

FM 30-38

BASIC FIELD MANUAL



MILITARY INTELLIGENCE

**IDENTIFICATION OF
JAPANESE AIRCRAFT**

Prepared under direction of the
Chief of Staff



UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1942

WAR DEPARTMENT,
Washington, March 16, 1942.

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

[A. G. 062.11 (1-13-42).]

BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

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

DISTRIBUTION:

X.

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

LIST OF ILLUSTRATIONS

JAPANESE ARMY

	Page
Single engine fighters:	
BFW (Messerschmitt 109)	4
Kawasaki 92	6
Kawasaki 95	8
Kawasaki 97	10
(Kawasaki Kawa 102) 98	12
Mitsubishi 96	14
Mitsubishi 97	16
Mitsubishi 98 (Karigane II)	18
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
Number 98	50
Number 99	52
Shōwa Shō 98 (Fighter-Bomber)	54
Reconnaissance-bombers:	
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.....	90
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.....	118
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:	
Aichi 92.....	136
Aichi Tokel 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:	
Kawanishi 97 (Kawa 94).....	150
Mitsubishi 97.....	152
Nakajima 96.....	154
Number 96.....	156
Bombers:	
Aichi A1 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

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:



WING
Shaded area
indicates red



TAIL

JAPANESE ARMY

JAPANESE
ARMY



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

Aarmor:

Motors: 1,100-horsepower, 601A, liquid-cooled.

Maximum speed: 354 miles per hour.

Rate of climb: To 13,120 feet in 3.8 minutes.

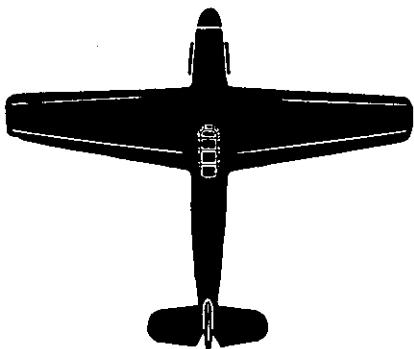
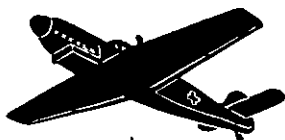
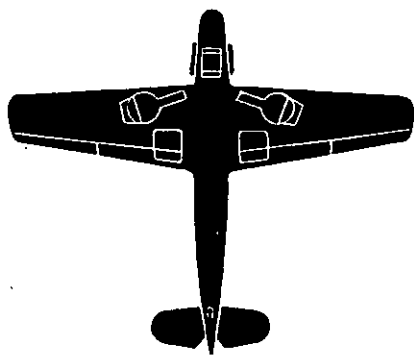
Service ceiling: 36,080 feet.

Maximum range: 620 miles at 298 miles per hour.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter BFW
MESSERSCHMITT 109



JAPANESE
ARMY

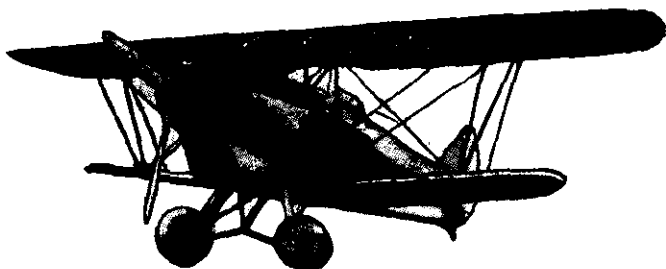
KAWASAKI 92 FIGHTER
(Obsolescent)

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

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
KAWASAKI 92

JAPANESE
ARMY

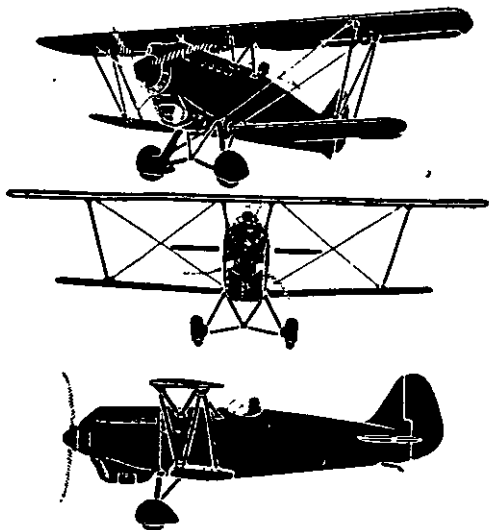


KAWASAKI 95 FIGHTER
(Obsolescent)

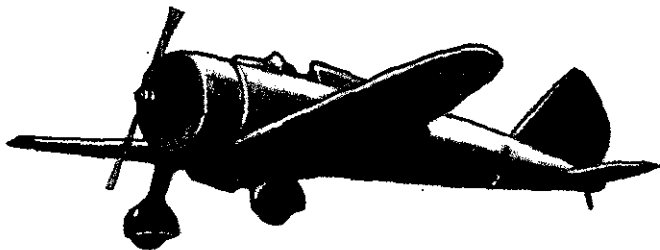
Description:	Straight, round tip, staggered biplane of unequal span. Single engine, tapered nose, open cockpit, and fixed landing gear.
Crew:	One.
Armament:	Two machine guns.
Ammunition:	
Bomb load:	One 77-pound.
Radio:	
Armor:	
Motors:	One 550-horsepower Kotobuki.
Maximum speed:	155 miles per hour.
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.

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
KAWASAKI 95



JAPANESE
ARMY

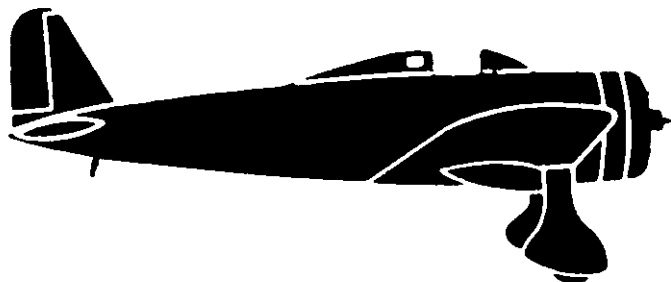


KAWASAKI 97 FIGHTER

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:	

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
KAWASAKI 97



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 Hotchkiss cannon.

Ammunition:

Bomb load:

Radio:

Armor:

Motors: One 820-horsepower Kawasaki, liquid-cooled.

Maximum speed: 270 miles per hour at 10,000 feet.

Rate of climb:

Service ceiling:

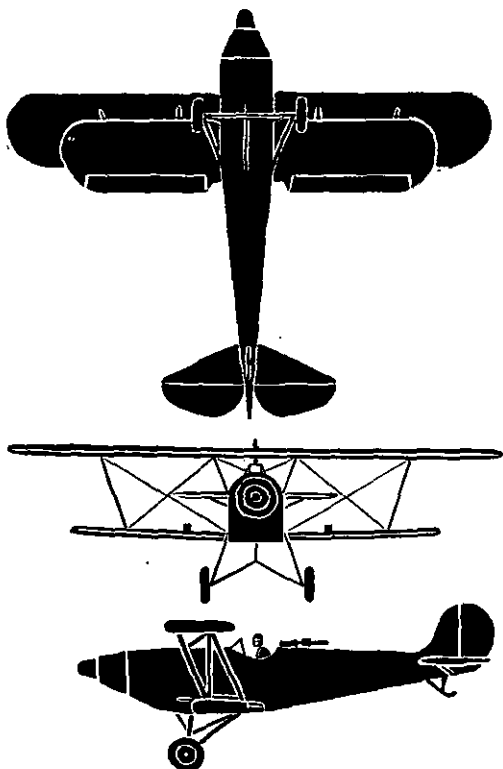
Maximum range:

Wing span: 29 feet.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
(KAWASAKI KAWA 102) 98



JAPANESE
ARMY

MITSUBISHI 96 FIGHTER
(Obsolescent)

Description:

Crew: One.

Armament:

Bomb load:

Radio:

A 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:

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
MITSUBISHI 96

JAPANESE
ARMY

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.

