

Army Air Force.

- | | | |
|-------|----------------|----------------|
| 1st | New York. | Mitchell Field |
| 2nd | Colorado. | |
| 3rd | Florida | |
| 4th | California | |
| 5th | Australia | |
| 6th | Canal zone. | |
| 7th | Hawaii | |
| 8th | England | |
| 9th | Egypt | |
| 10th | India | |
| 11th | Alaska. | |
| 12th | Mediterranean | |
| 13th | New Caledonia | |
| 14th | China | |
| 15th. | Mediterranean. | |

Traitor's Wife: Maria Quisling - wife of Vidkun Quisling.
Russian born.

April 9, 1940 - Quisling, Norwegian Defense Minister betrayed King Haakon + delivered his country into the hands of Nazis.
Valley Forge - Dec 19, 1777.

Though peace + beauty lie upon it now, Valley Forge - where not a bullet was fired - is still a battle field in the minds of us all. For here we fought the battle of doubt + discouragement; here we might have disbanded, given up the cause as hopeless.

Nine days[±] thereafter they overtook the enemy at Monmouth and beat him. Valley Forge itself was a victory not of American Arms but of the American spirit.
soporic - sleep causing soporic effect on his audience

1. Field Marshal Karl von Rundstedt - Junker veteran - supreme commander of the West Front
2. Field Marshal Johannes Blaskowitz - front line defense of Aachen
3. " " Erwin Rommel - army of shock + maneuver
4. " " Hugo Sperrle - Luftwaffe
- " Lt. General Kurt Student - air borne troops.
ledipact - throw off outer coat. strip-tease

Jerry Geisler - ~~most~~ ^{smartest} famous criminal lawyer of West Coast.

Masha Kovic. Ukraine.

Pancho Segura. Tennis star from Ecuador. 2 handed drive

Diesel Engine. Compression of air causes temp - 900°
Diesel fuel ignites quite at 550°

anachronism. Anything incongruous in pt of time with its surroundings
agog -

Allison Engines P-38 Lightning
 P-39 Aircobra
 P-40 Warhawk.
 T-51 Mustangs.

Dual Tachometer + Synchroscope.
 Plexiglas - Transparent Plastic

North America Mitchell B-25.
 Upper Turret 2 - 50 C. M.G.
 nose 4 - 50 M.G.
 3" Cannon.

Blister 2 - 50 M.G. on each side
 Waist Turret. 1 - 50 M.G. " " "
 Tail " 2 - 50 M.G.

C-87 = converted B-24.

Rep. Thunderbolt. P-47. 2000 H.P. 18 Cy engine
 Consolidated Vallee Liberator

Coronado 4E Patrol Bomber
 Catalina 2E " "
 P4Y Anti sub. Bomber,
 Tingeeau Dive bomber

Dushcraft. C-45 personnel transport
 C-54 Sky master (2400 H.P.)

Bell Aircobra P. 39.
 Brewster Corsairs
 Curtiss P. 40
 Grumman Wildcats.

B-26.

Vought-143 sold Jap. 1936
 zero heavier by 1000 lbs -

5500	4800
39' 5"	33'
29' 7"	25' 11"

Zke swap back type V-143 extends outward from fuselage in straight line.
 V-143 wings built in 3 pieces. Center sect. + 2 outer wing

Zke in single pieces.
 Sakae TK1 14 Cylinders twin row air cooled. 900 H.P.
 similar to ~~TK1~~ (Pratt Whitney Twin Row Wasp

C-4 prototype of C-54

Abilene Christian	- Abilene, Texas.
Agnes Scott	- Decatur, Ga '89
Alabama	- Tuscaloosa, Ala '31
Amherst	Amherst Mass '21
Arizona	Tucson, Ariz. '85
Arkansas	Fayetteville.
Baker U.	Baldwin City, Kansas
Barnard	N. Y. part of Columbia
Baylor	Waco, Texas.
Bennington	Bennington Vt. women
Boston	Boston
B. Y. U.	Provo, Utah
Bryn Mawr	- Bryn Mawr Pa
Butler,	Indianapolis, Ind.
U. of Calif	Berkeley, Calif
Carnegie Tech.	Pittsburgh, Pa
U. of Chicago	1898
Clark U.	Worcester, Mass
Coe	Cedar Rapids, Iowa
Colgate	Hamilton N. Y.
Colorado U.	Boulder, Colo
Colorado S. of M.	Golden, Colo

Coronet

- Russian Borach
 Italian Minestrone - thick soup with barley, vermicelli, vegetable
 Holland erwtensoep
 Spain. Puchero
 U.S. clam chowder
 France pot-au-feu
 Scotland cock-a-liekie
 china bird's nest
 West Indies pepper pot - stew of veg. meat or fish.
 Norway trondhjemer.

- Sartorial - cloth
 Piscatorial fish
 Pedagogical blackboard
 Histrionical make up
 numismatical coin.
 philatelic stamp
 tonorial whicker
 gubernatorial note.
 ethnological birds
 typographical ink stamps

- Anthony - Cleopatra
 Pyramus - Thisbe - Legendary lovers of Babylon. Love then dies
 Abelard - Heloise
 Henry - Boleyn
 Amphus - Eurydice
 Helen - Paris
 Elizabeth - Leicester
 Venus - Mars
 Napoleon - Josephine
 Mary - Bothwell.

