

FM 30-38

BASIC FIELD MANUAL

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MILITARY INTELLIGENCE

IDENTIFICATION OF JAPANESE AIRCRAFT

Prepared under direction of the Chief of Staff



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FM 30-38, Military Intelligence, Identification of Japanese Aircraft, is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,

Chief of Staff.

OFFICIAL:

J. A. ULIO, Major General, The Adjutant General.

DISTRIBUTION:

Х.

(For explanation of symbols see FM 21-6.)

LIST OF ILLUSTRATIONS

JAPANESE ARMY

Single engine fighters:	Page
BFW (Messerschmitt 109)	4
Kawasaki 92	6
Kawasaki 95	ă
Kawasaki 97	10
(Kawasaki Kawa 102) 98	12
Mitsubishi 96	14
	14
Mitsubishi 97	18
Mitsubishi 98 (Karigane II)	
Mitsubishi Zero	20
Nagoya Zero	22
Nakajima 91	24
Nakajima 96	26
Nakajima 97	28
Seversky 98	30
Twin engine fighters:	
Mitsubishi Century	32
Dive bombers:	
Alchi Clock Alchi	34
Number 96	36
Light bombardment:	
Kawasaki 97	38
Mitsubishi Darai 108 (Type 97)	40
Mitsubishi Kamikazi 97	42
Mitsubishi Mitsu 103	44
Mitsubishi Mitsu 104 (Type 98)	46
Number 97	48
	50
Number 98	52
Number 99	54
Shōwa Shō 98 (Fighter-Bomber)	04
Reconnaissance-bombers:	-0
Kawasaki 88	56
Kawasaki 93	58
Mitsubishi 92	60
Mitsubishi 93A	62
Mitsubishi 93B	64
Mitsubishi 98	66
Nakajima 94	68
Osaka 97	70
Medium bombers:	
Number 98	72
Heavy bombers:	
Kawasaki (Kawa 95) 97	74
Mitsubishi 92	76
Mitsubishi 97	78
Mitsubishi 98 (Mitsu 106)	80
Nakajima 19 (Bomber-Transport)	82
Number 96	84
Number 97	86
Number 98 (B. R. 20 Flat)	88

LIST OF ILLUSTRATIONS

Transports, commercial and military;	Page
Airspeed Envoy	័ទ័០
Douglas DC-2	92
Douglas DC-3	94
Fokker	96
Junkers Ju 52	98
Lockheed 14	100
Mitsubishi MC 20	102
Nakajima A. T	104
Trainers:	
Tatikawa 95-1	106
Tatikawa 95-3	108

JAPANESE NAVY

Fighters:	
Mitsubishi 96	112
Mitsubishi 97	114
Mitsubishi 97 (Modification 01)	116
Nakajima 90	116
Nakajima 95	120
Nakajima 97	122
Nakajima 97 (Naka 93)	124
Nakajima 97 (Naka 97)	126
Number 95 (Carrier)	128
Dive bombers:	
Aichi 99	130
Mitsubishi 96	132
Number 97	134
Reconnaissance-bombers:	101
Aichi 92	136
Aichi Tokei 97 A. I. 92	138
Kawanishi 93	140
Kawanishi 94	142
Nakajima 90-2	144
Number 95	146
Number 97 (Divine Wind)	148
Torpedo bombers:	130
Kawanishi 97 (Kawa 94)	150
Mitsubishi 97	152
Nakajima 98	154
Number 96	156
Bombers:	100
Aichi Ai 104	158
Mitsubishi 96 Mk. III.	160
Mitsubishi 96 Mk. IV	162
Mitsubishi 96 (Otori)	164
Flying boats:	
Hiro 91-1	166
Kawanishi 90-2	168
Kawanishi 97	170
Mitsubishi 96 (Mitsu 95)	172
Number 97 (Sikorsky 5-42)	174

FM 30-38

BASIC FIELD MANUAL

MILITARY INTELLIGENCE

IDENTIFICATION OF JAPANESE AIRCRAFT

(This manual supersedes FM 30-38, March 10, 1941.)

The following illustrations with explanatory data relative to Japanese aircraft are published for distribution. They will be used for instruction of officers and men in appearance and general characteristics of Japanese aircraft.

The Japanese airplane markings are as shown below:

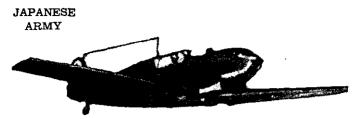


NONE	
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WING Shaded area indicates red

TAIL

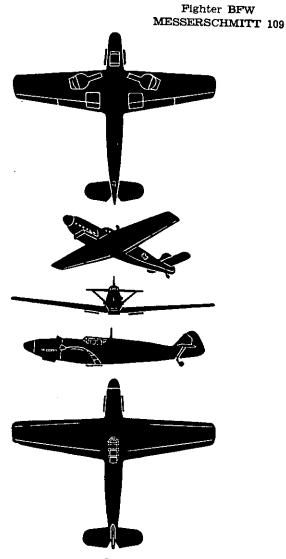
MILITARY INTELLIGENCE



FIGHTER BFW, MESSERSCHMITT 109

Description:	Tapered, square tip, low-wing monoplane. All metal, single motor, pointed nose, inclosed cockpit, and retractable landing gear.
Crew:	One.
Armament:	Four machine guns, and two 20-mm cannon.
Ammunition:	2,000 rounds machine-gun; 120 rounds 20-mm.
Bomb load:	
Radio:	VL
Armor:	
Motors:	1,100-horsepower, 601A, liquid-cooled.
Maximum speed:	354 miles per hour.
Rate of climb:	To 13,120 feet in 3.8 minutes.
Service ceiling:	36,080 feet.
Maximum range: Remarks:	620 miles at 298 miles per hour.

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MILITARY INTELLIGENCE

JAPANESE ARMY

KAWAŠAKI 92 FIGHTER (Obsolescent)

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor:	One.
Motors: Maximum speed: Rate of climb: Service ceiling: Maximum range:	One 500-horsepower Kawasaki (BMW). 205 miles per hour.
Wing span: Remarks:	33 feet.

Fighter KAWASAKI 92



KAWASAKI 95 FIGHTER (Obsolescent)

Description:	Straight, round tip, staggered biplane of unequal span. Single engine, tapered nose, open cockpit, and fixed landing gear.
Crew:	One.
Armament: Ammunition:	Two maćhine guns.
Bomb load:	One 77-pound.
Radio:	
Armor:	
Motors:	One 550-horsepower Kotobuki.
Maximum speed:	155 miles per hour.
Rate of climb:	15,000 feet in 6 minutes.
Service ceiling:	33,000 feet.
Maximum range:	300 miles.
Wing span:	33 feet.
Remarks:	Copy of early Curtiss Hawk biplane.

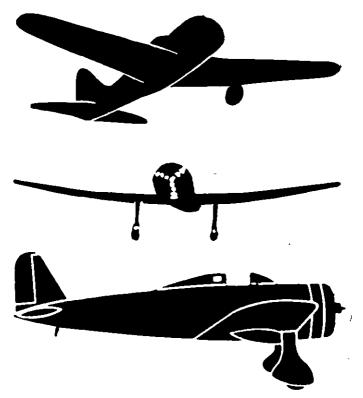
Fighter KAWASAKI 95 ·



KAWASAKI 97 FIGHTER

Description:	Slightly tapered, round tip, dihedral, low- wing monoplane. Single engine, short blunt nose, inclosed cockpit, and fixed landing gear.
Crew:	One.
Armament:	Four machine guns.
Ammunition:	550 rounds per gun.
Bomb load:	
Radio: Armor:	
Motors:	One 850-horsepower Kawasaki 102.
Maximum speed:	300 miles per hour at 15,000 feet.
Rate of climb:	15,000 feet in 5½ minutes.
Service ceiling:	32,000 feet.
Maximum range:	335 miles; with extra fuel tank can be increased to 1,000 miles.
Wing span:	36 feet.
Remarks:	





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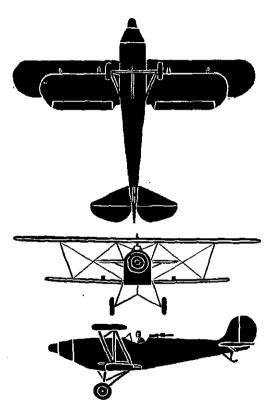
JAPANESE ARMY

(KAWASAKI KAWA 102) 98 FIGHTER

Description:	Straight, round tip, staggered biplane of unequal span. Single engine, long pointed nose, open cockpit, and fixed landing gear.
Crew:	One.
Armament:	Two machine guns and two 20-mm Hotch- kiss cannon.
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	One 820-horsepower Kawasaki, liquid- cooled.
Maximum speed: Rate of climb: Service ceiling: Maximum range:	270 miles per hour at 10,000 feet.
Wing span: Remarks:	29 feet.

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Fighter (KAWASAKI KAWA 102) 98



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MITSUBISHI 96 FIGHTER (Obsolescent)

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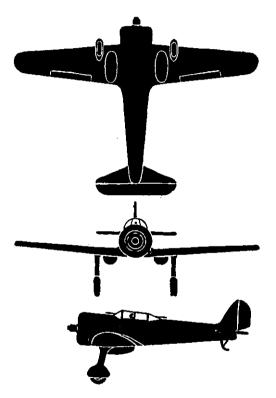
Description:	
Crew:	One.
Armament:	
Bomb load:	
Radio:	
Armor:	
Motors:	One 550-horsepower Nakajima Jupiter.
Maximum speed:	279 miles per hour.
Rate of climb:	
Service ceiling:	
Maximum range:	
Wing span:	33 feet.
Remarks:	

Fighter MITSUBISHI 96

MITSUBISHI 97 FIGHTER

Description:	Swept-back, tapered, round tip, dihedral, low-wing monoplane. Single engine, short blunt nose, inclosed cockpit, and fixed landing gear.
Crew:	One.
Armament:	Four machine guns.
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	One 650-horsepower Mitsu 109 Hispano Suiza.
Maximum speed:	265 miles per hour.
Rate of climb:	15,000 feet in 7½ minutes.
Service ceiling:	29,000 feet.
Maximum range:	375 miles.
Wing span:	36 feet.
Remarks:	Range can be increased to 1,070 miles by adding two belly fuel tanks.

