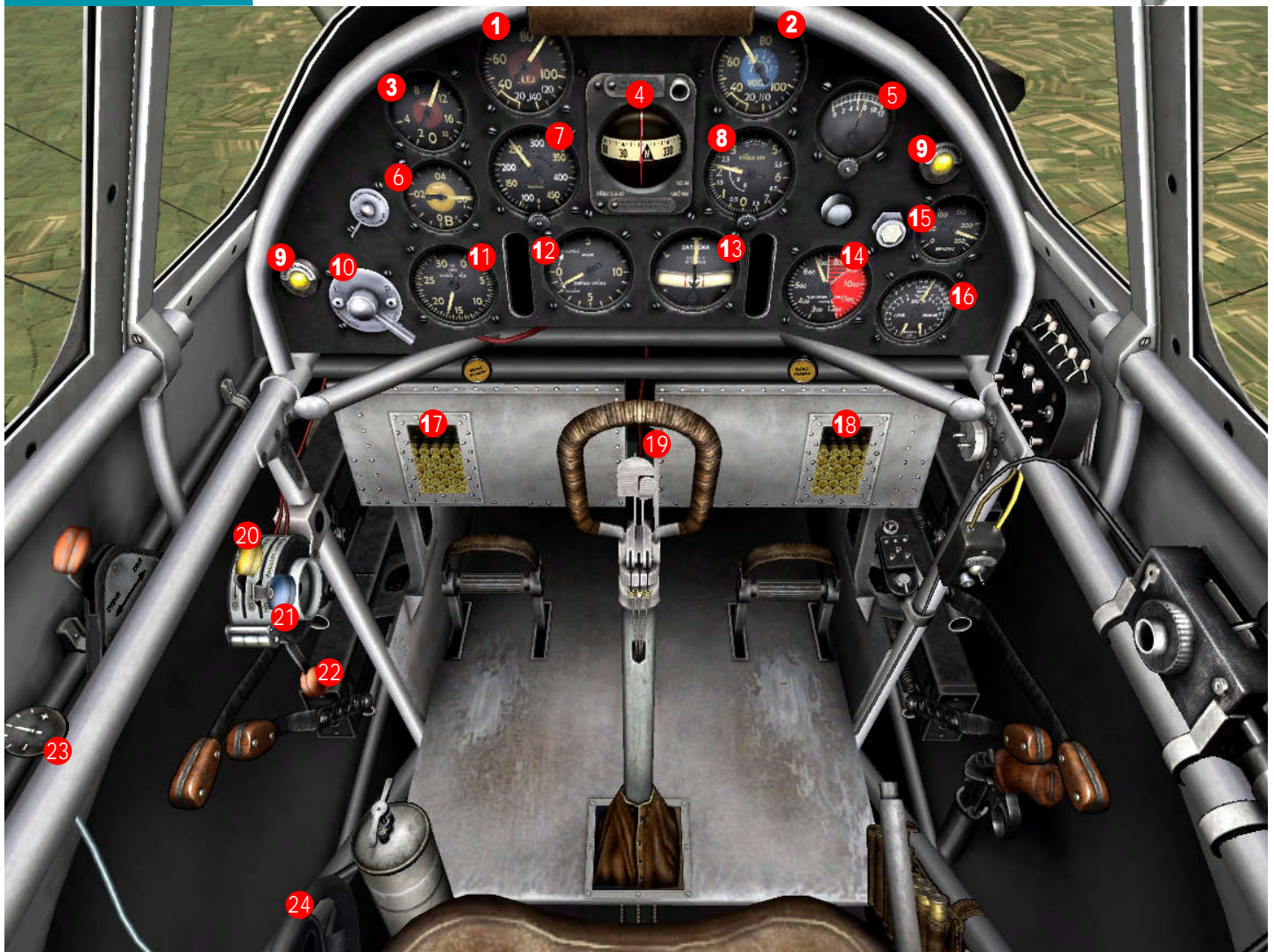
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SLOVAKIA

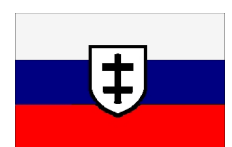


CZECHOSLOVAKIA





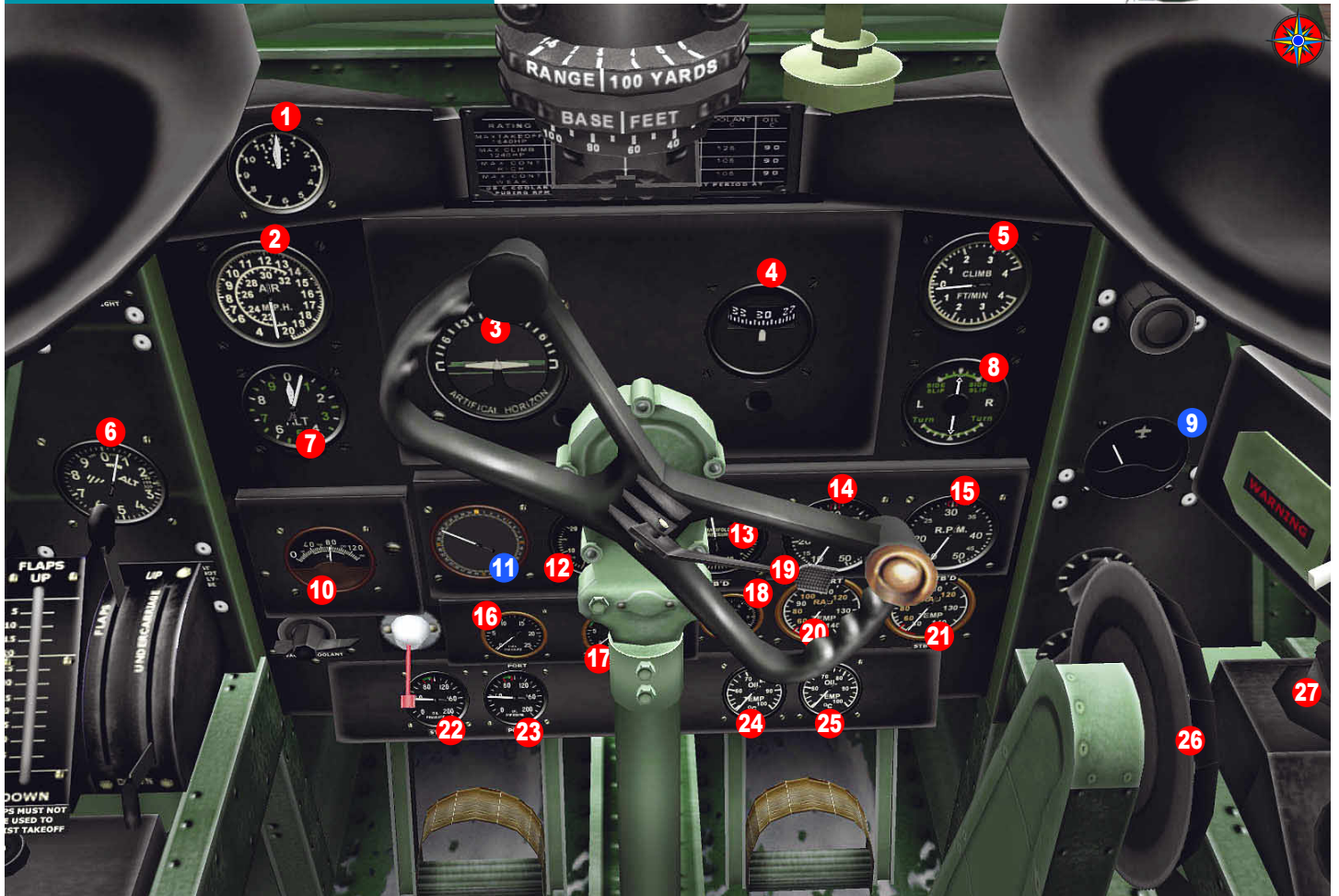
1. Oil temperature gage
2. Coolant temperature gage
3. Oil pressure gage
4. Magnetic compass
5. Oxygen pressure gage
6. Fuel pressure gage
7. Airspeed indicator
8. Altimeter
9. MG charged indicator lights
10. Engine ignition switch
11. Tachometer
12. Variometer
13. Turn and bank indicator
14. Manifold pressure gage
15. Fuel gage
16. Brakes triple pressure gage:
storage cylinder (top)
left & right brakes (bottom)
17. Left lower MG ammunition box
18. Right lower MG ammunition box
19. Gear brakes lever
20. Throttle (100% in rear position)
21. Mixture lever: rear pos. - richer
front pos. - leaner
22. Radiator lever
23. Elevator trim indicator
24. Elevator trim wheel



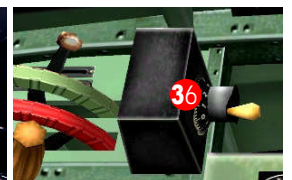
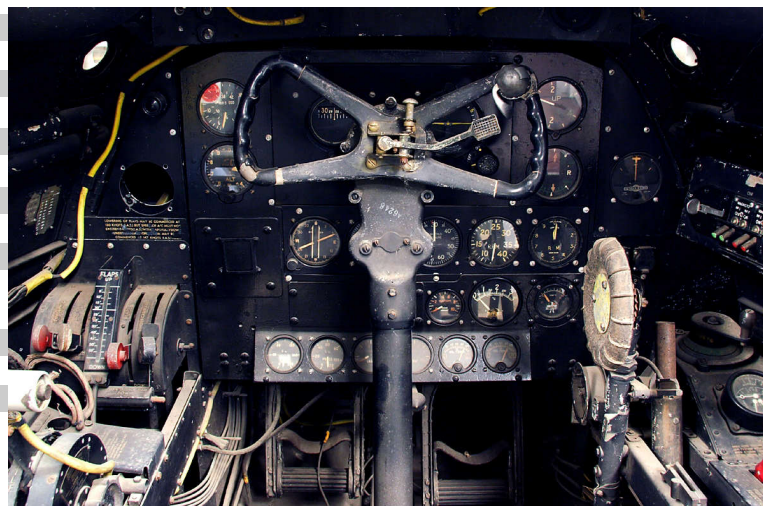
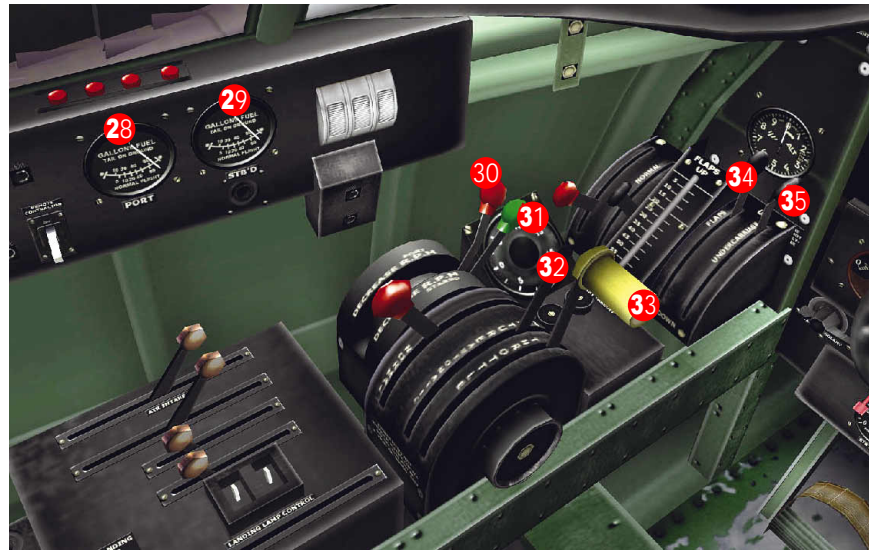
UNITED KINGDOM



Bristol Beaufighter Mk. 21



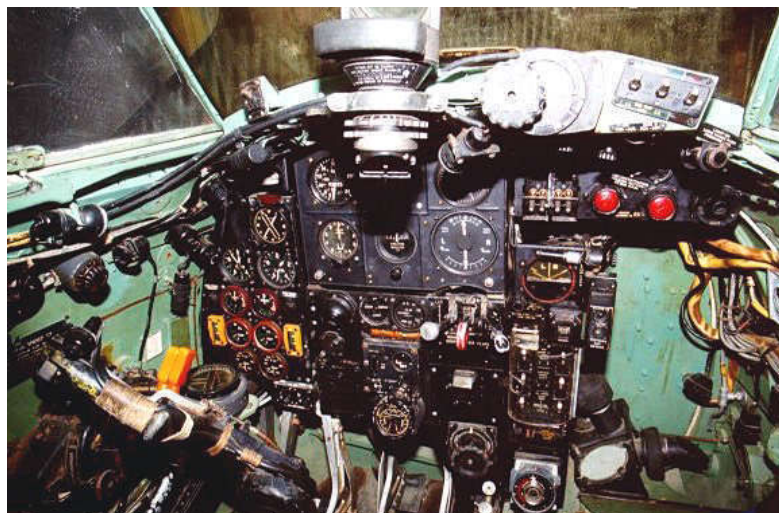
1. Clock
2. Airspeed indicator
3. Artificial horizon
4. Directional gyro
5. Rate-of-climb indicator
6. Radio altimeter
7. Altimeter
8. Turn and bank indicator
9. Homing indicator
10. Free air temperature gage
11. Radio compass
12. Left engine manifold pressure gage
13. Right engine manifold pressure gage
14. Left engine tachometer
15. Right engine tachometer
16. Left engine fuel pressure gage
17. Right engine fuel pressure gage
18. Suction gage
19. Gear brakes lever
20. Left engine coolant temperature gage
21. Right engine coolant temperature gage
22. Left engine oil pressure gage
23. Right engine oil pressure gage
24. Left engine oil temperature gage
25. Right engine oil temperature gage
26. Elevator trim wheel
27. Rudder trim wheel
28. Left tank fuel gage
29. Right tank fuel gage
30. Left propeller pitch lever
31. Right propeller pitch lever
32. Mixture lever: rear - leaner mixture
front - richer mixture
33. Throttle
34. Flaps lever
35. Landing gear lever
36. Aileron trim wheel

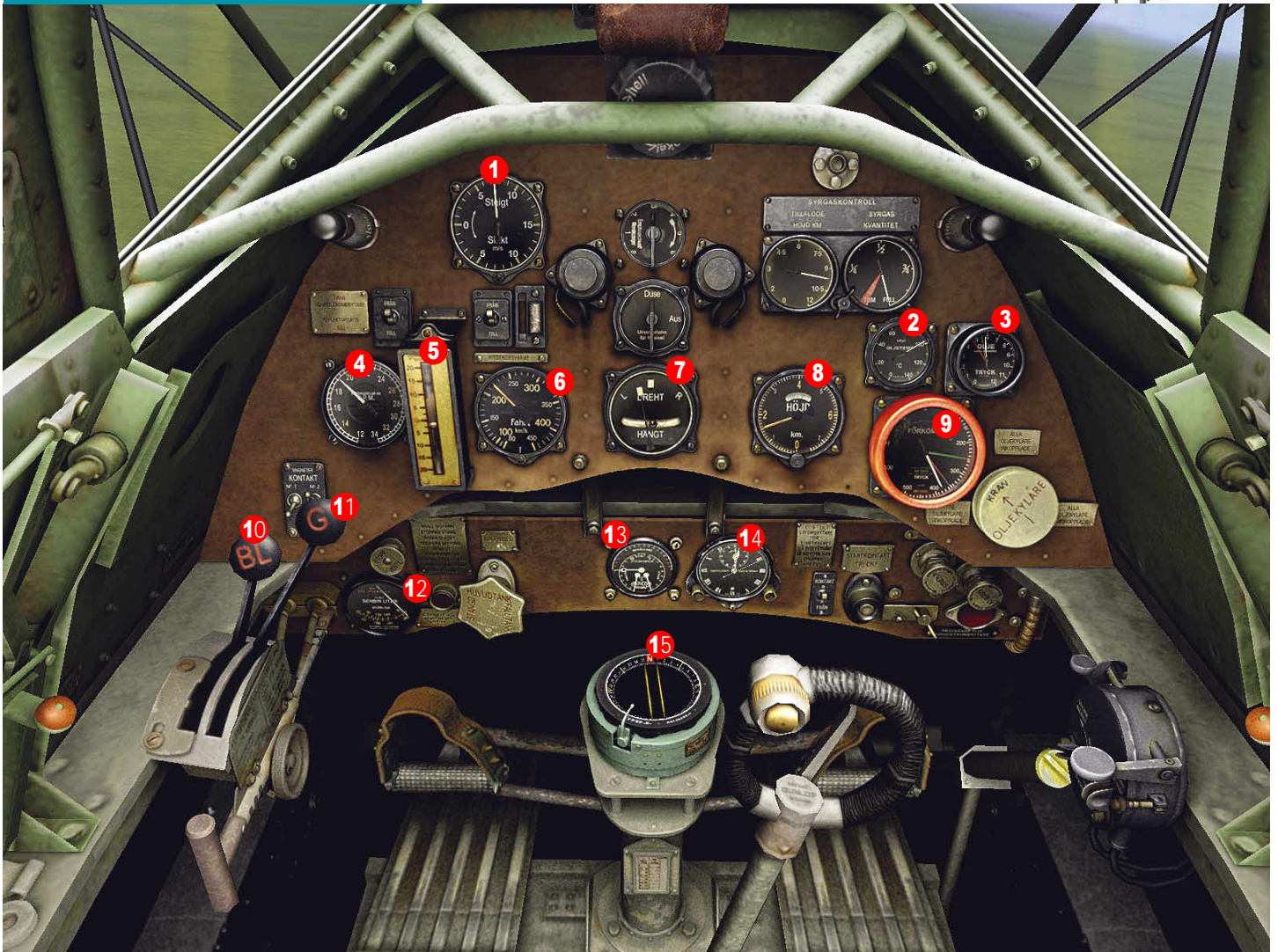


De Havilland Mosquito FB. Mk. VI



1. Airspeed indicator
2. Artificial horizon
3. Rate-of-climb indicator
4. Rudder trim wheel & indicator
5. Remote indicating compass
6. Altimeter
7. Directional gyro
8. Turn and bank indicator
9. Left **engine tachometer**
10. Right **engine tachometer**
11. Left engine low fuel press warning light
12. Left engine manifold gage
13. Right engine manifold gage
14. Right engine low fuel press warning light
15. Landing gear position indicator
16. Flaps position indicator
17. Bomb doors lever
18. Landing gear lever
19. Flaps lever
20. Left engine oil pressure gage
21. Front engine oil temperature gage
22. Right engine oil temperature gage
23. Right engine oil pressure gage
24. Left engine coolant temperature gage
25. Right engine coolant temperature gage
26. Gear brakes lever
27. Magnetic compass
28. Aileron trim indicator
29. Aileron trim wheel





1. Rate-of-climb indicator
2. Oil temperature gage
3. Oil pressure gage
4. Tachometer
5. Pitch inclinometer
6. Airspeed indicator
7. Turn and bank indicator
8. Altimeter
9. Manifold pressure gage
10. Mixture lever: rear position - leaner mixture
front position - richer mixture
11. Throttle
12. Fuel gage
13. Brakes triple pressure gage: storage cylinder (top)
left & right brakes (bottom)
14. Clock
15. Magnetic compass



J8A (http://surfcity.kund.dalnet.se/gladiaator_sweden.htm)





1. Landing gear **position: green - down**
no light - transition
red - up
2. Tachometer
3. Airspeed indicator
4. Artificial horizon
5. Rate-of-climb indicator
6. Manifold pressure gage
7. Altimeter
8. Directional gyro
9. Turn and bank indicator
10. Fuel pressure gage
11. Fuel gage
12. Oil temperature gage
13. Coolant temperature gage
14. Magnetic compass
15. Propeller pitch lever
16. Throttle
17. Radiator flap position indicator
18. Landing gear / flaps lever

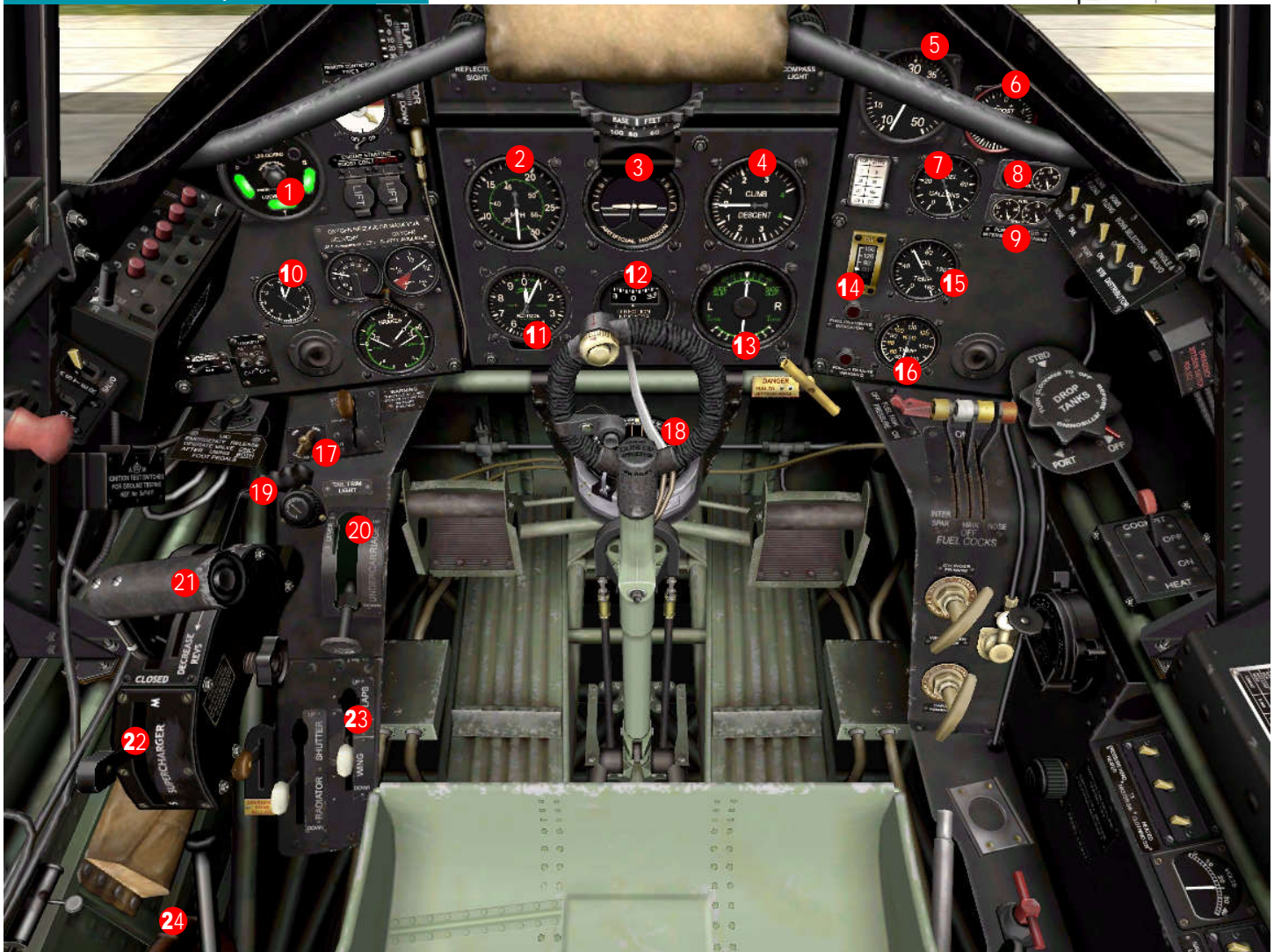


Hurri MkII (new zealand Fighter Pilots Museum, <http://www.nzfpm.co.nz>)

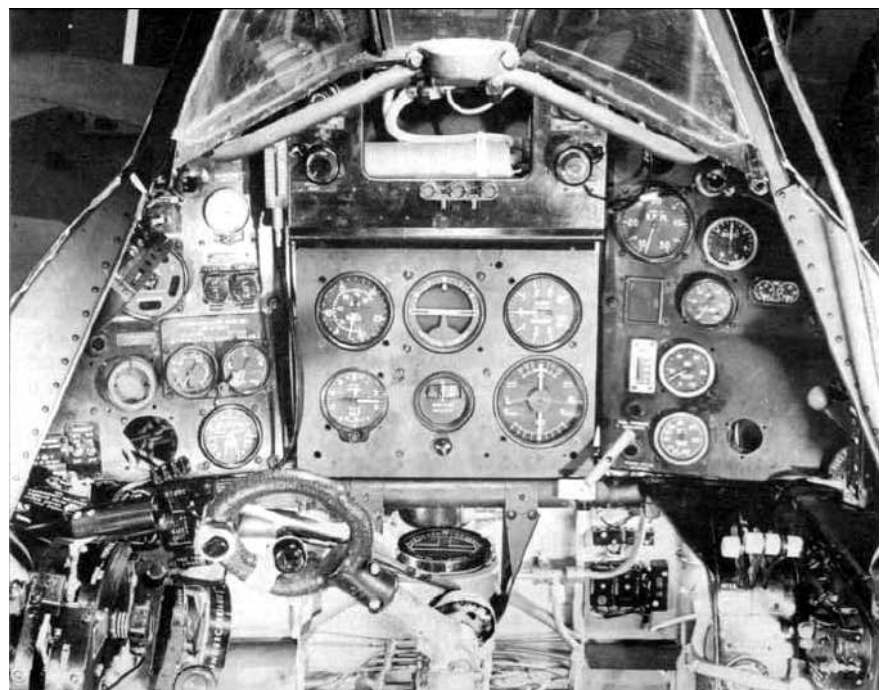


Hurri XII (<http://www.historicalaircraftcollection.ltd.uk/>)





1. Landing gear position indicator: green - down
no light - transition
red - up
2. Airspeed indicator
3. Artificial horizon
4. Rate-of-climb indicator
5. Tachometer
6. Manifold pressure gage
7. Fuel gage (main tank)
8. Fuel gage (nose tank)
9. Fuel gage (wing tanks)
10. Clock
11. Altimeter
12. Directional gyro
13. Turn and bank indicator
14. Oil pressure gage
15. Oil temperature gage
16. Coolant temperature gage
17. Landing light switch
18. Magnetic compass
19. Propeller pitch lever
20. Landing gear lever
21. Throttle
22. Supercharger lever - up: stage 1
down: stage 2
23. Flaps lever
24. Elevator trim wheel

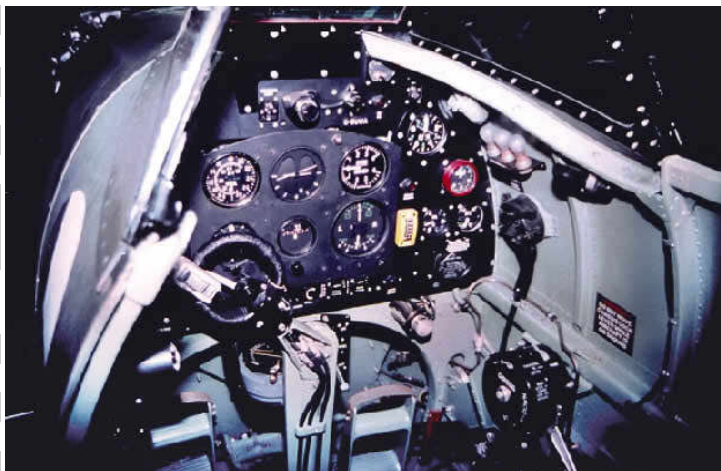


Tempest V (<http://www.ww2aircraft.net/>)