Hydrophobia		morbid dread	of water;	rabies
Acrophobia		-	-	height
Xenophobia		-	-	foreigners, strangers
Necrophobia		-	-	dead body
Nyctophobia		-	-	night
Claustrophobia	..	-	..	closed room
Hematophobia	..	..	..	blood
Algo-phobia	..	..	..	pain
Taphophobia	..	..	..	buried alive
Myrsophobia	..	..	..	dirt

conceal -

Elevator.	昇降舵	shōkō da
Aileron	補助翼	hojō yoku
Rudder	方向舵	hōcō da, 舵
Flap	下付翼	sageyoku.

A.

圧力 9 7 7 atsuroku tanku Hydraulic Tank (Pressure Tank)

安全金鉤起動器 anzen kōkidōki Hydraulic Tail Wheel lock (Safety Hook actuator)

B

爆彈投下器 Bakudan tōka ki Bomb rack (Bomb Release)

刷子压力 Barashi atsuroku Brush Pressure

尾車輪起動器 Birin kidō ki Tail Wheel Hydraulic Retraction. Cylinder.
(Tail Wheel Actuator)

尾部緩衝支柱 Bibu kansho shichū Tail Shock Absorber strut.

弁調整 Valve Regulation

C.

直流変圧機 chokuryū henatsuki D.C. Transformer

直流電圧兼電流計^{(5)型} chokuryū denatsu denryū kei Voltammeter.
(D.C. Voltammeter 'Aero' Model 5

直流電圧計 chokuryū denatsu kei Voltammeter (D.C. Voltammeter
調整圧力 Regulating Pressure.

導線抵抗 dōsen teikō Lead Wire Resistance.
電解蓄電器 denkai chiku denki Electrolytic Condenser.
電動慣性起動器. Dendō Kansei Kido Ki Starter (Electric Inertia starter)
電線接手用 densen sesshūyō For Use with Electric Wire Connection.
電壓回轉速度計指示器. denatsu kaiten sokudō shishi ki
電動起 Tachometer Indicator. (Voltage Revolution Speed Meter Indicator)
電動起動裝置 dendō kido sochi starter motor (Electric Starting ^{Device.})
電壓調整器. denatsu chōsei ki Generator Voltage Regulator (Voltage Regulator)
電纜 denran Ignition Harness (Electric Cable)

F

噴射ポンプ junsha pump Injection Pump.

^G
減速用制限開閉器. gensokuyō seigen kaihei ki (Speed Reduction Control Switch)
(Speed Reduction Control Switch)

排氣溫度計 haiki ondo-kei Exhaust Gas Temp. Gauge.

變調塞流線輪 hencho saryu sen rin. W/T choke coil (Regulating choke coil)

發電動機 hatsuden dōki Generator Motor

表示燈開閉器 hyoshi tei kaihei ki Indicator Light Switch.

發信管秒時切換操作器。

Timing switch (Transmitter Tube seconds operating switch

試 shi ki Type.

J.

自 受 自	轉 感 魚	油 部	鹿	jiten yūrotu.	oil filter (Rotary oil filter)
				jū kambu	Receiving sensitive part.
				じら	net weight

嵌合機	Kangō Ki	Solenoid.
迴轉方向	Kaiten hōkō	Direction of Rotation
艦上	Kanjō	Bomb Release
慣性起動裝置	Kansei Kidō sōchi	Starter (Inertia starting Device)
慣性始動機	Kansei shidō Ki	Starter (Inertia starter)
脚用制限開閉器	Kyakuyō seigen kaihei Ki	Landing Gear Limit Switch (Limit Switch for Undercarriage)
混合比計	Kōgō hi kei	Mixture Ratio Gauge
型式(通風)	Kōshi (tsūfū)	(Mixture Ratio Gauge Model) Transmitter.
型式(通風)	Kata, shi Ki (tsūfū)	Model, Type (Wind Driven)
高壓	Kōatsu.	High Tension
潤滑溫度計	Katsuya Bondō Kei	Oil Temperature Gauge (Lubricating Oil Temp Gauge)
改電磁器	Kai den ji Ki	Solenoid (Improved Electromagnet)
高壓制動車輪	Kōdō seidō sharin	High Pressure Brake Wheel
可聽固波變壓器	Kochō shuha henatsu Ki	W/T Audio Frequency Transformer
空氣初壓	Kū Ki shōatsu	Initial Air Pressure
氣筒(筒)溫度計	Ki tō ondo Kei	Cylinder Head Temp. Gauge (Cylinder Temp Gauge)
機上	Ki jō	Aircraft
瓦千	Kilogram.	
每/量 ²	Kgs/cm ² .	
高壓油ポンプ	Kōatsu yū pump	Hydraulic Pump (High Pressure Oil Pump)
高壓油切替コック	Kōatsu yū settai cōck	Hydraulic Gun Recharging Valve.
降流		(High Pressure Oil change cock)
降流氣化器	Kōryū ki ka ki	Down Draught Carburettor.
近路兼	Kin ro ben	By pass valve
檢査年月日		Date of Inspection
行程	Kōtei	Stroke
脚緩衝支柱	Kyaku Kanshō shichū	Main Landing Gear Strut (Undercarriage Shock Absorber Strut)
檢印		Inspection Stamps.
警火燈標示火燈	Kei tō hyōshi tō	Indicator Light (Warning Indicator Light)
航空92揮發油	Kōkū 92 Ri hatsuyū	Aviation Spirit 92.
航空鑛油		Aviation Mineral Oil
間隙	Kangeki	clearance
型	Kata	Model

無線機 W/T set. 一起動器. ~~starter~~ - Oscillator (starter)

N.