Fighter MITSUBISHI 97



ARMY

JAPANESE

MITSUBISHI 98 (KARIGANE II)

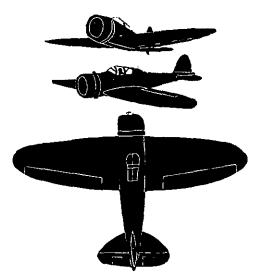
Description:	Tapered, dihedral, low-wing monoplane. Single engine, short blunt nose, inclosed cockpit, and fixed landing gear.
Crew: Armament: Ammunition: Bomb load: Radio: Armor:	T wo.
Motors: Maximum speed: Rate of climb: Service ceiling: Maximum range:	One 800-horsepower Mitsubishi A-14. 310 miles per hour
Wing span: Remarks:	39 feet. Resembles Northrop A–17.

Fighter MITSUBISHI 98 (KARIGANE II)

MITSUBISHI ZERO FIGHTER (Also called Type 00 Model 1 Sento Ki)

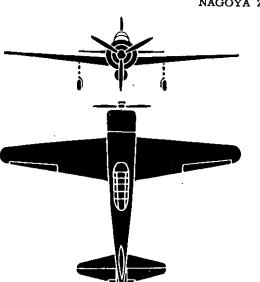
Description:	Elliptical wing, round tip, dihedral, low- wing monoplane. Single engine, short blunt nose, inclosed cockpit, and re- tractive landing gear. General short, stubby appearance.
Crew:	One.
Armament:	Two 20-mm cannon and two machine guns.
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	One Junkers 800-horsepower (some have Nakajima Sakai 12).
Maximum speed:	298 miles per hour.
Rate of climb:	•
Service ceiling:	39,300 feet.
Maximum range:	2,000 miles (approximate).
Wing span:	37 feet.
Remarks:	Has detachable belly tank.

Fighter MITSUBISHI ZERO



NAGOYA ZERO FIGHTER

Description:	Tapered, swept-back, round tip, slightly dihedral, all metal, low-wing mono- plane. Single engine, blunt nose, in- closed cockpit, and retractable landing gear.
Crew:	One.
Armament:	Two 20-mm cannon wing guns; two fixed machine guns.
Ammunition:	500 rounds each machine gun.
Bomb load:	
Radio:	Two-way radiotelephone and code.
Armor:	
Motors:	Single, 840-horsepower Nakajima NK-1, 14-cylinder, twin-row, radial air-cooled engine.
Maximum speed:	344 miles per hour.
Rate of climb:	Fast. '
Service ceiling:	32,810 feet.
Maximum range:	6 to 8 hours endurance with use of belly tank. 150 gallons auxiliary. Total gasoline capacity, 1,200 liters or 324 gal- lons.
Remarks:	Employs dive tactics but avoids use of acrobatics. Can operate from carrier.



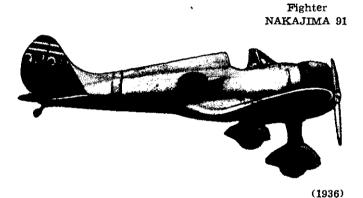
Fighter NAGOYA ZERO

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NAKAJIMA 91 FIGHTER (Obsolescent)

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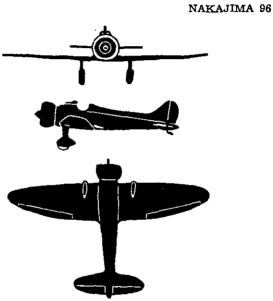
Description:	
Crew:	One.
Armament:	
Ammunition:	
Bomb load;	
Radio:	
Armor:	
Motors:	One 450-horsepower Nakajima Jupiter.
Maximum speed:	201 miles per hour.
Rate of climb:	
Service ceiling:	
Maximum range:	400 miles (approximate).
Wing span:	36 feet.
Remarks:	Resembles Nieuport-Delage.



NAKAJIMA 96 FIGHTER

Description:	Slightly swept-back, dihedral, round tip, low-wing monoplane. Fixed landing gear. Single seat.
Crew:	Single seat.
Armament:	Four 7.7-mm machine guns; some firing through air screw.
Ammunition:	500 rounds per gun.
Bomb load:	
Radio:	
Armor:	
Motors:	Single, Mitsubishi, 730-horsepower, Kin- sei, air-cooled.
Maximum speed:	240 miles per hour at 7,000 feet.
Rate of climb:	5,000 feet in 6 minutes.
Service ceiling:	Critical altitude, 13,000 feet.
Maximum range:	312 miles with military load.
Wing span:	28 feet.
Remarks:	Good climbing ability, small turning circle but <i>fragile</i> . 96 1 Kotobuki, 9-cylinder; 96 2A Hikari; 96 2B Jupiter 6-cylinder, air-cooled motors are those reported used. This appears to be a more recent model of the 96 fighter. Resembles Boeing P26A.

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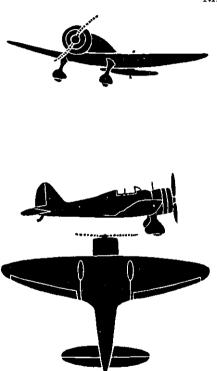
(1937)

Fighter



NAKAJIMA 97 FIGHTER

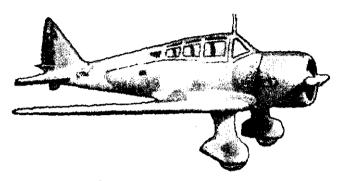
Description:	Swept-back, tapered, round tip, cantllever, low-wing, blunt nose monoplane. Mon- ocoque construction in rear of cockpit. Streamlined, divided, single strut, non- retractable landing gear.
Crew:	Single seat.
Armament:	Three machine guns firing forward (two of these in wings).
Ammunition:	500 rounds per gun.
Bomb load:	
Radio:	
Armor:	
Motors:	Single, Nakajima, 750-horsepower, Hikari, air-cooled motor.
Maximum speed:	280 miles per hour, critical altitude. 240 miles per hour, sea level.
Rate of climb:	
Service ceiling:	33,000 feet.
Maximum range:	389 miles.
Remarks:	Slightly larger than 96 Nakajima Fighter. Some models fitted with retractable landing gear.



Fighter NAKAJIMA 97

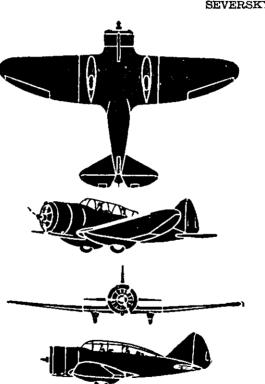
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JAPANESE ARMY



SEVERSKY 98 FIGHTER

Description:	Nonretractable and retractable landing gear.
Crew:	Two seat.
Armament:	Two 7.7-mm wing machine guns, and 20-mm wing cannon.
Ammunition:	,
Bomb load:	500 pounds (reduces range slightly).
Radio:	prairie (readors range sugnery).
Armor;	
Motors:	Twin-row, air-cooled, radial engines.
Maximum speed:	280 miles per hour.
Rate of climb: Service ceiling:	Estimated at 3,500 feet in 1 minute.
Maximum range:	2,600 miles.
Remarks:	Airplanes are equipped with nonretract- able and retractable landing gears. Ap- pears to be a copy of a Seversky Fighter.



Fighter SEVERSKY 98

JAPANESE ARMY

MITSUBISHI CENTURY FIGHTER

Description: Crew: Armament: Two 27-mm cannon. Ammunition: Bomb load: Radio: Armor: Two Nakajima Nk-1, 14-cylinder, radial. Motors: Maximum speed: 350 miles per hour. Rate of climb: Service ceiling: 31,000 feet. Maximum range: 840 miles with ample margin for combat. Wing span: Remarks: Range can be increased to 8 hours by addition of belly tanks.

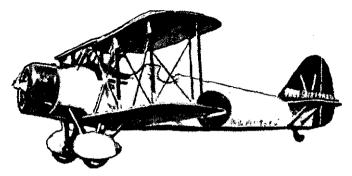
Fighter MITSUBISHI CENTURY

AICHI CLOCK AICHI DIVE BOMBER

Description: Crew: Armament: Ammunition:	Two. Three machine guns (one similar to Lewis).
Bomb load:	550 pounds.
Radio:	bo pounda.
Armor:	
Motors:	One 1,400-horsepower Kinsei 44 twin-row radial.
Maximum speed:	
Rate of climb:	
Service ceiling:	23,000 feet.
Maximum range:	
Wing span:	
Remarks:	

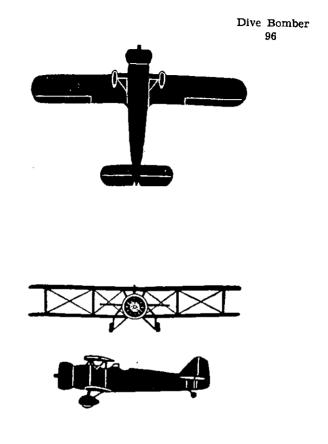
Dive Bomber AICHI CLOCK AICHI

JAPANESE ARMY AND NAVY



DIVE BOMBER 96

Description:	Straight wing, round tip conventional
	type, blunt nose biplane with inter-
	wing bracing. Fixed landing gear with
	wheel fairings. Also has arresting gear and probably floating gear.
Crew:	Three place (2 seat).
Armament:	Two fixed and one flexible 7.7-mm ma- chine guns.
Ammunition:	500 rounds per fixed, 700 rounds per flex- ible machine gun.
Bomb load:	Maximum 1,100 pounds. Carries bombs or torpedo.
Radio:	CW telegraph.
Armor:	
Motors:	Single Hikari (Nakajima), 9-cylinder, ra- dial air-cooled motor. BWM 12-cylin- der, 700-horsepower also used.
Maximum speed: Rate of climb: Service ceiling:	174 miles per hour; 241 miles per hour.
Maximum range: Remarks:	Radius of action, 250 miles.