1. Flaps lever
2. Airspeed indicator
3. Artificial horizon
4. Rate-of-climb indicator
5. Tachometer
6. Clock
7. Landing gear position indicator: down - down
no light - transition
up - up
8. Arresting hook indicator light: no light - up
green - down
9. Elevator trim indicator
10. Altimeter
11. Directional gyro
12. Turn and bank indicator
13. Low fuel warning light
14. Manifold pressure gage
15. Oil pressure gage
16. Oil temperature gage
17. Coolant temperature gage
18. Fuel gage
19. Throttle
20. Propeller pitch lever
21. Magnetic compass
22. Gear brakes lever
23. Landing gear lever
24. Elevator trim wheel
25. Rudder trim wheel
26. Arrester hook lever



Seafire MkIII (<http://www.fleetairmarchive.net/Aircraft/Seafire.htm>)



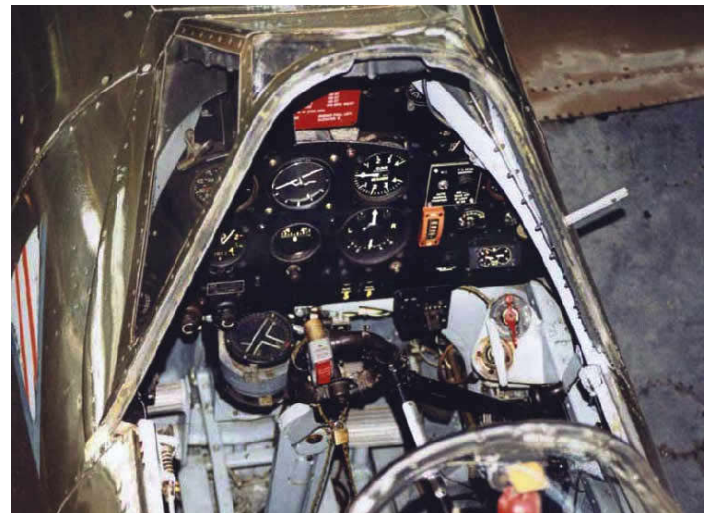


- 1. Flaps lever
- 2. Airspeed indicator
- 3. Artificial horizon
- 4. Rate-of-climb indicator
- 5. Tachometer
- 6. Clock
- 7. Landing gear position indicator: down - down
no light - transition
up - up
- 8. Elevator trim indicator
- 9. Altimeter
- 10. Directional gyro
- 11. Turn and bank indicator
- 12. Low fuel warning light
- 13. Manifold pressure gage
- 14. Oil pressure gage
- 15. Oil temperature gage
- 16. Coolant temperature gage
- 17. Fuel gage
- 18. Throttle
- 19. Propeller pitch lever
- 20. Gear brakes lever
- 21. Magnetic compass
- 22. Landing gear lever
- 23. Elevator trim wheel
- 24. Rudder trim wheel



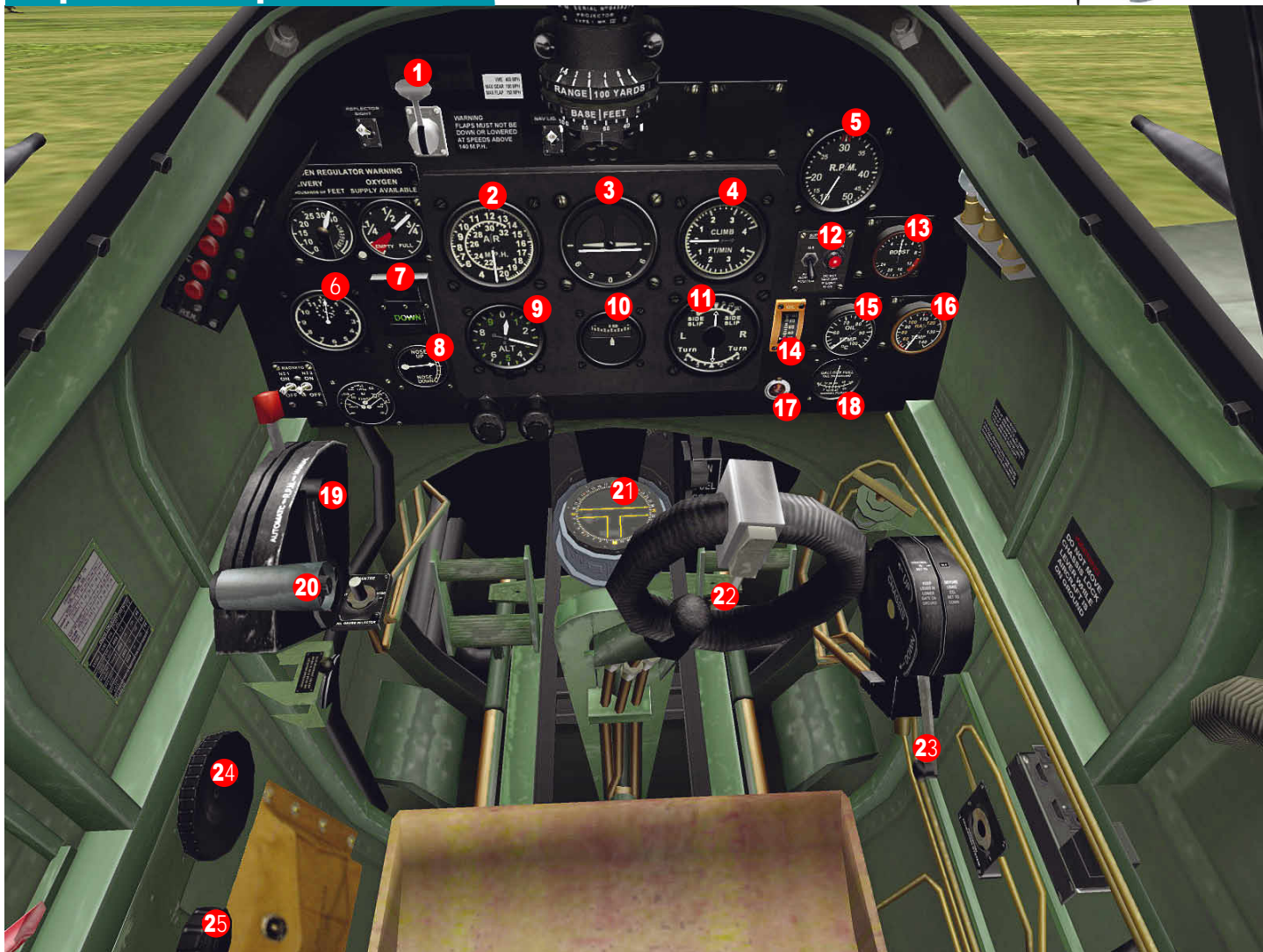


1. Flaps lever
2. Airspeed indicator
3. Artificial horizon
4. Rate-of-climb indicator
5. Tachometer
6. Landing gear **position indicator: down - down**
no light - transition
up - up
7. Elevator trim indicator
8. Altimeter
9. Directional gyro
10. Turn and bank indicator
11. Supercharger warning light
12. Manifold pressure gage
13. Oil pressure gage
14. Oil temperature gage
15. Coolant temperature gage
16. Fuel gage
17. **Throttle**
18. **Propeller pitch lever**
19. Magnetic compass
20. Gear brakes lever
21. Landing gear lever
22. Elevator trim wheel
23. Rudder trim wheel

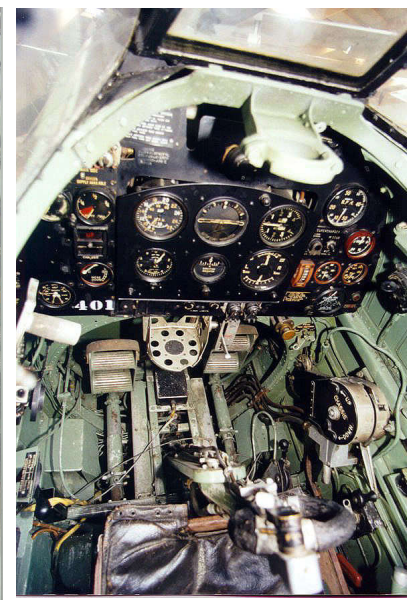


Spitfire (©Jan Jansky <http://www.valka.cz/galerie/thumbnails.php?album=19&page=30>)





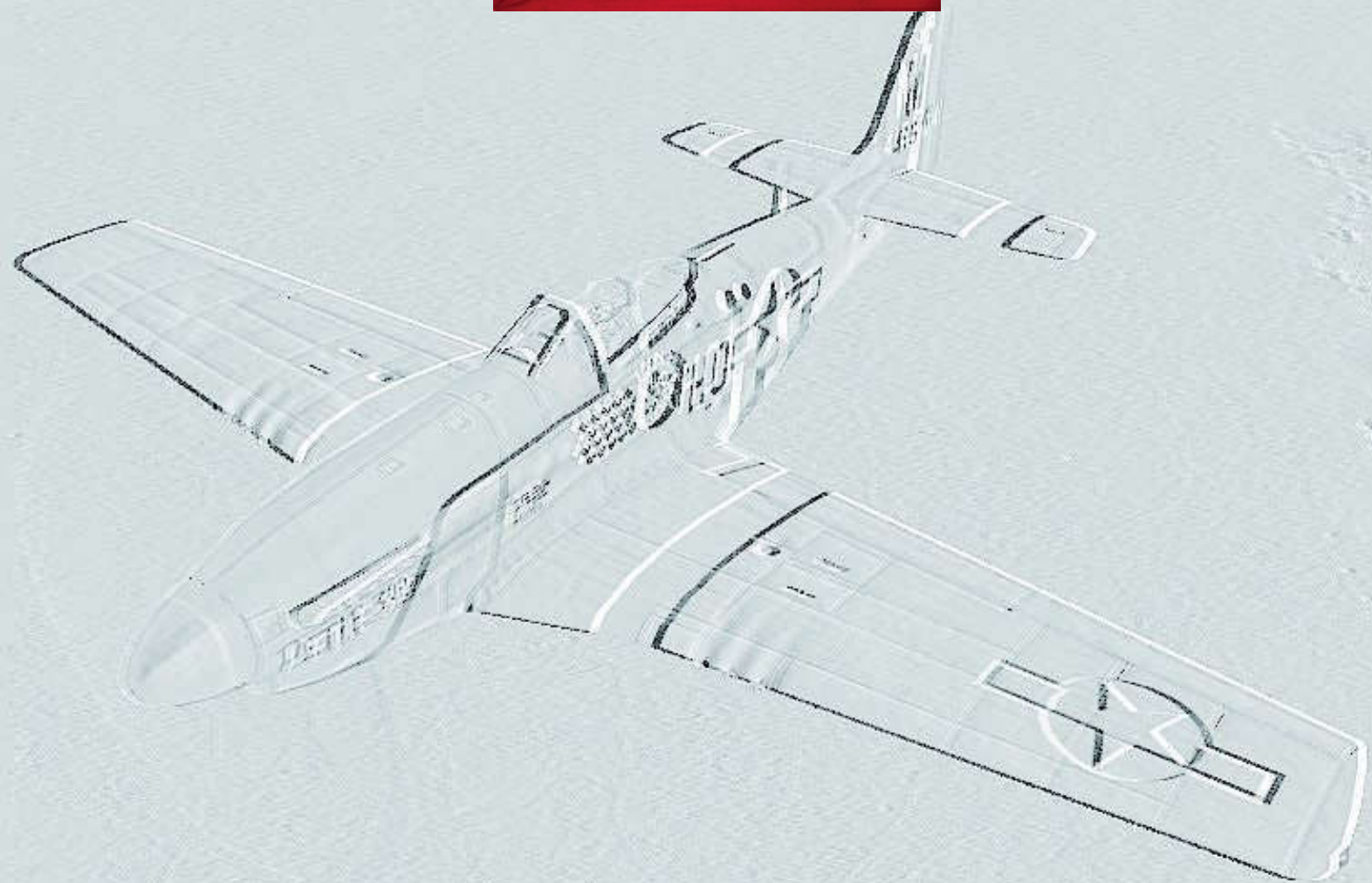
1. Flaps lever
2. Airspeed indicator
3. Artificial horizon
4. Rate-of-climb indicator
5. Tachometer
6. Clock
7. Landing gear position indicator: down - down
no light - transition
up - up
8. Elevator trim indicator
9. Altimeter
10. Directional gyro
11. Turn and bank indicator
12. Supercharger warning light
13. Manifold pressure gage
14. Oil pressure gage
15. Oil temperature gage
16. Coolant temperature gage
17. Low fuel warning light
18. Fuel gage
19. Propeller pitch lever
20. Throttle
21. Magnetic compass
22. Gear brakes lever
23. Landing gear lever
24. Elevator trim wheel
25. Rudder trim wheel

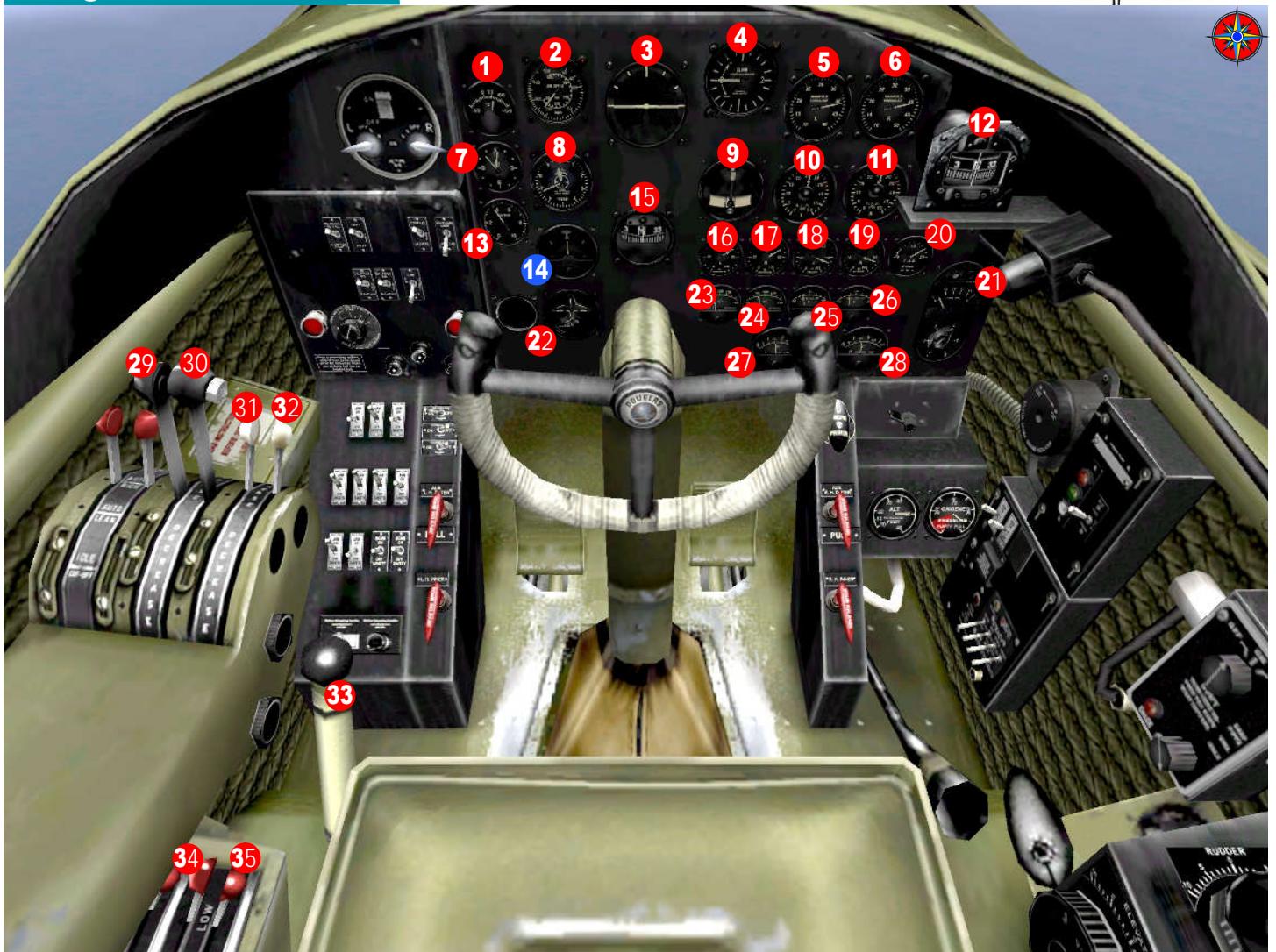


Spitfire Mk IX (<http://aircraftwalkaround.hobbyvista.com/spitfire/spitfire.htm>)

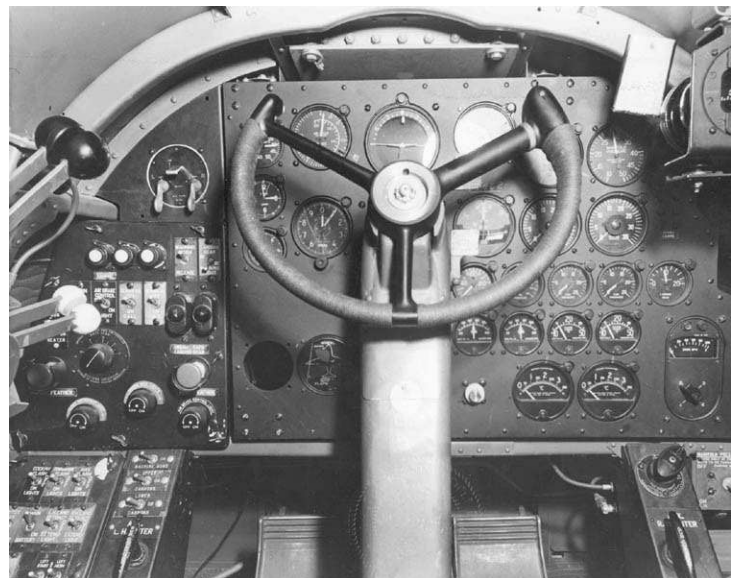


UNITED STATES OF AMERICA

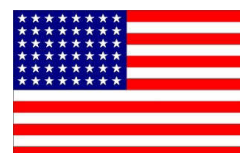


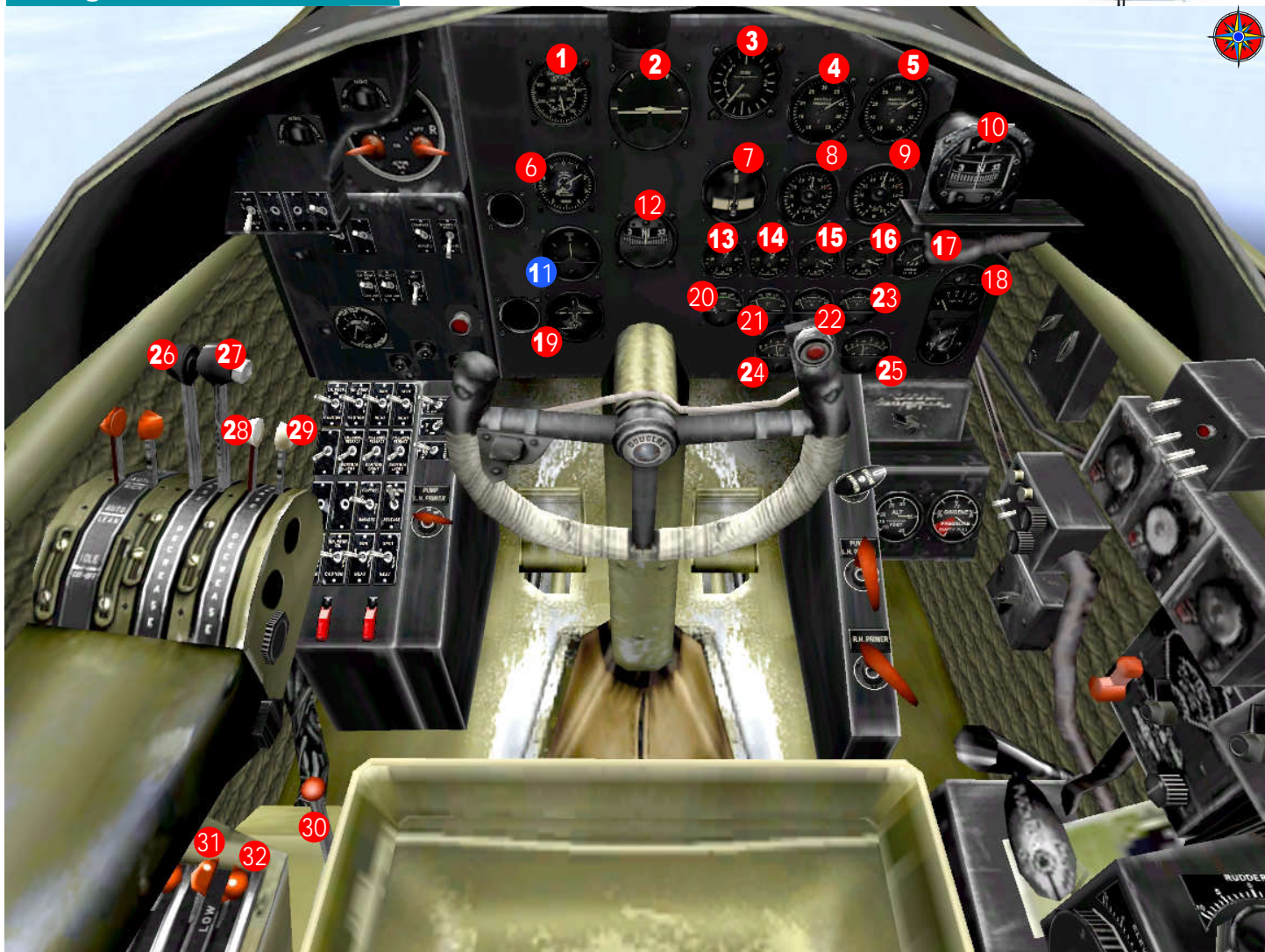
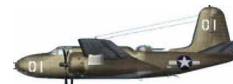


1. Free air temperature gage
2. Airspeed indicator
3. Artificial horizon
4. Rate-of-climb indicator
5. Left engine manifold pressure gage
6. Right engine manifold pressure gage
7. Clock
8. Altimeter
9. Turn and bank indicator
10. Left engine tachometer
11. Right engine tachometer
12. Magnetic compass
13. Suction gage
14. Homing indicator
15. Directional gyro
16. Left engine oil pressure gage
17. Right engine oil pressure gage
18. Left engine fuel pressure gage
19. Right engine fuel pressure gage
20. Hydraulic pressure gage
21. Fuel gage
22. Flaps and gear position indicator
23. Left engine oil temperature gage
24. Right engine oil temperature gage
25. Left engine carburetor air temperature gage
26. Right engine carburetor air temperature gage
27. Left engine cylinder head temperature gage
28. Right engine cylinder head temperature gage
29. Left engine throttle
30. Right engine throttle
31. Left engine propeller pitch lever
32. Right engine propeller pitch lever
33. Bomb release lever
34. Left engine supercharger lever
35. Right engine supercharger lever



A-20C (<http://uscockpits.com/Early%20Attack/Early%20Attack.html#A20>)

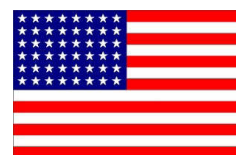




1. **Airspeed indicator**
2. **Artificial horizon**
3. Rate-of-climb indicator
4. **Left engine manifold pressure gage**
5. **Right engine manifold pressure gage**
6. Altimeter
7. Turn and bank indicator
8. Left engine tachometer
9. Right engine tachometer
10. Magnetic compass
11. **Homing indicator**
12. Directional gyro
13. **Left engine oil pressure gage**
14. **Right engine oil pressure gage**
15. **Left engine fuel pressure gage**
16. **Right engine fuel pressure gage**
17. Hydraulic pressure gage
18. Fuel gage
19. Flaps and gear position indicator
20. Left engine oil temperature gage
21. Right engine oil temperature gage
22. Left engine carburetor air temperature gage
23. Right engine carburetor air temperature gage
24. Left engine cylinder head temperature gage
25. Right engine cylinder head temperature gage
26. Left engine throttle
27. Right engine throttle
28. Left engine propeller pitch lever
29. **Right engine propeller pitch lever**
30. Bomb release lever
31. Left engine supercharger lever
32. Right engine supercharger lever



A-20G (<http://www.nationalmuseum.af.mil/photos/index.asp?galleryID=2283>)

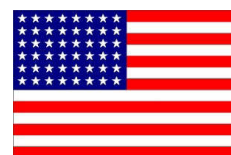




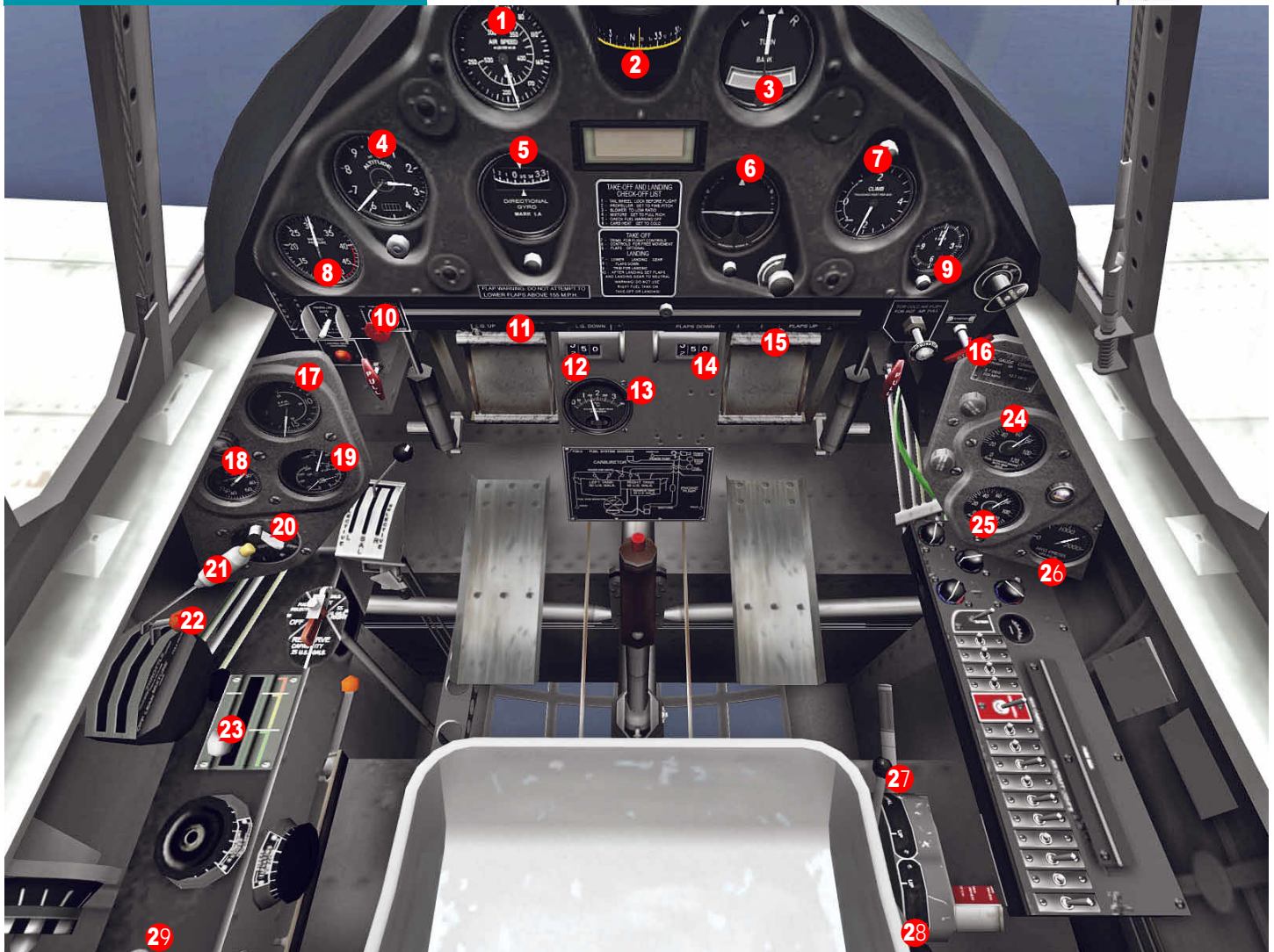
1. Airspeed indicator
2. Turn and bank indicator
3. Magnetic compass
4. Altimeter
5. Directional gyro
6. Artificial horizon
7. Rate-of-climb indicator
8. Manifold pressure gage
9. Clock
10. Landing gear warning light
11. Landing gear position indicator
12. Left fuselage MG ammunition counter
13. Cylinder head temperature gage
14. Homing indicator
15. Right fuselage MG ammunition counter
16. Flaps position indicator
17. Engine gage: oil temperature (top), oil pressure (left), fuel pressure (right)
18. Tachometer
19. Engine ignition & starter switch
20. Throttle
21. Propeller pitch lever
22. Mixture lever: rear position - leaner mixture, front position - richer mixture
23. Tail wheel lock lever (not visible)
24. Elevator trim lever
25. Rudder trim lever
26. Fuel gage (left tank)
27. Fuel gage (right tank)
28. Landing gear lever
29. Flaps lever