燃料警報器發信器 - nennyō keihō hi hasshin ki Fuel Warning Device

(Fuel Warning Device Transmitter)

燃料調圧弁

Fuel Regulating Valve.

二極下制限開閉器。

Two Pole Lower Limit Switch

R.

零式自動操縱裝置一型 reishiki jido sojū sochi ichi gata.

Type 0 Automatic Pilot Model 1.

臨時

rinji

Emergency.

立

ritsu

Litre

零式二號艦上戰鬥機型. Type 0 Mark 2 Carrier Borne Fighter Model

冷態

reitai

cold.

5.

作動油 sakudō yū Movement oil.
昇压器 shō atsu ki Boost.
昇降度計 shō kō dō kei climb and Fall Indicator (Rate of climb
and fall Indicator.

送信機 sōshinki transmitter.
操舵油筒 Servo Unit. (Steering Oil Tube
旋回銃架 senkai jū ga Flexible Gun Mount.

酸素吸入器 Oxygen Inspirator.
操縦者用落下傘 Parachute (Parachute for use of Pilot)

使用油 shiyō yū Type of oil to be used.

最伸長 sai shin chō Maximum Extension

試压 shiatsu Test Pressure.

使用機体 shiyō kitai For use with Fuselage

修理年月日 shūri nengappe Date of Repair.

始 33 度前 終 83 度後
Open before 33 close after 83.

V.

定格

tei ka ku

fixed rate.

特許

to k ken

Patent.

低圧

tei kō

low Tension.

填充

ten jū

to fill up.

耐圧

tai atsu.

Pressure Limit

点火角度

ten ka ka kudō

Ignition Angle.

点火順序

ten ka

Firing Sequence

Y.

油 濾 過 器	ya roku ka ki	Oil Filter.
油 量 計	yū ryō kei	Fuel Capacity Gauge.
油 質	yū shitsu	Type of oil
油 压 空 气 併 用 緩 衝 器	yū atsu ka ki hei yō kanshō ki	Main Landing Gear oleo strut (Hydraulic and Pneumatic shock Absorber)
油 量 計	yū ryō kei	Fuel Gauge Metering Arm (Fuel Capacity Gauge)

A 6 M 1.	Type O F Zeku (fixed Wing Tip)
A 6 M 2	" " " (folding " "
A 6 M 3	" " " Zeku mk 2 ~ Stamp.
A 6 M 2-n.	" " " Zeku Nakajima
A 6 M 2-n	" 2 FFP Refs "
A 6 M 5	" O F Zeku model 52.
B 5 M 2	Type 97 TB Kate
D 3 A 1	Type 99 DB Val mk 1
D 3 A 2.	Type 99 DB Val mk 2.
D 4 Y 1	Type 2 R Judy.
E 13 A 1	Type O F P Zeku
F 1 M 2.	Type O F P Pete.
G 3 M 1	Type 96 2EB Nell mk 1
G 3 M 2	Type 96 2EB. Nell mk 1
G 3 M 3 2B	Modification of Type 96 2EB Nell mk
G 3 M 3	Type 96 2EB Nell mk 2.
G 4 M 1	Type 1 2EB Betty.
G 5 ...	Probably Liz.
G 6 M 1	Possibly 15 or 16 Exp. Bomber.

Zeku (Type OF) 零式口号艦上戰鬥機口型
 Namp (Type OF) 零式二号艦上戰鬥機
 Rupe (Type 2FFP) 零式一号水上戰鬥機 (AGM2-N)
 Pete (Type OFP) 零式觀測機一型
 Jake (Type OFP) " " 一号水上偵察機一型 Watanabe.
 Val (Type 99 DB) 九九式艦上爆速機 Mitsui 43, 51-52
 Nell (Type 96 2EB) 九六式陸上攻雷機 Mitsui 43, 45, 52.
 Betty (Type 1 2EB) 一式陸上攻雷機 G4M1 Kasai 114 15
 Cherry (Type 99 2EFB)
 Pete. Mitsubishi 10 Exp. Observation seaplane
 三菱十試水上觀測機 Zuiji 13. Mitsui.
 Judy (Type 2R) 二式艦上偵察機 (Aichi)
 Kate (Type 97 TB) 九七式二号艦上攻雷機 (attack plane)
 Oscar #43 Sonia #51 陸軍工
 Tony #61 三式戰鬥機 (川崎)
 Lily #48 九九式輕雷爆速機 川崎 (Type 2 1150 H.P. Kawasaki)
 Top #44 二式戰鬥機 #44
 Nick #45 二式重戰鬥機
 Sally #21 九九式重雷爆速機
 Heidi #46 百式司令部偵察機
 Helen #49 百式重雷爆速機
 Sonia #51 九九式陸上偵察機
 Claude (Type 96F) 九六式艦上戰鬥機 - Type 262
 Oscar - Type 99 900 H.P. Mitsubishi
 Type 2 1150 H.P. Nakajima