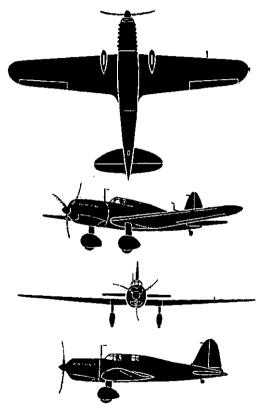


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KAWASAKI 97 LIGHT BOMBER

Description:	Swept-back, tapered, round tip, low-wing monoplane. Single engine, long ta- pered nose, inclosed cockpit, and fixed landing gear.
Crew:	Two.
Armament:	Three machine guns.
Ammunition:	
Bomb load:	800 pounds.
Radio:	
Armor:	
Motors:	One 900-horsepower Kawa BMW liquid- cooled.
Maximum speed:	236 miles per hour.
Rate of climb:	
Service ceiling:	25,000 feet.
Maximum range:	490 miles,
Wing span:	48 feet.
Remarks:	

Light Bomber KAWASAKI 97

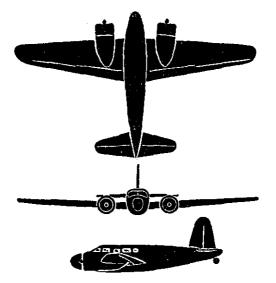


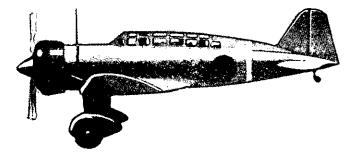
JAPANESE ARMY

MITSUBISHI DARAI 108 (TYPE 97) LIGHT BOMBER

Description:	Slightly swept-back, tapered, round tip, midwing monoplane. Twin engine, ta- pered nose, inclosed cockpit, and re- tractable landing gear.
Crew:	Five.
Armament: Ammunition:	Two cannon and two machine guns.
Bomb load:	1,230 pounds.
Radio:	
Armor:	
Motors:	Two 350-horsepower Darai 108 Diesel.
Maximum speed:	175 miles per hour.
Rate of climb:	
Service ceiling:	20,000 feet.
Maximum range:	500 miles.
Wing span:	48 feet
Remarks:	

Light Bomber MITSUBISHI DARAI 108 (TYPE 97)





MITSUBISHI KAMIKAZI LIGHT BOMBER 97

Slightly dihedral swept-back, round tip, cantilever, low-wing monoplane. Fixed and streamlined landing gear.
Two.
Three machine guns.
300 kilograms or 661.3 pounds.
Single 800-horsepower, Kotobuki.
260 miles per hour.
30,000 feet.
450 miles.
40 feet.

Light Bomber MITSUBISHI KAMIKAZI 97



MITSUBISHI MITSU 103 LIGHT BOMBER

Description:	
Crew:	
Armament:	Three machine guns.
Ammunition:	540 rounds per machine gun.
Bomb load:	1,000 pounds.
Radio:	
Armor:	
Motors:	One 900-horsepower Mitsu.
Maximum speed:	260 miles per hour.
Rate of climb:	
Service ceiling:	27,000 feet.
Maximum range:	790 miles,
Wing span:	
Remarks:	Sometimes used as a reconnaissance-dive bomber.

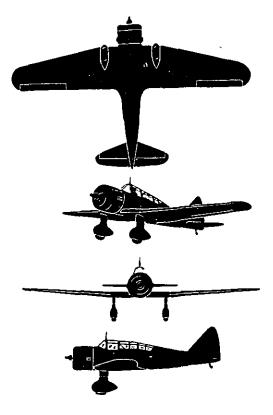
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Light Bomber MITSUBISHI MITSU 103

MITSUBISHI MITSU 104 (TYPE 98) LIGHT BOMBER

Description:	Swept-back, round tip, slightly dihedral, low-wing monoplane. Single engine, blunt nose, inclosed cockpit, and fixed landing gear.
Crew:	Two or three.
Armament: Ammunition:	Three machine guns.
Bomb load:	2 200 pour de
	3,300 pounds.
Radio: Armor:	
Motors:	One Mitsu, air-cooled.
Maximum speed:	250 miles per hour.
Rate of climb!	
Service ceiling:	25,000 feet.
Maximum range:	260 miles.
Wing span:	46 feet.
Remarks:	

Light Bomber MITSUBISHI MITSU 104 (TYPE 98)



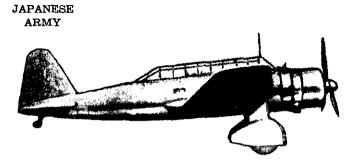


LIGHT BOMBER 97

Description:	Low-wing monoplane. Fixed and stream- lined landing gear.
Crew:	Two seat.
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	Single BMW IV, 12-cylinder, water-cooled engine.
Maximum speed:	280 miles per hour.
Rate of climb:	
Service ceiling:	
Maximum range:	
Remarks:	A model of this type is reported with retractable landing gear, split flaps, arresting and flotation gears.

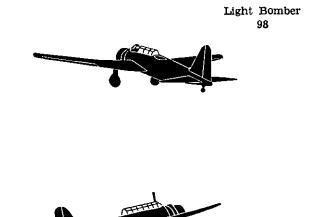


Light Bomber



LIGHT BOMBER 98

Description:	Round tip, midwing monoplane. Fixed and streamlined landing gear.
Crew:	Two.
Armament:	Machine guns and bombs.
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	Twin-row, radial air-cooled. Probably Hikari. Radial engine.
Maximum speed:	
Rate of climb:	
Service ceiling:	16,200 feet.
Maximum range:	
Remarks:	Same as type 97 except it has a radial engine.





JAPANESE ARMY AND NAVY

LIGHT BOMBER 99

Description:	Conventional type low-wing monoplane with hooded cockpit and nonretract- able landing gear.
Crew:	Two place.
Armament:	Two fixed and one flexible 7.7-mm ma- chine guns.
Ammunition:	
Bomb load:	620 kilograms or 1,364 pounds of bombs or one 60-kilogram or 137-pound bomb under each wing and 500 kilograms or 1,100 pounds of bombs under fuselage.
Radio:	Type unknown.
Armor:	
Motors:	Single, 14-cylinder, twin-row, 900- to 950- horsepower, radial air-cooled engine.
Maximum speed:	256 miles per hour (222 knots).
Rate of climb:	Fair.
Service ceiling:	Maximum ceiling, 8,000 meters or 4.6 miles.
Maximum range:	Endurance, 6 hours.
Remarks:	Flotation gear when operating from car- rier.

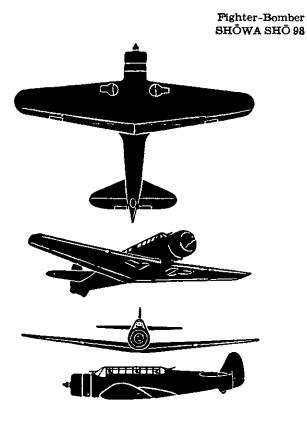
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Light Bomber 99

JAPANESE ARMY

SHÖWA SHÖ 98 FIGHTER-BOMBER

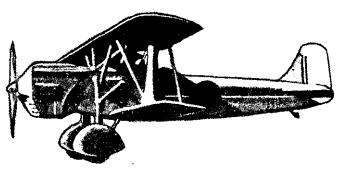
Description:	Swept-back, tapered, round tip, dihedral, low-wing monoplane. Single engine, long blunt nose, inclosed cockpit, and retractable landing gear.
Crew:	Two or three.
Armament: Ammunition:	Two cannon and two machine guns.
Bomb load: Radio: Armor:	2,280 pounds.
Motors:	One 850-horsepower Shōwa.
Maximum speed:	225 miles per hour.
Rate of climb: Service ceiling:	
Maximum range:	950 miles. 50 feet.