B239 (<http://uscockpits.com/Early%20Fighters/F2A-1%20Buffalo.jpg>)

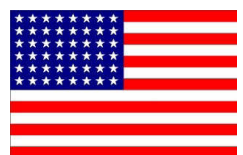
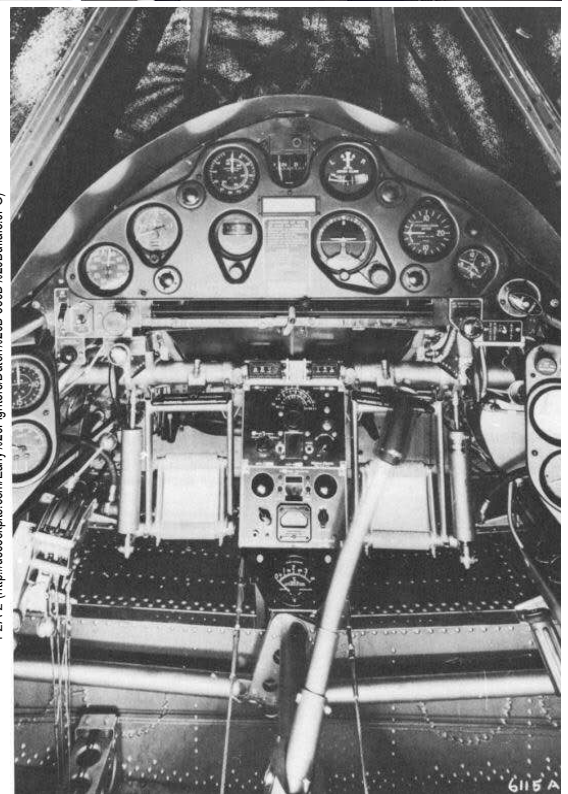


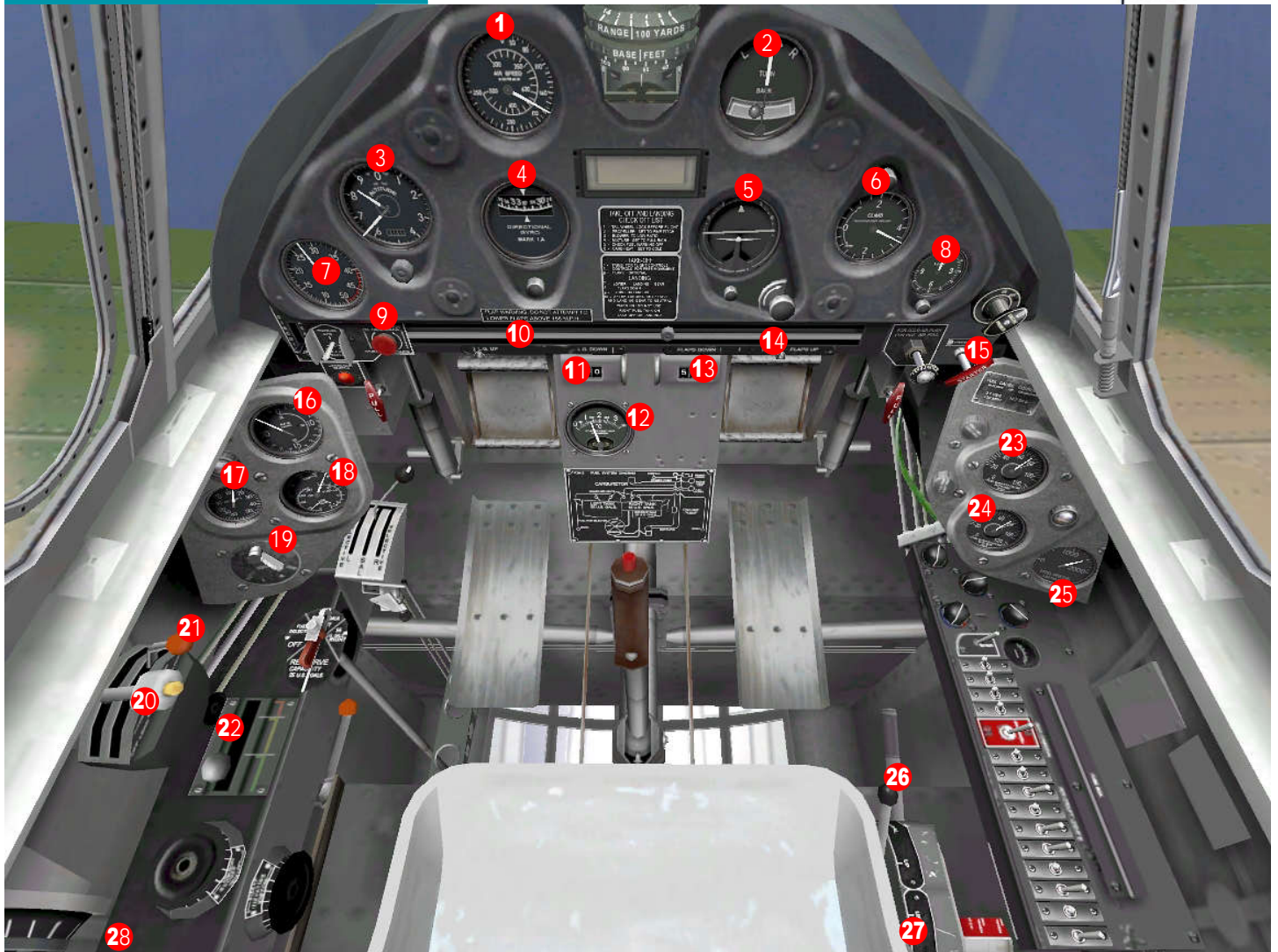
Brewster F2A-2 Buffalo



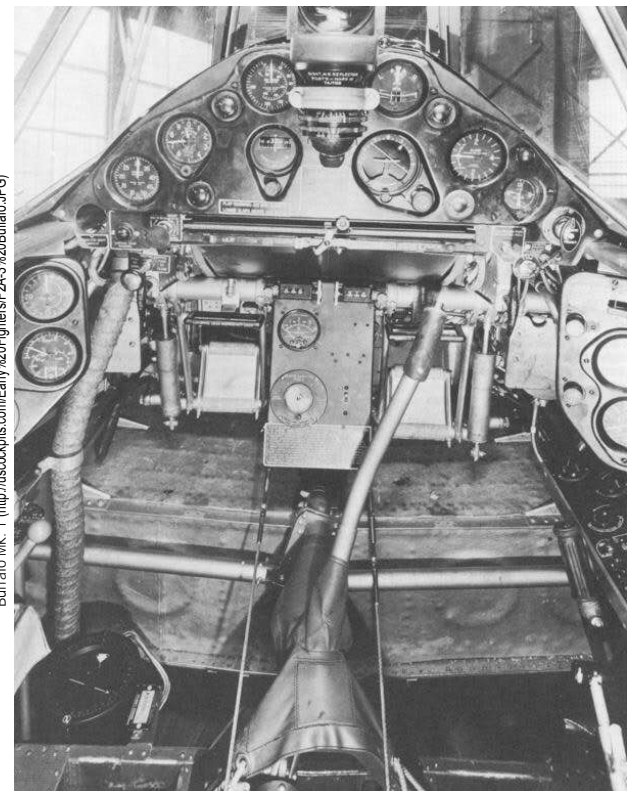
1. Airspeed indicator
2. Magnetic compass
3. Turn and bank indicator
4. Altimeter
5. Directional gyro
6. Artificial horizon
7. Rate-of-climb indicator
8. Manifold pressure gage
9. Clock
10. Propeller pitch lever
11. Landing gear position indicator
12. Left fuselage MG ammunition counter
13. Cylinder head temperature gage
14. Right fuselage MG ammunition counter
15. Flaps position indicator
16. Engine starter
17. Tachometer
18. Free air temperature gage
19. Engine gage: oil temperature (top) - oil pressure (left)
fuel pressure (right)
20. Engine ignition switch
21. Throttle
22. Mixture lever: rear position - leaner mixture
front position - richer mixture
23. Supercharger lever: rear position - stage 1
front position - stage 2
24. Fuel gage (left tank)
25. Fuel gage (right tank)
26. Hydraulic pressure gage
27. Landing gear lever
28. Flaps lever
29. Tail wheel lock lever (not visible)

F2A-2 (<http://uscockpits.com/Early%20Fighters/Dutch%20B-339P%20Buffalo.JPG>)

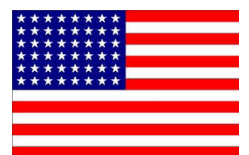


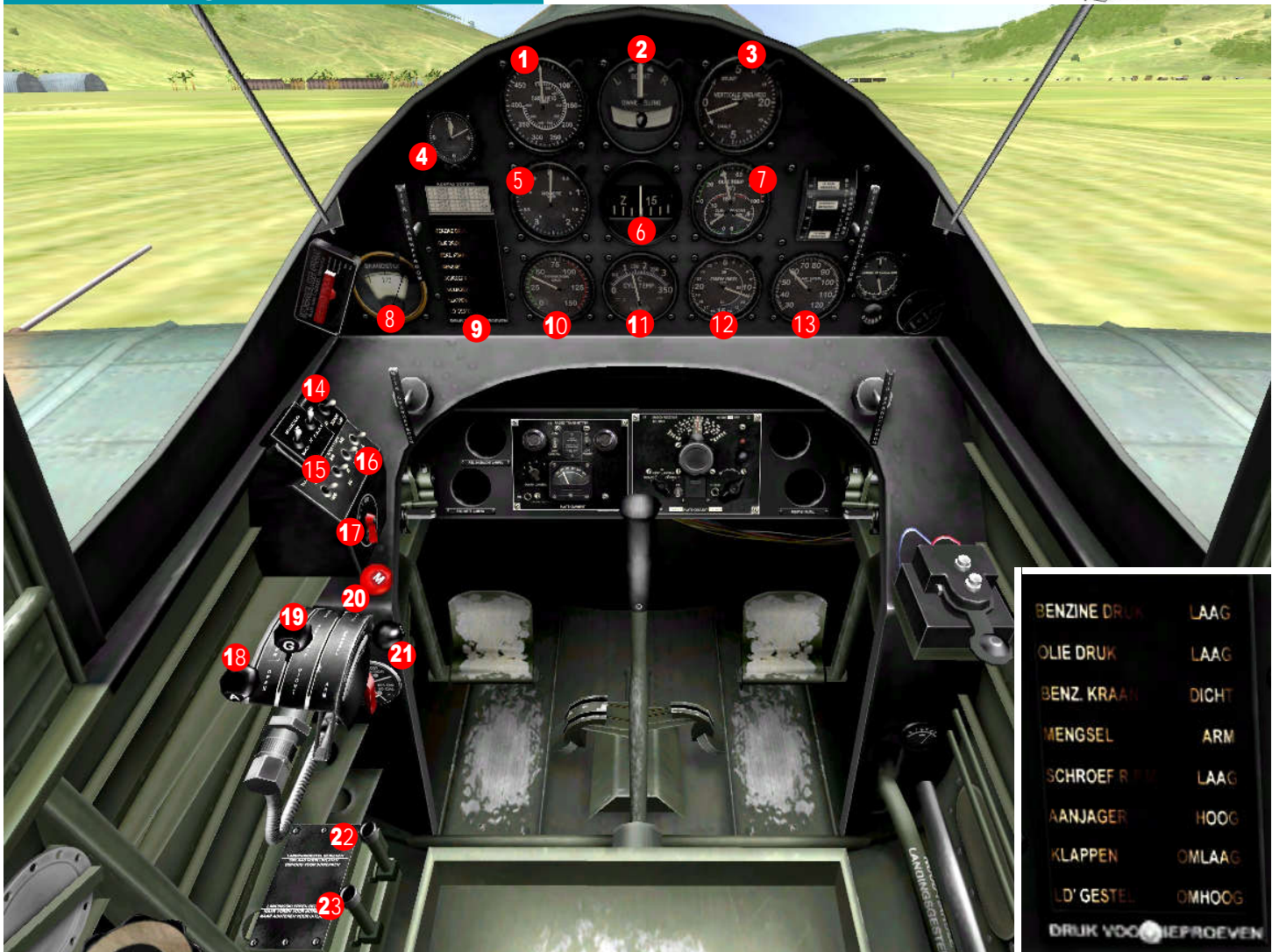


1. **Airspeed indicator**
2. **Turn and bank indicator**
3. **Altimeter**
4. **Directional gyro**
5. **Artificial horizon**
6. **Rate-of-climb indicator**
7. **Manifold pressure gage**
8. **Clock**
9. **Propeller pitch lever**
10. **Landing gear position indicator**
11. **Left fuselage MG ammunition counter**
12. **Cylinder head temperature gage**
13. **Right fuselage MG ammunition counter**
14. **Flaps position indicator**
15. **Engine starter**
16. **Tachometer**
17. **Free air temperature gage**
18. **Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)**
19. **Engine ignition switch**
20. **Throttle**
21. **Mixture lever: rear position - leaner mixture
front position - richer mixture**
22. **Supercharger lever: rear position - stage 1
front position - stage 2**
23. **Fuel gage (left tank)**
24. **Fuel gage (right tank)**
25. **Hydraulic pressure gage**
26. **Landing gear lever**
27. **Flaps lever**
28. **Tail wheel lock lever (not visible)**



Buffalo Mk. I (<http://uscockpits.com/Early%20Fighters/F2A-3%20Buffalo.JPG>)





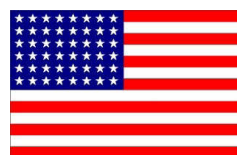
BENZINE DRUK	LAAG
OLIE DRUK	LAAG
BENZ. KRAAN	DICHT
MENGSEL	ARM
SCHROEF RPM	LAAG
AANJAGER	HOOG
KLAPPEN	OMLAAG
LD' GESTEL	OMHOOG
DRUK VOOR OEFENEN	

Warning & indicator lights panel

1. Airspeed indicator
2. Turn and bank indicator
3. Rate-of-climb indicator
4. Clock
5. Altimeter
6. Magnetic compass
7. Engine gage: oil temperature (top), oil pressure (left) - fuel pressure (right)
8. Fuel gage
9. Warning & indicator lights panel:
Fuel pressure "BENZINE DRUK" low "LAAG" (power $\pm 20\%$)
Oil pressure "OLIE DRUK" low "LAAG" (power $\pm 20\%$)
Fuel valve "BENZ. KRAAN" closed "DICHT" (fuel ran out)
Mixture "MENGSEL" poor "ARM" (lean)
Propeller RPM "SCHROEF RPM" low "LAAG" (pitch $< 10\%$)
Supercharger "AANJAGER" high "HOOG" (stage 2)
Flaps "KLAPPEN" down "OMLAAG" (from combat position)
Landing gear "LD' GESTEL" up "OMHOOG"
10. Hydraulic pressure gage
11. Cylinder head temperature gage
12. Tachometer
13. Manifold pressure gage
14. Instrument light switch
15. Position lights switch
16. Landing light switch
17. Engine ignition switch
18. Supercharger lever: rear position - stage 1
front position - stage 2
19. Throttle
20. Mixture lever: rear position - leaner mixture
front position - richer mixture
21. Propeller pitch lever
22. Landing gear lever
23. Flaps lever



CW-21B (<http://www.pprune.org/>)



North American B-25J-1-NA Mitchell

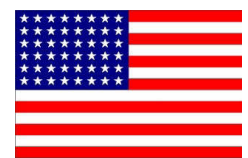


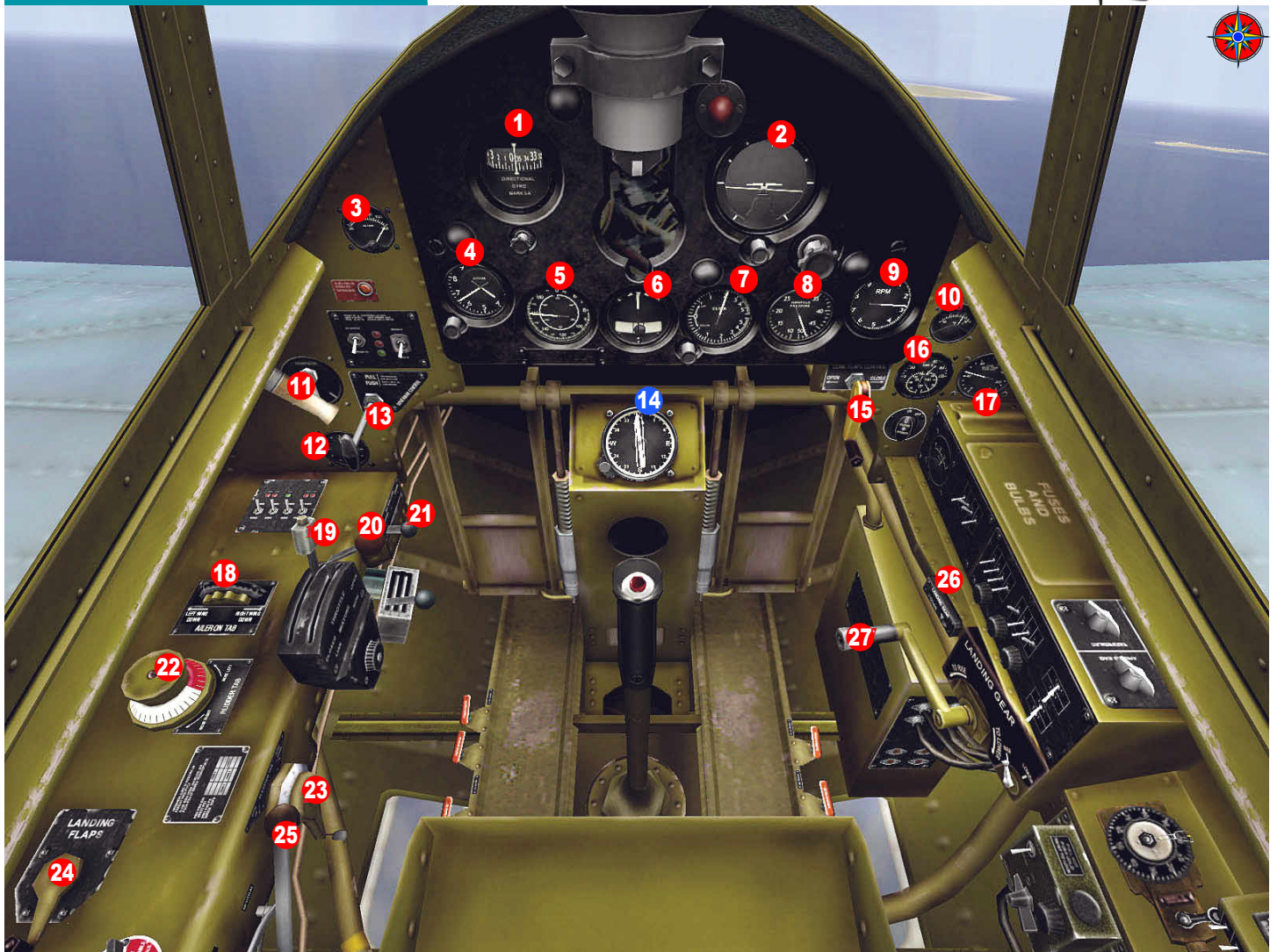
1. **Radio compass**
2. **Remote indicating compass**
3. **Manifold pressure gage for left/right engine**
4. **Tachometer for left/right engine**
5. **Fuel gage (auxiliary tank)**
6. Landing gear **position indicator: green-down red-in transition no light-up**
7. **Airspeed indicator**
8. **Directional gyro**
9. **Artificial horizon**
10. **Suction gage**
11. **Fuel pressure gage for left/right engine**
12. **Oil pressure gage for left/right engine**
13. **Altimeter**
14. **Turn and bank indicator**
15. **Rate-of-climb indicator**
16. **ILS indicator**
17. **Clock**
18. **Carburetor air temperature gage for left/right engine**
19. **Cylinder head temperature gage for left/right engine**
20. **Oil temperature gage for left/right engine**
21. **Free air temperature gage**
22. **Fuel gage (front tanks)**
23. **Fuel gage (rear tanks)**
24. **Flaps and landing gear position indicator**
25. **Left engine throttle**
26. **Right engine throttle**
27. **Left side propeller pitch lever**
28. **Right side propeller pitch lever**
29. **Left engine supercharger lever: down position - stage 1 up position - stage 2**
30. **Right engine supercharger lever: down position - stage 1 up position - stage 2**
31. **Flaps lever**



B-25J (<http://uscockpits.com/Early%20Bombers/B-25J%20Mitchell.jpg>)

32. **Right engine radiator lever: rear position - closed front position - open**
33. **Left engine radiator lever: rear position - closed front position - open**
34. **Landing gear lever**





1. Directional gyro
2. Artificial horizon
3. Engine oil temperature gage
4. Altimeter
5. Airspeed indicator
6. Turn and bank indicator
7. Rate-of-climb indicator
8. Manifold pressure gage
9. Tachometer
10. Outside temperature gage
11. Arrester hook lever
12. Clock
13. Propeller pitch lever
14. Remote indicating compass
15. Radiator handle
16. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
17. Fuel gage
18. Aileron trim wheel
19. Throttle
20. Mixture lever
21. Tail wheel lock lever: front position - locked
rear position - unlocked
22. Rudder trim wheel
23. Elevator trim lever
24. Flaps lever
25. Supercharger lever: front position - stage 1
middle position - stage 2
rear position - stage 3
26. Landing gear position indicator
27. Landing gear handle

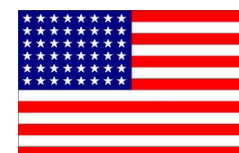
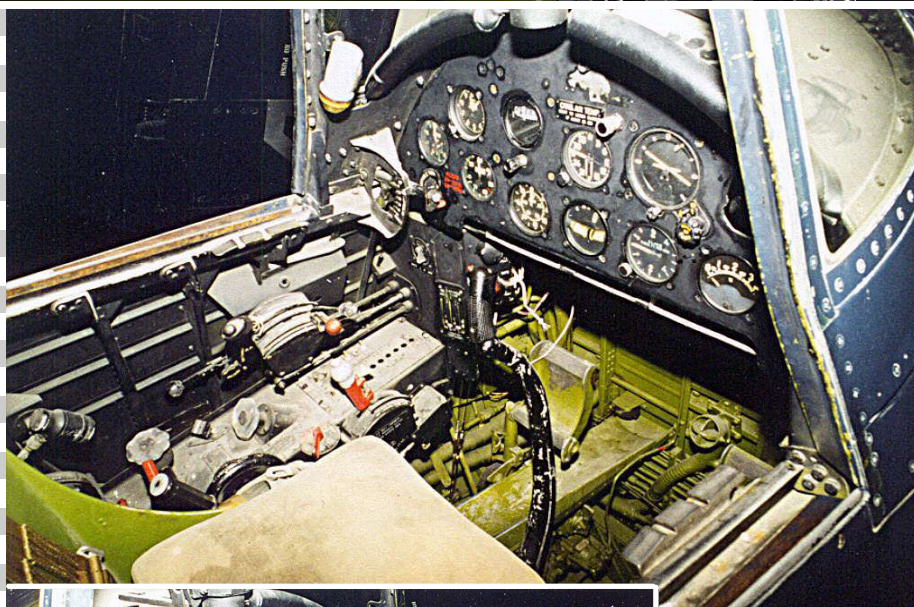


F4F (www.warbirdsourcegroup.org/NARF/wildcat.html)





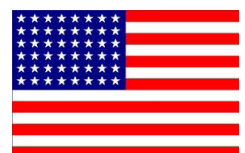
1. Water injection (ADI) warning light
2. Stall warning light
3. Altimeter
4. Directional gyro
5. Remote indicating compass
6. Artificial horizon
7. Clock
8. Oil temperature gage
9. Tachometer
10. Manifold pressure gage
11. Airspeed indicator
12. Turn and bank indicator
13. Rate-of-climb indicator
14. Cylinder head temperature gage
15. Oil pressure gage
16. Fuel pressure gage
17. Fuel gage
18. Hydraulic pressure gage
19. Voltmeter
20. Fuel tank pressure gage
21. Cooling flaps levers
22. Flaps lever
23. Landing gear / Dive brake position indicator
24. Throttle
25. Mixture lever
26. Supercharger lever
27. Landing gear / Dive brake lever
28. Propeller pitch lever
29. Aileron trim wheel
30. Elevator trim wheel
31. Rudder trim wheel
32. Wing fold lever
33. Arrester hook lever





1. Clock
2. Directional gyro
3. Remote indicating compass
4. Artificial horizon
5. Tachometer
6. Altimeter
7. Airspeed indicator
8. Turn and bank indicator
9. Rate-of-climb indicator
10. Manifold pressure gage
11. Flaps and landing gear position indicator
12. Landing gear lever
13. Ammunition counter
14. Fuel gage
15. Engine temperature gage
16. Oil-in temperature gage
17. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
18. Rudder trim wheel
19. Elevator trim wheel
20. Radiator levers
21. Propeller pitch lever
22. Throttle
23. Supercharger lever: front position - stage 1
middle position - stage 2
rear position - stage 3
24. Mixture lever: rear position - 100%
front position - 120%
25. Flaps switch