- engine cowling** - removable metal covering placed all or part of an airplane engine. It is a vital element in the fairing & cooling of engine.
- nacelle** - an enclosure which is fastened to the wing for the purpose of fairing an object which is larger than the boundaries of the air foil section; said object usually being its power plant.
- fairing** - an auxiliary member or structure whose primary function is to reduce head resistance or drag of its part to which it is fitted
- drag** - air resistance
- fillet** - a metal, wood, or fabric part used as a fairing. Also, the fil which a weld makes at the intersection of two welded parts.
- fuselage** - The structure, of approximate streamline form, which houses the crew, passengers, or cargo, & to which is attached the wings, and tail units, and the engine mount
- Trailing edge** - The rear most edge of an air foil.
- air foil** - any surface, such as an airplane wing, aileron, or rudder, etc designed to obtain a useful reaction from the air thru which it moves.
- aileron** - a hinged or movable portion of an airplane wing, the primary function of which is to improve a rolling motion on the airplane.
- flap** - a hinged or pivoted section forming the rear portion of an airfoil used to vary the effective camber.
- stringer** - a stiffener is member used to reinforce thin sheets
- shear beam; struct.** - a beam designed to take shear loads & transmit them to portions of its structure where they can be properly absorbed.
- (wing spar)
- ~~Struct~~

beam; - a rigid body designed to transmit transverse loads in shear and/or bending to its points of support

rib - any member of an airplane structure which serves the purpose of giving a specific external shape or contour to the structure. From a strength standpoint, they usually add rigidity and are frequently designed to resist compression as well as shear loads.

Lightening holes, holes in aircraft parts where metal has been removed because the metal in that specific location was not doing any useful work + its removal lessened the weight with no decrease in its structural strength.

Wings.

Drag strut, a fore and aft compression member of the internal bracing system of an aircraft wing structure

leading edge: foremost edge of an airfoil or propeller blade.

faming rib, the lighter, form-giving parts, used in airfoil construction

false rib, short light ribs used as auxiliary ribs between the portions of the main wing ribs which are located forward of the front spar. The purpose of a false rib is to give greater support to the fabric wing covering, maintain a smoother curve over the leading edge of the wing

Wing spar - a principal span-wise transverse member of the wing structure of an airplane

drag wire - a wire which resists the tendency of a wing to bend backward in a chord-wise direction. \rightarrow

Anti-drag wire - a wire intended primarily to resist the forces acting forward in its chord direction

Cap strip - a continuous member on the upper + lower edge of many wing ribs.

- beads** - a trough-like portion formed in a flat sheet metal member for the purpose of stiffening the sheet.
- bulkheads** - a transverse partition or a closed frame in a structure separating one portion from another.
- stressed skin** - strength of the external covering of the airplane is utilized to carry structural loads.
- flange** - any web stiffening portion of I beam sections, channel sections, cap strips on wing ribs, or spars etc.

Control surfaces.

- empennage** : - The rear part of an airplane, usually consisting of a group of stabilizing planes, to which are attached the control surfaces. Sometimes this portion is referred to as: airplane tail assembly, Tail group etc.
- stabilizer** - any airfoil whose primary function is to increase the stability of an aircraft. It usually refers to the fixed horizontal tail surface of an air plane, as distinguished from its fixed vertical surface.
- balance** -
- elevator** - a removable auxiliary airfoil, the function of which is to impress a pitching ^{moment} ~~movement~~ on the aircraft. The "elevator" is usually hinged to the stabilizer.
- tab** - an auxiliary airfoil attached to a control surface.
- rudder** - a hinged or movable auxiliary airfoil on an aircraft, the function of which is to impress a yawing moment on the aircraft.
- tail fin** - a fixed or adjustable airfoil, attached to an aircraft approx. parallel to the plane of symmetry, to afford directional stability.

Frisse aileron - an aileron having the nose portion projecting ahead of the hinge axis, the lower surface being in line with the lower surface of the wing. When the trailing edge of the aileron is raised, the nose portion protrudes below the lower surface of the wing and increasing the drag on that wing tip.

Slotted aileron - an aileron having a nose + axis arrangement somewhat similar to frisse aileron, but having a smooth air passage between the nose portion of the aileron and the wing for the purpose of maintaining a smooth air flow over the upper surface of the aileron when its trailing edge is deflected downward.

Spoiler or slot, a small narrow hinged strip like flap arranged to be projected above the upper forward surface of a wing, ahead of its aileron. Its purpose is to disturb the smooth air flow, and increase its drag on the wing tip at the same time that its aileron on the same wing is turned upward.

Flap: a hinged or pivoted section forming the rear portion of an air foil, used to vary the effective camber.

Devices - any mechanical device or liquid which eliminates ice after forming on an airplane.

Pitot Tube - An cylindrical tube with an open end which is pointed upstream. When airplane flies less than 200 mi per hour it measures impact pressure.

pelorus - a circular bearing plate, graduated in degrees which may be used to determine the true or relative bearings of object

pitot tube - a cylindrical tube with an open end pointed upstream used in measuring impact pressure

propeller cuffs - an attachable streamlined covering for propeller blade roots.

propeller root - that part of the propeller blade near the hub.

propeller tipping - a protective covering of the blade of a propeller near the tip

$R = \frac{E}{I}$

resistance = voltage / current.

shackle. a metal attachment member having a loop at one end and provision for inserting a clevis pin at the other end.

towing sleeve - a tubular fabric envelope towed by an aircraft and used as a target

Cable splice - a method of joining cables to provide a union at least as strong as the cables being joined

spousson - a protuberance from a sea plane hull designed to increase the beam or give lateral stability at rest.

sump - The portion of an engine crankcase serving as the reservoir for lubricating oil.