KAWASAKI 88 RECONNAISSANCE-BOMBER (Obsolescent)

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor: Motors: One 450-horsepower Kawasaki BMW. Maximum speed: 143 miles per hour. Rate of climb: Service ceiling: Maximum range: Wing span: 50 feet. Remarks:

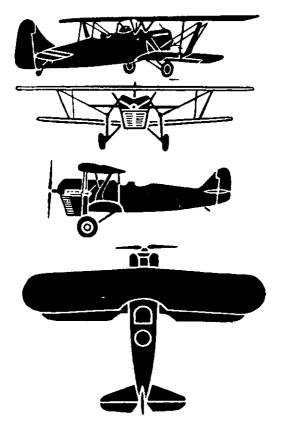
Reconnaissance-Bomber KAWASAKI 88

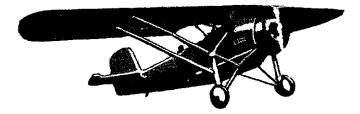


KAWASAKI 93 RECONNAISSANCE-BOMBER (Obsolescent)

Description:	Slightly swept-back, round tip, cut-out, staggered biplane of unequal span. Single engine, blunt nose, open cockpit, and fixed landing gear.
Crew:	Two.
Armament:	
Ammunition:	
Bomb load:	2,200 pounds.
Radio:	
Armor:	
Motors:	One 600-horsepower Kawasaki BMW.
Maximum speed:	162 miles per hour.
Rate of climb:	
Service ceiling:	
Maximum range;	620 miles.
Wing span:	43 feet.
Remarks:	

Reconnaissance-Bomber KAWASAKI 93





MITSUBISHI 92 RECONNAISSANCE-BOMBER (Obsolescent)

Description:	Slightly swept-back, round tip, cut-out, parasol type, high-wing monoplane. Single engine, short blunt nose, open cockpit, and fixed landing gear.
Crew:	Two.
Armament: Ammunition:	Three machine guns.
Bomb load: Radio: Armor:	620 pounds.
Motors:	420-horsepower Mitsubishi Jaguar.
Maximum speed: Rate of climb:	155 miles per hour.
Service ceiling:	20,000 feet.
Maximum range:	370 miles.
Wing span:	43 feet.
Remarks:	Resembles Mureaux.

Reconnaissance-Bomber MITSUBISHI 92







JAPANESE ARMY

MITSUBISHI 93A RECONNAISSANCE-BOMBER (Obsolescent)

Description:	Low-wing monoplane. Twin engine, in- closed cockpit, fixed landing gear, and twin rudders.
Crew:	
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	Two 700-horsepower Mitsubishi or Kawa- saki.
Maximum speed:	137 miles per hour.
Rate of climb:	
Service ceiling:	
Maximum range:	
Wing span:	89 feet.
Remarks:	Resembles Junkers K-37.

Reconnaissance-Bomber MITSUBÌSHI 93A

JAPANESE ARMY					
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MITSUBIS		CONNAISSAN olescent)	CE-BC	MBER	
Description:	-	monoplane. cockpit, fixed adders.		÷ .	
Crew:					
Armament:					
Ammunition:					

Bomb load:	
Radio:	
Armor:	
Motors:	Two 450-horsepower Nakajima Jupiter.
Maximum speed:	155 miles per hour.
Rate of climb:	
Service ceiling:	•
Maximum range:	
Wing span:	66 feet.
Remarks:	Resembles Junkers K-46.

Reconnaissance-Bomber MITSUBISHI 93B

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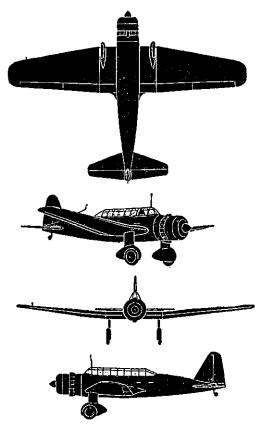
JAPANESE ARMY

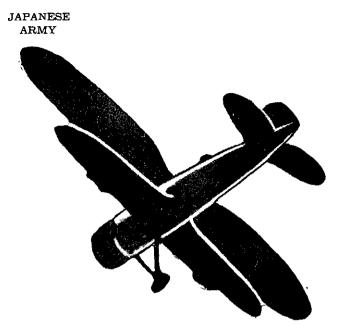
MITSUBISHI 98 RECONNAISSANCE-BOMBER

Description: Swept-back, slightly tapered, square tip, dihedral, low-wing monoplane. Single engine, blunt nose, inclosed cockpit, and fixed landing gear.

Crew: Armament: Ammunition: Bomb load: Radio: Armor: Motors: Maximum speed: Rate of climb: Service ceiling: Maximum range: Wing span: Remarks:

Reconnaissance-Bomber MITSUBISHI 98





NAKAJIMA 94 RECONNAISSANCE-BOMBER

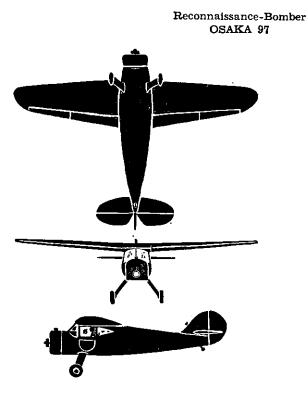
Description:	Round tip, cut-out, dihedral, slightly staggered biplane of unequal span. Single engine, long blunt nose, open cockpit, and fixed landing gear.	
Crew:	Two.	
Armament:	Two machine guns.	
Ammunition:	,	
Bomb load:	660 pounds.	
Radio:		
Armor:		
Motors:	One 200-horsepower Taishahova (Diesel),	
Maximum speed:	175 miles per hour.	
Rate of climb:		
Service celling:	23,000 feet.	
Maximum range:	470 miles.	
Wing span:	39 feet.	
Remarks:	Resembles Chance-Vought.	



JAPANESE ARMY

OSAKA 97 RECONNAISSANCE-BOMBER

Description:	Slightly swept-back, tapered, tapered tip, high-wing monoplane. Single engine, blunt nose, inclosed cockpit, and fixed landing gear.
Crew:	Two.
Armament:	One machine gun.
Ammunition:	
Bomb load:	200 pounds.
Radio:	
Armor:	
Motors:	One 200-horsepower Taishahova (Diesel).
Maximum speed:	162 miles per hour.
Rate of climb:	
Service ceiling:	14,000 feet.
Maximum range:	870 miles.
Wing span:	34 feet.
Remarks:	



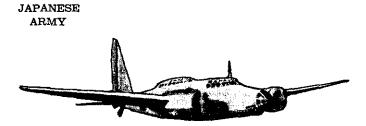
JAPANESE ARMY

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MEDIUM BOMBER 98 (MITSUBISHI 104)

Description:	Low-wing monoplane.	
Crew:	Two to three.	
Armament:	Two 20-mm cannon firing forward; 2 dor- sal machine guns.	
Ammunition:		
Bomb load:		
Radio: Armor:		
Motors:	Single, Mitsubishi, 900-horsepower, air- cooled.	
Maximum speed:	299 miles per hour, critical altitude. 277 miles per hour, sea level.	
Rate of climb: Service ceiling: Maximum range: Remarks:	· ·	

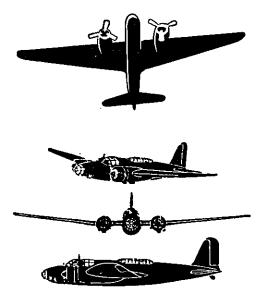
Medium Bomber 98 (MITSUBISHI 104)



KAWASAKI (KAWA 95) TYPE 97 HEAVY BOMBER

Description:	Tapered, round tip, dihedral, midwing monoplane. Twin engine, long, rounded, transparent nose, inclosed cockpit, and retractable landing gear.	
Crew:	Three to five.	
Armament:	Two 25-mm cannon and four machine guns.	
Ammunition:		
Bomb load:	4,400 pounds.	
Radio:		
Armor:		
Motors:	Two Kawasaki 98.	
Maximum speed:	245 miles per hour,	
Rate of climb:		
Service ceiling:	24,500 feet.	
Maximum range:	1,250 miles.	
Wing span:	75 feet.	
Remarks:		

Heavy Bomber KAWASAKI (KAWA 95) 97



JAPANESE ARMY

MITSUBISHI 92 HEAVY BOMBER

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor: Motors: Four 800-horsepower Mitsubishi A14. Maximum speed: Rate of climb: Service ceiling: Maximum range: Wing span: 144 feet. Remarks: Resembles Junkers G-38.

Heavy Bomber MITSUBISHI 92



MILITARY INTELLIGENCE

JAPANESE ARMY

MITSUBISHI 97 HEAVY BOMBER

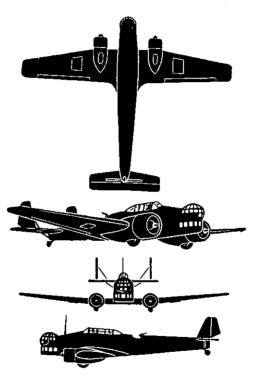
Description:	
Crew:	Five to seven.
Armament:	Four machine guns.
Ammunition:	
Bomb load:	4,400 pounds.
Radio:	
Armor:	
Motors:	Two 870-horsepower Kinsei.
Maximum speed:	220 miles per hour.
Rate of climb:	
Service ceiling:	22,000 feet.
Maximum range:	1,180 miles.
Wing span:	72 feet.
Remarks:	

Heavy Bomber MITSUBISHI 97

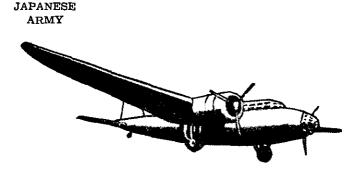
JAPANESE ARMY

MITSUBISHI 98 (MITSU 106) HEAVY BOMBER

Description:	Swept-back, square tip, dehedral, low- wing monoplane. Twin engine, long, rounded, transparent nose with trans- parent hemispherical turret, engine nacelles below wing, inclosed cockpit, twin rudders, and retractable landing gear.	
Crew:	Five. One cannon and four machine guns.	
Armament: Ammunition:		
Bomb load; Radio: Armor;	2,200 pounds.	
Motors:	Two 750-horsepower Mitsu.	
Maximum speed: Rate of climb:	220 miles per hour.	
Service ceiling:	23,000 feet.	
Maximum range:	1,180 miles.	
Wing span: 75 feet. Remarks:		



Heavy Bomber MITSUBISHI 98 (MITSU 106)



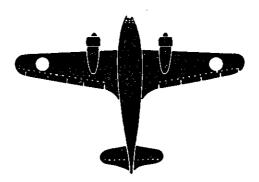
NAKAJIMA 19 BOMBER-TRANSPORT

Description: Tapered, round tip, midwing monoplane. Twin engine, long, pointed, transparent nose, engine nacelles below wing, inclosed cockpit, and retractable landing gear.