F6F3 (http://www.thescalemodeler.com/publish/Hellcat-Cockpit-photos.shtml)

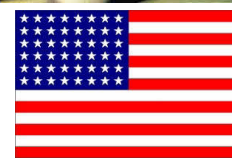


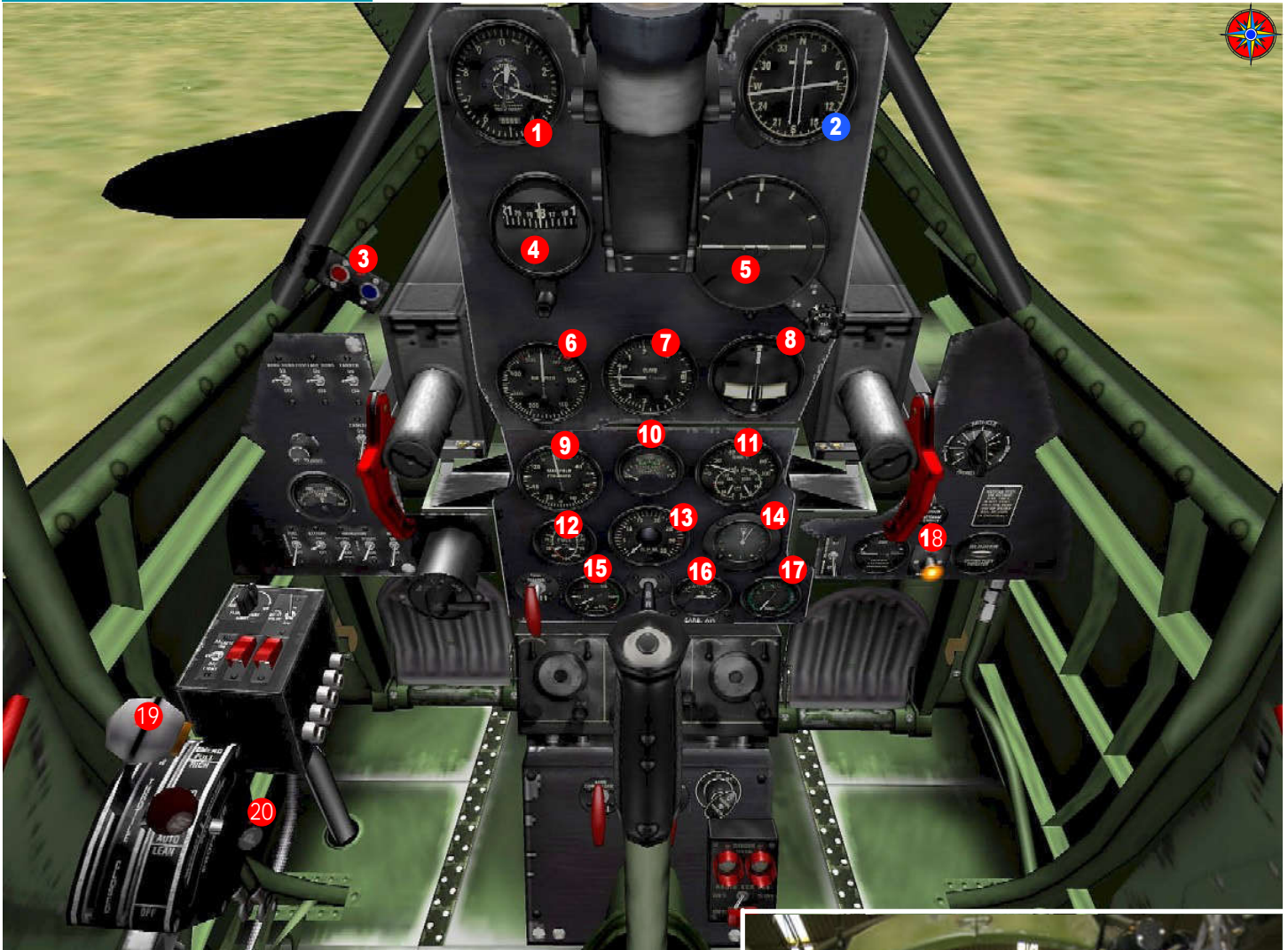


1. Clock
2. Remote indicating compass
3. Directional gyro
4. Artificial horizon
5. Manifold pressure gage for left & right engine
6. Tachometer for left & right engine
7. Coolant temperature gage for left & right engine
8. Fuel gage (reserve front tank)
9. Altimeter
10. Airspeed indicator
11. Turn and bank indicator
12. Rate-of-climb indicator
13. Left engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
14. Right engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
15. Carburetor air temperature gage for left and right engine
16. Fuel gage (main rear tank)
17. Hydraulic pressure gage
18. Landing gear position indicator: green - down
no light - in transition
red - up
19. Left engine ammeter
20. Right engine ammeter
21. Flaps lever
22. Left engine propeller pitch lever
23. Right engine propeller pitch lever
24. Left engine throttle
25. Right engine throttle
26. Elevator trim wheel
27. Landing gear lever



P-38 (http://www.flickr.com/photos/jamf_pics/3412045730/)



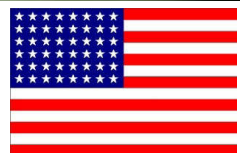


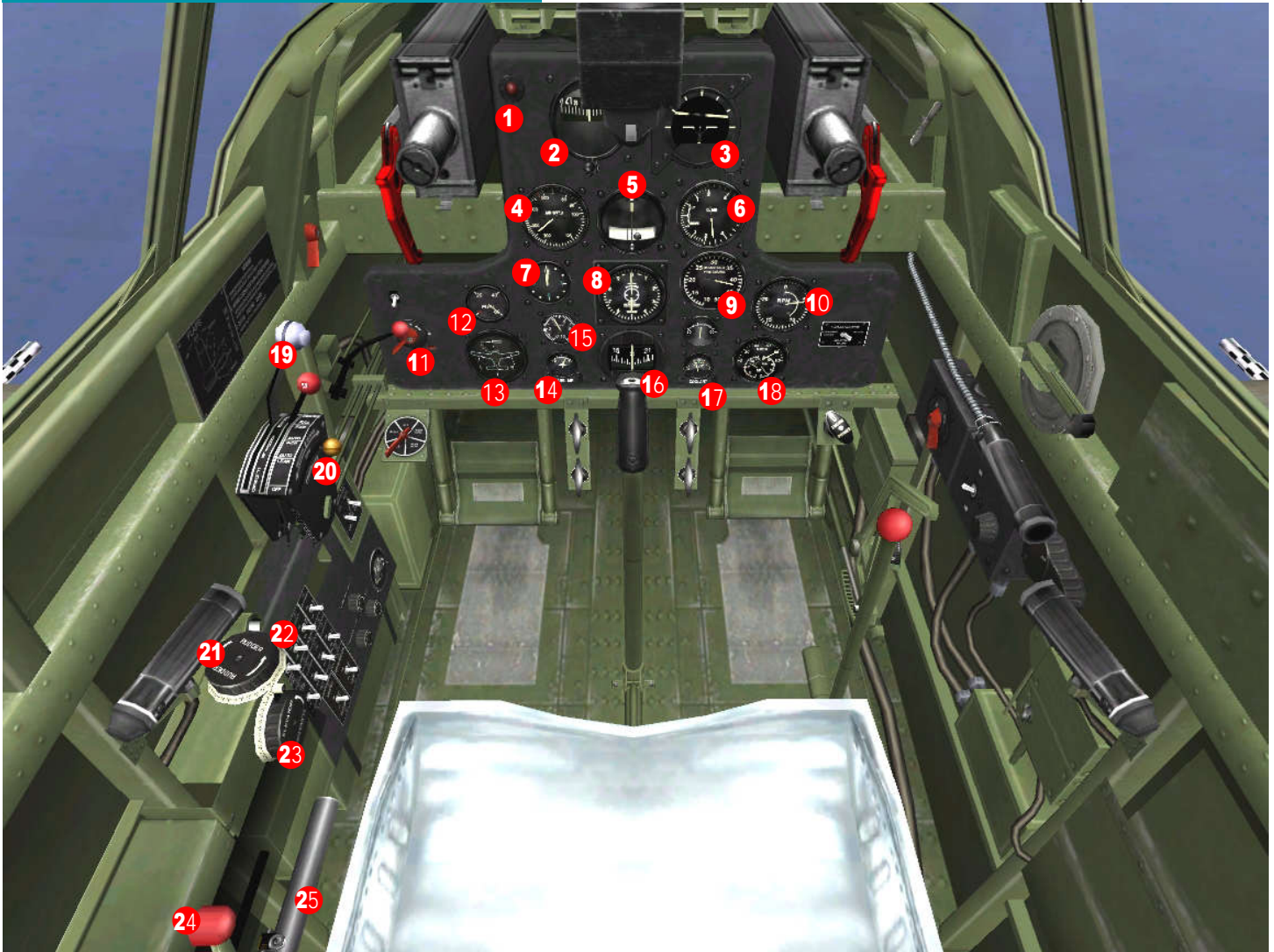
1. Altimeter
2. Remote indicating compass
3. Landing gear warning light (throttle <= 30%)
4. Directional gyro
5. Artificial horizon
6. Airspeed indicator
7. Rate-of-climb indicator
8. Turn and bank indicator
9. Manifold pressure gage
10. Coolant temperature gage
11. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
12. Fuel gage
13. Tachometer
14. Clock
15. Gear box oil pressure gage
16. Carburetor air temperature gage
17. Suction gage
18. Fuel pressure indicator light
19. Throttle
20. Propeller pitch lever

P-39Q (<http://www.flightfactory.com/airplane-gallery/bell-p-39-photos.php>)



P-39Q (<http://www.flightfactory.com/airplane-gallery/bell-p-39-photos.php>)

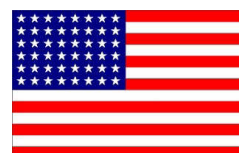




1. Coolant temperature **warning light**
2. Directional gyro
3. **Artificial horizon**
4. **Airspeed indicator**
5. **Turn and bank indicator**
6. Rate-of-climb indicator
7. **Clock**
8. **Altimeter**
9. **Manifold pressure gage**
10. Tachometer
11. Engine ignition switch
12. Fuel gage
13. Flaps and landing gear position indicator
14. Carburetor air temperature gage
15. Suction gage
16. Magnetic compass
17. Coolant temperature gage
18. Engine gage: **oil temperature** (top)
oil pressure (left)
fuel pressure (right)
19. **Throttle**
20. **Propeller pitch** lever
21. Rudder trim wheel
22. Aileron trim electrical switch
23. **Elevator trim wheel**
24. **Flaps lever**
25. Landing gear lever



P-40B (<http://lend-lease.airforce.ru/english/index.htm>)



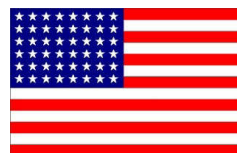


1. Low fuel warning light
2. Directional gyro
3. Artificial horizon
4. Coolant temperature warning light
5. Landing gear failure warning light
6. Turn and bank indicator
7. Airspeed indicator
8. Altimeter
9. Rate-of-climb indicator
10. Manifold pressure gage
11. Carburetor air temperature gage
12. Coolant temperature gage
13. Flaps and landing gear position indicator
14. Clock
15. Tachometer
16. Magnetic compass
17. Oil pressure gage
18. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
19. Position lights switch
20. Instrument light switch
21. Throttle
22. Propeller pitch lever

P-40E (<http://uscockpits.com/Early%20Fighters/P-40%20Warhawk.JPG>)



P-40 Warhawk (<http://uscockpits.com/>)

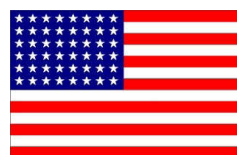
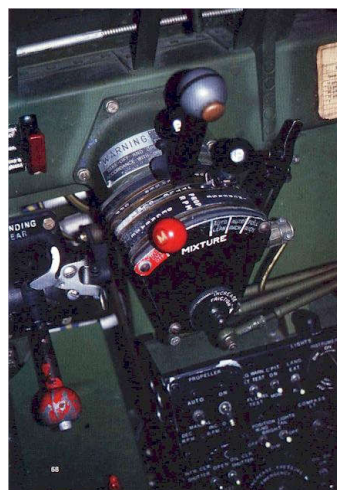




1. Landing gear **position indicator**: green - down
no light - in transition
red - up
2. **Clock**
3. **Directional gyro**
4. **Artificial horizon**
5. **Turbo-supercharger tachometer**
6. **Fuel gage**
7. **Airspeed indicator**
8. **Turn and bank indicator**
9. **Rate-of-climb indicator**
10. **Altimeter**
11. **Engine gage**: oil temperature (top)
oil pressure (left)
fuel pressure (right)
12. **Suction gage**
13. **Magnetic compass**
14. **Manifold pressure gage**
15. **Engine tachometer**
16. **Cylinder head temperature gage**
17. **Accelerometer**
18. **Carburetor air temperature gage**
19. **Water (ADI) pressure gage**
20. **Low fuel warning light**
21. **Throttle**
22. **Propeller pitch lever**
23. **Landing gear lever**
24. **Flaps lever**



P-47D (<http://igeroo.com/line/frcockpit.htm>)





1. Landing gear **position indicator**: green - down
no light - in transition
red - up

2. Clock

3. Directional gyro

4. **Artificial horizon**

5. Carburetor air temperature gage

6. **Airspeed indicator**

7. **Altimeter**

8. **Turn and bank indicator**

9. Rate-of-climb indicator

10. **Magnetic compass**

11. **Manifold pressure gage**

12. Engine **tachometer**

13. Engine gage: oil **temperature** (top)
oil **pressure** (left)
fuel **pressure** (right)

14. Turbo-supercharger tachometer

15. **Accelerometer**

16. Suction gage

17. Water (ADI) pressure gage

18. **Low fuel warning light**

19. **Fuel gage**

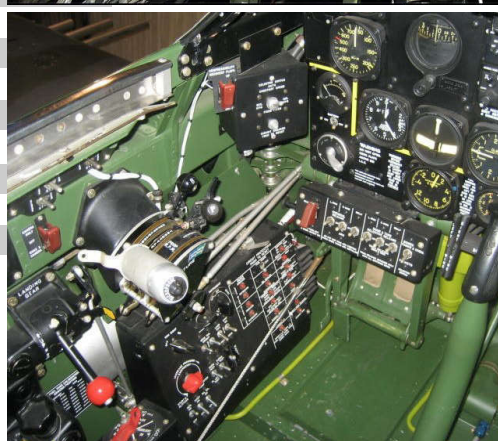
20. Cylinder head **temperature gage**

21. Propeller pitch lever

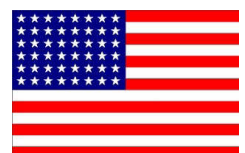
22. Throttle

23. Landing gear lever

24. Flaps lever

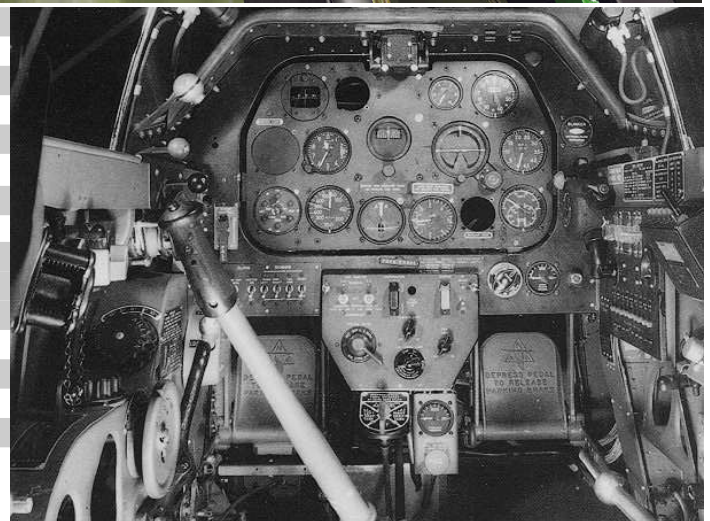


P-47D (<http://www.warcraft.net/>)



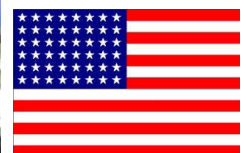


1. Remote indicating compass
2. Clock
3. Suction gage
4. Manifold pressure gage
5. Altimeter
6. Directional gyro
7. Artificial horizon
8. Tachometer
9. Landing gear position indicator: green - down
no light - in transition
red - up
10. Airspeed indicator
11. Turn and bank indicator
12. Rate-of-climb indicator
13. Coolant temperature gage
14. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
15. Supercharger warning light
16. Throttle
17. Propeller pitch lever
18. Rudder trim wheel
19. Aileron trim wheel
20. Elevator trim wheel
21. Landing gear lever
22. Flaps lever
- 23 & 24. Left / Right fuel gage
(3rd fuel gage at left hand side of headrest)

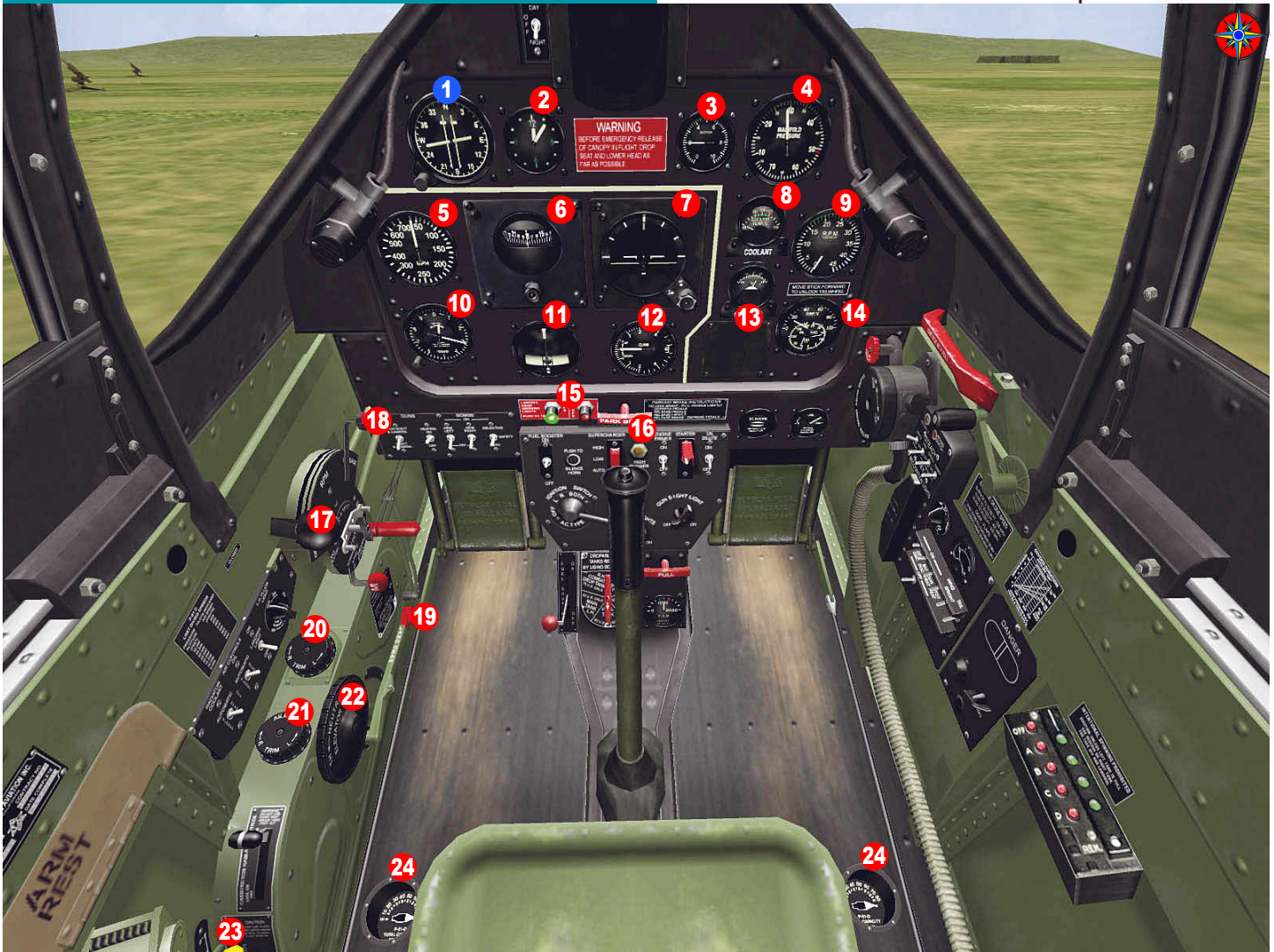


P-51C (<http://www.506thfightergroup.org/p51.asp>)

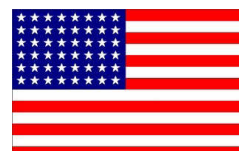
P-51B (<http://uscockpits.com/>)



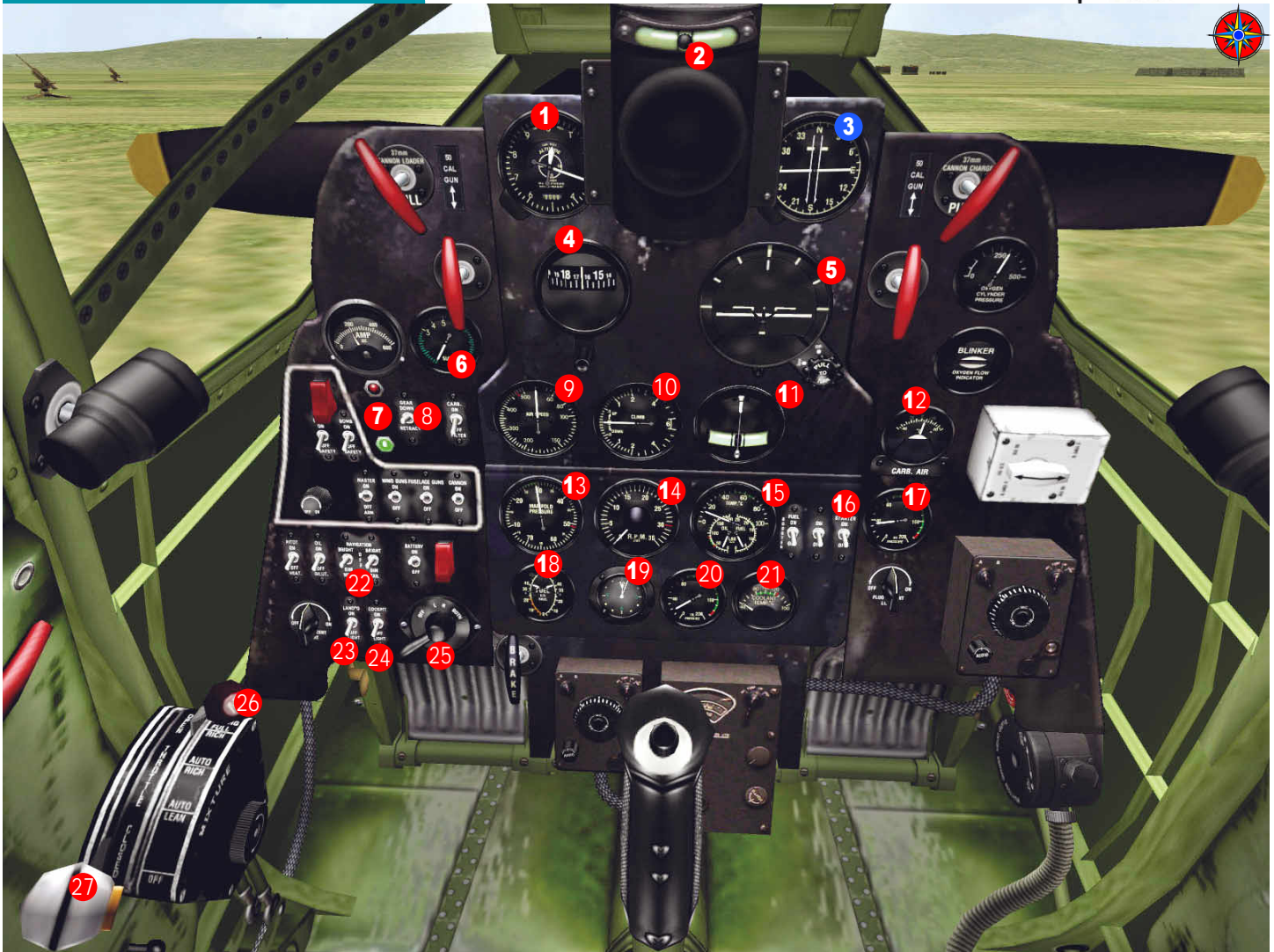
North American P-51D-5-NT Mustang



1. Remote indicating compass
2. Clock
3. Suction gage
4. Manifold pressure gage
5. Airspeed indicator
6. Directional gyro
7. Artificial horizon
8. Coolant temperature gage
9. Tachometer
10. Altimeter
11. Turn and bank indicator
12. Rate-of-climb indicator
13. Carburetor air temperature gage
14. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
15. Landing gear position indicator: green - down
no light - in transition
red - up
16. Supercharger warning light
17. Throttle
18. Propeller pitch lever
19. Landing gear lever
20. Rudder trim wheel
21. Aileron trim wheel
22. Elevator trim wheel
23. Flaps lever
24. Fuel gage (3rd fuel gage at left hand side of headrest)

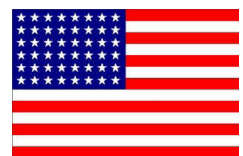


Bell P-63C-5 Kingcobra



1. Altimeter
2. Bank indicator
3. Remote indicating compass
4. Directional gyro
5. Artificial horizon
6. Suction gage
7. Landing gear position indicator: green - down
no light - in transition
red - up
8. Landing gear switch
9. Airspeed indicator
10. Rate-of-climb indicator
11. Turn and bank indicator
12. Carburetor air temperature gage
13. Manifold pressure gage
14. Tachometer
15. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
16. Starter switch
17. Oil system pressure gage
18. Fuel gage
19. Clock
20. Gear box oil pressure gage
21. Coolant temperature gage
22. Position lights switches
23. Landing light switch
24. Cockpit light switch
25. Engine ignition switch
26. Propeller pitch lever
27. Throttle

P-63 (http://www.aventure.de/reno2002/reno02_p63cockpit.jpg)





1. Magnetic compass
2. Tachometer
3. Manifold pressure gage
4. Altimeter
5. Directional gyro
6. Artificial horizon
7. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
8. Airspeed indicator
9. Turn and bank indicator
10. Rate-of-climb indicator
11. Engine ignition switch
12. Radiator lever
13. Clock
14. Cylinder head temperature gage
15. Suction gage
16. Oil temperature gage
17. Fuel gage
18. Engine starter
19. Supercharger lever: rear position - stage 1
front position - stage 2
20. Mixture lever
21. Throttle
22. Propeller pitch lever
23. Bomb release lever
24. Landing gear position indicator
25. Aileron trim wheel
26. Elevator trim wheel
27. Rudder trim wheel
28. Diving flaps lever
29. Flaps lever
30. Landing gear lever
31. Flaps position indicator