Wing tip vortices - spiral airflow generated at the wing tips during the passage of an airfoil through the air.

Essential Requirements of the airplane.

1. means of sustentation - "Wings" are surfaces designed to give lifting forces.
2. means of housing properly the crew, etc.
3. engine - propeller unit. (means of propelling)
4. means of navigation - control surfaces.
5. means of supporting etc. landing gear

P-47. Republic. Thunderbolt

Republic P-47 Thunderbolt

De Havilland "Mosquito" Rolls Royce Merlin 21 motors

Bell Airacobras

Curtis P-40 Warhawk

North American Mitchell B-25. Medium Bomber.

Lockhead Hudson A-29. Light Bomber.

Fairey Fulmar Carrier based fighter

Martin B-26. Marauder.

Lockhead P-38 Lightning

Navy Corsair Hellcat

Bonings B-17 Flying Fortress

chine - the intersection of the bottom with the sides or deck of a sea plane float.

wheel chock - a block or piece of wood or metal for placing in front of the wheels of an airplane while on the ground, to prevent its motion

compass rose - a circle graduated in degrees from 0 to 360, printed on aeronautical charts as a reference to directions, true or magnetic

connecting rod -

plain

forked.

articulating V.

articulating W

articulating radial

cowlings - a removable covering.

dead center - The crankshaft position when the piston has traveled its max (top dead center) or min. (bottom dead center) distance from the center of the crankshaft.

sonic detector -

Doldrum - the equatorial belt of calms or light variable winds, lying between the two trade wind belts.

Parasite drag - that portion of the drag of an aircraft exclusive of the induced drag of the wings

dynamic damper - a pendulum damper arrangement on a radial engine crankshaft to minimize vibration at all operating speeds.

elevator - a movable aux. airfoil, the function of which is to impress a pitching moment on the aircraft

exhaust-collector ring - a circular duct into which the exhaust gases from the cylinders of a radial engine are discharged

extension drive shaft - a directly coupled shaft between the engine and the propeller,
fairing - an aux. member or structure whose primary function is to reduce the drag of the part to which it is fitted

fillet - ~~an~~ a fairing employed to smooth out the flow of air at an internal angle

gusset - generally a small triangular brace plate used to reinforce the corners in a structure

horn - a short lever attached to a control surface of an aircraft, to which the operating wire or rod is connected

lofting - laying out ^{shop} working drawings in full scale.

lock nut - a nut provided with a locking device which operates when applied to a screw to prevent the nut from turning due to vibration

lock washer - a washer incorporating a locking device which operates when placed under a nut to prevent the latter from turning due to vibration

longeron - a prime. long. member of the framing of an airplane fuselage or nacelle, usually continuous across a number of points of support

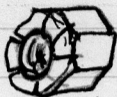
M.S.G. blister - a substantially transparent housing provided in the side, top or bottom of airplane fuselage to accommodate a m.g.

oil wiper ring - a piston ring located at the lower end or skirt of an internal combustion engine piston, to serve primarily to prevent excessive oil from entering the combustion chamber.

oleo gear - a type of oil damping device that depends on the flow of oil through an orifice for its shock absorbing effect in a landing gear.



plain nut.



castle nut.



shear nut.

- Ball bearing - a low friction type of bearing employing ball rollers to reduce friction
- Roller bearing - a low friction type of bearing employing cylindrical rollers to reduce friction
- thrust bearing - a ball or roller bearing designed to provide thrust support for a shaft.
- Blade back - The side of the propeller blade that corresponds to the upper surface of an air foil.
(front)
- Blade rear - The surface of a propeller blade that corresponds to the lower surface of an air foil.
(rear)

Gas -

Chloraceto-~~phene~~ phenone Gas - (CN5)

smells like apple blossom.

used for counter battery to make it necessary for enemy personnel to wear protective masks.
(makes eyes smart, shut tightly, tear flows temporary (wash eye with water or basic acid))

Diphosgene (DP) smells like musty hay, green corn.

used for harassing and casualty fire.
causes coughing, breathing hurts, eye water toxic.

(keep quiet and warm - give coffee as stimulant)

Ethyl di-chlorarsine Gas (ED)

stinging, biting
causes blisters, sores.

used for counter-battery, preparation fire,
harassing fire.

Lewisite Gas (M-1)

smells like geraniums.

Irritates nasal passages, lacerates skin burns.
poison.

(apply 2 to 5% solution H_2O_2 . irrigate eyes with water or 2% sodium bicarbonate solution)

- Chlorpicrin (PS) smells like fly paper.
causes severe coughing, crying, lung edema.
(wash eyes, keep quiet + warm)
- Adamsite (DM) smells like coal smoke)
causes sneezing, sick depressed feeling.
(remove to pure air + keep quiet)
- Mustard (HS) smells like garlic, horse radish, mustard.
burns skin + membrane.
- Phosgene (CG) ~~smells~~ smells like musty hay, green corn.

bomb bay - a large opening in the underside of the fuselage, usually provided with doors, thru which bombs may be dropped.

bore - internal diameter of a cylinder

boost - to supply an engine with more air or mixture than it would normally induct at sea level.

brazing - a process for joining parts of metal with melted bronze or hard solder

bulkhead - lateral divisions of a closed fuselage.

burble - a term designating the break down of the stream line flow about a body.

cabane - an arrangement of struts used for bracing on an aircraft.

control cables - line of wires or stranded cable leading from the control levers to the control surfaces.