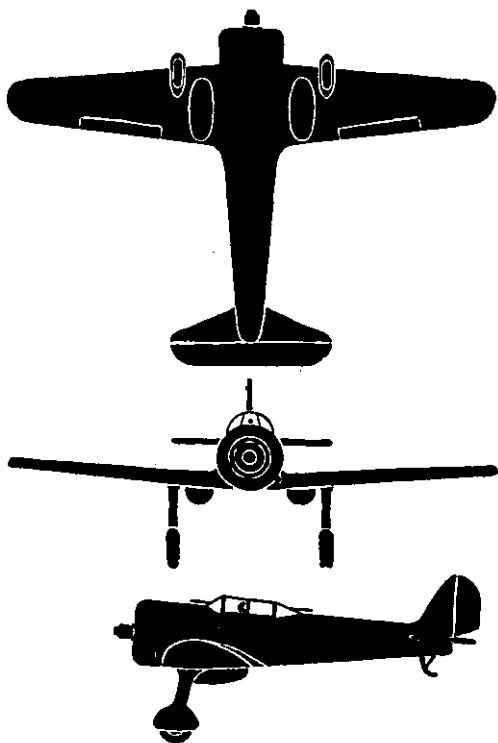
Maximum range: 375 miles.

Wing span: 36 feet.

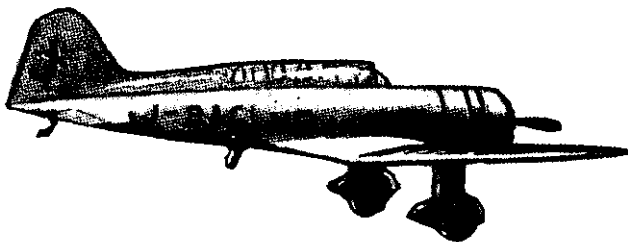
Remarks: Range can be increased to 1,070 miles by adding two belly fuel tanks.

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
MITSUBISHI 97



JAPANESE
ARMY



MITSUBISHI 98 (KARIGANE II)

Description: Tapered, dihedral, low-wing monoplane.
Single engine, short blunt nose, inclosed cockpit, and fixed landing gear.

Crew: Two.

Armament:

Ammunition:

Bomb load:

Radio:

Armor:

Motors: One 800-horsepower Mitsubishi A-14.

Maximum speed: 310 miles per hour

Rate of climb:

Service ceiling:

Maximum range:

Wing span: 39 feet.

Remarks: Resembles Northrop A-17.

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
MITSUBISHI 98 (KARIGANE II)

JAPANESE
ARMYMITSUBISHI 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 retractive 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:

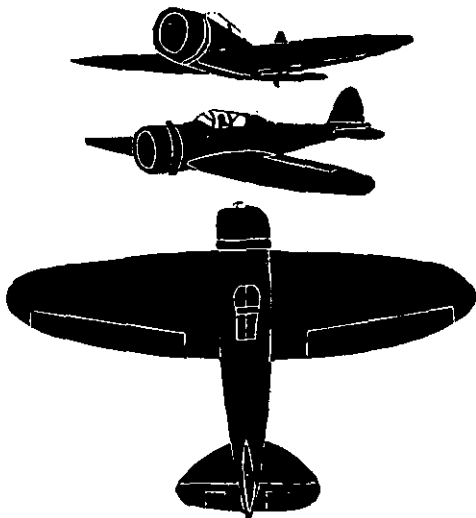
Service ceiling: 39,300 feet.

Maximum range: 2,000 miles (approximate).

Wing span: 37 feet.

Remarks: Has detachable belly tank.

Fighter
MITSUBISHI ZERO



**JAPANESE
ARMY**

NAGOYA ZERO FIGHTER

Description: Tapered, swept-back, round tip, slightly dihedral, all metal, low-wing mono-plane. Single engine, blunt nose, inclosed 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.

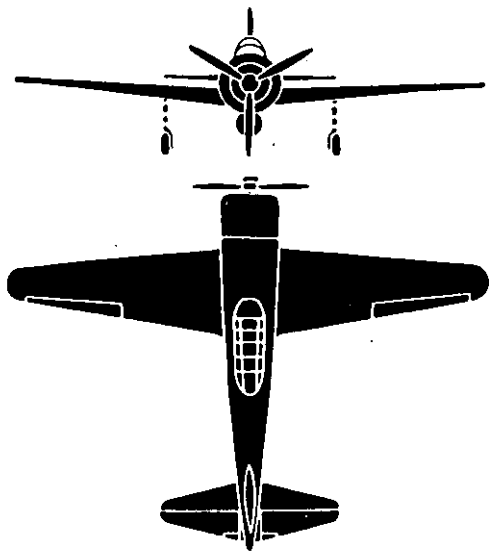
Service ceiling: 32,810 feet.

Maximum range: 6 to 8 hours endurance with use of belly tank. 150 gallons auxiliary. Total gasoline capacity, 1,200 liters or 324 gallons.

Remarks: Employs dive tactics but avoids use of acrobatics. Can operate from carrier.

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
NAGOYA ZERO



JAPANESE
ARMY

NAKAJIMA 91 FIGHTER
(Obsolescent)

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:

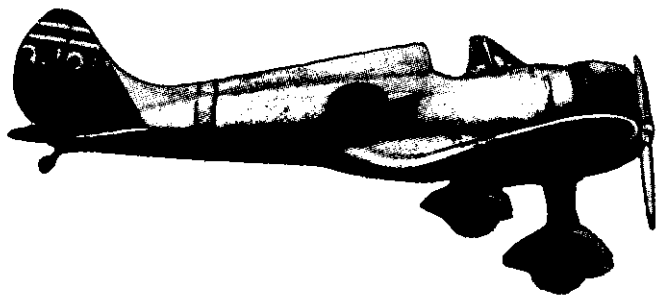
Maximum range: 400 miles (approximate).

Wing span: 36 feet.

Remarks: Resembles Nieuport-Delage.

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
NAKAJIMA 91



(1936)

MILITARY INTELLIGENCE

JAPANESE ARMY

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, Kinsei, air-cooled.

Maximum speed: 240 miles per hour at 7,000 feet.

Rate of climb: 5,000 feet in 6 minutes.

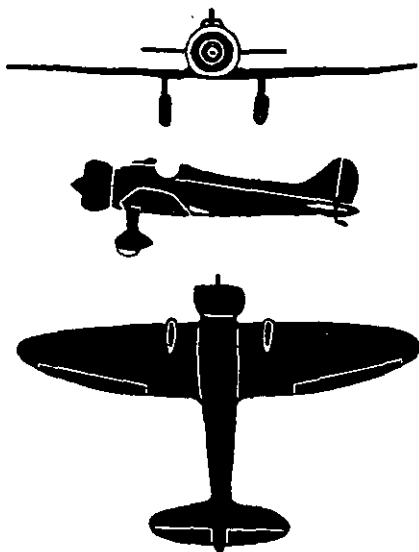
Service ceiling: Critical altitude, 13,000 feet.

Maximum range: 312 miles with military load.

Wing span: 28 feet.

Remarks: Good climbing ability, small turning circle but *fragile*. 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.

Fighter
NAKAJIMA 96



(1937)

JAPANESE
ARMY

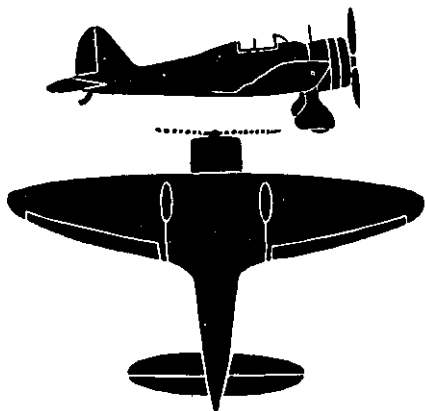


NAKAJIMA 97 FIGHTER

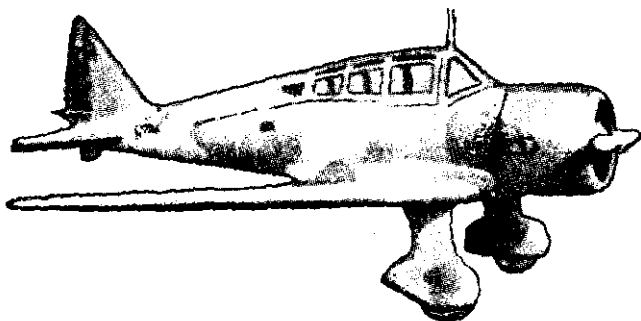
- Description:** Swept-back, tapered, round tip, cantilever, low-wing, blunt nose monoplane. Monocoque construction in rear of cockpit. Streamlined, divided, single strut, non-retractable landing gear.
- Crew:** Single seat.
- Armament:** Three machine guns firing forward (two of these in wings).
- Ammunition:** 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.