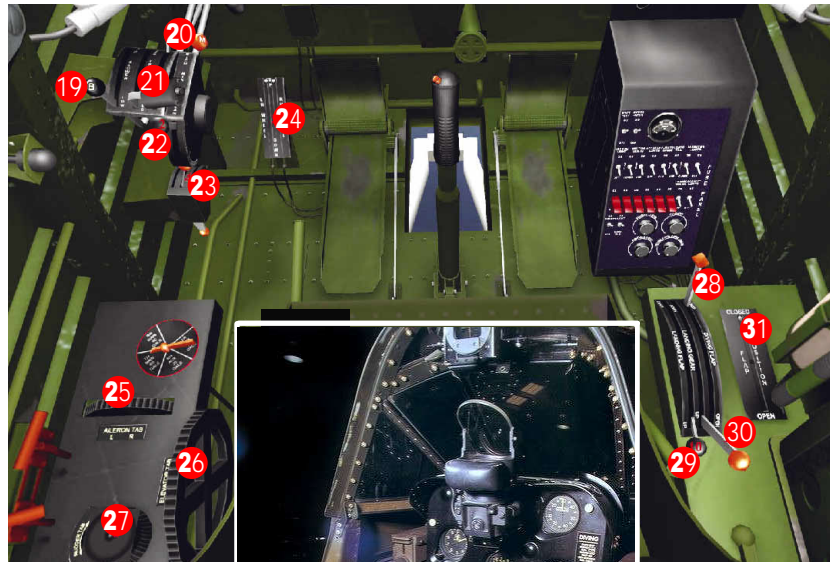
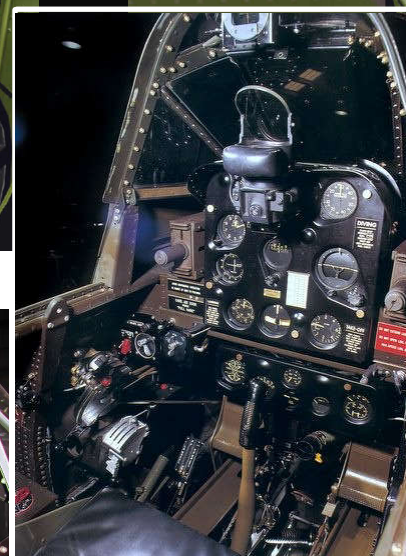
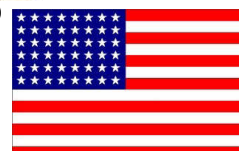


Photo © 2003
Stewart Bailey



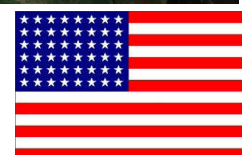
SBD-5 (<http://www.wvivehicles.com/usa/default.asp>)

SBD-3 (<http://uscockpits.com>)





1. K-14 gunsight wingspan selector
2. Landing gear position indicator: green - down
no light - transition
red - up
3. Airspeed indicator
4. Directional gyro
5. Artificial horizon
6. Tachometer
7. Altimeter
8. Turn and bank indicator
9. Rate-of-climb indicator
10. Remote indicating compass
11. Burner ring fuel pressure gage
12. Tailpipe temperature gage
13. Emergency fuel pump indicator lights (total fuel < 50 %)
14. Elevator trim neutral indicator light
15. Clock
16. Fuselage (main) tank fuel gage
17. Fuselage tank low fuel warning light (total fuel reserve \pm 20 %)
18. Engine fire warning light
19. Rear bearing temperature gage
20. Engine oil pressure gage
21. Accelometer
22. Instrument pressure gage
23. Throttle
24. Engine shut-off lever
25. Landing gear lever





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UNION OF SOVIET SOCIALIST REPUBLICS





1. **Airspeed indicator**

2. **Ammeter**

3. **Altimeter**

4. **Turn and bank indicator**

5. **Oil & air pressure gage**

6. **Engine status 1**

7. **Engine status 2**

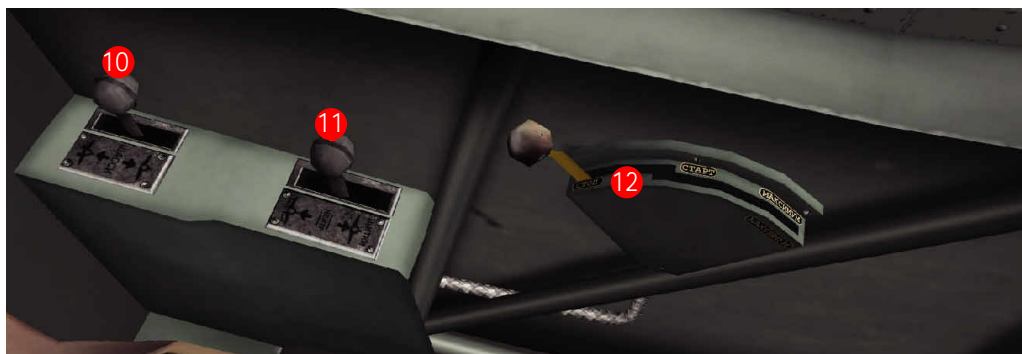
8. **Landing gear position indicator: green - down
no light - transition
red - up**

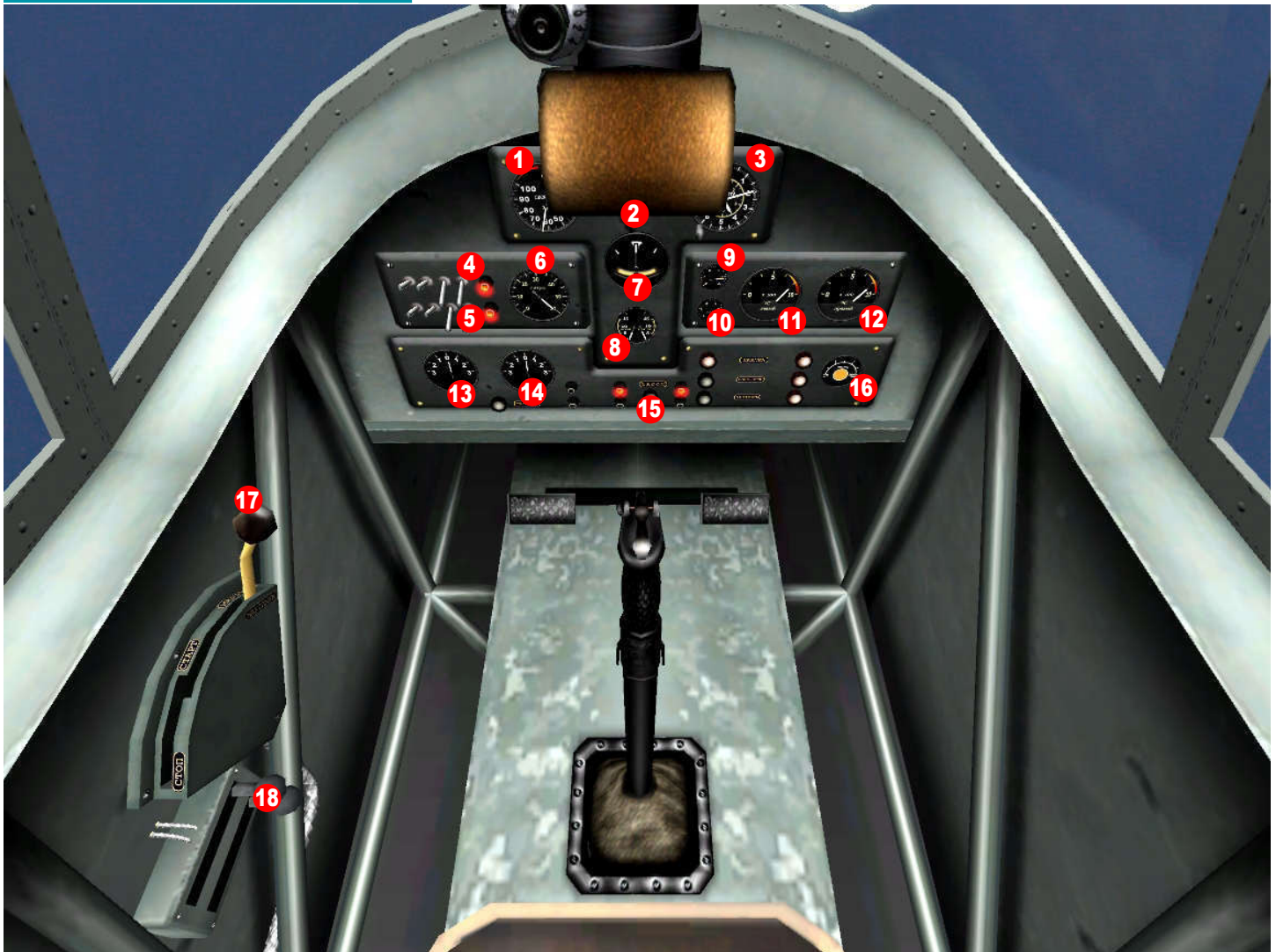
9. **Fuel gage**

10. **Landing gear lever**

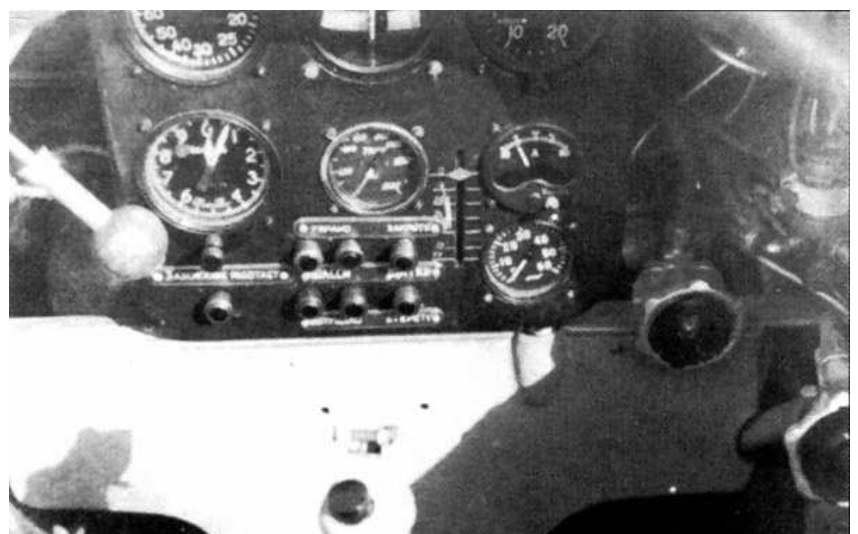
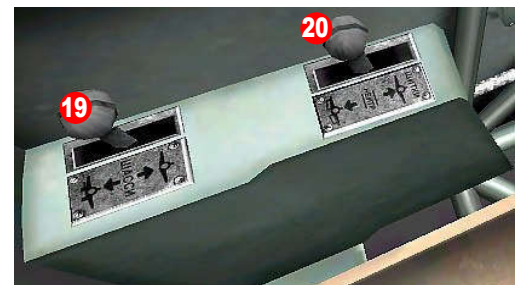
11. **Flaps lever**

12. **Throttle**





1. Airspeed indicator
2. Ammeter
3. **Altimeter**
4. Engine-on light (left wingtip rocket)
5. Engine-on light (right wingtip rocket)
6. Fuel gage (wingtip rockets)
7. **Turn and bank indicator**
8. **Oil & air pressure gage**
9. Fuel pressure **gage** (left **wingtip rocket**)
10. Fuel pressure gage (right wingtip rocket)
11. Exhaust temperature **gage** (left **wingtip rocket**)
12. Exhaust temperature gage (right wingtip rocket)
13. Engine status 1
14. Engine status 2
15. Landing gear position indicator
16. **Fuel gage**
17. Throttle
18. Wingtip rockets throttle
19. Landing gear lever
20. Flaps lever



BI-6 (<http://www.airwar.ru/aww2.html>)



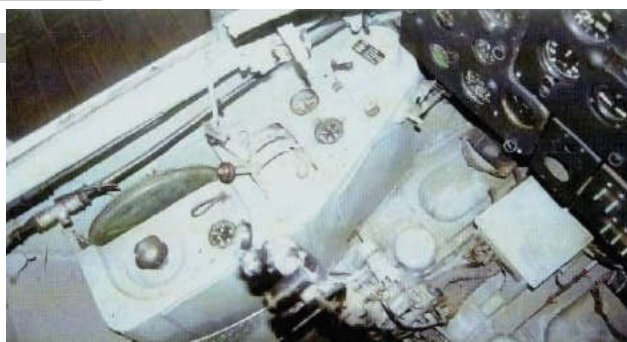
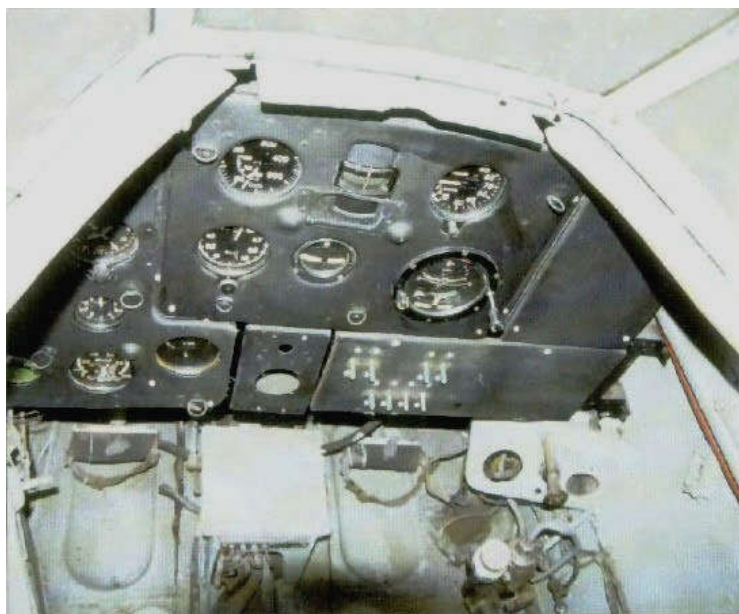


1. Landing gear position indicator: up - gear down
down - gear up
2. Airspeed indicator
3. Magnetic compass
4. Variometer
5. Clock
6. Manifold pressure gage
7. Altimeter
8. Turn and bank indicator
9. Artificial horizon
10. Landing gear position indicator: green - down
no light - transition
red - up
11. Coolant temperature gage
12. Tachometer
13. Engine oil-in temperature gage
14. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
15. Fuel gage
16. Throttle
17. Flaps lever
18. Landing gear lever
19. Gear brakes lever





1. Landing gear position indicator: up - gear down
down - gear up
2. Airspeed indicator
3. Magnetic compass
4. Variometer
5. Clock
6. Manifold pressure gage
7. Altimeter
8. Turn and bank indicator
9. Artificial horizon
10. Landing gear position indicator: green - down
no light - transition
red - up
11. Coolant temperature gage
12. Tachometer
13. Engine oil-in temperature gage
14. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
15. Fuel gage
16. Throttle
17. Flaps lever
18. Landing gear lever
19. Gear brakes lever



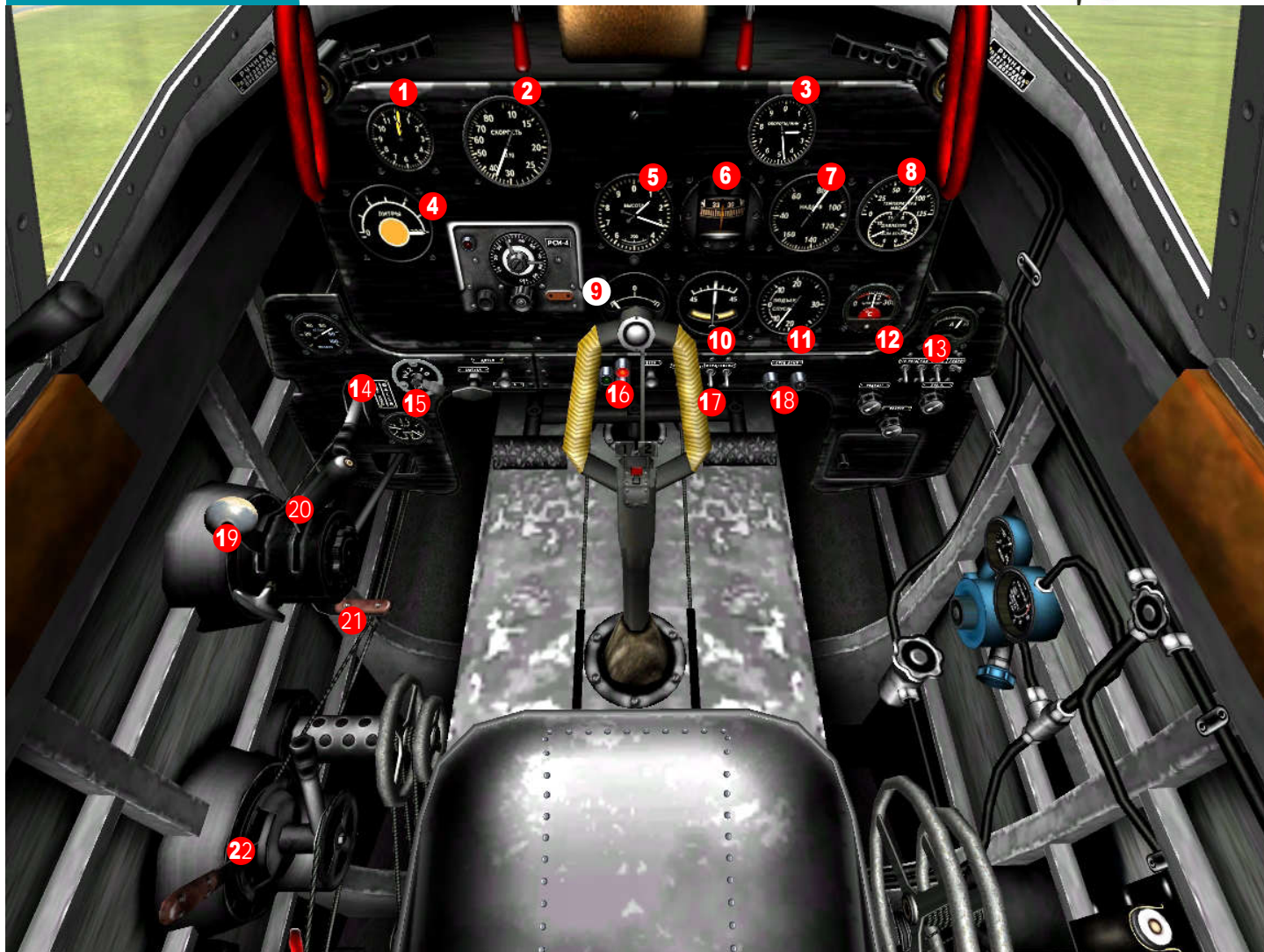


1. Airspeed indicator
2. Repeater compass
3. Ammeter
4. Guns charged indicator light
5. Homing indicator
6. Altimeter
7. Variometer
8. Artificial horizon / turn and bank indicator
9. Left MG & cannon ammunition counters & warning lights
10. Right MG & cannon ammunition counters & warning lights
11. Landing gear position indicator
12. Clock
13. Tachometer
14. Manifold pressure gage
15. Engine oil-in temperature gage
16. Coolant temperature gage
17. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
18. Oil radiator position indicator
19. Water radiator position indicator
20. Fuel gage
21. Engine ignition switch
22. External ordnance status lights: upper row - belly bombs
lower row - wing bombs
23. Bomb bay opening door warning light
24. Throttle
25. Mixture lever
26. Propeller pitch lever
27. Brakes pressure gage
28. Compressed air pressure gage
29. Flaps lever
30. Landing gear lever
31. Flaps full open indicator light
32. Landing gear lever down indicator light

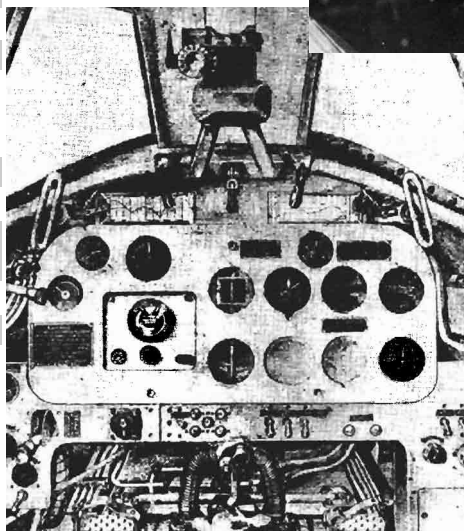


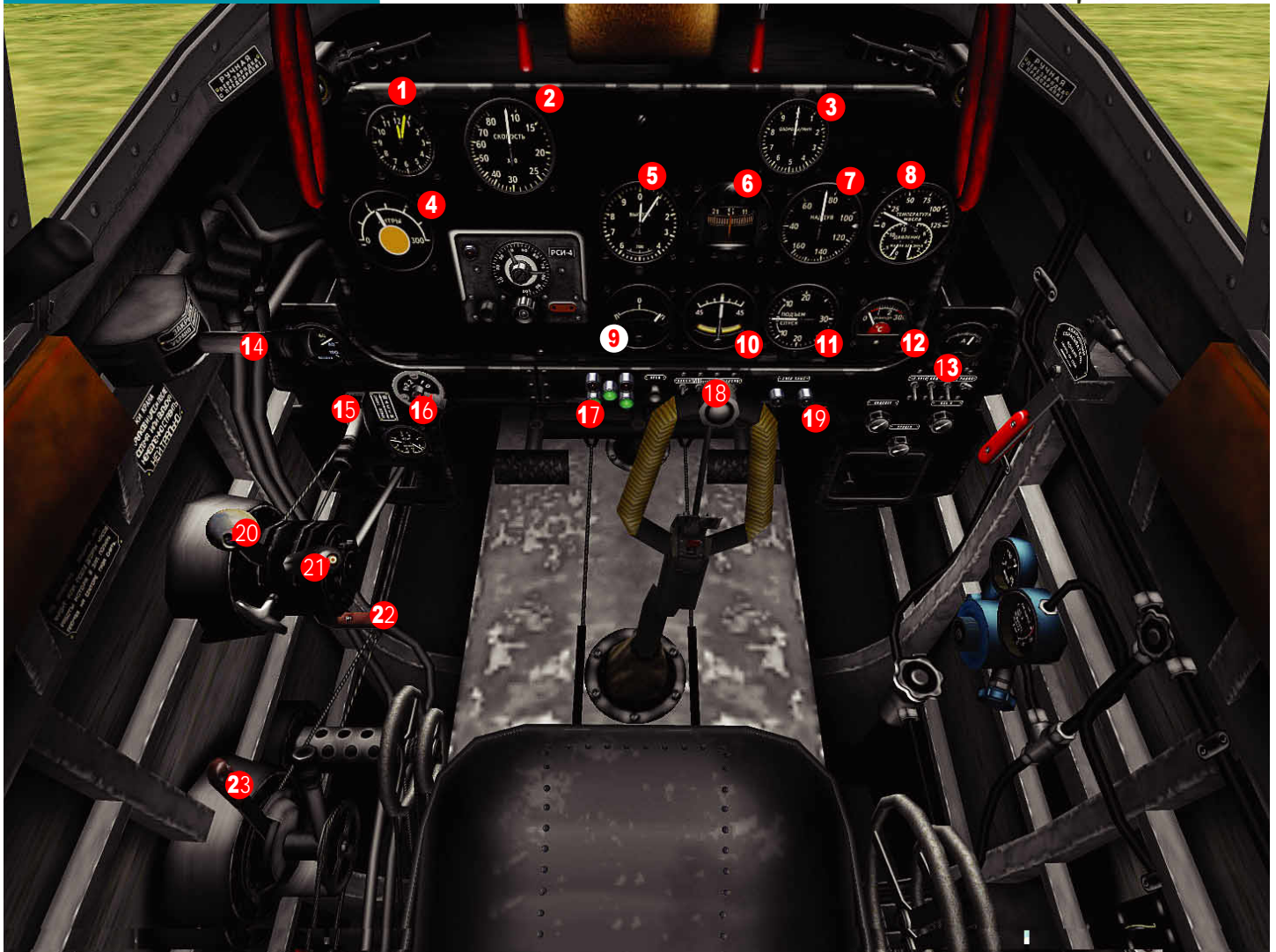
IL-10 (http://www.il10.cz/index_ENG.htm)





- 1. Clock
- 2. Airspeed indicator
- 3. Tachometer
- 4. Fuel gage
- 5. Altimeter
- 6. Magnetic compass
- 7. Manifold pressure gage
- 8. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
- 9. Pilot's Direction Indicator (in No Realistic Navigation mode only)
- 10. Turn and bank indicator
- 11. Variometer
- 12. Cylinder head temperature gage
- 13. Position lights switch
- 14. Landing gear lever
- 15. Engine ignition switch
- 16. Landing gear position indicator: green - down
no light - in transition
red - up
- 17. Landing light switch
- 18. External ordnance status lights
- 19. Mixture lever: rear position - leaner mixture
front position - richer mixture
- 20. Throttle
- 21. Propeller pitch lever
- 22. Supercharger lever: rear position - stage 1
front position - stage 2



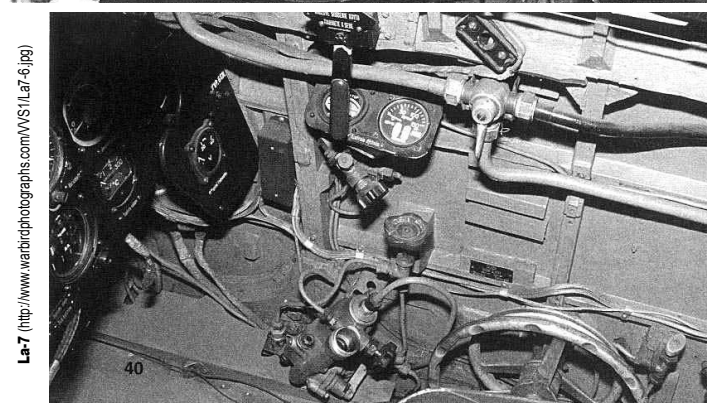
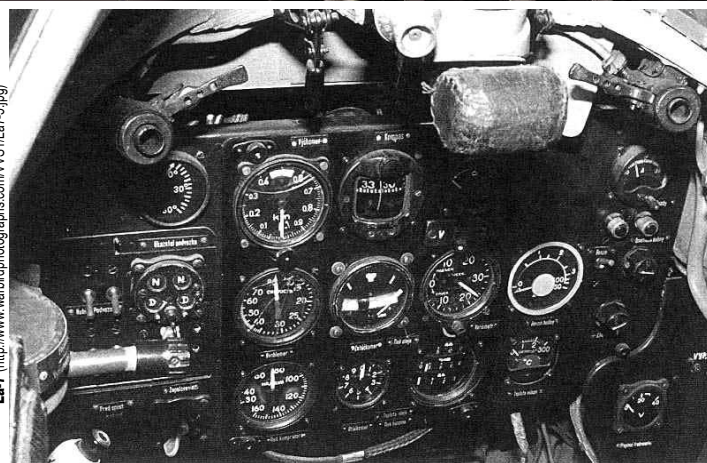