Cam - an eccentric surface used to give variable movement to the mechanism of the valves of an engine

Canopy - the sliding portion of cockpit cowling.

bow cap - a cap of metal or fabric used to reinforce the extreme forward end of a bow supporter of a non rigid or semi rigid dug outship.

Kyushu

Satsuma	Kagoshima
Osumi	Kagoshima
Hiuga	Miyazaki
Higo.	Kumamoto
Bungo	Oita
Chikugo	Fukuoka.
Chikuzen	Fukuoka.
Buzen.	Oita
Hizen	Saga. Nagasaki

Shikoku.

Sanuki	Kagawa.
Awa	Tokushima
Iyo	Ehime
Tosa.	Kochi

Honshu

Mutsu	Aomori	Kaga	Ishikawa
Ugo	Akita	Echizen	Fukui
Rikuchiu	Iwate	Mikawa.	Aichi
Rikuzen	Miyagi	Totomi	Shizuoka
Uzen	Yamagata	Owari	Aichi
Echigo	Niigata.	Ise	Mie.
Washiro	Fukushima	Iga.	Nara.
Iwaki	Fukushima	Yamato	Nara
Kotsuke	Gumma.	Kii	Wakayama.
Shimotsute	Tochigi	Hawachi	Osaka.
Hidachi	Ibaragi	Izumi	Osaka
Shimosa.	Chiba	Omi	Shiga.
Kadusa	Chiba	Yamashiro	Kyoto
Musasa.	Tokyo-Saitama	Wakasa.	Kyoto
Shinano	Nagano	Setsu.	Hyogo
Suruga.	Shizuoka	Tango	Kyoto-Hyogo
Izu	Shizuoka - Kanagawa	Tamba.	Hyogo
Noto	Ishikawa	Harima	Hyogo
Echiu	Toyama	Tajima	Tottori
Hida	Gifu	Inaba.	Tottori
Mino	Gifu	Minasaka.	Okayama.
Kai	Yamanashi	Hoki	Tottori

Bizen	Okayama
Izumo	Shimane-Tottori
Bichiu	Okayama
Bingo	Hiroshima
Iwami	Shimane
Aki	Hiroshima
Suwo	Yamaguchi
Nagato	Yamaguchi

C. D. D.	byoin	gotai shomeishi
Commissary General		kyū yō kyoku cho
Circular		kaishō
Color		gunki
Court martial		gumpō kangi
Compilation		kenatū
Chief of Bureau of Insular Affairs		tō mukyoku cho
Chief of Chaplain		gunzō kyoku cho
Chief of Finance		kiiri kyoku cho
Collecting Point		raku go sha shū shijo
Collecting station		kangū shūshūjo
Commutation -		dai shō kin
Contract		keiyaku
Convalescent		sei yō byō in
Chief A. M.		kyū yō buchō
Civil Service		chūkan
Day Bombardment Group		chūkan baku shū tō
Discharge + Final Statement		yo tai ryōkin sei sanjō
D. E. M. L.		bunhaken kashi sotsu ^{mei bo}
Deport		shū eki sho
Detachment		bun kentai
Dir. of Movements + Quarters		hō kyū kyoku iten yakuei kacho
Distributing Point		bunpai sho
Deposit		ryōkin
Drill Instruction Regulation		sei ten
Depression Range Finder		fukaku sokuen kis
Detached Service		taigai kemmu
Director of Salvage		senjō seiri buchō
Director of Work		gun sag yō bu cho
Ext Extra Duty		tokubetsu mimmō
Elevation		-kō do
Embarkation		jō sen
Emergency		hiyō
Enlistment		fuku eki tikan
Embarkation Staff Officer		tei hakujō shūritan
Establishment		tei in
Evacuation		kō sō
Except		ryōku
Exclusive		fukumazu

Finance	kaiki, kuri
Field Despatching officer	sensen shikarai kan
Frontier Guard	kokkyo gun
Flank Guard	soku u
Field Order	g yagai meirei
Field service	jinbu kemmei
Final statement	kessanetsu
General staff Branch	sambo
	G 1 nengi bu
	G 2 cho ho bu
	G 3 yoku kyoku bu
	G 4 hotyū bu
Garrison Artillery	yosai ho heii
General Court-martial	ko ti gumpokaeji
Gen. Hospital	eiji byōin
Gen. Intermediate Depot	shūseki shuchi shoshō
Geological Survey	chiki sokuryō
G. 74. D.	sō shireibu
G. I.	kankyū
Gen Lumber	zensha
Gen Order	ippan meirei
Gov. General	sō take
Grave Registrations Service	senchi fumbo siri kan
Gen. Service	ippan kemmei
Howitzer	ryū dampo
Harbour Defence	ko wan bo gyo
High explosive	ko kyū bakuryaku
74. C.	honbu chū tai
Quasar	kyō ki hei
Horse shoe	tei tetsu ko totsu
Horse Transport	bakki shicho
Individual Clothing Record	kojin shikyū ^{inokuroku} hufuku
Inspector - General	kan gun kyoku
Inchuseme	fukunaru
Indorsement	ura gaki, ii sho
Installation	setsu bi
Inland Water Transport	nai chi suiro unso
Judge Advocate	ho meu ken