Two.
217 miles per hour.
72 feet.

Bomber-Transport NAKAJIMA 19







MILITARY INTELLIGENCE

JAPANESE ARMY AND NAVY



HEAVY BOMBER 96

Description:	Considerably swept-back tapered tip, can-
	tilever, monoplane. Twin rudder tail
	section. Similar to Junkers Ju 86.
	Landing gear is retractable into engine
	nacelle leaving lower half of wheels
	protruding.

Crew: Seven men.

Armament: Five 7.7-mm flexible machine guns in four turrets; twin mounts in rear; single mount in nose above center and tunnel gun in rear of pilot. 20-mm cannon reported used.

Ammunition: 300 to 700 rounds per gun.

Bomb load: 2,200 pounds.

Radio: Directional radio, radiotelephone, blind flying instruments.

Armor: Motors:

 Twin, Mitsubishi, Minsei, 800-horsepower, 14-cylinder, radial air-cooled engines. Total horsepower 1,600.

Maximum speed: 217 to 266 miles per hour at sea level. Rate of climb:

Service ceiling: 22,600 feet,

Maximum range: 750 miles radius of action; endurance, 10 to 12 hours; 725 miles with maximum load.

Remarks:

Heavy Bomber 96 ● ATT 6

JAPANESE ARMY

HEAVY BOMBER 97 (Modified)

Description: Slightly swept-back, round tip, low-wing, cantilever, monoplane. Alloy monocoque smooth skin. Flush riveting construction. Retractable landing gear into wing.

Crew: Seven men

Armament Four flexible 7.7-mm machine guns (one in nose, one in forward turret, one in after turret, one in lower fuselage trap door). Some machine guns are replaced by 20-mm Oerlikon cannon.

300 to 700 rounds per gun.

Ammunition: Bomb load: Radio: Armor'

Motors:

3.000 pounds. Armored seats.

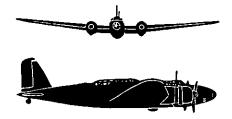
- Twin Mitsubishi, Kinsei, 900-horsepower, 14-cylinder, twin-row, air-cooled engines. Total horsepower, 1,800. Also uses Mitsubishi Jaguar 1,000-horsepower, 14-cylinder, two-row radial, aircooled motor. Also BMW IV watercooled engine.
- 230 miles per hour, critical altitude. Maximum speed: 150 miles per hour, cruising speed. Rate of climb: 1,000 meters in 2.11 minutes.

Service ceiling: Maximum range: Remarks:

Endurance 12 hours at 150 miles per hour. Self-sealing gas tanks. Also oxygen tanka

Heavy Bomber 97 (Modified)

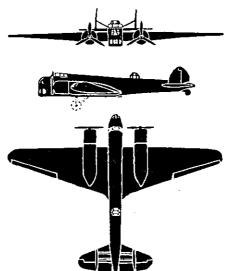




MILITARY INTELLIGENCE

JAPANESE ARMY	
	HEAVY BOMBER 98 (FIAT B. R. 20, 1937) (Also called "Mikado")
Description:	Low-wing cantilever, metal monoplane. Full retractable landing gear and wing flaps.
Crew:	Seven.
Armament:	Three flexible, 12.7-mm Breda and 7.7-mm Safat machine guns forward (one in nose, one dorsal, and one belly gun).
Ammunition:	Breda, 700 rounds. Safat, 900 rounds.
Bomb load:	3,000 kilograms or 6,613.8 pounds.
Radio:	One, type unknown.
Armor;	
Motors:	Twin, Fiat, 1,000-horsepower, 18-cylinder, 4-80 RC 41 Star Model, air-cooled mo- tors; total horsepower, 2,000.
Maximum speed:	252 miles per hour, sea level. 281 miles per hour, critical altitude. Cruising speed, 235 miles per hour at 13,400 feet.
Rate of climb:	2,000 meters in 6 minutes and 3 seconds. 5,000 meters in 18 minutes.
Service ceiling:	Maximum ceiling, 9,000 meters.
Maximum range:	2,200 pound load, 2,400 miles. Medium load, 1,553 miles.
Wing span:	71 feet.
Remarks:	Copy of Italian B. R. 20.

Heavy Bomber 98 (FIAT B. R. 20, 1937) (Also called "Mikado")

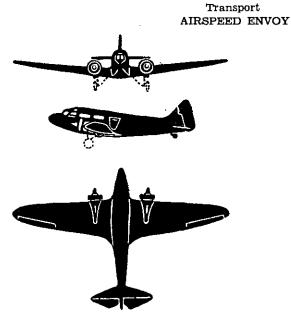


JAPANESE Commercial



AIRSPEED ENVOY TRANSPORT

Description :	Low-wing monoplane.
Crew:	One. Passengers, five.
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	Twin 480-horsepower, air-cooled motor. Total horsepower, 960.
Maximum speed:	280 kilometers or 173.9 miles per hour.
Rate of climb:	
Service ceilng:	Maximum ceiling, 5,020 meters.
Maximum range: Remarks:	Endurance, 4 hours.

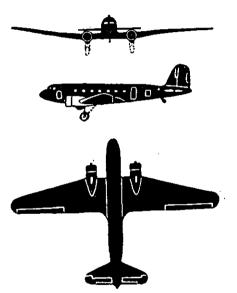


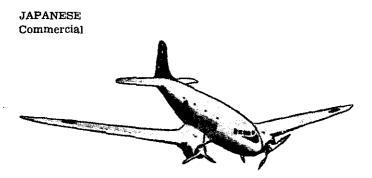


DOUGLAS DC-2 TRANSPORT

Description:	Swept-back, round tip, low-wing mono- plane.	
Crew:	Three. Passengers, 14.	
Armament:		
Ammunition:		
Bomb load:		
Radio:		
Armor:		
Motors:	Twin air-cooled motors.	
Maximum speed:	343 kilometers or 213.1 miles per hour.	
Rate of climb:		
Service ceiling:	Maximum ceiling, 7.200 meters.	
Maximum range:	Endurance, 6 to 7 hours.	
Remarks:		

Transport DOUGLAS DC-2

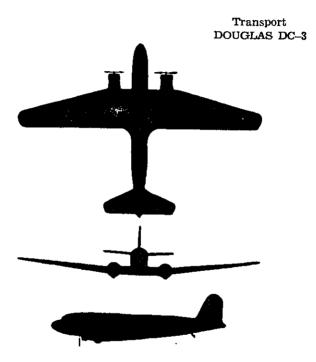




DOUGLAS DC-3 TRANSPORT

Description: Decided swept-back, round tip, dihedral, low-wing monoplane. Twin engine, long elliptical nose, inclosed cabin, and retractable landing gear.

Crew:	
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	Two.
Maximum speed;	212 miles per hour.
Rate of climb:	
Service ceiling:	
Maximum range:	
Wing span:	95 feet.
Remarks:	

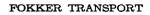


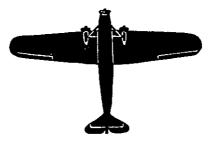
JAPANESE Commercial



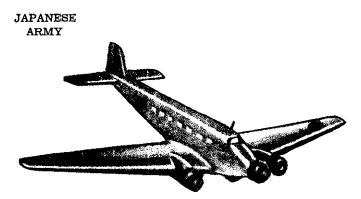
FOKKER TRANSPORT

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor:	High-wing monoplane. Two. Passengers, eight.
Motors:	Triple 750-horsepower, air-cooled motors, Total horsepower, 2,250.
Maximum speed: Rate of climb:	190 kilometers or 118 miles per hour.
Service ceiling: Maximum range: Remarks:	Maximum ceiling, 4,500 meters. Endurance, 6 hours.







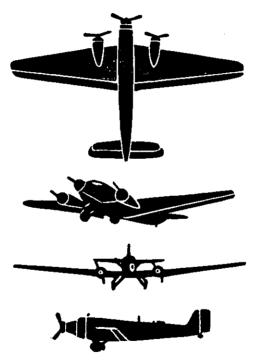


JUNKERS JU 52 TRANSPORT

Description: Swept-back, tapered, slightly raked tip, dihedral, low-wing monoplane. Three engines, long tapered nose, engine nacelles under wing, inclosed cabin, and fixed landing gear.

Crew:	
Armament:	Two machine guns.
Ammunition:	
Bomb load :	
Radio:	
Armor:	
Motors:	Three.
Maximum speed:	180 miles per hour.
Rate of climb:	
Service ceiling:	
Maximum range:	
Wing span:	96 feet.
Remarks:	

Transport JUNKERS JU 52



JAPANESE Commercial



"LOCKHEED 14" TRANSPORT

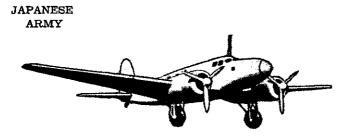
Description:	Swept-back, tapered wing, middle-wing monoplane.
Crew:	Four. Passengers, 10.
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	
Maximum speed:	426 kilometers or 264.7 miles per hour.
Rate of climb:	
Service ceiling:	Maximum ceiling, 8,000 meters.
Maximum range:	Endurance, 7 to 9 hours.
Remarks:	

Transport "LOCKHEED 14"





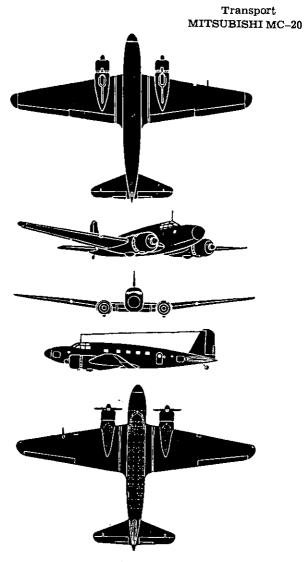
101



MITSUBISHI MC-20 TRANSPORT

Description: Swept-back, tapered, round tip, dihedral, low-wing monoplane. Twin engine, long tapered nose, inclosed cabin, and retractable landing gear.