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
NAKAJIMA 97



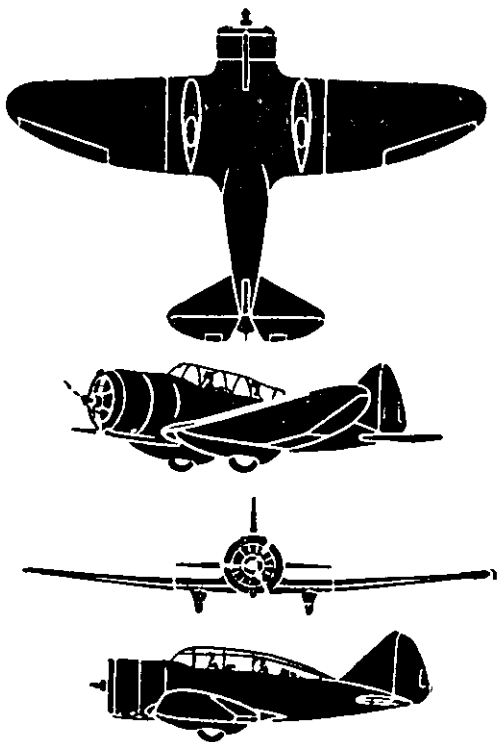
JAPANESE
ARMY



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:
- Armor:
- Motors: Twin-row, air-cooled, radial engines.
- Maximum speed: 280 miles per hour.
- Rate of climb: Estimated at 3,500 feet in 1 minute.
- Service ceiling:
- Maximum range: 2,600 miles.
- Remarks: Airplanes are equipped with nonretractable and retractable landing gears. Appears 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:
Motors: Two Nakajima Nk-1, 14-cylinder, radial.
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

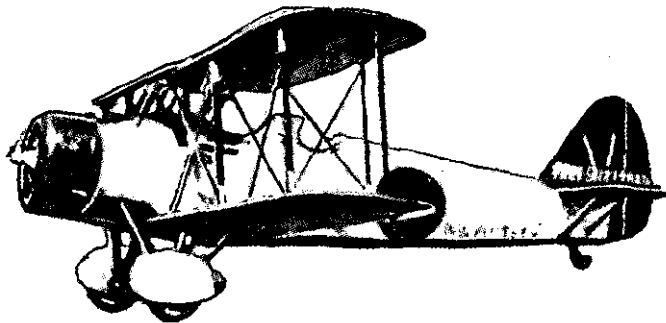
JAPANESE
ARMY

AICHI CLOCK AICHI DIVE BOMBER

Description:
Crew: Two.
Armament: Three machine guns (one similar to Lewis).
Ammunition:
Bomb load: 550 pounds.
Radio:
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

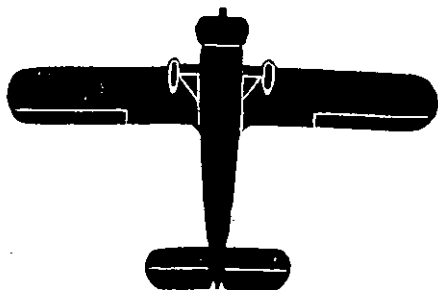


DIVE BOMBER 96

- 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 machine guns.
- Ammunition:** 500 rounds per fixed, 700 rounds per flexible machine gun.
- Bomb load:** Maximum 1,100 pounds. Carries bombs or torpedo.
- Radio:** CW telegraph.
- Armor:**
- Motors:** Single Hikari (Nakajima), 9-cylinder, radial air-cooled motor. BWM 12-cylinder, 700-horsepower also used.
- Maximum speed:** 174 miles per hour; 241 miles per hour.
- Rate of climb:**
- Service ceiling:**
- Maximum range:** Radius of action, 250 miles.
- Remarks:**

IDENTIFICATION OF JAPANESE AIRCRAFT

Dive Bomber
96



JAPANESE
ARMY

KAWASAKI 97 LIGHT BOMBER

Description: Swept-back, tapered, round tip, low-wing monoplane. Single engine, long tapered 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:

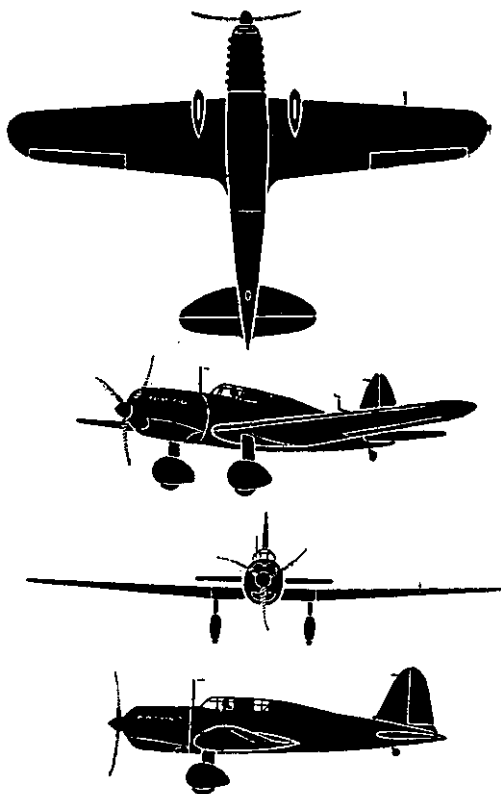
Service ceiling: 25,000 feet.

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, tapered nose, inclosed cockpit, and retractable landing gear.

Crew: Five.

Armament: Two cannon and two machine guns.

Ammunition:

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.

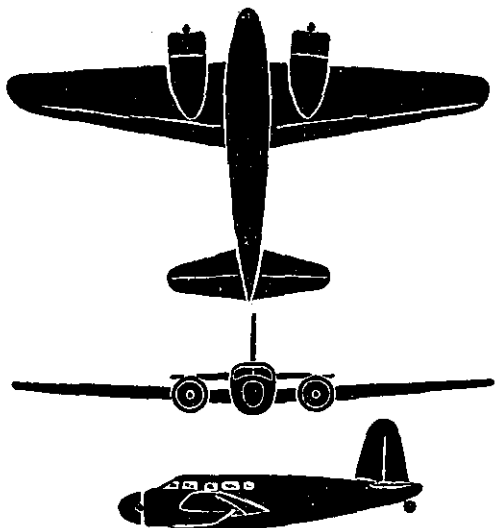
Maximum range: 500 miles.

Wing span: 48 feet.

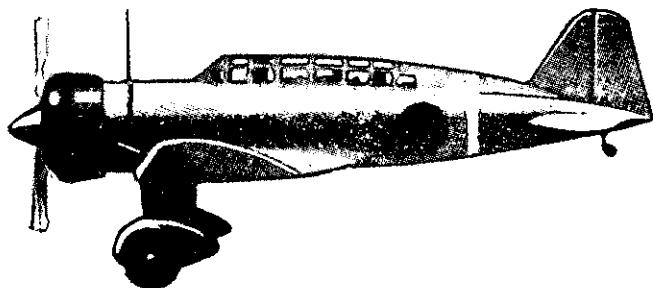
Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Light Bomber
MITSUBISHI DARAI 108 (TYPE 97)



JAPANESE
ARMY



MITSUBISHI KAMIKAZI LIGHT BOMBER 97

Description:	Slightly dihedral swept-back, round tip, cantilever, low-wing monoplane. Fixed and streamlined landing gear.
Crew:	Two.
Armament:	Three machine guns.
Ammunition:	
Bomb load:	300 kilograms or 661.3 pounds.
Radio:	
Aarmor:	
Motors:	Single 800-horsepower, Kotobuki.
Maximum speed:	260 miles per hour.
Rate of climb:	
Service ceiling:	30,000 feet.
Maximum range:	450 miles.
Wing span:	40 feet.
Remarks:	

IDENTIFICATION OF JAPANESE AIRCRAFT

Light Bomber
MITSUBISHI KAMIKAZI 97



JAPANESE
ARMY

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.