kilogramme
kilometre
Lancers
Latitude
line of duty
low explosive
lumbered general service
Letter of Instructions
leave
metre
military advisers
magnetism
missing believes killed
manual
Maintenance Section
Motor Dispatch Service
Med. Admin Corps
Med. Supply section
Memorandums
Meteorological
militia
muzzle loader -
millimetres
gunji teki sagyo -
observer
officer in charge
Ordnance Station
O. D.
Pioneer + Demolition Section
paymaster
Privy Council
Post Commander
Post Exchange
Park
pursuit

kilogramme
kilometre
so kichi
ido
fukusumochi
kumumochi
tei kyū bakuyaku
skills salary
kunjū
kyūka
mitōri
gunji ko mon
shunsi jūki
sei shi fumei
kyōhan
Kōzai bu
jido sha denri bu
iji kyōsei bu
ei sei saaryō hōkyū^{kan}
bi hō roku
kishi
menchi, kokumō gun
zensō hō
military work
kansōtōshū
kakari shō ko
genten
nit choku shokō
doko baku ha kan
shukū
sumetsu in
ei jū shirei kan
ei jū shukō
dada butsu
tsūgi giki

bastion

ryō hō

casemated bastion

kyūtkō ryō hō

battle losses

sentō ni yoru songai

pitched battle

gekisen

show "

mogisen

bayonet

ken

bayonet charge

jikin tōtōu geki

" frog

kena ashi

" stult

chiryō

to fix bayonets

chakken suru

utter beaker

tanga sōtōu

stretcher "

tanga "

compass bearing

jūchin hōi

beaten zone

hidari chi

beach mark

suruyūhyō

Ordnance.
Rangoon
Quick Firing
Q. M. Corps
Quarters
Radio Company
Salvage
Sappers + Miners
smooth bore
south latitude
Searchlight battery
service record

straits settlement
subsistence
survey
tactical
Tables of Basis allowance
Tractor drawn
Temporary
Tables of Organization
transferred
training unit
voucher
verbal order

heiki
tetsu
sokusha,
hokyo bu
shakui
musendenheim chūtai
~~shō~~ hatsu kusei
kajō kōhei
kakko
nani
tancho-to chūtai
fukumi keroku
shunjo meishi shō
kakyū shokumen chi
kyū yo
sokuryō
senyūtai teki
kikon kyū yo hin kyō
jidō shū kin in shū
teki teki
henshi kyō
ten in
kyō dōtai
denkyō
kodatsu meiri

Cross fire	kōsai shageki
Cylinder	kitō
Cylinder head	kitō tō
gas .. lock	kisui shi
recoil cylinder	chūtai kan
Covering fire :	engō shageki
to cover ground	ki shin suru
retaliate	hō fuku suru
main line of resistance	shutai kōsen
relaxing action	yokuryū sen
reprimand	kensetshi
remanded	ryū
register	shageki shūsin
reinforcement	zōeru fuesu
recuperator	fukuyaku
recapture	dakkan
ravine	kyō toku
oil groove	chūyū kō

Auxiliary Gunboat	tokusetsu hō kan
Battle Ship	senkan
Battle Cruiser	jun-yō senkan
Cruiser	jin-yō kan
Coast Defence Vessel	kaiho kan
Combined Destroyer Group	kuchikurentai
Division	shotai
Destroyer	kuchikudōtai
Destroyer Group	kuchiku tai
Depot ship	bokan
Aircraft Tender	kōku bokan
Destroyer Depot ship	suirai bokan
Mine Sweeper Depot ship	sō kai bokan
Fleet	kantai
Gunboat	hō kan
Grand Fleet	rengō kantai
Gunboat Group	hō kantai
Naval Gun	kaigunho
River Gunboat	kayō hō kan
Squadron, Flotilla	sentai
Submarine	sensubun
Destroyer Squadron	suirai sentai
Submarine Group	sensentai
Submarine Squadron	sensui sentai
Salvage ship	kyū nansen
Torpedo Boat	shiraitai
Mine Sweeper	sō kaitai
Mine Sweeper Group	sō kantai

Field Artillery	ryakō hei
Anti Aircraft unit	ko shahōtai
Artillery Amm. Train	hō hei danyaku chūtai
Alarm Post	kei kyū shūgōjo
Pack Artillery	sampō hei
Bridging Train	gakyō zairyō chūtai
Chūtai Battery wagon line	chūtai danretsu
Corps	gundan
Radio unit	musen denshentai
Divisional Signal Unit	shiden tsūshin tai
Siege Artillery	kōjō jū hō hei
Balloon Unit	kikyū tai
Field Telegraph Unit	yasen denshintai
Air Service Signal Unit	kokū tsū shintai
Grand Alarm	- kei kyū dai shūgōjo
Howitzer	ryūdampō
Infantry Gun Detachment.	hōhei hōtai
Canon	kanon
Automatic Rifle.	kei - kikenjū
Light Trench mortar	kei haku geki hō
Ammunition Column	danyaku. chūtai
Horse Depot.	basō
Commissariat	ryō shokū chūtai
Carrier Region Troops	shikyū tai
Ei seitai Sanitary Troop.	ei seitai
Artillery Wagon Line	danretsu
Field Searchlight Corps:	yasen shō meitai
Train	shichō
Transport Group.	yusō sentai
Field Telegraph Unit	yasen denshintai