Crew: Armament: Ammunition: Troop load: 11 passengers. Radio: Armor: Motors: Maximum speed: Rate of climb: Service ceiling: Maximum range: Wing span: 74 feet. Remarks:



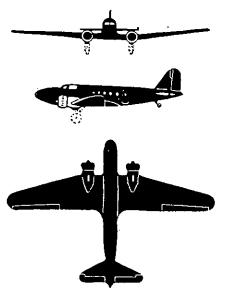
JAPANESE Commercial



NAKAJIMA A. T. TRANSPORT

Description:	Swept-back, round tip, low-wing mono- plane.
Crew: Armament: Ammunition: Bomb load: Radio: Armor:	Two. Passengers, eight.
Motors:	Twin air-cooled, 900-horsepower motors.
Maximum speed: Rate of climb:	370 kilometers or 229.9 miles per hour.
Service ceiling: Maximum range: Remarks:	Maximum ceiling, 9,000 meters.

Transport NAKAJIMA A. T.



JAPANESE ARMY

TATIKAWA 95-1 TRAINER

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor: One 350-horsepower type 95. Motors: Maximum speed: 143 miles per hour. Rate of climb: Service ceiling: Maximum range: Wing span: 33 feet. Resembles Curtiss. Remarks:

Trainer TATIKAWA 95-1

JAPANESE ARMY

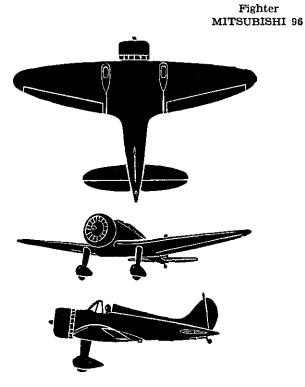
TATIKAWA 95-3 TRAINER

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor: One 150-horsepower type 95. Motors: Maximum speed: 106 miles per hour. Rate of climb: Service ceiling: Maximum range: Wing span: 33 feet. Remarks:

Trainer TATIKAWA 95-3

MITSUBISHI 96 FIGHTER

Description:	Elliptical wing, dihedral, low-wing mono- plane. Single engine, short blunt nose, open cockpit, and fixed landing gear.
Crew:	One.
Armament:	Two or four Vickers machine guns.
Ammunition:	500 rounds per machine gun.
Bomb load:	
Radio: Armor:	
Motors:	One 730-horsepower Kinsei.
Maximum speed:	250 míles per hour.
Rate of climb:	
Service ceiling:	31,000 feet.
Maximum range:	440 miles.
Wing span:	36 feet.
Remarks:	Range can be increased to 840 miles by addition of a belly tank.



113

MITSUBISHI 97 FIGHTER

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor:	Two machine guns. 500 rounds per machine gun.
Motors: Maximum speed: Rate of climb:	One 650-horsepower air-cooled. 265 miles per hour.
Service ceiling: Maximum range: Wing span: Remarks:	30,000 feet. 590 miles.

Fighter MITSUBISHI 97

MITSUBISHI 97 FIGHTER, O1 MODIFICATION

Description:	Orange, all metal, low-wing monoplane. Single engine and retractable landing gear.
Crew:	One.
Armament:	Two 20-mm cannon and two machine guns.
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	One Mitsubishi twin-row, radial.
Maximum speed:	
Rate of climb:	
Service ceiling:	
Maximum range:	
Wing span:	37 feet.
Remarks:	Ship borne; arresting gear and flotation gear carried.

Fighter MITSUBISHI 97, O1 MODIFICATION

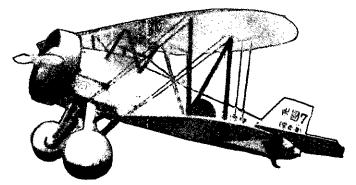
MILITARY INTELLIGENCE

JAPANESE NAVY

NAKAJIMA 90 FIGHTER (Obsolescent)

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor:	One.
Motors: Maximum speed: Rate of climb: Service ceiling: Maximum range: Wing span: Remarks:	One 450-horsepower Kotobuki (Bristol). 174 miles per hour. 31 feet. Resembles Curtiss.

Fighter NAKAJIMA 90



NAKAJIMA 95 FIGHTER

Description: Straight, round tip, staggered biplane. Single engine, short blunt nose, open cockpit, and fixed landing gear. Crew: One.

 Armament:

 Ammunition:

 Bomb load:

 Radio:

 Armor:

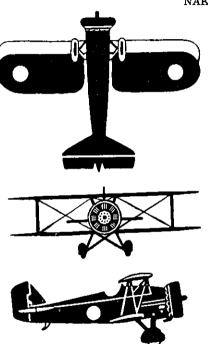
 Motors:
 One 550-horsepower Kotobuki (Bristol).

 Maximum speed:
 214 miles per hour.

 Rate of climb:
 Service ceiling:

 Maximum range:
 33 feet.

 Remarks:
 Resembles Curtiss Hawk.



Fighter NAKAJIMA 95

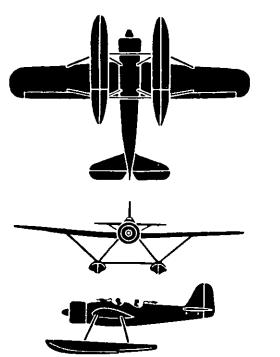
NAKAJIMA 97 FIGHTER

Description: Crew: Armament: Ammunition: Bomb load:	One. Two Vickers machine guns. 550 rounds per machine gun.
Radio:	
Armor:	
Motors:	One 800-horsepower Hikari.
Maximum speed:	270 miles per hour.
Rate of climb:	
Service ceiling:	33,000 feet.
Maximum range:	340 miles.
Wing span:	36 feet.
Remarks:	Range can be increased to 950 miles by adding two belly tanks.

Fighter NAKAJIMA 97

NAKAJIMA 97 (NAKA 93) FIGHTER (Floatplane)

Description:	Straight wing, round tip, midwing mon- oplane. Single engine, blunt nose, open cockpit, and fixed with twin floats.
Crew:	Two.
Armament:	Four machine guns.
Ammunition:	-
Bomb load:	
Radio:	
Armor:	
Motors:	One 750-horsepower Nakajima.
Maximum speed:	
Rate of climb:	-
Service ceiling:	27,000 feet.
Maximum range:	325 miles.
Wing span:	37 feet.
Remarks:	

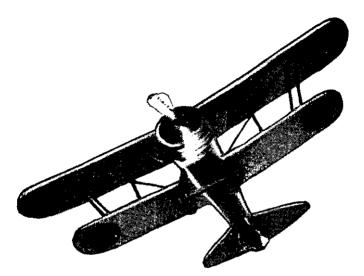


Fighter NAKAJIMA 97 (NAKA 93)

NAKAJIMA 97 (NAKA 97) FIGHTER

Description:	
Crew:	One.
Armament:	Three machine guns.
Ammunition:	
Bomb load :	
Radio:	
'Armor:	
Motors:	One 750-horsepower Nakajima.
Maximum speed :	270 miles per hour.
Rate of climb:	
Service ceiling:	32,000 feet.
Maximum range:	460 miles.
Wing span:	35 feet.
Remarks:	Range can be increased to 1,150 miles by adding two belly tanks.

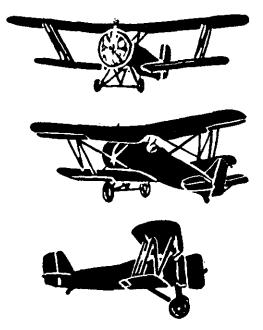
Fighter NAKAJIMA 97 (NAKA 97)



NUMBER 95 CARRIER FIGHTER

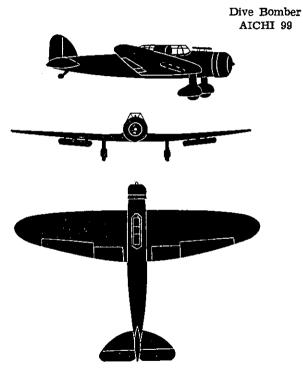
Description :	Straight wing, round tip, cut-out, stag- gered biplane of unequal span. Single engine, short blunt nose, open cockpit, and fixed landing gear.
Crew:	One.
Armament:	Two Vickers machine guns.
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	One 600-horsepower Hikari,
Maximum speed:	210 miles per hour.
Rate of climb:	
Service ceiling:	
Maxímum range:	490 miles.
Wing span:	33 feet.
Remarks:	

Carrier Fighter 95



AICHI 99 DIVE BOMBER (BAKU GEKI KI) (Also Mitsubishi with Kinsei Motor)

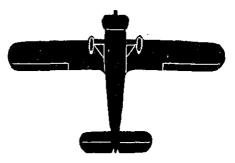
Description:	Elliptical wing, elliptical tip, dihedral, low- wing monoplane. Single engine, long blunt nose, inclosed cockpit, and fixed landing gear.
Crew:	Two.
Armament: Ammunition:	Three machine guns (two fixed).
Bomb load;	1,100 pounds.
Radio:	
Armor:	
Motors:	One 990-horsepower Kaishin or Kinsei 44.
Maximum speed:	236 miles per hour.
Rate of climb:	
Service ceiling:	26,000 feet.
Maximum range:	450 miles.
Wing span:	47 feet.
Remarks:	

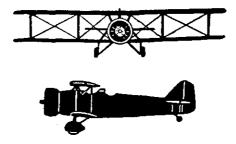


MITSUBISHI 96 DIVE BOMBER

Description:	Straight wing, round tip, slightly staggered biplane. Single engine, blunt nose, and fixed landing gear.
Crew:	Two.
Armament: Ammunition: Bomb load: Radio:	Two machine guns.
Motors:	One 730-horsepower Kinsei.
Maximum speed: Service ceiling: Maximum range:	180 miles per hour.
Wing span: Remarks:	38 feet.