IDENTIFICATION OF JAPANESE AIRCRAFT

Light Bomber
MITSUBISHI MITSU 103

MILITARY INTELLIGENCE

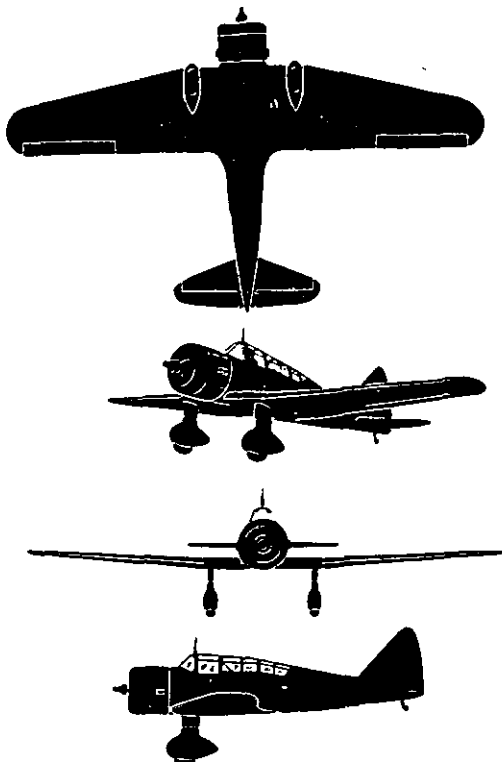
JAPANESE ARMY

MITSUBISHI MITSU 104 (TYPE 98) LIGHT BOMBER

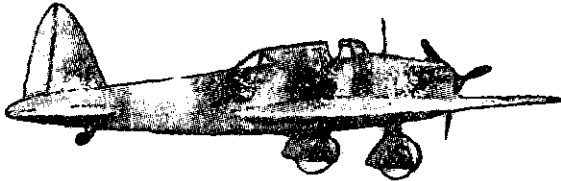
Description:	Swept-back, round tip, slightly dihedral, low-wing monoplane. Single engine, blunt nose, inclosed cockpit, and fixed landing gear.
Crew:	Two or three.
Armament:	Three machine guns.
Ammunition:	
Bomb load:	3,300 pounds.
Radio:	
Armor:	
Motors:	One Mitsu, air-cooled.
Maximum speed:	250 miles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

IDENTIFICATION OF JAPANESE AIRCRAFT

Light Bomber
MITSUBISHI MITSU 104 (TYPE 98)



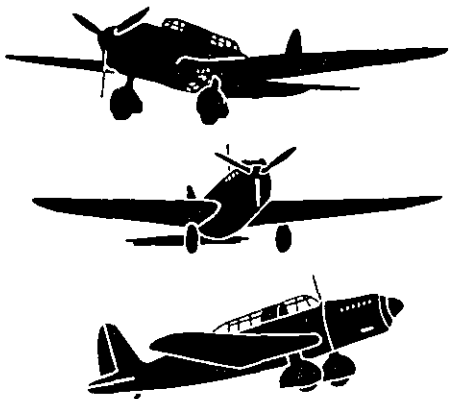
JAPANESE
ARMY



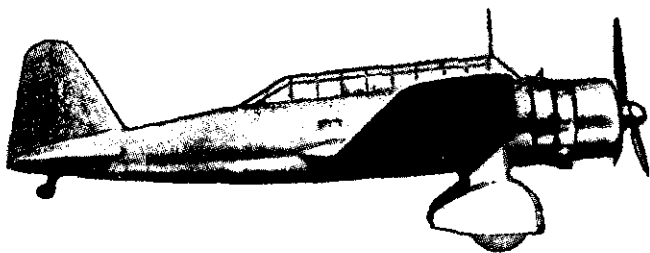
LIGHT BOMBER 97

- 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
97



JAPANESE
ARMY



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.

IDENTIFICATION OF JAPANESE AIRCRAFT

Light Bomber
98



JAPANESE
ARMY AND NAVY

LIGHT BOMBER 99

Description: Conventional type low-wing monoplane with hooded cockpit and nonretractable landing gear.

Crew: Two place.

Armament: Two fixed and one flexible 7.7-mm machine 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 carrier.

Light Bomber
99

JAPANESE
ARMY

SHŌWA SHŌ 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: Two cannon and two machine guns.

Ammunition:

Bomb load: 2,280 pounds.

Radio:

Armor:

Motors: One 850-horsepower Shōwa.

Maximum speed: 225 miles per hour.

Rate of climb:

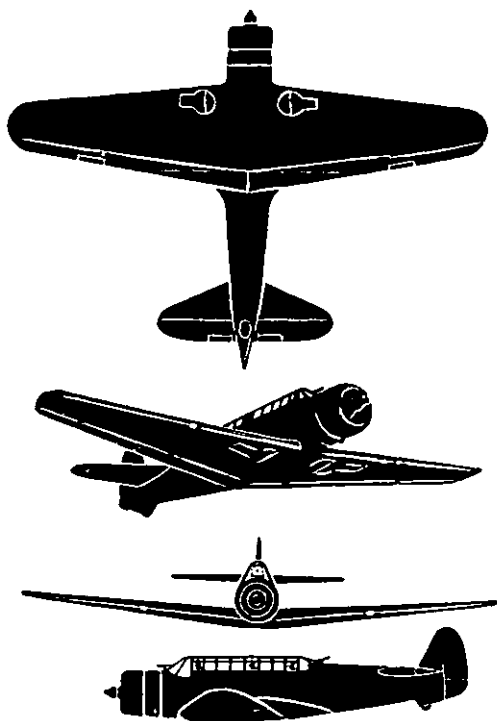
Service ceiling:

Maximum range: 950 miles.

Wing span: 50 feet.

Remarks:

Fighter-Bomber
SHŌWA SHŌ 98



JAPANESE
ARMY

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:

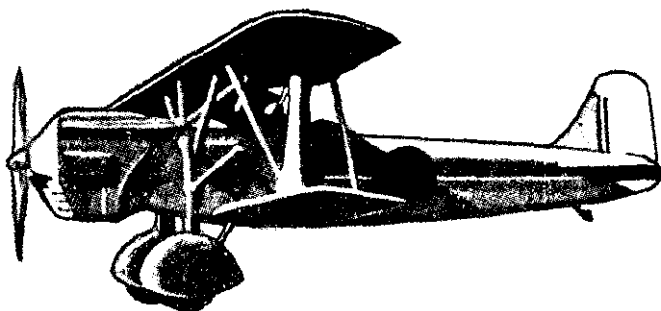
Maximum range:

Wing span: 50 feet.

Remarks:

Reconnaissance-Bomber
KAWASAKI 88

JAPANESE
ARMY



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:

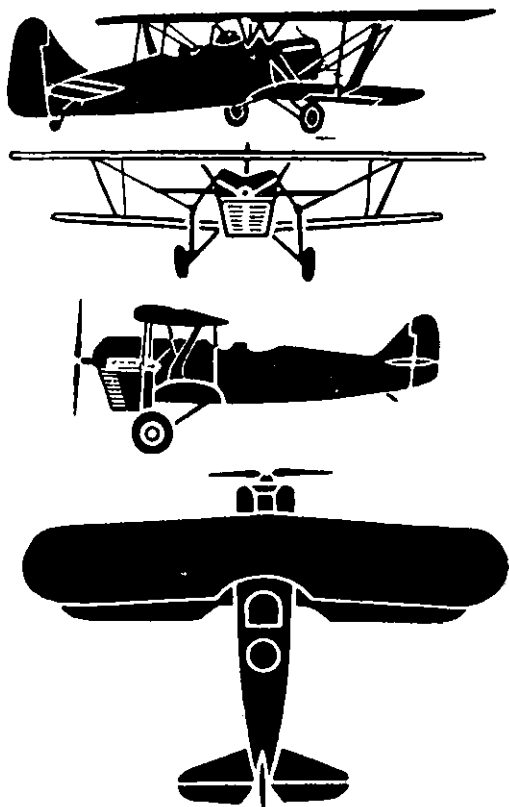
Service ceiling:

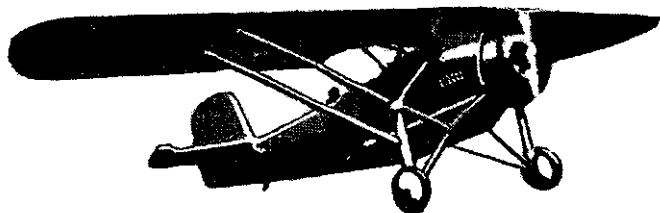
Maximum range: 620 miles.