artillery strength	hōka no uryōku
accompanying artillery	zuiban hōhei
attached artillery	haizoku hōhei
close support artillery	kenkyōri shien hōhei
"	chakusetan kyōdō hōhei
Garrison artillery	shujō hōhei
horse drawn artillery	baei hōhei
mountain artillery	sampo hōhei
supporting artillery	shien hōhei
asbestos	sekumen
assault position	kōgeki jūmō jūchi
to deliver an assault	shūgeki suru kyōshū suru
assembly area	shūgō chūki
to sound the assembly	shūgō rappa wo fuku
to assign	shōgaku sechinuru
atmospheric depression	teikiatsu
attack ment	haizoku
attack direction	kōgeki hōkō
attack frontage	kōgeki shōmei
attack in massed formation	miuster kōgeki
counter attack	hangeki
deliberate attack	shinshō naru kōgeki
feint attack	yōgeki
point of attack	kōgeki ten
renewal of the attack	kōgeki saikō
surprise attack	hisshū
to abandon attack	kōgeki wo danren suru
to launch an attack	kōgeki wo kaishi suru
auditor	kankū tansa-kan
automatic lubricator	jidō chūyuki
"	spatter - jidō danchaku
"	stabilizer jidō antei sōchi
"	switch jidō-kan
axis	jikū
axis of attack	kōgeki jikū
axis of signal communication	tsūshin jikūsen
axis of communication	tsūshin kansensū
axle	shimbō, shajiku

azimuth	hōi	hōkakaku
magnetic azimuth	jūshin	hōi
true azimuth	shinhōi	
ballist	sakkin	
to drive back.	gekitaishuru	
backfire	fukuen	suru
back ground	kaishi	
back sight	shōshaku	
bacteria	bakkin	
baggage car	kasha	
baggage guard	kōri	kinshitai
baile	kakuban.	
back	haru	
sounding balloon.	kishō	sokutiryō kikyū
adhesive bandage.	bansōko	
bandolier	dan yakutai	
bank	senkai	
crow bar	karateko	
heika barracks	heika	
living in barracks	einai	kyōjū
barrage	dammaku	shageki
barrage chart	dammaku	kiikaku-hyō
barrage fire	dammaku	shageki
creeping barrage	yidō	dammaku
enfilade barrage	jūsha	dammaku
protective dash barrage.	engō	dammaku
to call for barrage.	dammaku	shageki
to lay down ..	wo	sukyū suru
barrel.	dammaku	wo
fire arms	suru.	
rifle	taru	
cannon.	kaslin	
barricade	jūshin	
barrier.	hō shin	
base line.	sonitau	
trench mortar battery	bōheki	
	kisen	
	hokugeki	hō chutai

abandon	hōki suru
to " an position	jinchū wo suteru
to " an attack	kōgeki wo chirushi suru
to " the dead and wounded	shishōsha wo iki suru
abatis	rakusai
able abandoned ^{bagged}	tenkō-tai no
absence	kesseki
A. W. O. L.	mutadake kesseki
abutment	kyōso
accelerator	kosokuki
accessories	fujokulin
accountant	kanjin kauri
accoutrements	sōgu
accumulator	chikudenki
act of war	senso kōi
acting	dairi
bitterly contested action	kusen,
	gekusen
containing action	yokuryūsen
local action	kyōku chusen
readiness for action	sentō jūmbi
shock action	hakuhai sen
to come into action	sentō ni sankan suru
to be incapable of ^{fulfill} action	sentoryoku wo uchinaru
to prepare for action	sentō jūmbi wo totomaru
to take action	shocki suru
active service	jūgun.
aircraft activity	koku ki ni katsudo
adapter	shikan
adjutant	fukukan
Administration	gyōsei
advance	kōshin, zenshin
headlong advance	taishin
line of advances	zenshinro
to advance to the attack	kōgeki zenshin suru
advanced base	zenshin konkōchi
advanced guard	zen ei
advanced position	zenshin jinchū
advanced post	zenshin shō

aerial bomb	toke bakudan
aerofoil	fuiban
aid	shien enjo
aileron	hojōyokul.
aim corrector	shōjun kansaki
air compressor	ku ki assakuki
air current	kiyū
air valve	ku ki ben.
airscrew	rasenki
air screw blade	rasenki-yaku
air tight	kumitau no
alidade	shōjūngi
ambush	fukukui
ambush	fukukui wo haishi suru
amplifier	zō fukuki
anchorage	tei hakujō
aneroid	kiatsukei
anti dim	sei sei zai
anti tank obstacle	tai sensha shō gabutsu
appendix	furoku
application	tekiyō, oyo,
appointment	ruimie meika
approach	sekkin kinsetsu
apron (of gun shield)	kahō bōjun
area commandant	chiku shireu kan
dead area	kanku shireu kan
fortified area	shikaku
occupied area	ryōsai chitai
arm	senryōki
limitation of armament	busu suru
Armature (dynamo)	gumbi seigen,
(magneto)	hatsudenshi
(motor)	sekkyokushi
armour piercing	dendō shi
armour plate	hakō
arsenal	sōkō ban
artery	kō shō, zō heito
artillery preparation	kekkan
artillery smoke screen	kūgeki jūmū kōgeki
	hōkei enmaku

a bras ouvertes

cordially

annuit coeptis

God has smiled on our undertaking

a outrance

to the utmost

coup de maitre

a master stroke

grande passion

dove