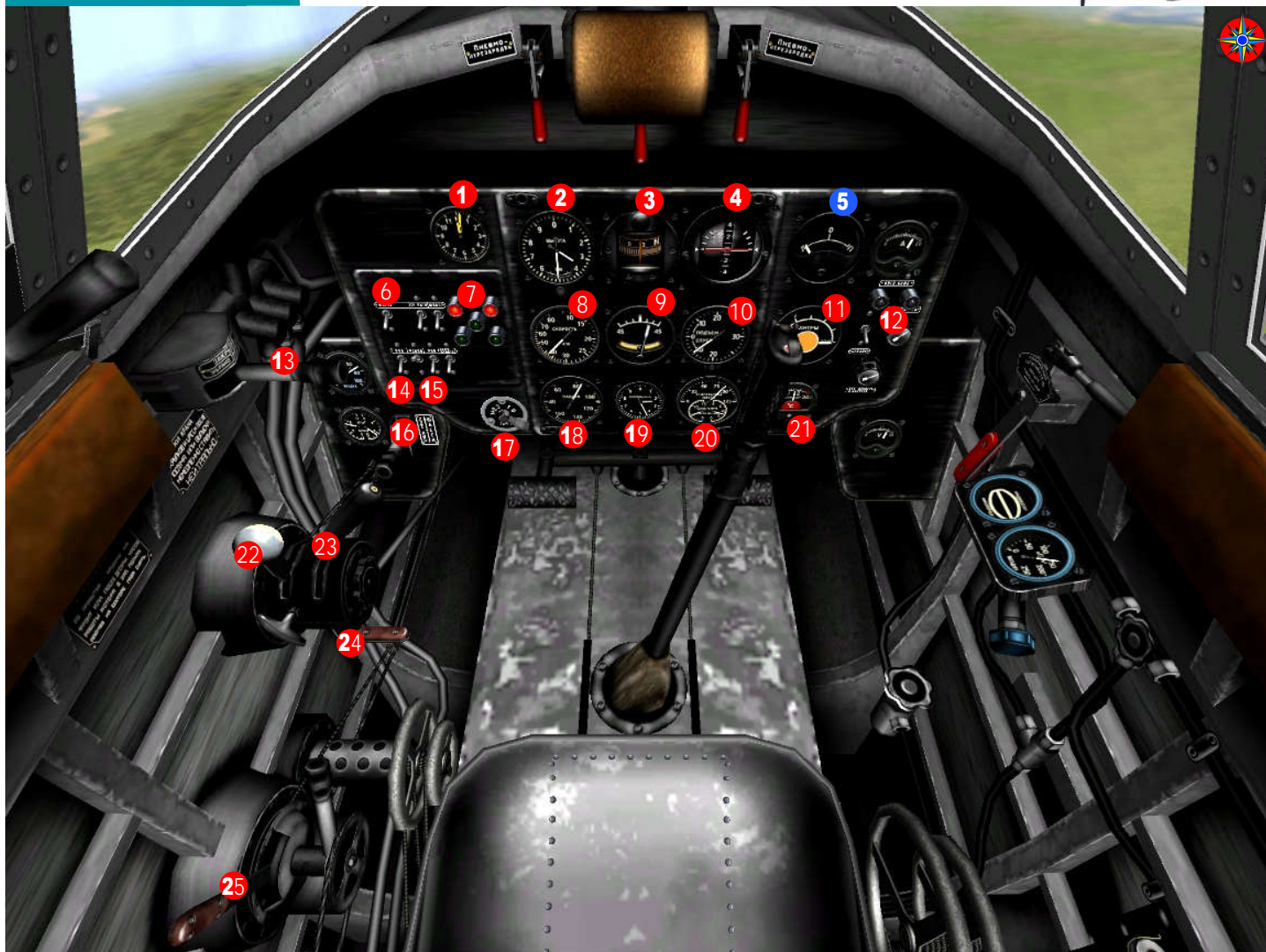
- 1. Clock
- 2. Airspeed indicator
- 3. Tachometer
- 4. Fuel gage
- 5. Altimeter
- 6. Magnetic compass
- 7. Manifold pressure gage
- 8. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
- 9. Pilot's Direction Indicator (in No Realistic Navigation mode only)
- 10. Turn and bank indicator
- 11. Variometer
- 12. Cylinder head temperature gage
- 13. Position lights switch
- 14. Flaps lever
- 15. Landing gear lever
- 16. Engine ignition switch
- 17. Landing gear position indicator: green - down
no light - in transition
red - up
- 18. Landing light switch
- 19. External ordnance status lights
- 20. Mixture lever: rear position - leaner mixture
front position - richer mixture
- 21. Throttle
- 22. Propeller pitch lever
- 23. Supercharger lever: rear position - stage 1
front position - stage 2





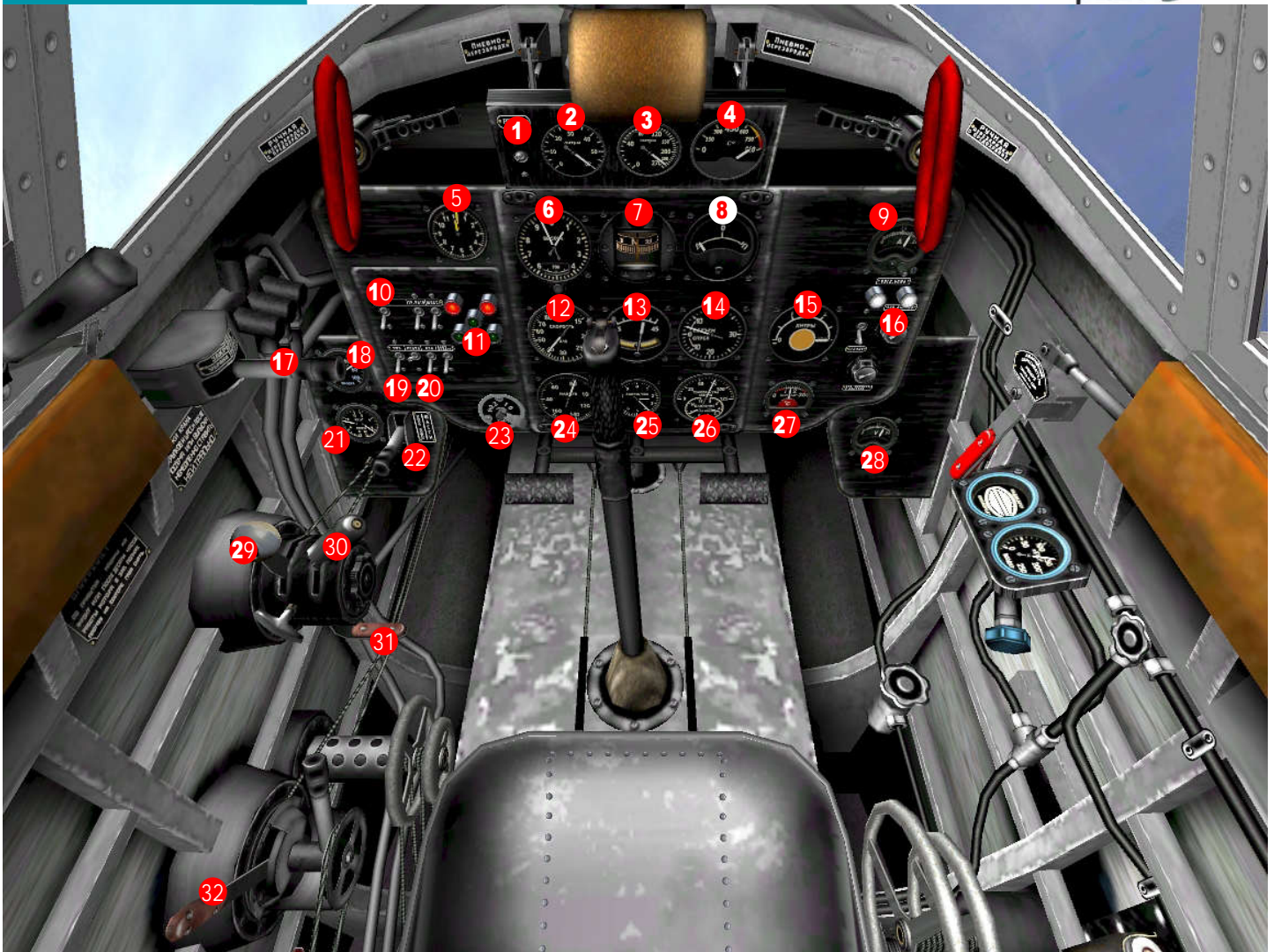
1. Clock
2. Altimeter
3. Magnetic compass
4. Pilot's Direction Indicator (in No Realistic Navigation mode only)
5. Landing light switch
6. Landing gear **position indicator: green - down red- up**
7. Airspeed indicator
8. Turn and bank indicator
9. Variometer
10. Fuel gage
11. External ordnance status lights
12. Flaps lever
13. Instrument light switch
14. Position lights switch
15. Landing gear **lever**
16. **Engine** ignition switch
17. **Manifold pressure gage**
18. **Tachometer**
19. Engine gage: **oil temperature** (top)
oil pressure (left)
fuel pressure (right)
20. Cylinder head **temperature gage**
21. **Mixture lever: rear position - leaner mixture front position - richer mixture**
22. **Throttle**
23. **Propeller pitch lever**
24. **Supercharger lever: rear position - stage 1 front position - stage 2**





1. **Clock**
2. **Altimeter**
3. **Magnetic compass**
4. **Artificial horizon**
5. **Homing indicator**
6. **Landing light switch**
7. **Landing gear position indicator: green - down
red - up**
8. **Airspeed indicator**
9. **Turn and bank indicator**
10. **Variometer**
11. **Fuel gage**
12. **External ordnance status lights**
13. **Flaps lever**
14. **Instrument light switch**
15. **Position lights switch**
16. **Landing gear lever**
17. **Engine ignition switch**
18. **Manifold pressure gage**
19. **Tachometer**
20. **Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)**
21. **Cylinder head temperature gage**
22. **Mixture lever: rear position - leaner mixture
front position - richer mixture**
23. **Throttle**
24. **Propeller pitch lever**
25. **Supercharger lever: rear position - stage 1
front position - stage 2**





1. Rocket engine switch
2. Rocket engine fuel gage
3. Rocket engine fuel gage
4. Rocket engine exhaust temperature gage
5. Clock
6. Altimeter
7. Magnetic compass
8. Pilot's Direction Indicator (in No Realistic Navigation mode only)
9. Ammeter
10. Landing light switch
11. Landing gear position indicator: green - down
red - up
12. Airspeed indicator
13. Turn and bank indicator
14. Variometer
15. Fuel gage
16. External ordnance status lights
17. Flaps lever
18. Compressed air pressure gage
19. Instrument light switch
20. Position lights switch
21. Brakes pressure gage
22. Landing gear lever
23. Engine ignition switch
24. Manifold pressure gage
25. Tachometer
26. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
27. Cylinder head temperature gage
28. Voltmeter
29. Mixture lever
30. Throttle
31. Propeller pitch lever
32. Supercharger lever: rear position - stage 1
front position - stage 2



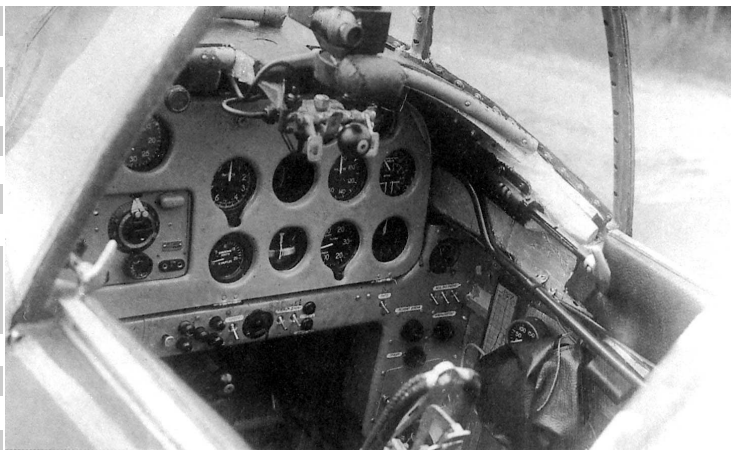


1. **Clock**
2. **Low fuel warning light**
3. **Altimeter**
4. **Magnetic compass**
5. **Manifold pressure gage**
6. Engine gage: **oil temperature** (top)
oil pressure (left)
fuel pressure (right)
7. **Oil temperature warning light** (cold & overheating)
8. **Airspeed indicator**
9. **Turn and bank indicator**
10. **Variometer**
11. **Pilot's Direction Indicator** (in No Realistic Navigation mode only)
12. **Engine oil-in temperature gage**
13. **Tachometer**
14. **Fuel gage**
15. Landing gear **position indicator**: **green** - down
no light - transition
red - up
16. **Throttle**
17. **Propeller pitch** lever
18. **Compressed air pressure gage**
19. **Brakes pressure gage**

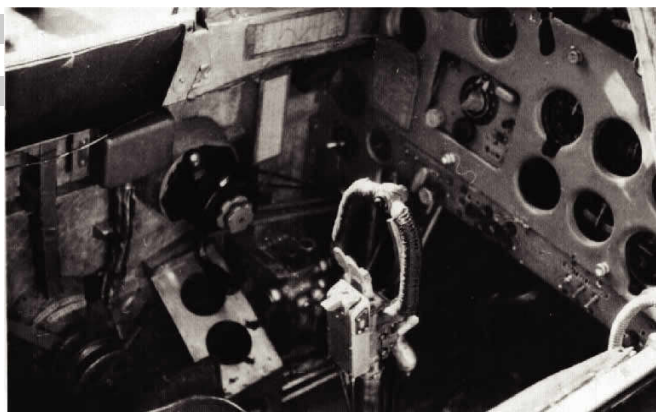




- 1. Clock
- 2. Airspeed indicator
- 3. Low fuel warning light
- 4. Tachometer
- 5. Fuel gage
- 6. Altimeter
- 7. Magnetic compass
- 8. Manifold pressure gage
- 9. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
- 10. Pilot's Direction Indicator (in No Realistic Navigation mode only)
- 11. Turn and bank indicator
- 12. Oil temperature warning light (cold & overheating)
- 13. Variometer
- 14. Engine oil-in temperature gage
- 15. Landing gear position indicator: green - down
no light - transition
red - up
- 16. Throttle
- 17. Propeller pitch lever
- 18. Compressed air pressure gage
- 19. Brakes pressure gage



LaGG-3 (http://www.warbirdphotographs.com/VIS/LAGGS-14.jpg)





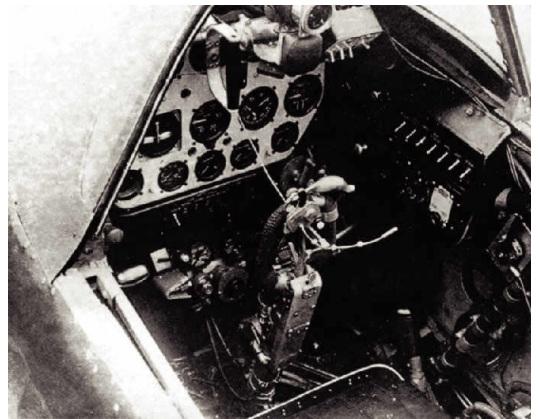
- 1. Clock
- 2. Airspeed indicator
- 3. Low fuel warning light
- 4. Fuel injection pressure gage
- 5. Oil pressure gage
- 6. Fuel gage
- 7. Altimeter
- 8. Magnetic compass
- 9. Exhaust gas pressure gage
- 10. Tachometer
- 11. Voltmeter
- 12. Pilot's Direction Indicator (in No Realistic Navigation mode only)
- 13. Turn and bank indicator
- 14. Engine shutdown warning light
- 15. Variometer
- 16. Exhaust temperature gage
- 17. Ammeter
- 18. Internal system indicator
- 19. Landing gear position indicator: green - down
no light - transition
red - up
- 20. Throttle
- 21. Compressed air pressure gage
- 22. Brakes pressure gage





1. Altimeter
2. Magnetic compass
3. Manifold pressure gage
4. Fuel gage
6. Airspeed indicator
5. Low fuel warning light
7. Turn and bank indicator
8. Variometer
9. Tachometer
10. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
11. Clock
12. Compressed air pressure gage
13. Brakes pressure gage
14. Coolant temperature gage
15. Engine oil-in temperature gage
16. Landing gear lever
17. Landing gear position indicator: red - down
no light - transition
green - up
18. Gear break lever
19. Propeller pitch lever
20. Throttle
21. Flaps position indicator

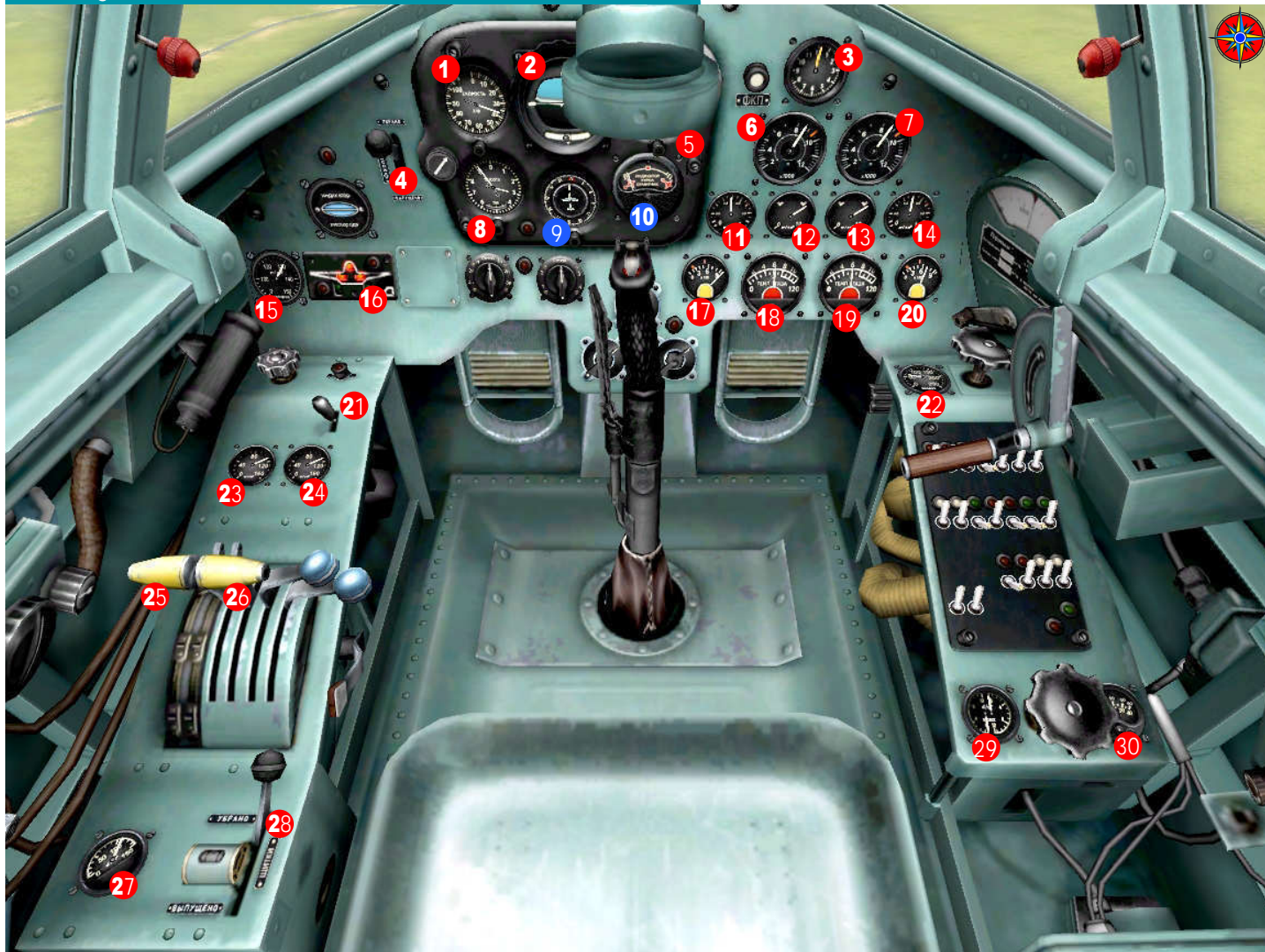
MIG 3 (<http://img3.sovietwarplanes.com/mig3cockpit.html>)



MIG 3 (<http://img3.sovietwarplanes.com/mig3/yuri-rinusavia3.htm>)



Mikoyan-Gurevich MiG-9 F2 (I-300) / FS



1. Airspeed indicator
2. Artificial horizon / turn and bank indicator
3. Clock
4. Landing gear lever
5. Variometer
6. Left engine tachometer
7. Right engine tachometer
8. Altimeter
9. Repeater compass
10. Homing indicator
11. Left engine exhaust pressure gage
12. Left engine oil pressure gage
13. Right engine oil pressure gage
14. Right engine exhaust pressure gage
15. Oxygen quantity gage
16. Landing gear position indicator
17. Fuel gage (tank 1)
18. Left engine exhaust gas temperature gage
19. Right engine exhaust gas temperature gage
20. Fuel gage (tank 2)
21. Elevator trim lever
22. Compressed air pressure gage
23. Left engine fuel pressure gage
24. Right engine fuel pressure gage
25. Left engine throttle
26. Right engine throttle
27. Brakes pressure gage
28. Flaps lever
29. Hydraulic pressure gage
30. Ammeter

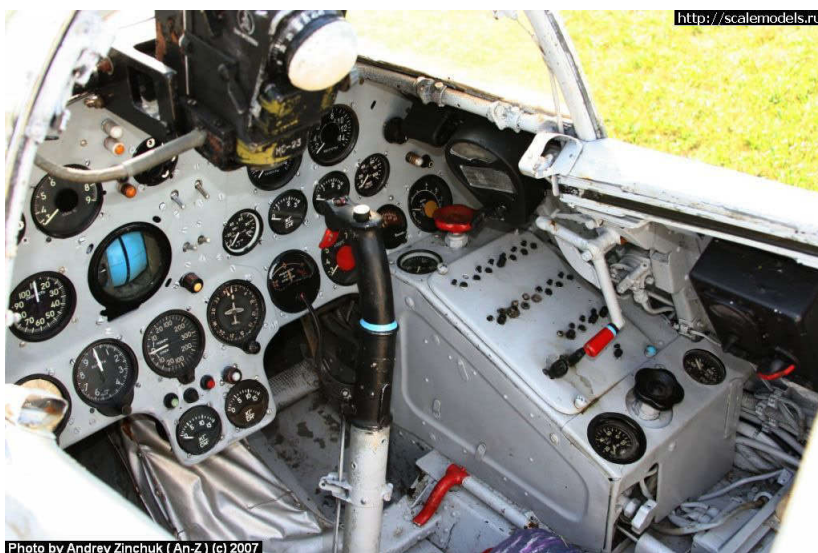
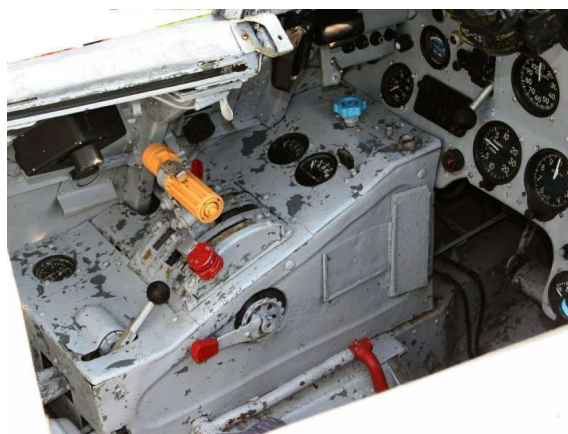


Photo by Andrey Zinchuk (An-Z) (c) 2007



MIG 9 (http://scalemodels.ru/modules.php?viewcat_cat_270.html)

<http://scalemodels.ru>





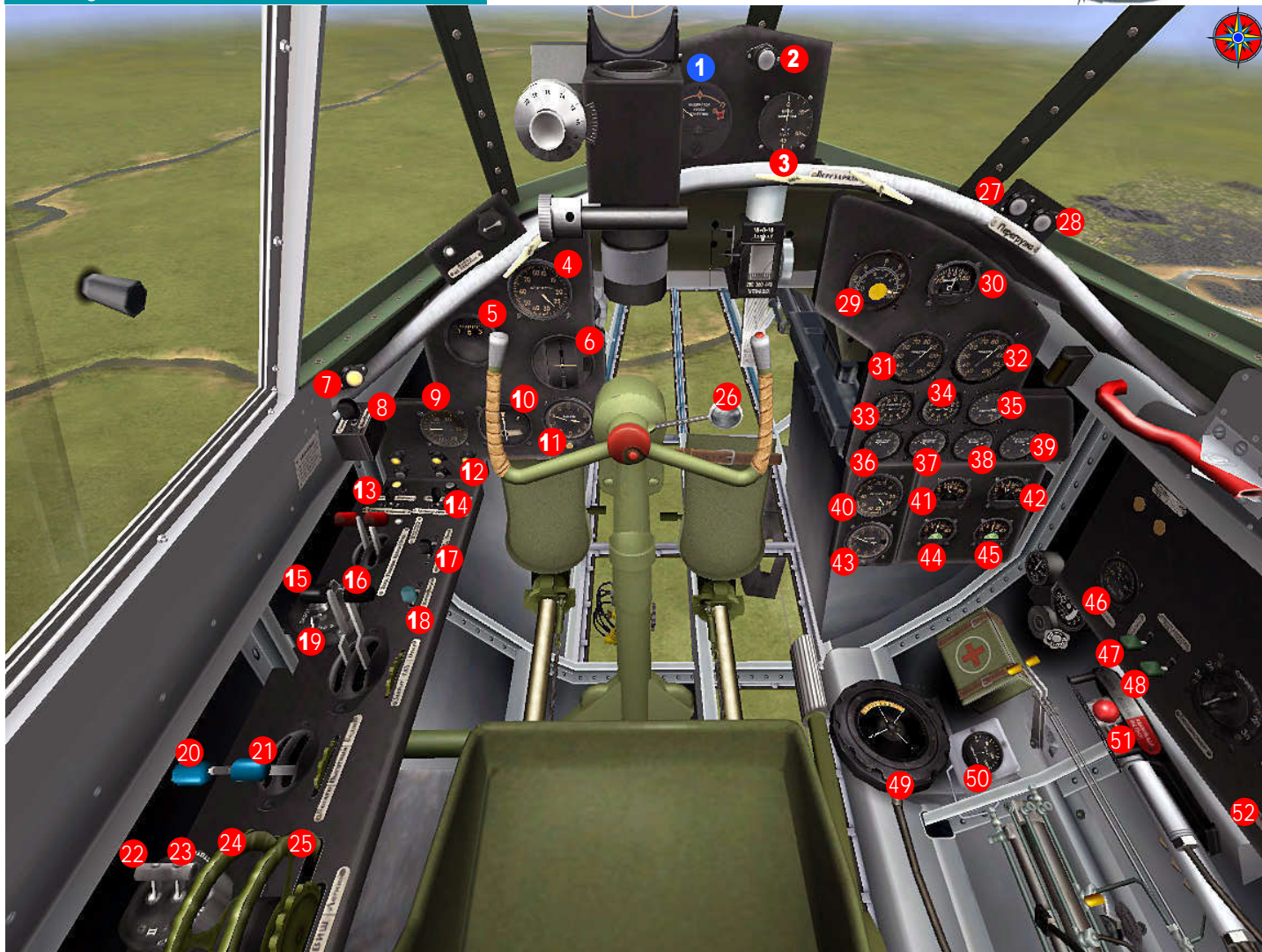
1. Altimeter
2. Magnetic compass
3. Clock
4. Ammeter
5. Voltmeter
6. Low fuel warning light
7. Engine oil-in temperature gage
8. Coolant temperature gage
9. Engine ignition switch
10. Airspeed indicator
11. Artificial horizon / turn and bank indicator
12. Variometer
13. Fuel gage
14. Motorjet engine exhaust temperature gage
15. Motorjet engine pressurization gage
16. Landing gear lever & position indicator: green - down
no light - transition
red - up
17. Motorjet engine exhaust pressure gage
18. Motorjet engine fuel pressure gage
19. Manifold pressure gage
20. Tachometer
21. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
22. Throttle
23. Flaps lever
24. Propeller pitch lever
25. Mixture lever
26. Motorjet engine throttle
27. Motorjet engine ignition lever
28. Elevator trim wheel
29. Rudder trim wheel