Wing span: 43 feet.

Remarks:

Reconnaissance-Bomber
KAWASAKI 93



JAPANESE
ARMYMITSUBISHI 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: Three machine guns.

Ammunition:

Bomb load: 620 pounds.

Radio:

Armor:

Motors: 420-horsepower Mitsubishi Jaguar.

Maximum speed: 155 miles per hour.

Rate of climb:

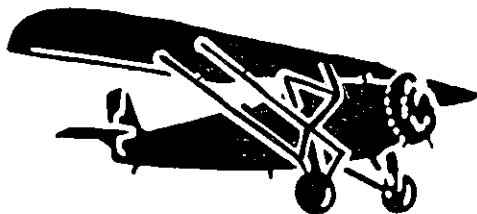
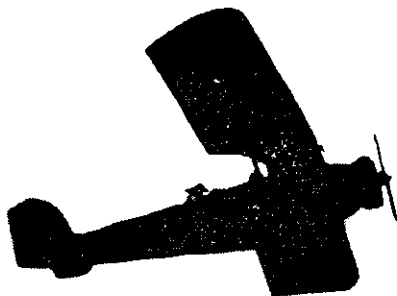
Service ceiling: 20,000 feet.

Maximum range: 370 miles.

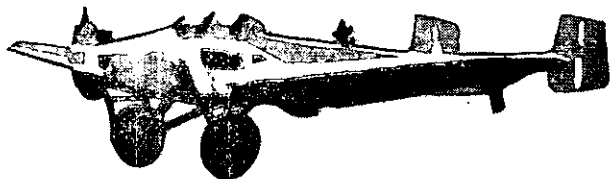
Wing span: 43 feet.

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
MITSUBISHI 93A

JAPANESE
ARMY



MITSUBISHI 93B RECONNAISSANCE-BOMBER
(Obsolescent)

Description: Midwing monoplane. Twin engine, in-
closed cockpit, fixed landing gear, and
twin rudders.

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

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:

Aarmor:

Motors:

Maximum speed:

Rate of climb:

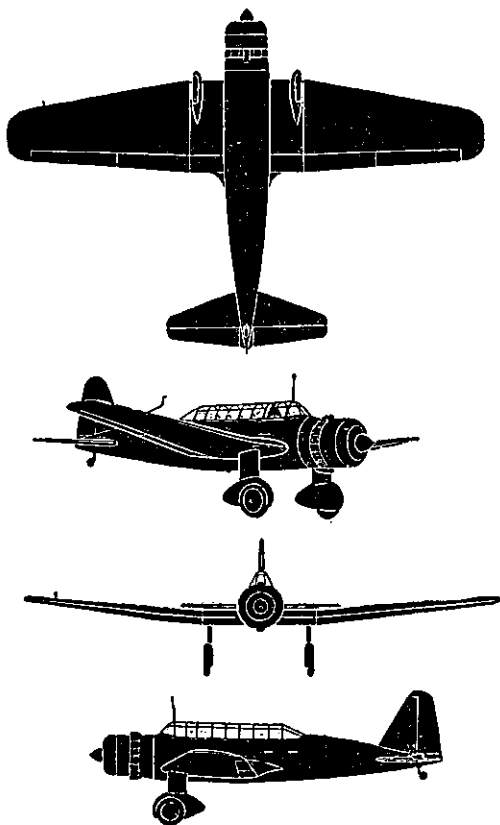
Service ceiling:

Maximum range:

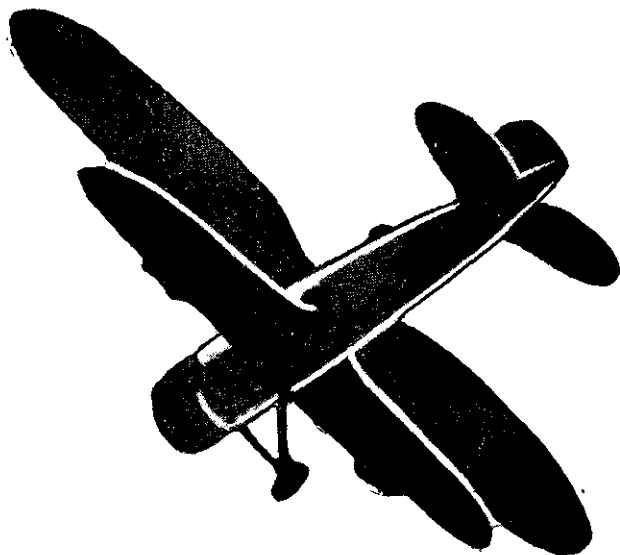
Wing span:

Remarks:

Reconnaissance-Bomber
MITSUBISHI 98



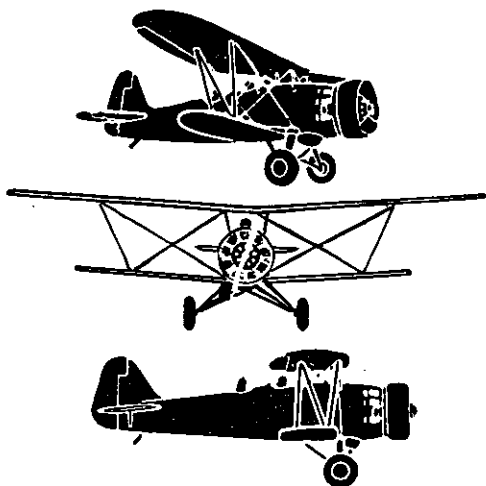
JAPANESE
ARMY



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 ceiling:	23,000 feet.
Maximum range:	470 miles.
Wing span:	39 feet.
Remarks:	Resembles Chance-Vought.

Reconnaissance-Bomber
NAKAJIMA 94



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:

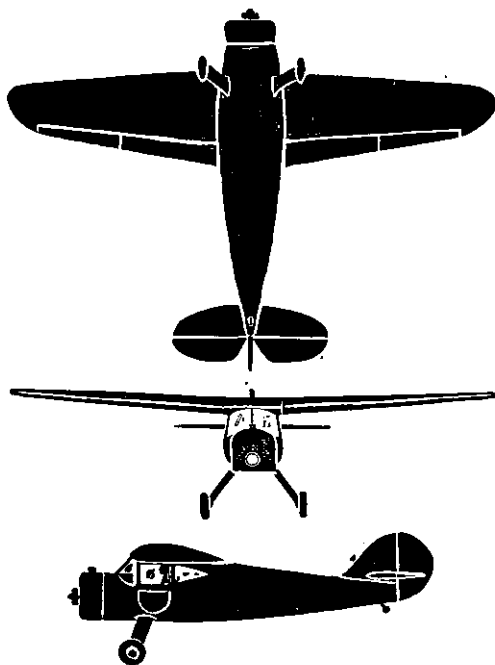
Service ceiling: 14,000 feet.

Maximum range: 870 miles.

Wing span: 34 feet.

Remarks:

Reconnaissance-Bomber
OSAKA 97



**JAPANESE
ARMY**

MEDIUM BOMBER 98 (MITSUBISHI 104)

Description: Low-wing monoplane.
Crew: Two to three.
Armament: Two 20-mm cannon firing forward; 2 dorsal 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)

JAPANESE
ARMY

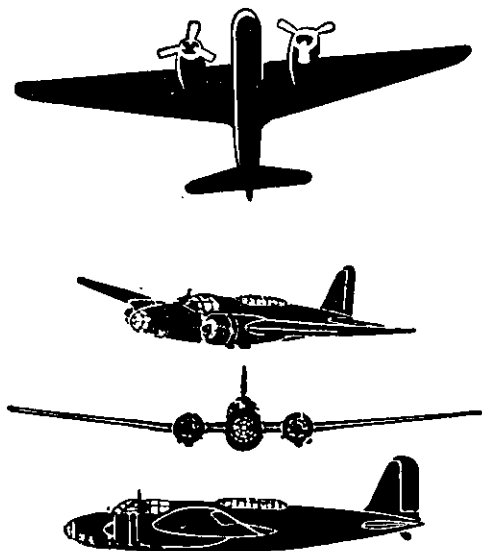


KAWASAKI (KAWA 95) TYPE 97 HEAVY BOMBER

- 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:

IDENTIFICATION OF JAPANESE AIRCRAFT

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.