Dive Bomber MTTSUBISHI 96





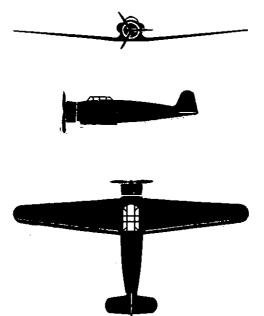
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DIVE BOMBER 97

(Also called Deck Type Reconnaissance)

Description:	Wing flared at fuselage, cantilever, low- wing monoplane with retractable un- dercarriage. Retractable landing gear, single strut, also shock absorbent legs. Copy Douglas TBD-1.
Crew:	Three (pilot, second pilot, and radioman).
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	Single, air-cooled, radial motor.
Maximum speed:	200 miles per hour, sea level. 150 miles per hour, cruising speed.
Rate of climb:	
Service ceiling:	
Maximum range:	
Remarks:	97-VIB. Light dive bomber. Has an approximate wing span of 45 feet. Length over all is approximately 26 feet.

Dive Bomber 97 (Also called Deck Type Reconnaissance)



MILITARY INTELLIGENCE

JAPANESE NAVY

AICHI 92 RECONNAISSANCE (Obsolescent)

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor: Motors: One 500-horsepower Mitsubishi (Hispano S) or one 600-horsepower Nakajima (Lorraine). Maximum speed: Rate of climb: Service ceiling: Maximum range: Wing span: 45 feet. Remarks:

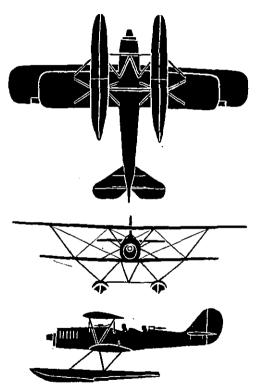
Reconnaissance AICHI 92

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AICHI TOKEI 97 A. I. 92 RECONNAISSANCE

Description:	Straight wing, round tips, staggered biplane of unequal span. Single en- gine, long tapered nose, open cockpit, and fixed with twin floats.
Crew:	Two.
Armament:	Two machine guns.
Ammunition :	
Bomb load :	
Radio:	
Armor:	
Motors:	One 770-horsepower Aichi.
Maximum speed:	180 miles per hour.
Rate of climb:	
Service ceiling:	30,000 feet.
Maximum range:	410 miles.
Wing span:	43 feet.
Remarks:	

Reconnaissance AICHI TOKEI 97 A. I. 92

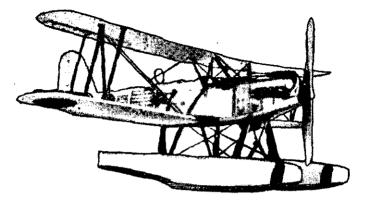


KAWANISHI 93 RECONNAISSANCE. (Obsolescent)

Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor: One 450-horsepower Nakajima (Jupiter), Motors: Maximum speed: Rate of climb: Service ceiling: Maximum range: Wing span: 48 feet. Remarks:

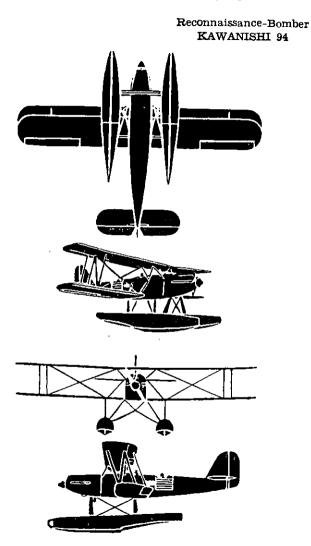
Reconnaissance KAWANISHI 93

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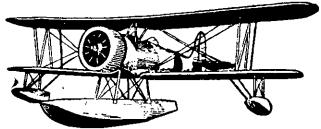
KAWANISHI 94 RECONNAISSANCE-BOMBER

Description:	Straight wing, round tip, cut-out, staggered biplane. Single engine, long tapered nose, open cockpit, and fixed with twin floats.
Crew:	Three.
Armament:	Two machine guns.
Ammunition:	
Bomb load:	500 pounds.
Radio:	
Armor:	
Motors:	One 600-horsepower Hiro 91.
Maximum speed:	140 miles per hour.
Rate of climb:	
Service ceiling:	18,000 feet.
Maximum range:	550 miles.
Wing span:	46 feet.
Remarks:	Resembles Heinkel.



NAKAJIMA	90-2 RECONNAISSANCE-BOMBER (Obsolescent)
Description:	
Crew:	Two.
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	One 450-horsepower Nakajima (Jupiter).
Maximum speed:	168 miles per hour,
Rate of climb:	
Service ceiling:	
Maximum range:	
Wing span:	40 feet.
Remarks:	Resembles Chance-Vought Corsair.

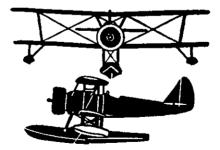
Reconnaissance-Bomber NAKAJIMA 90-2



RECONNAISSANCE-BOMBER 95

Description:	Round tip, straight wing biplane with pick-up fittings. Convertible to land- plane. One large center and two small wing floats.
Crew:	Two or three.
Armament:	Two machine guns.
Ammunition:	
Bomb load:	220 pounds.
Radio:	
Armor:	
Motors:	One 600-horsepower Kotobuki.
Maximum speed:	160 miles per hour.
Rate of climb:	
Service ceiling:	18,000 feet.
Maximum range:	500 miles.
Wing span:	36 feet.
Remarks:	Resembles Curtiss Hawk.

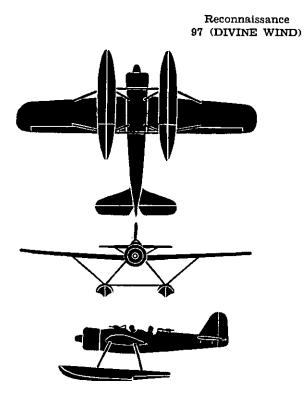


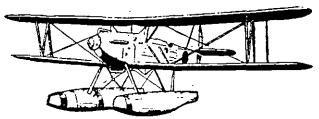


RECONNAISSANCE 97 (DIVINE WIND)

Description: Straight wing, round tip, slightly dihedral, midwing monoplane. Single engine, short blunt nose, open cockpit, and fixed with twin floats.

Crew: Armament: Ammunition: Bomb load: Radio: Armor: Motors: Maximum speed: 298 miles per hour. Rate of climb: Service ceiling: 29,500 feet. Maximum range: Wing span: Remarks:



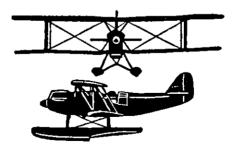


KAWANISHI 97 (KAWA 94) TORPEDO BOMBER

Straight wing, round tip, slightly di- hedral biplane. Twin floats.
Two or three.
One fixed forward, and one fiexible dorsal machine gun.
500 rounds per fixed gun. 700 rounds per flexible mounted gun.
Largest bomb, 500 pounds.
CW telegraph.
Single, Kawanishi, 650-horsepower, Hi- ronai, 12-cylinder, W-type, water- cooled engine. Also Mitsubishi Junkers, V-type, water-cooled. 800 horsepower.
155 miles per hour.
-
20,000 feet.
450 miles.
46 feet.

Torpedo Bomber KAWANISHI 97 (KAWA 94)





MITSUBISHI 97 TORPEDO BOMBER

Description:	Tapered, round tip, dihedral, low-wing monoplane. Single engine, blunt nose, and retractable landing gear.
Crew:	Three.
Armament: Ammunition:	Three machine guns.
Bomb load:	1,500-pound torpedoes or 1,100-pound bombs.
Radio:	
Armor:	
Motors:	One 900-horsepower Kinsei.
Maximum speed:	195 miles per hour.
Rate of climb:	
Service ceiling:	23,000 feet.
Maximum range:	470 miles.
Wing span: Remarks:	50 feet.