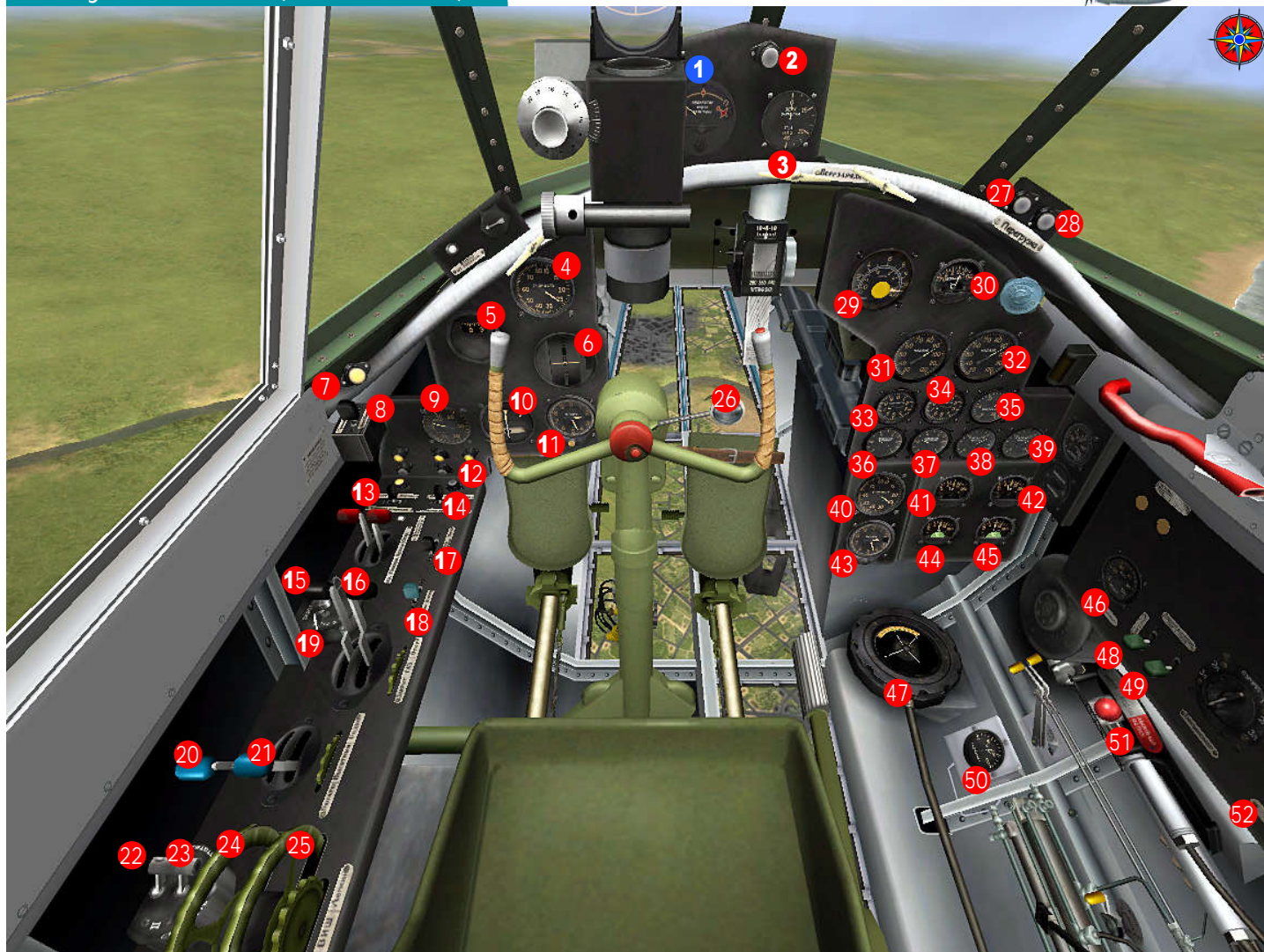
- | | |
|--|---|
| 1. Homing indicator | 37. Left engine oil pressure gage |
| 2. Flaps full open indicator light | 38. Right engine oil pressure gage |
| 3. Flaps position indicator | 39. Left engine oil temperature gage |
| 4. Airspeed indicator | 40. Right engine oil temperature gage |
| 5. Magnetic compass | 41. Left engine coolant temperature gage |
| 6. Artificial horizon | 42. Right engine coolant temperature gage |
| 7. Elevator trim neutral indicator light | 43. Airspeed indicator |
| 8. Elevator trim switch | 44. Altimeter |
| 9. Variometer | 45. Free air temperature gage |
| 10. Turn and bank indicator | 46. Compressed air pressure gage |
| 11. Altimeter | 47. Repeater compass |
| 12. Landing gear position indicator | 48. Hydraulic pressure gage |
| 13. Aileron trim switch with neutral indicator light | 49. Landing gear lever |
| 14. Rudder trim switch with neutral indicator light | 50. Left engine radiator switch |
| 15. Left engine throttle | 51. Right engine radiator switch |
| 16. Right engine throttle | 52. External ordnance indicator lights (on rear part) |
| 17. Dive brakes switch | |
| 18. Flaps switch | |
| 19. Engines ignition switches | |
| 20. Left engine mixture lever | |
| 21. Right engine mixture lever | |
| 22. Left engine supercharger lever | |
| 23. Right engine supercharger lever | |
| 24. Left side propeller pitch wheel | |
| 25. Right side propeller pitch wheel | |
| 26. Gear brakes lever | |
| 27. Positive G-Load warning indicator light (+3 G) | |
| 28. Negative G-Load warning indicator light (-1 G) | |
| 29. Fuel gage | |
| 30. Left engine manifold pressure gage | |
| 31. Right engine manifold pressure gage | |
| 32. Left engine tachometer | |
| 33. Right engine tachometer | |
| 34. Fuel tank nitrogen pressure gage | |
| 35. Left engine fuel pressure gage | |
| 36. Right engine fuel pressure gage | |





- | | |
|--|---|
| 1. Homing indicator | 37. Right engine fuel pressure gage |
| 2. Flaps full open indicator light | 38. Left engine oil pressure gage |
| 3. Flaps position indicator | 39. Right engine oil pressure gage |
| 4. Airspeed indicator | 40. Airspeed indicator |
| 5. Magnetic compass | 41. Left engine oil temperature gage |
| 6. Artificial horizon | 42. Right engine oil temperature gage |
| 7. Elevator trim neutral indicator light | 43. Altimeter |
| 8. Elevator trim switch | 44. Left engine coolant temperature gage |
| 9. Variometer | 45. Right engine coolant temperature gage |
| 10. Turn and bank indicator | 46. Compressed air pressure gage |
| 11. Altimeter | 47. Left engine radiator switch |
| 12. Landing gear position indicator | 48. Right engine radiator switch |
| 13. Aileron trim switch with neutral indicator light | 49. Repeater compass |
| 14. Rudder trim switch with neutral indicator light | 50. Hydraulic pressure gage |
| 15. Left engine throttle | 51. Landing gear lever |
| 16. Right engine throttle | 52. External ordnance indicator lights (on rear part) |
| 17. Dive brakes switch | |
| 18. Flaps switch | |
| 19. Engines ignition switches | |
| 20. Left engine mixture lever | |
| 21. Right engine mixture lever | |
| 22. Left engine supercharger lever | |
| 23. Right engine supercharger lever | |
| 24. Left side propeller pitch wheel | |
| 25. Right side propeller pitch wheel | |
| 26. Gear brakes lever | |
| 27. Positive G-Load warning indicator light (+3 G) | |
| 28. Negative G-Load warning indicator light (-1 G) | |
| 29. Fuel gage | |
| 30. Free air temperature gage | |
| 31. Left engine manifold pressure gage | |
| 32. Right engine manifold pressure gage | |
| 33. Left engine tachometer | |
| 34. Right engine tachometer | |
| 35. Fuel tank nitrogen pressure gage | |
| 36. Left engine fuel pressure gage | |





- | | |
|--|---|
| 1. Homing indicator | 37. Right engine fuel pressure gage |
| 2. Flaps full open indicator light | 38. Left engine oil pressure gage |
| 3. Flaps position indicator | 39. Right engine oil pressure gage |
| 4. Airspeed indicator | 40. Airspeed indicator |
| 5. Magnetic compass | 41. Left engine oil temperature gage |
| 6. Artificial horizon | 42. Right engine oil temperature gage |
| 7. Elevator trim neutral indicator light | 43. Altimeter |
| 8. Elevator trim switch | 44. Left engine coolant temperature gage |
| 9. Variometer | 45. Right engine coolant temperature gage |
| 10. Turn and bank indicator | 46. Compressed air pressure gage |
| 11. Altimeter | 47. Repeater compass |
| 12. Landing gear position indicator | 48. Left engine radiator switch |
| 13. Aileron trim switch with neutral indicator light | 49. Right engine radiator switch |
| 14. Rudder trim switch with neutral indicator light | 50. Hydraulic pressure gage |
| 15. Left engine throttle | 51. Landing gear lever |
| 16. Right engine throttle | 52. External ordnance indicator lights (on rear part) |
| 17. Dive brakes switch | |
| 18. Flaps switch | |
| 19. Engines ignition switches | |
| 20. Left engine mixture lever | |
| 21. Right engine mixture lever | |
| 22. Left engine supercharger lever | |
| 23. Right engine supercharger lever | |
| 24. Left side propeller pitch wheel | |
| 25. Right side propeller pitch wheel | |
| 26. Gear brakes lever | |
| 27. Positive G-Load warning indicator light (+3 G) | |
| 28. Negative G-Load warning indicator light (-1 G) | |
| 29. Fuel gage | |
| 30. Free air temperature gage | |
| 31. Left engine manifold pressure gage | |
| 32. Right engine manifold pressure gage | |
| 33. Left engine tachometer | |
| 34. Right engine tachometer | |
| 35. Fuel tank nitrogen pressure gage | |
| 36. Left engine fuel pressure gage | |



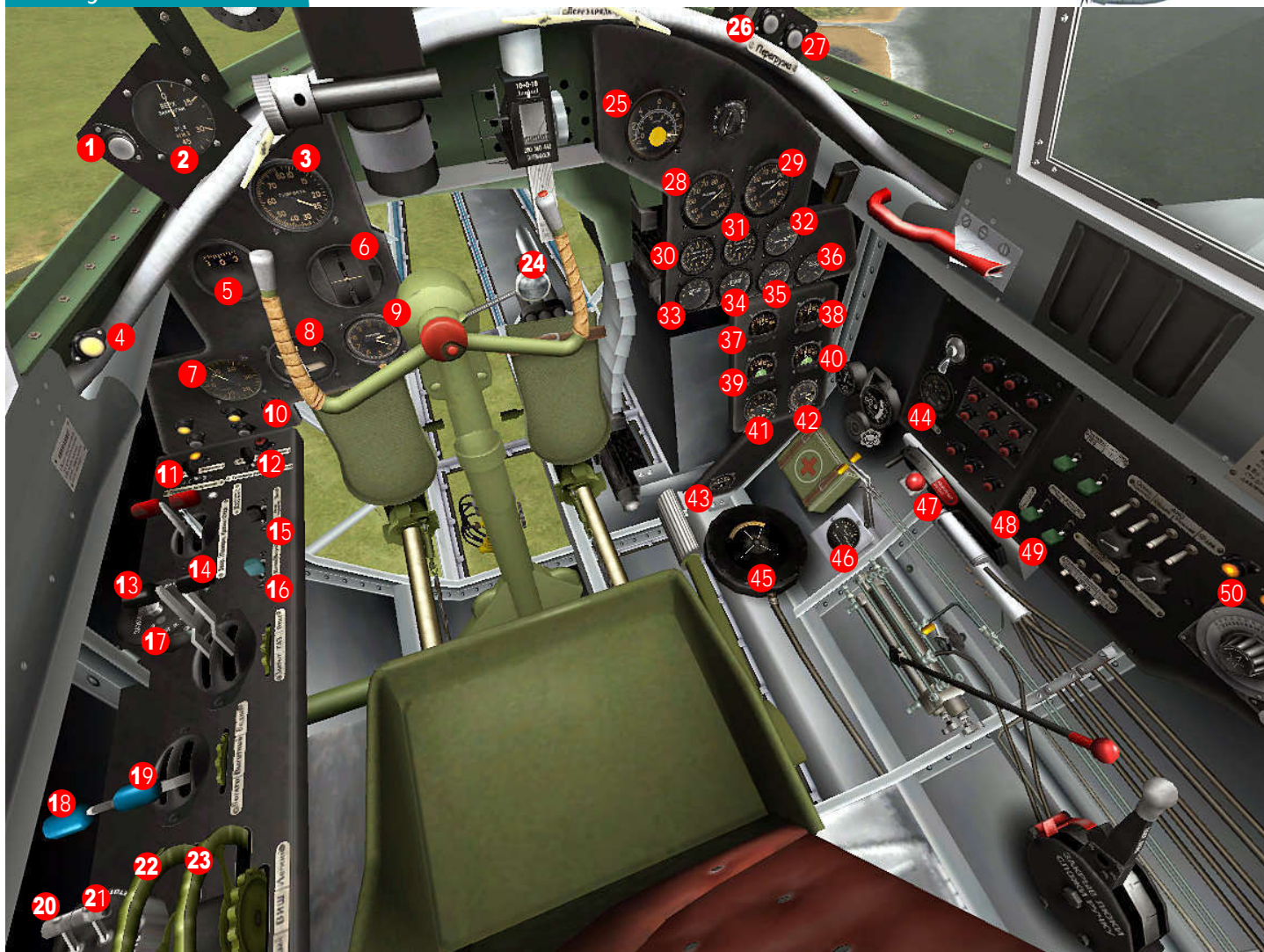
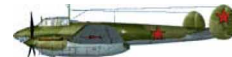


- | | |
|--|---|
| 1. Homing indicator | 37. Right engine fuel pressure gage |
| 2. Flaps full open indicator light | 38. Left engine oil pressure gage |
| 3. Flaps position indicator | 39. Right engine oil pressure gage |
| 4. Airspeed indicator | 40. Airspeed indicator |
| 5. Magnetic compass | 41. Left engine oil temperature gage |
| 6. Artificial horizon | 42. Right engine oil temperature gage |
| 7. Elevator trim neutral indicator light | 43. Altimeter |
| 8. Elevator trim switch | 44. Left engine coolant temperature gage |
| 9. Variometer | 45. Right engine coolant temperature gage |
| 10. Turn and bank indicator | 46. Compressed air pressure gage |
| 11. Altimeter | 47. Repeater compass |
| 12. Landing gear position indicator | 48. Left engine radiator switch |
| 13. Aileron trim switch with neutral indicator light | 49. Right engine radiator switch |
| 14. Rudder trim switch with neutral indicator light | 50. Hydraulic pressure gage |
| 15. Left engine throttle | 51. Landing gear lever |
| 16. Right engine throttle | 52. External ordnance indicator lights (on rear part) |
| 17. Dive brakes switch | |
| 18. Flaps switch | |
| 19. Engines ignition switches | |
| 20. Left engine mixture lever | |
| 21. Right engine mixture lever | |
| 22. Left engine supercharger lever | |
| 23. Right engine supercharger lever | |
| 24. Left side propeller pitch wheel | |
| 25. Right side propeller pitch wheel | |
| 26. Gear brakes lever | |
| 27. Positive G-Load warning indicator light (+3 G) | |
| 28. Negative G-Load warning indicator light (-1 G) | |
| 29. Fuel gage | |
| 30. Free air temperature gage | |
| 31. Left engine manifold pressure gage | |
| 32. Right engine manifold pressure gage | |
| 33. Left engine tachometer | |
| 34. Right engine tachometer | |
| 35. Fuel tank nitrogen pressure gage | |
| 36. Left engine fuel pressure gage | |



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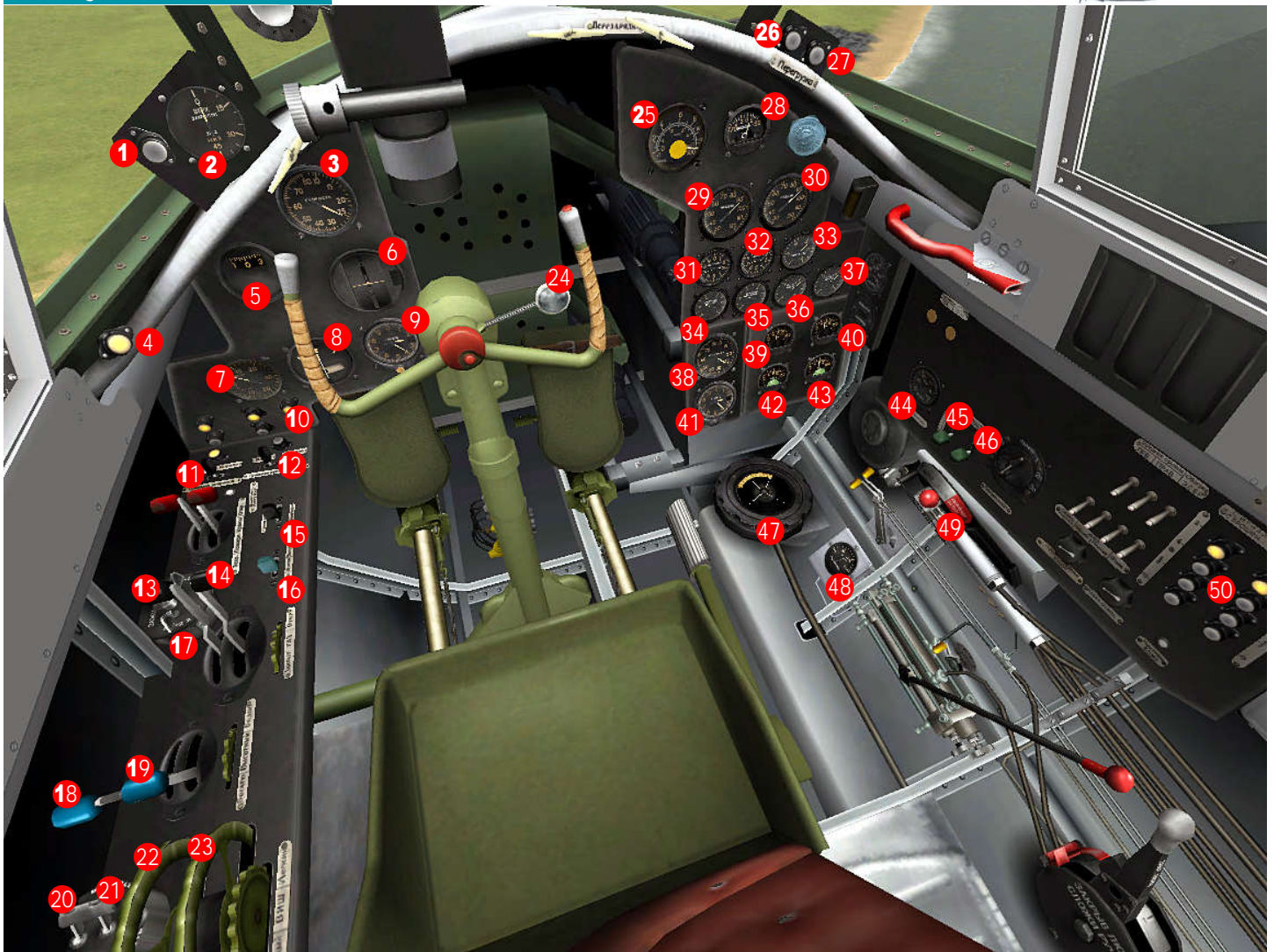




1. Flaps full open indicator light
2. Flaps position indicator
3. Airspeed indicator
4. Elevator trim neutral indicator light
5. Magnetic compass
6. Artificial horizon
7. Variometer
8. Turn and bank indicator
9. Altimeter
10. Landing gear position indicator
11. Aileron trim switch with neutral indicator light
12. Rudder trim switch with neutral indicator light
13. Left engine throttle
14. Right engine throttle
15. Elevator trim switch
16. Flaps switch
17. Engines ignition switches
18. Left engine mixture lever
19. Right engine mixture lever
20. Left engine supercharger lever
21. Right engine supercharger lever
22. Left side propeller pitch wheel
23. Right side propeller pitch wheel
24. Gear brakes lever
25. Fuel gage
26. Positive G-Load warning indicator light (+3 G)
27. Negative G-Load warning indicator light (-1 G)
28. Left engine manifold pressure gage
29. Right engine manifold pressure gage
30. Left engine tachometer
31. Right engine tachometer
32. Fuel tank nitrogen pressure gage
33. Left engine fuel pressure gage
34. Right engine fuel pressure gage
35. Left engine oil pressure gage
36. Right engine oil pressure gage

37. Left engine oil temperature gage
38. Right engine oil temperature gage
39. Left engine coolant temperature gage
40. Right engine coolant temperature gage
41. Airspeed indicator
42. Altimeter
43. Free air temperature gage
44. Compressed air pressure gage
45. Repeater compass
46. Hydraulic pressure gage
47. Landing gear lever
48. Left engine radiator switch
49. Right engine radiator switch
50. External ordnance indicator lights





- | | |
|--|---|
| 1. Flaps full open indicator light | 37. Right engine oil pressure gage |
| 2. Flaps position indicator | 38. Airspeed indicator |
| 3. Airspeed indicator | 39. Left engine oil temperature gage |
| 4. Elevator trim neutral indicator light | 40. Right engine oil temperature gage |
| 5. Magnetic compass | 41. Altimeter |
| 6. Artificial horizon | 42. Left engine coolant temperature gage |
| 7. Variometer | 43. Right engine coolant temperature gage |
| 8. Turn and bank indicator | 44. Compressed air pressure gage |
| 9. Altimeter | 45. Left engine radiator switch |
| 10. Landing gear position indicator | 46. Right engine radiator switch |
| 11. Aileron trim switch with neutral indicator light | 47. Repeater compass |
| 12. Rudder trim switch with neutral indicator light | 48. Hydraulic pressure gage |
| 13. Left engine throttle | 49. Landing gear lever |
| 14. Right engine throttle | 50. External ordnance indicator lights |
| 15. Elevator trim switch | |
| 16. Flaps switch | |
| 17. Engines ignition switches | |
| 18. Left engine mixture lever | |
| 19. Right engine mixture lever | |
| 20. Left engine supercharger lever | |
| 21. Right engine supercharger lever | |
| 22. Left side propeller pitch wheel | |
| 23. Right side propeller pitch wheel | |
| 24. Gear brakes lever | |
| 25. Fuel gage | |
| 26. Positive G-Load warning indicator light (+3 G) | |
| 27. Negative G-Load warning indicator light (-1 G) | |
| 28. Free air temperature gage | |
| 29. Left engine manifold pressure gage | |
| 30. Right engine manifold pressure gage | |
| 31. Left engine tachometer | |
| 32. Right engine tachometer | |
| 33. Fuel tank nitrogen pressure gage | |
| 34. Left engine fuel pressure gage | |
| 35. Right engine fuel pressure gage | |
| 36. Left engine oil pressure gage | |





1. Magnetic compass
2. Manifold pressure gage
3. Tachometer
4. Altimeter
5. Turn and bank indicator
6. Variometer
7. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
8. Engine ignition switch
9. Cylinder head temperature gage
10. Airspeed indicator
11. Clock
12. Fuel gage
13. Mixture lever: rear position - leaner mixture
front position - richer mixture
14. Throttle
15. Radiator lever
16. Bomb lever

I-15bis (<http://igor113.livejournal.com/>)



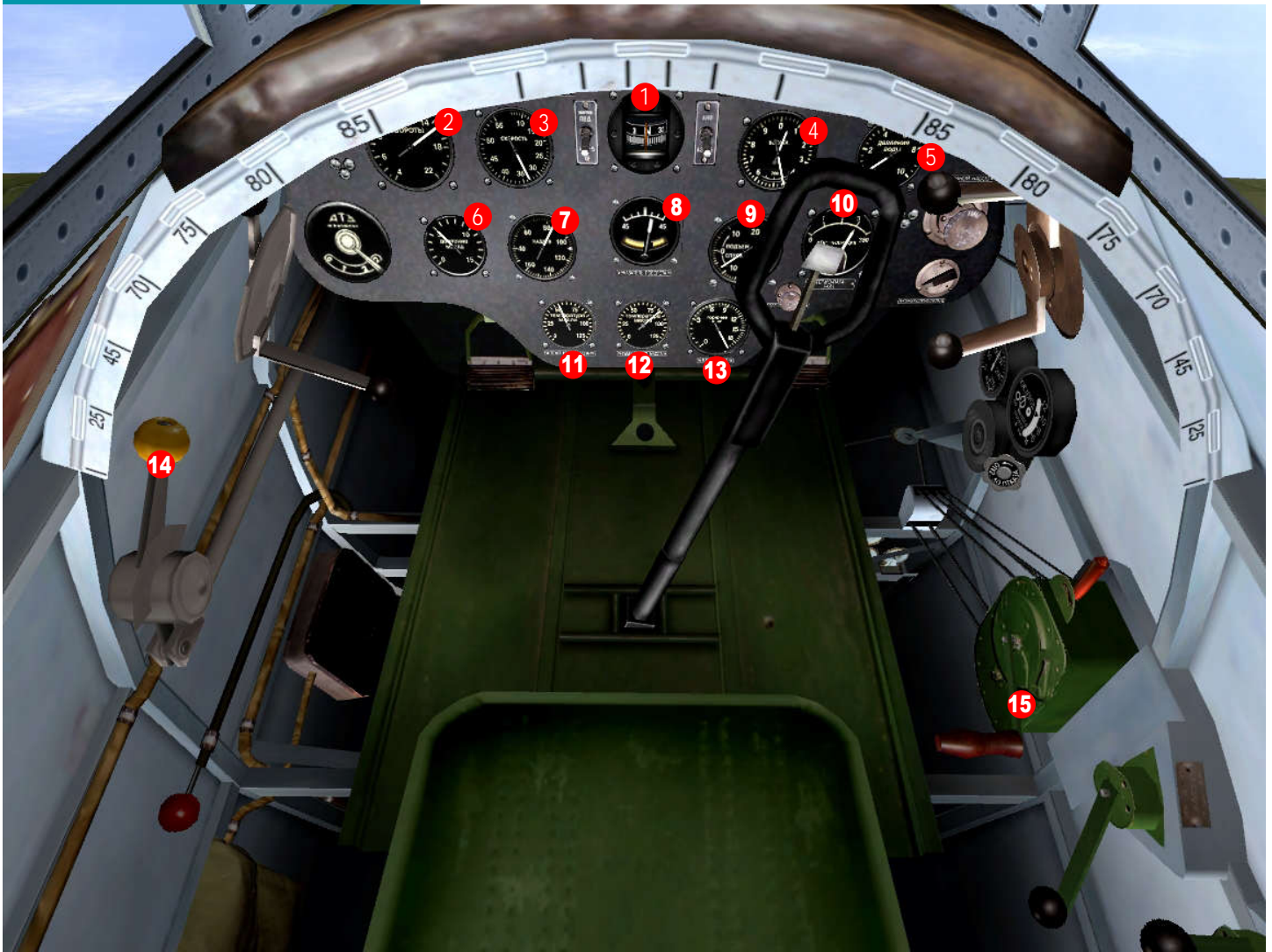


- 1. Airspeed indicator
- 2. Magnetic compass
- 3. Tachometer
- 4. Altimeter
- 5. Turn and bank indicator
- 6. Variometer
- 7. Engine ignition switch
- 8. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
- 9. Clock
- 10. Cylinder head temperature gage
- 11. Manifold pressure gage
- 12. Supercharger lever: rear position - stage 1
front position - stage 2
- 13. Mixture lever: rear position - leaner mixture
front position - richer mixture
- 14. Throttle
- 15. Propeller pitch knob