IDENTIFICATION OF JAPANESE AIRCRAFT

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, dihedral, low-wing monoplane. Twin engine, long, rounded, transparent nose with transparent hemispherical turret, engine nacelles below wing, inclosed cockpit, twin rudders, and retractable landing gear.

Crew: Five.

Armament: One cannon and four machine guns.

Ammunition:

Bomb load: 2,200 pounds.

Radio:

Armor:

Motors: Two 750-horsepower Mitsu.

Maximum speed: 220 miles per hour.

Rate of climb:

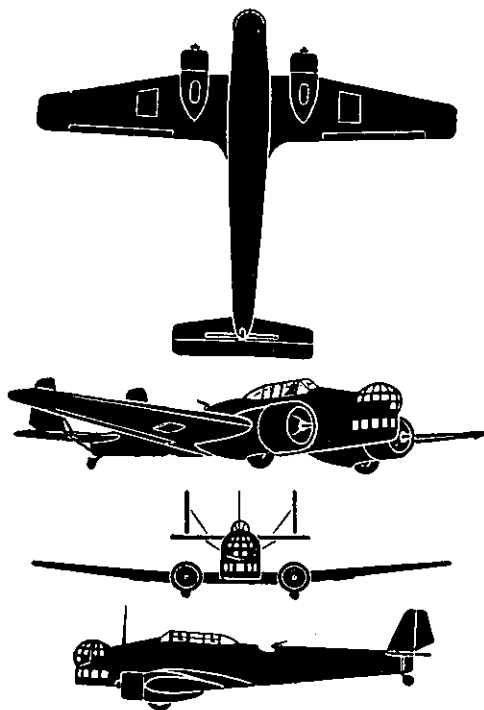
Service ceiling: 23,000 feet.

Maximum range: 1,180 miles.

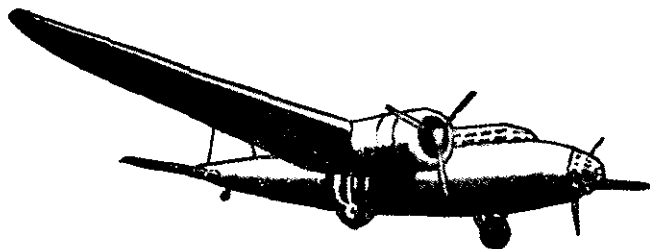
Wing span: 75 feet.

Remarks:

Heavy Bomber
MITSUBISHI 98 (MITSU 106)



JAPANESE
ARMY



NAKAJIMA 19 BOMBER-TRANSPORT

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

Crew:

Armament:

Ammunition:

Bomb load:

Radio:

Armor:

Motors: Two.

Maximum speed: 217 miles per hour.

Rate of climb:

Service ceiling:

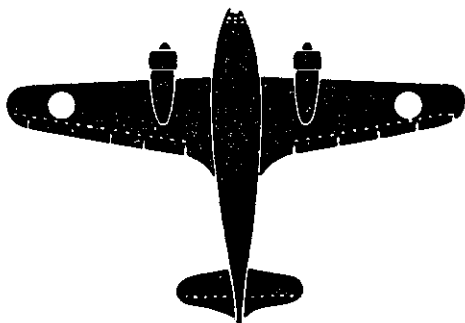
Maximum range:

Wing span: 72 feet.

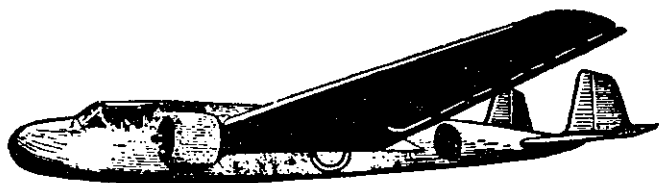
Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Bomber-Transport
NAKAJIMA 19



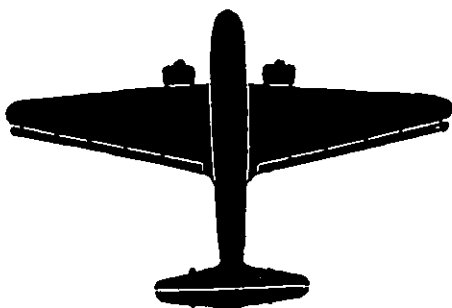
JAPANESE
ARMY AND NAVY



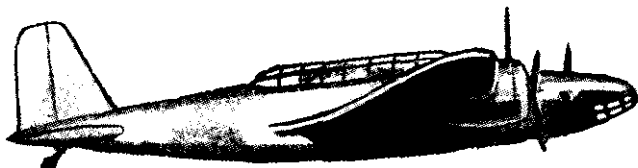
HEAVY BOMBER 96

- Description:** Considerably swept-back tapered tip, cantilever, 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



**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.
- Ammunition:** 300 to 700 rounds per gun.
- Bomb load:** 3,000 pounds.
- Radio:**
- Armor:** Armored seats.
- Motors:** 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, air-cooled motor. Also BMW IV water-cooled engine.
- Maximum speed:** 230 miles per hour, critical altitude. 150 miles per hour, cruising speed.
- Rate of climb:** 1,000 meters in 2.11 minutes.
- Service ceiling:**
- Maximum range:** Endurance 12 hours at 150 miles per hour.
- Remarks:** Self-sealing gas tanks. Also oxygen tanks.

IDENTIFICATION OF JAPANESE AIRCRAFT

Heavy Bomber
97
(Modified)

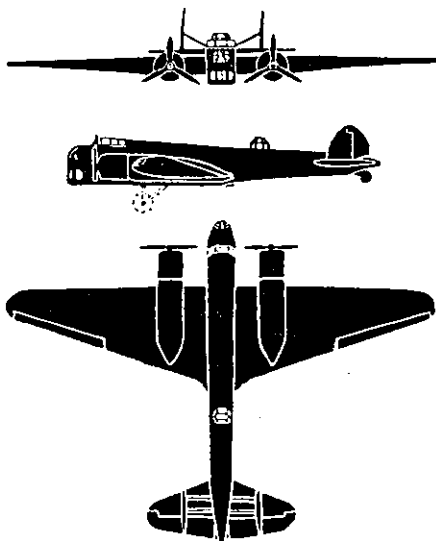


JAPANESE
ARMY

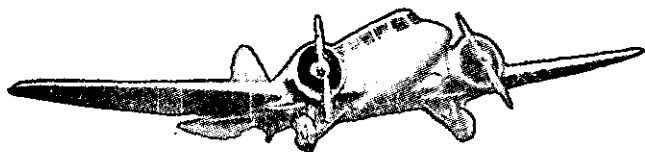
HEAVY BOMBER 98
(FIAT B. R. 20, 1937)
 (Also called "Mikado")

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 motors; 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

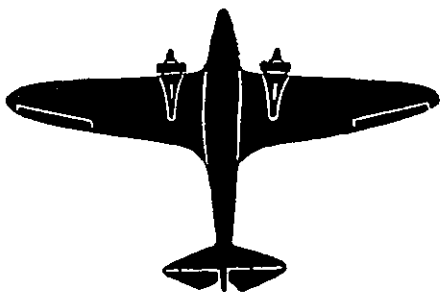


AIRSPEED ENVOY TRANSPORT

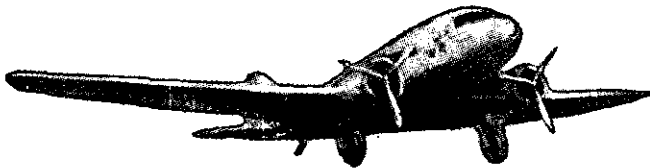
Description: Low-wing monoplane.
Crew: One. Passengers, five.
Armament:
Ammunition:
Bomb load:
Radio:
Aarmor:
Motors: Twin 480-horsepower, air-cooled motor.
Total horsepower, 960.
Maximum speed: 280 kilometers or 173.9 miles per hour.
Rate of climb:
Service ceiling: Maximum ceiling, 5,020 meters.
Maximum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