Torpedo Bomber MITSUBISHI 97

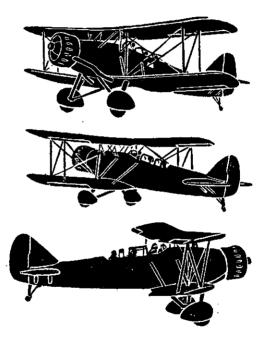


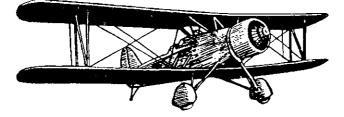


NAKAJIMA 96 TORPEDO BOMBER

Description:	Straight wing, round tip, staggered bi- plane. Single engine, long blunt nose, inclosed cockpit, and fixed landing gear.
Crew:	Three.
Armament:	One machine gun.
Ammunition:	
Bomb load:	1,500-pound torpedoes.
Radio:	
Armor:	
Motors:	One 600-horsepower Kotobuki,
Maximum speed :	168 miles per hour.
Rate of climb:	
Service-ceiling:	20,000 feet.
Maximum range:	425 miles.
Wing span:	49 feet.
Remarks:	

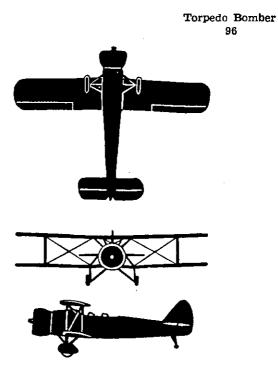
Torpedo Bomber NAKAJIMA 96





TORPEDO BOMBER 96

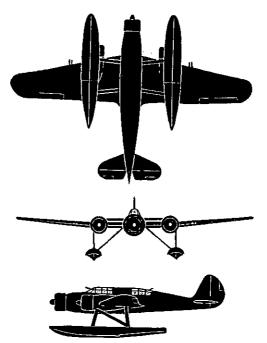
Description:	Biplane, nonretractable, streamlined.
Crew:	Three seater.
Armament: Ammunition:	Five machine guns.
Bomb load: Radio:	1,500-pound torpedo or bombs.
Armor:	
Motors:	Single, Hikari, 600-horsepower, air-cooled engine for light bomber. Probably 800- horsepower, air-cooled engine for tor- pedo bomber.
Maximum speed: Rate of climb:	300 kilometers or 186.4 miles per hour.
Service ceiling:	Maximum ceiling, 7,600 meters.
Maximum range:	
Remarks:	

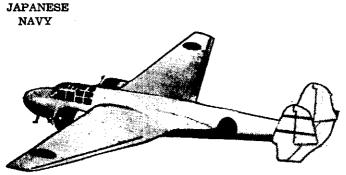


AICHI AI 104 BOMBER

Description:	Swept-back, round tip, dihedral, mid- wing monoplane. Three engines, long blunt nose, blunt engine nacelles set into wing, inclosed cockpit, and fitted with twin floats.
Crew:	Five.
Armament:	Two 37-mm cannon and four machine guns.
Ammunition:	
Bomb load:	2,200 pounds.
Radio:	
Armor:	
Motors:	Three 770 Aichi.
Maximum speed :	230 miles per hour.
Rate of climb:	
Service ceiling:	24,000 feet.
Maximum range:	1,000 miles.
Wing span:	87 feet.
Remarks:	

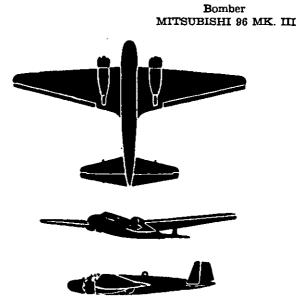
Bomber AICHI AI 104





MITSUBISHI 96 MK. III BOMBER

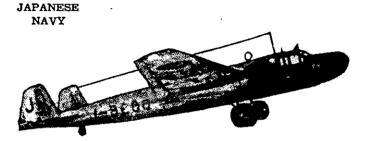
Description:	Swept-back, tapered, square tip, slightly dihedral, midwing monoplane. Twin engine, long rounded nose, engine na- celles below wing, inclosed cockpit, twin rudders, and retractable landing gear.
Crew:	Seven.
Armament: Ammunition:	Eight machine guns.
Bomb load:	2,200 pounds.
Radio:	
Armor:	_
Motors:	Two 840-horsepower Mitsubishi.
Maximum speed:	210 miles per hour.
Rate of climb:	
Service ceiling:	
Maximum range:	
Wing span:	82 feet.
Remarks:	Resembles Junkers Ju 86K.



MITSUBISHI 96 MK. IV BOMBER (Similar in appearance to Mk. III)

Description:	
Crew:	Seven.
Armament:	Six machine guns.
Ammunition:	-
Bomb load:	2,200 pounds.
Radio:	
Armor:	
Motors:	Two 1,000-horsepower Mitsubishi.
Maximum speed:	230 miles per ho ur.
Rate of climb:	
Service ceiling:	
Maximum range:	
Wing span;	82 feet.
Remarks:	Resembles Junkers Ju 86K.

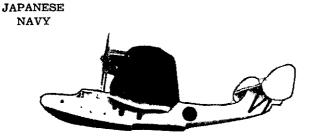
Bomber MITSUBISHI 96 MK. IV



MITSUBISHI 96 (OTORI) BOMBER

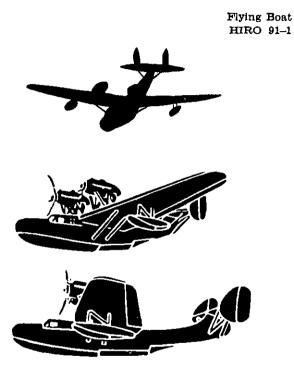
Description: Crew: Armament: Ammunition: Bomb load: Radio: Armor: Motors: Two 550-horsepower Nakajima (Jupiter). Maximum speed: 239 miles per hour. Rate of climb: Service ceiling: Maximum range: Wing span: Remarks:

Bomber MITSUBISHI 96 (OTORI)

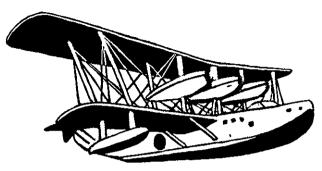


HIRO 91-1 FLYING BOAT

Description:	Swept-back, tapered, round tip, dihedral, parasol type, high-wing monoplane fly- ing boat. Twin engine, long elliptical nose, engine nacelles mounted above wing, inclosed cabin, and twin rudders.
Crew:	Eight.
Armament: Ammunition: Bomb load: Radio: Armor:	Two machine guns.
Motors:	Two 600-horsepower Hiro.
Maximum speed: Rate of climb:	130 miles per hour.
Service ceiling:	13,000 feet.
Maximum range:	600 miles.
Wing span: Remarks:	77 feet.



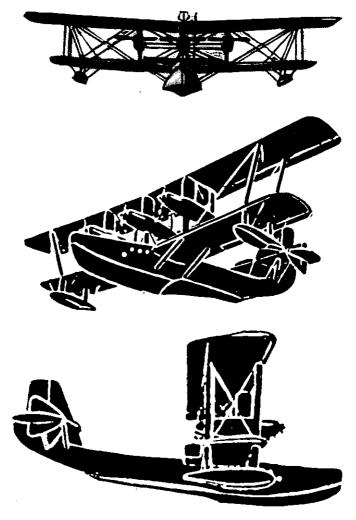




KAWANISHI 90-2 FLYING BOAT

Description:	Straight wing, square tip, dihedral, biplane of unequal span, fitted as flying boat. Three engines mounted between wings, long pointed nose, inclosed cabin, and small twin wing floats.
Crew:	Six to eight.
Armament: Ammunition: Bomb load: Radio: Armor:	Four machine guns.
Motors:	Three 955-horsepower R. R. Buzzard.
Maximum speed: Rate of climb:	140 miles per hour.
Service ceiling:	13,000 feet.
Maximum range:	980 miles.
Wing span:	102 feet.
Remarks:	Resembles Short K. F. I. "Rangoon."

Flying Boat KAWANISHI 90–2



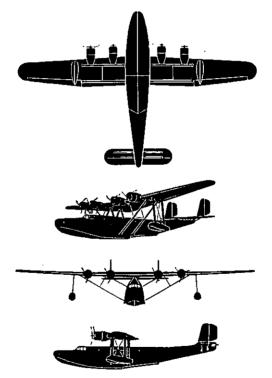
Crew:

KAWANISHI 97 FLYING BOAT

Slightly swept-back, trailing edge tapered to root and tip, round tip, parasol type, high-wing monoplane fitted as a flying boat. Four engines, nacelles placed into wing, long rounded nose, inclosed cabin, small wing floats, and twin rudders.

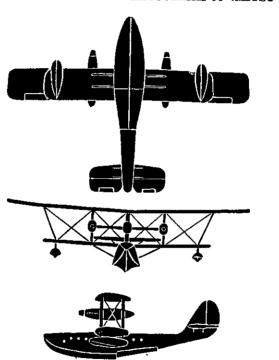
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	Four 800-horsepower Cyclone.
Maximum speed:	190 miles per hour.
Rate of climb:	
Service ceiling:	19,000 feet.
Maximum range:	1,750 miles.
Wing span:	131 feet.
Remarks:	

Flying Boat KAWANISHI 97



MITSUBISHI 96 (MITSU 95) FLYING BOAT

Description:	Straight wing, square tip, biplane of un- equal span. Three engines with nacelles between planes, fitted as flying boat, inclosed, long tapered body, and two wing floats.
Crew:	Six.
Armament:	One Hotchkiss cannon and four machine guns.
Ammunition:	
Bomb load:	1,980 pounds.
Radio:	
Armor:	
Motors:	Three 900-horsepower Mitsubishi
Maximum speed:	145 miles per hour.
Rate of climb:	
Service ceiling:	13,000 feet.
Maximum range:	1,400 miles.
Wing span:	97 feet.
Remarks:	



Flying Boat MITSUBISHI 96 (MITSU 95)



FLYING BOAT 97 (Copy of Sikorsky 5-42)

Description: Swept-back, round tip, high-wing monoplane with twin rudders. Center float with two small wing floats.

Crew:	
Armament:	
Ammunition:	
Bomb load:	
Radio:	
Armor:	
Motors:	Four air-cooled motors mounted in wings.
Maximum speed:	Cruising speed, 180 miles per hour.
Rate of climb:	· · · · · · · · · · · · · · · · · · ·
Service ceiling:	
Maximum range:	
Wing span:	120 feet.
Remarks:	