I-153 (<http://www.ww2aircraft.net/>)





- 1. Magnetic compass
- 2. Tachometer
- 3. Airspeed indicator
- 4. Altimeter
- 5. Compressed air pressure gage
- 6. Oil pressure gage
- 7. Manifold pressure gage
- 8. Turn and bank indicator
- 9. Variometer
- 10. Cylinder head temperature gage
- 11. Engine oil-in temperature gage
- 12. Engine oil-out temperature gage
- 13. Fuel gage
- 14. Throttle
- 15. Landing gear handle (not active with skis)

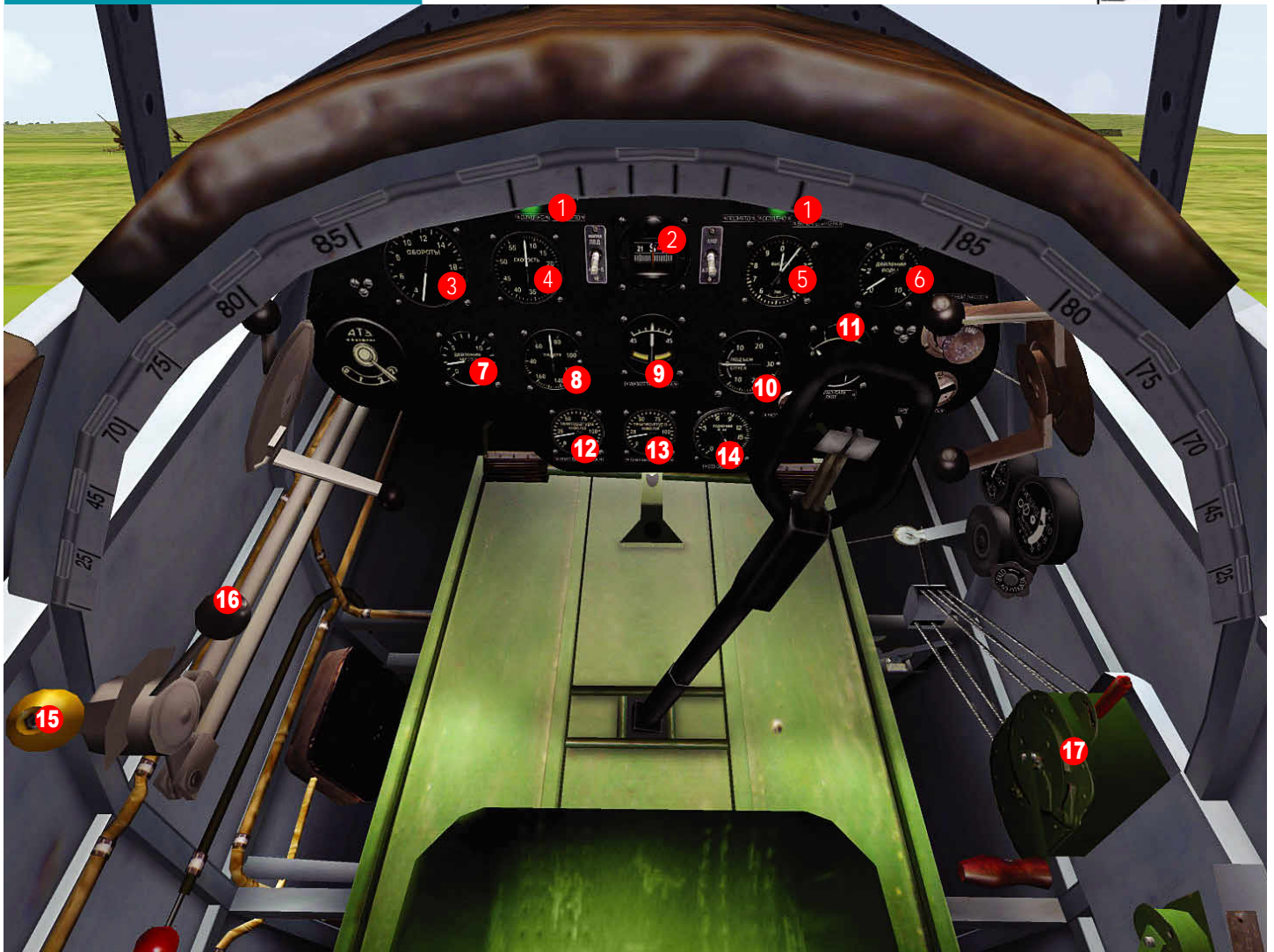


I-16 early (<http://pic.ipicture.ru/uploads/090216/Ev90DZW8TA.jpg>)



I-16 T10 (<http://www.zaircraft.net/>)





1. Landing gear **position indicator**: green - down
no light - transition
red - up

2. **Magnetic compass**

3. **Tachometer**

4. **Airspeed indicator**

5. **Altimeter**

6. **Compressed air pressure gage**

7. **Oil pressure gage**

8. **Manifold pressure gage**

9. **Turn and bank indicator**

10. **Variometer**

11. **Cylinder head temperature gage**

12. **Engine oil-in temperature gage**

13. **Engine oil-out temperature gage**

14. **Fuel gage**

15. **Throttle**

16. **Propeller pitch lever**

17. **Landing gear handle**



I-16 T24 (<http://www.nzfpm.co.nz/article.asp?id=i16#>)

I-16 T10 (<http://www.historicflight.cz/>)





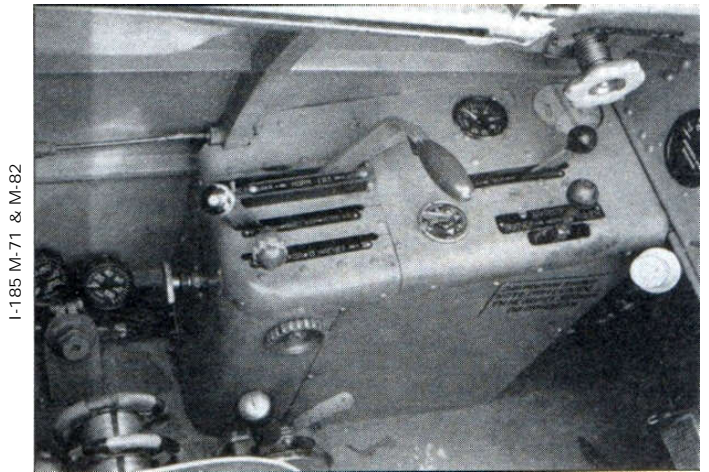
1. Landing gear **position indicator**: green - down (behind gunsight) red - up
2. Landing gear **lever**
3. **Magnetic compass**
4. **Clock**
5. **Fuel gage**
6. **Airspeed indicator**
7. **Turn and bank indicator**
8. **Variometer**
9. **Manifold pressure gage**
10. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
11. **Engine ignition switch**
12. **Altimeter**
13. Pilot's Direction Indicator (in No Realistic Navigation mode only)
14. **Artificial horizon**
15. **Tachometer**
16. Cylinder head **temperature gage**
17. Landing gear **position indicator**
18. **Carburetor pressure gage**
19. **Oil temperature gage** (exiting front engine block)
20. **Oil temperature gage** (exiting rear engine block)
21. **Oil temperature gage** (entering engine)
22. **Oil pressure gage**
23. **Propeller pitch lever**
24. **Flaps lever**
25. **Throttle**
26. **Mixture lever**
27. **Supercharger lever**
28. **Bomb release lever** (no bomb available)
29. **Landing light switch**
30. **Instrument light switch**
31. **Position lights switch**

I-185 (<http://www.airwar.ru/aww2.html>)

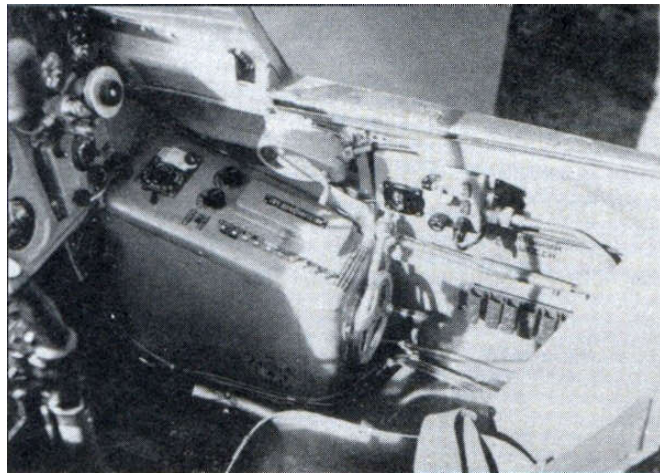




1. Bombs status lights
2. Landing gear **position indicator**: green - down
(behind gunsight) red - up
3. Landing gear **lever**
4. **Magnetic compass**
5. **Clock**
6. **Fuel gage**
7. **Airspeed indicator**
8. **Turn and bank indicator**
9. **Variometer**
10. **Manifold pressure gage**
11. **Oil temperature gage**
12. **Engine ignition switch**
13. **Altimeter**
14. Pilot's Direction Indicator (in No Realistic Navigation mode only)
15. **Artificial horizon**
16. **Tachometer**
17. Cylinder head **temperature gage**
18. **Carburetor pressure gage**
19. **Oil pressure gage**
20. Landing gear **position indicator**
21. **Propeller pitch lever**
22. **Flaps lever**
23. **Throttle**
24. **Mixture lever**
25. **Supercharger lever**
26. **Bomb release lever**
27. Landing light switch
28. Instrument light switch
29. Position lights switch



I-185 M-71 & M-82



I-185 M-71 & M-82



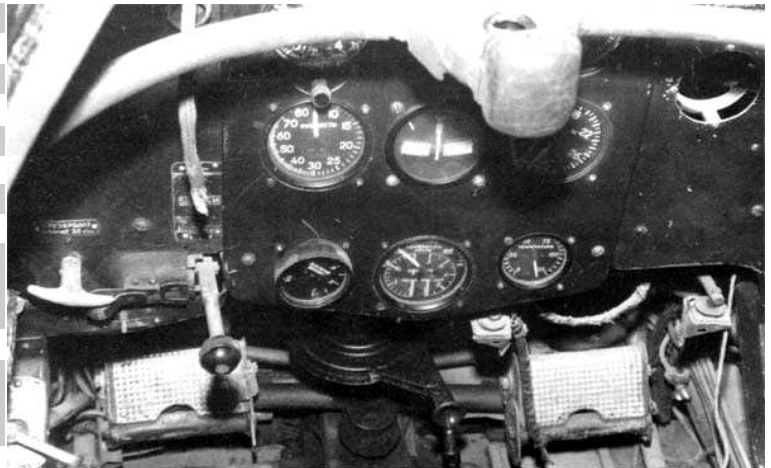


1. Homing indicator
2. Artificial horizon
3. Airspeed indicator
4. Turn and bank indicator
5. Variometer
6. Altimeter
7. Clock
8. Magnetic compass
9. Engine 1 (left side ouboard) tachometer
10. Engine 2 (left side inboard) tachometer
11. Engine 3 (right side inboard) tachometer
12. Engine 4 (right side ouboard) tachometer
13. Co-pilot artificial horizon
14. Co-pilot homing indicator
15. Co-pilot altimeter
16. Co-pilot turn and bank indicator
17. Co-pilot airspeed indicator
18. Co-pilot magnetic compass
19. Throttle levers for all 4 engines





1. Altimeter
2. Magnetic compass
3. Manifold pressure gage
4. Airspeed indicator
5. Turn and bank indicator
6. Tachometer
7. Landing gear lever
8. Clock
9. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
10. Coolant temperature gage
11. Landing gear position indicator: green - down
no light - transition
red - up
12. Propeller pitch lever
13. Supercharger lever: rear position - stage 1
front position - stage 2
14. Throttle
15. Flaps lever



Yak-1 (<http://www.airwar.ru/aww2.html>)

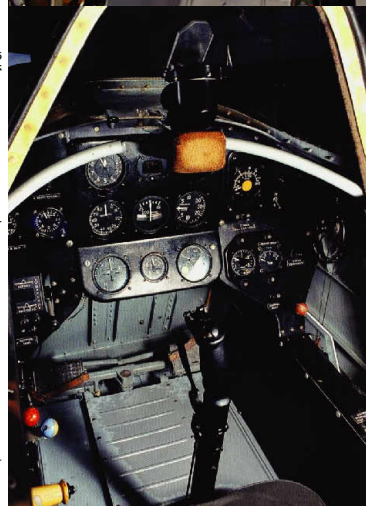




1. Altimeter
2. Magnetic compass
3. Clock
4. Fuel gage
5. Low fuel warning light
6. Airspeed indicator
7. Turn and bank indicator
8. Variometer
9. Landing gear position indicator: green - down
no light - transition
red - up
10. Landing gear lever
11. Manifold pressure gage
12. Tachometer
13. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
14. Electric generator warning light
15. Propeller pitch lever
16. Supercharger lever: rear position - stage 1
front position - stage 2
17. Throttle
18. Flaps lever



Yak3M (www.nzrpm.co.nz)



Yak3 (www.aeronautics.ru/archive/wifibooks/cocipit/small/Yakovlev%20Yak-3.jpg)





1. Altimeter
2. Magnetic compass
3. Clock
4. Fuel gage
5. Low fuel warning light
6. Airspeed indicator
7. Turn and bank indicator
8. Variometer
9. Landing gear position indicator: green - down
no light - transition
red - up
10. Landing gear lever
11. Manifold pressure gage
12. Tachometer
13. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
14. Electric generator warning light
15. Rocket engine switch
16. Rocket engine fuel gage
17. Rocket engine fuel gage
18. Rocket engine exhaust temperature gage
19. Propeller pitch lever
20. Throttle
21. Supercharger lever: rear position - stage 1
front position - stage 2
22. Flaps lever



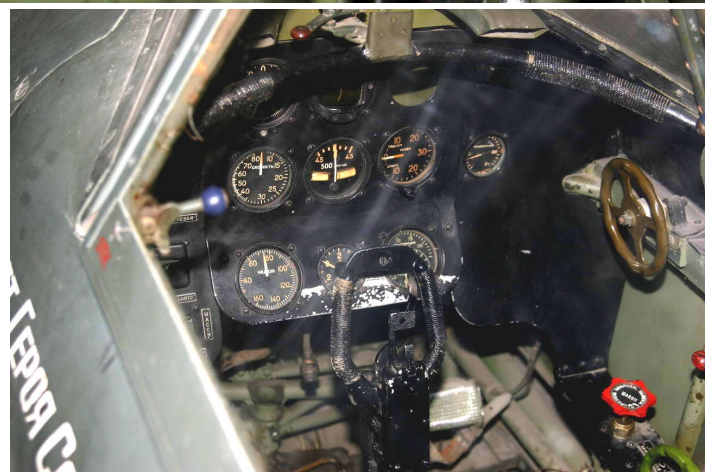


- 1. Altimeter
- 2. Magnetic compass
- 3. Manifold pressure gage
- 4. Airspeed indicator
- 5. Turn and bank indicator
- 6. Tachometer
- 7. Landing gear lever
- 8. Clock
- 9. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
- 10. Coolant temperature gage
- 11. Landing gear position indicator: green - down
no light - transition
red - up
- 12. Propeller pitch lever
- 13. Supercharger lever: rear position - stage 1
front position - stage 2
- 14. Throttle
- 15. Flaps lever





1. Altimeter
2. Magnetic compass
3. Clock
4. Coolant temperature gage
5. Airspeed indicator
6. Turn and bank indicator
7. Variometer
8. Low fuel warning light
9. Electric generator warning light
10. Landing gear lever
11. Manifold pressure gage
12. Tachometer
13. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
14. Propeller pitch lever
15. Throttle
16. Supercharger lever: rear position - stage 1
front position - stage 2
17. Flaps lever

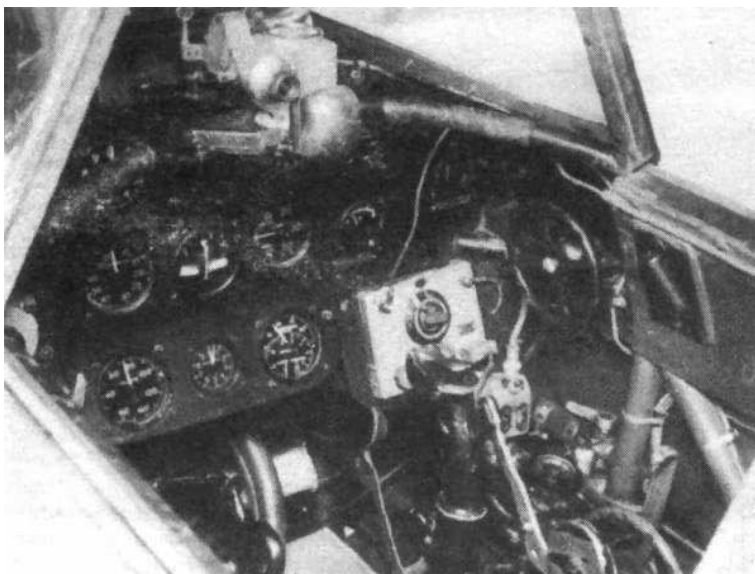


Yak-9 (<http://walkarounds.airforce.ru/avia/rus/yak/yak-9/index.htm>)



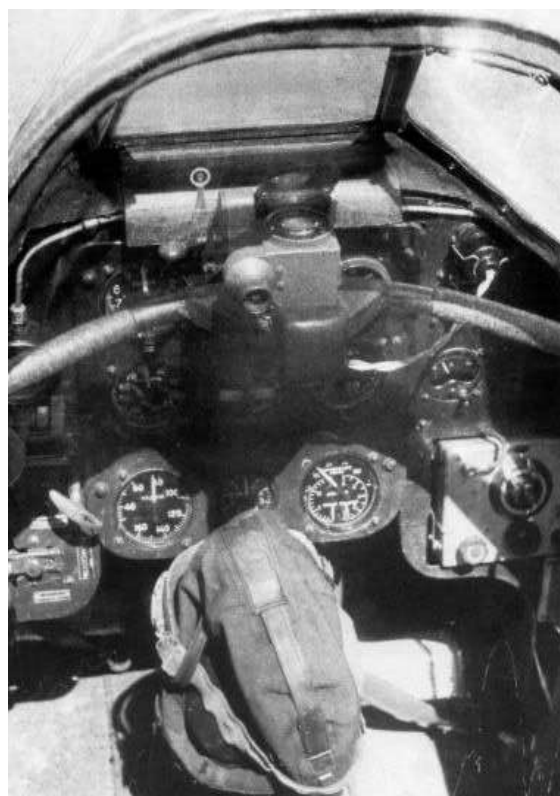


1. Altimeter
2. Magnetic compass
3. Clock
4. Coolant temperature gage
5. Airspeed indicator
6. Turn and bank indicator
7. Variometer
8. Pilot's Direction Indicator (in No Realistic Navigation mode only)
9. Low fuel warning light
10. Electric generator warning light
11. Landing gear lever
12. Manifold pressure gage
13. Tachometer
14. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
15. Propeller pitch lever
16. Throttle
17. Supercharger lever: rear position - stage 1
front position - stage 2
18. Flaps lever





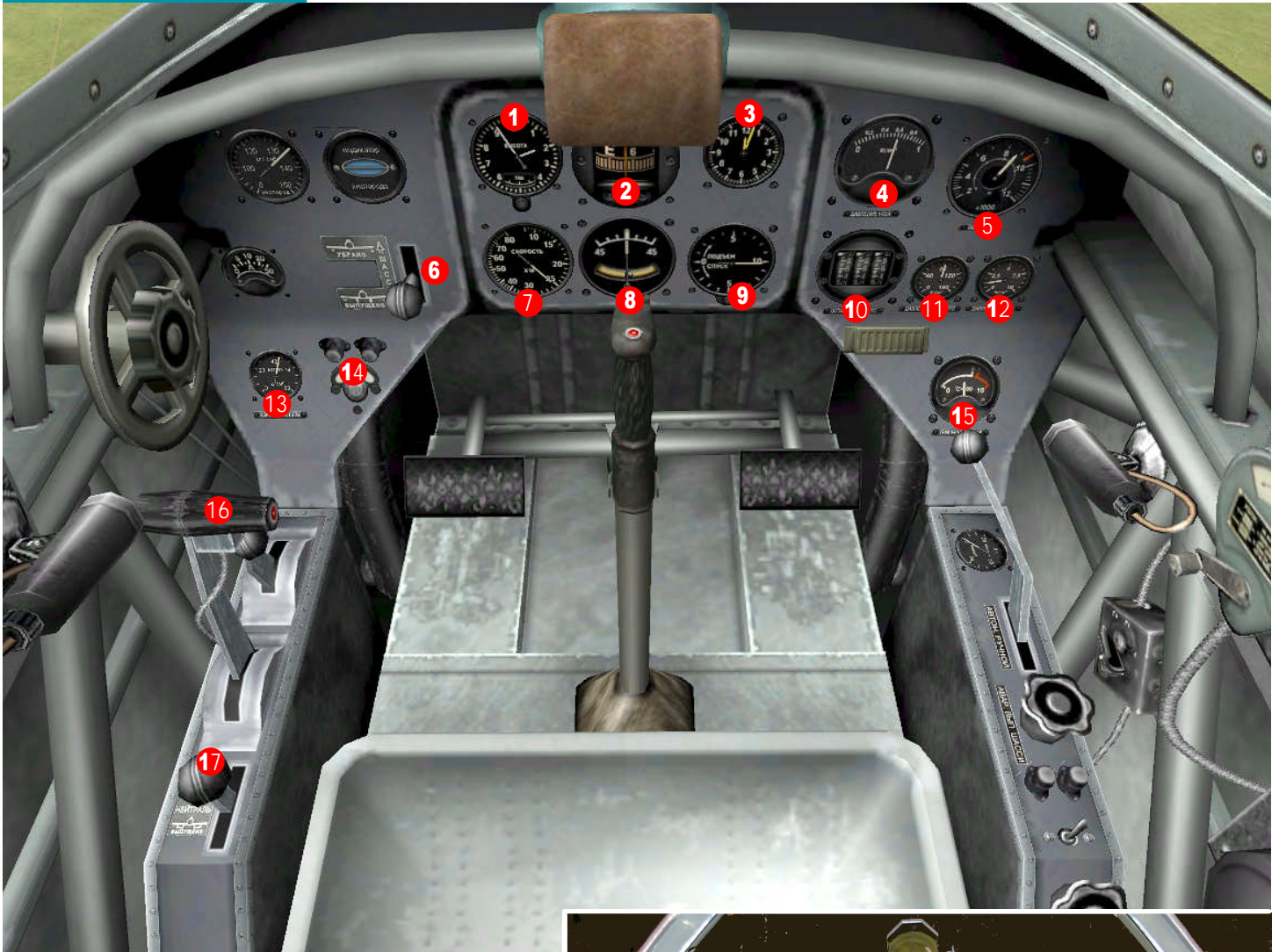
- 1. Altimeter
- 2. Magnetic compass
- 3. Clock
- 4. Coolant temperature gage
- 5. Airspeed indicator
- 6. Turn and bank indicator
- 7. Variometer
- 8. Low fuel warning light
- 9. Electric generator warning light
- 10. Landing gear lever
- 11. Manifold pressure gage
- 12. Tachometer
- 13. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
- 14. Propeller pitch lever
- 15. Throttle
- 16. Supercharger lever: rear position - stage 1
front position - stage 2
- 17. Flaps lever



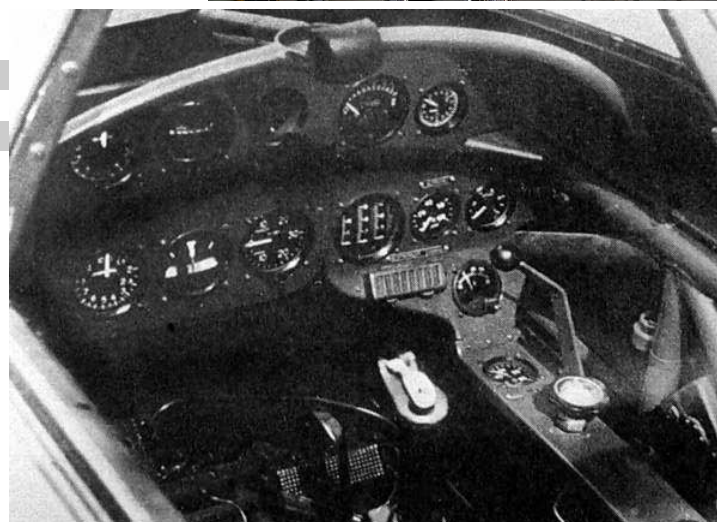


- 1. Altimeter
- 2. Magnetic compass
- 3. Clock
- 4. Fuel gage
- 5. Low fuel warning light
- 6. Airspeed indicator
- 7. Turn and bank indicator
- 8. Variometer
- 9. Landing gear position indicator: green - down
no light - transition
red - up
- 10. Landing gear lever
- 11. Manifold pressure gage
- 12. Tachometer
- 13. Engine gage: oil temperature (top)
oil pressure (left)
fuel pressure (right)
- 14. Electric generator warning light
- 15. Propeller pitch lever
- 16. Throttle
- 17. Supercharger lever: rear position - stage 1
front position - stage 2
- 18. Flaps lever





1. Altimeter
2. Magnetic compass
3. Clock
4. Exhaust gas pressure gage
5. Tachometer
6. Landing gear lever
7. Airspeed indicator
8. Turn and bank indicator
9. Variometer
10. Fuel gage
11. Fuel injection pressure gage
12. Oil pressure gage
13. Compressed air pressure gage
14. Landing gear position indicator:
green - down
no light - transition
red - up
15. Exhaust temperature gage
16. Throttle
17. Flaps lever



Yak-15 (<http://www.airwar.ru/ww2.html>)





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