IDENTIFICATION OF JAPANESE AIRCRAFT

Transport
AIRSPEED ENVOY



JAPANESE
Commercial

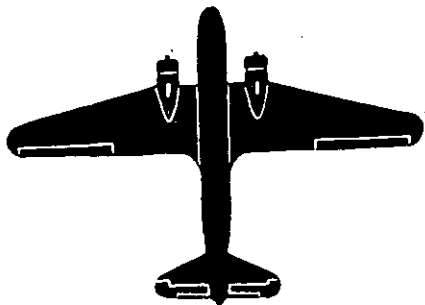


DOUGLAS DC-2 TRANSPORT

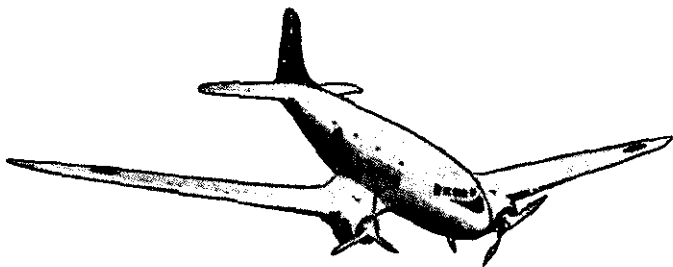
Description: Swept-back, round tip, low-wing mono-
plane.
Crew: Three. Passengers, 14.
Armament:
Ammunition:
Bomb load:
Radio:
Armor:
Motors: Twin air-cooled motors.
Maximum speed: 343 kilometers or 213.1 miles per hour.
Rate of climb:
Service ceiling: Maximum ceiling, 7,200 meters.
Maximum range: Endurance, 6 to 7 hours.
Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Transport
DOUGLAS DC-2



JAPANESE
Commercial



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:

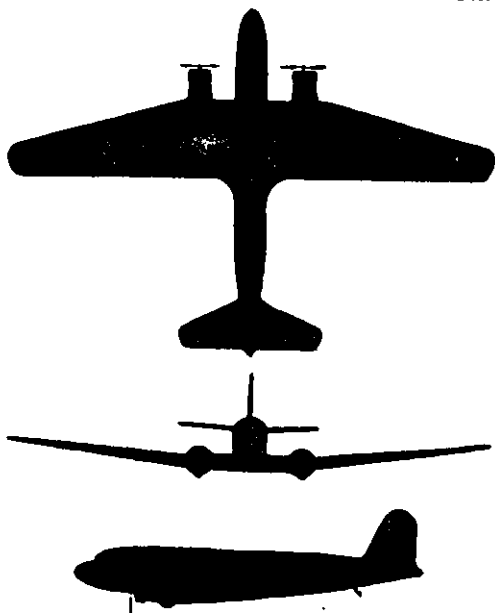
Maximum range:

Wing span: 95 feet.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Transport
DOUGLAS DC-3



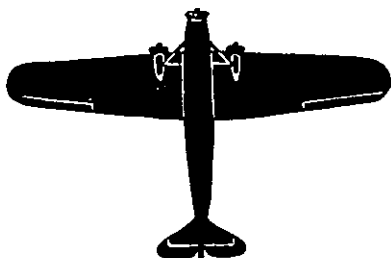
JAPANESE
Commercial



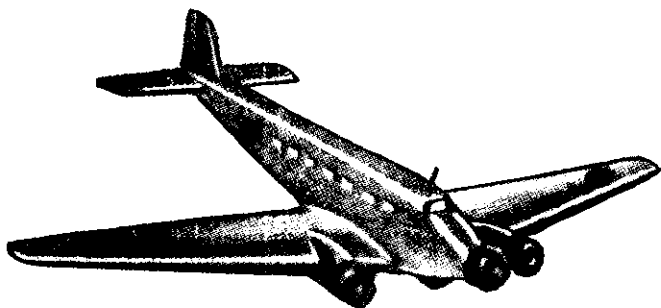
FOKKER TRANSPORT

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

FOKKER TRANSPORT



**JAPANESE
ARMY**



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:

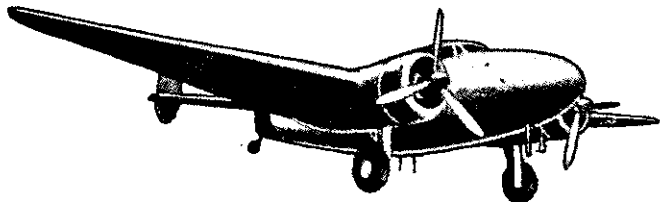
Wing span: 96 feet.

Remarks:

Transport
JUNKERS JU 52



JAPANESE
Commercial



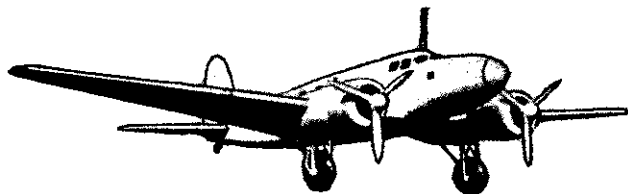
"LOCKHEED 14" TRANSPORT

- 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"



JAPANESE
ARMY



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:

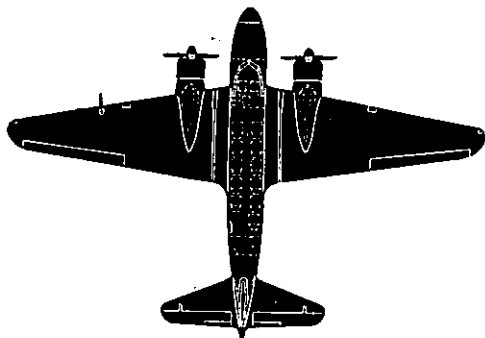
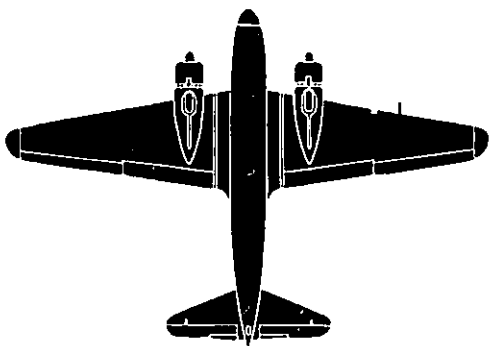
Service ceiling:

Maximum range:

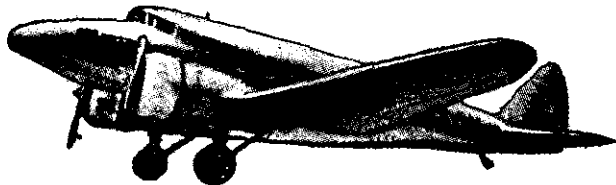
Wing span: 74 feet.

Remarks:

Transport
MITSUBISHI MC-20



JAPANESE
Commercial



NAKAJIMA A. T. TRANSPORT

Description: Swept-back, round tip, low-wing mono-
plane.

Crew: Two. Passengers, eight.

Armament:

Ammunition:

Bomb load:

Radio:

Armor:

Motors: Twin air-cooled, 900-horsepower motors.

Maximum speed: 370 kilometers or 229.9 miles per hour.

Rate of climb:

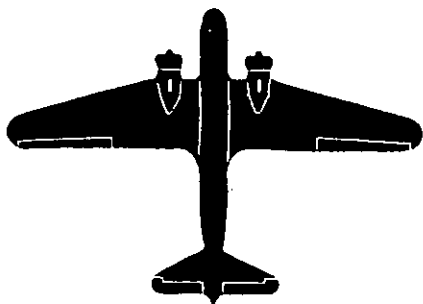
Service ceiling: Maximum ceiling, 9,000 meters.

Maximum range:

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Transport
NAKAJIMA A. T.



JAPANESE
ARMY

TATIKAWA 95-1 TRAINER

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

IDENTIFICATION OF JAPANESE AIRCRAFT

**Trainer
TATIKAWA 95-1**

JAPANESE
ARMY

TATIKAWA 95-3 TRAINER

Description:

Crew:

Armament:

Ammunition:

Bomb load:

Radio:

Armor:

Motors: One 150-horsepower type 95.

Maximum speed: 106 miles per hour.

Rate of climb:

Service ceiling:

Maximum range:

Wing span: 33 feet.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Trainer
TATIKAWA 95-3

JAPANESE NAVY

JAPANESE
NAVY

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 miles per hour.

Rate of climb:

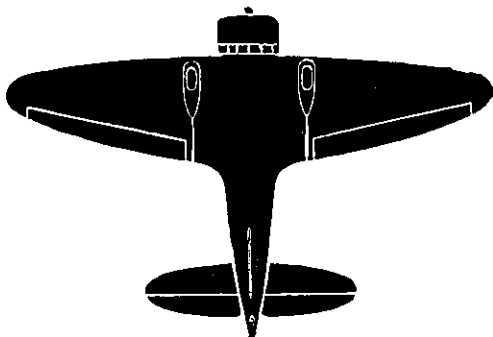
Service ceiling: 31,000 feet.

Maximum range: 440 miles.

Wing span: 36 feet.

Remarks: Range can be increased to 840 miles by addition of a belly tank.

Fighter
MITSUBISHI 96



JAPANESE
NAVY

MITSUBISHI 97 FIGHTER

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

Fighter
MITSUBISHI 97

JAPANESE
NAVY

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

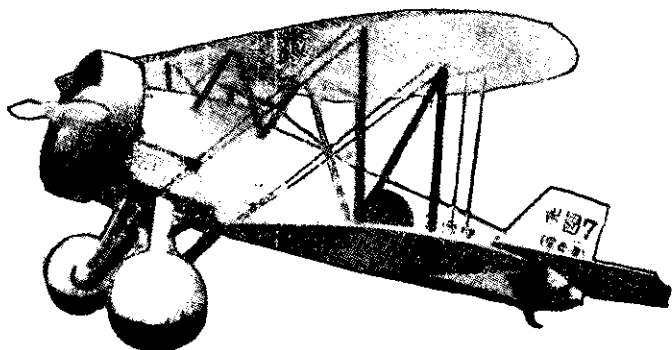
JAPANESE
NAVY

NAKAJIMA 90 FIGHTER
(Obsolescent)

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

Fighter
NAKAJIMA 90

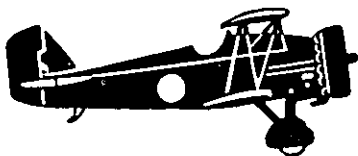
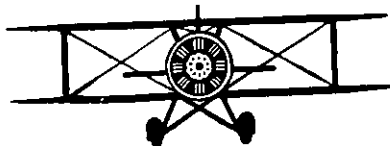
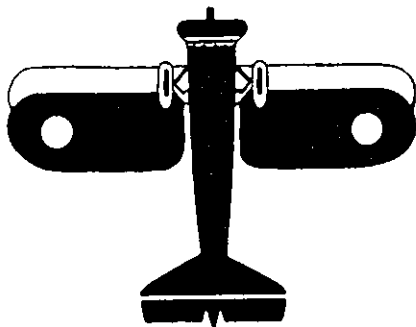
JAPANESE
NAVY



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:**
- Wing span:** 33 feet.
- Remarks:** Resembles Curtiss Hawk.

Fighter
NAKAJIMA 95



JAPANESE
NAVY

NAKAJIMA 97 FIGHTER

Description:
Crew: One.
Armament: Two Vickers machine guns.
Ammunition: 550 rounds per machine gun.
Bomb load:
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.

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
NAKAJIMA 97

JAPANESE
NAVYNAKAJIMA 97 (NAKA 93) FIGHTER
(Floatplane)

Description: Straight wing, round tip, midwing monoplane. 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: 220 miles per hour.

Rate of climb:

Service ceiling: 27,000 feet.

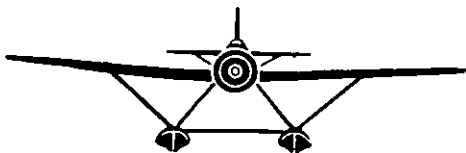
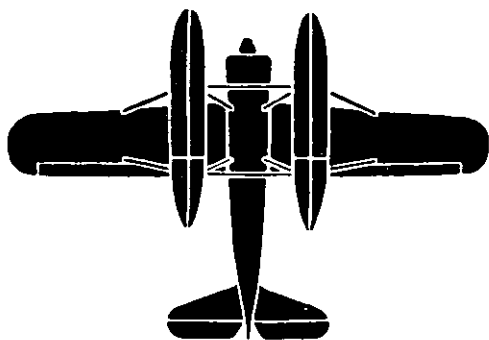
Maximum range: 325 miles.

Wing span: 37 feet.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
NAKAJIMA 97 (NAKA 93)



JAPANESE
NAVY

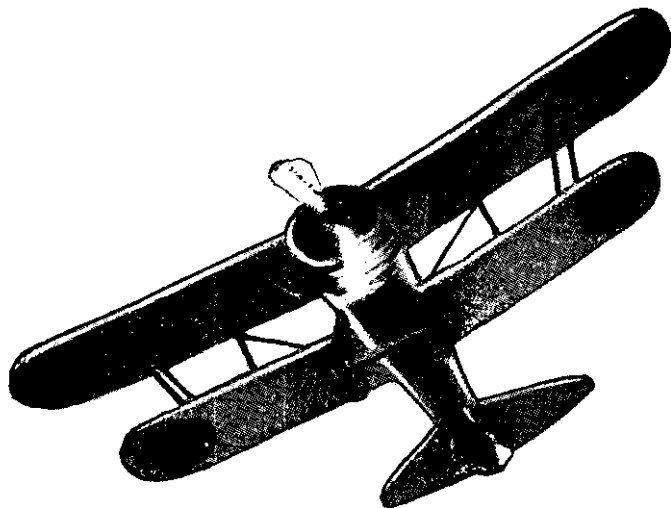
NAKAJIMA 97 (NAKA 97) FIGHTER

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.

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
NAKAJIMA 97 (NAKA 97)

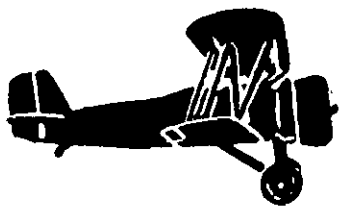
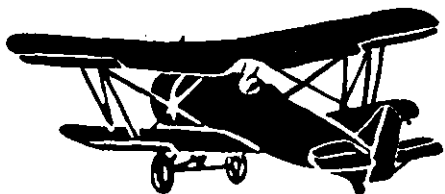
JAPANESE
NAVY



NUMBER 95 CARRIER FIGHTER

Description:	Straight wing, round tip, cut-out, staggered 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:	
Maximum range:	490 miles.
Wing span:	33 feet.
Remarks:	

Carrier Fighter
95



JAPANESE
NAVYAICHI 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: Three machine guns (two fixed).

Ammunition:

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.

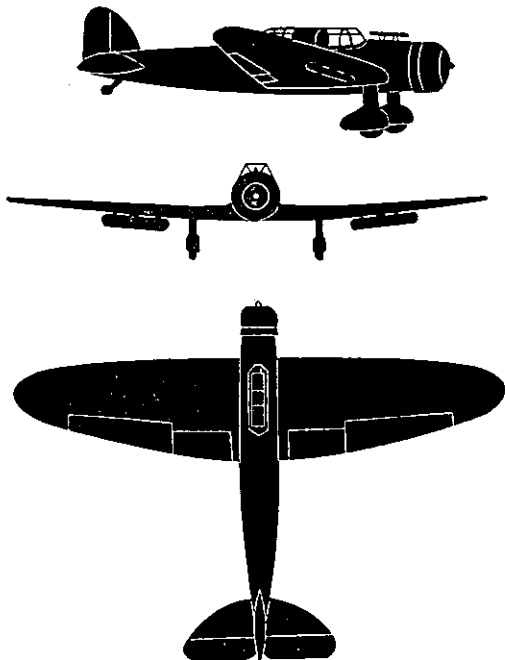
Maximum range: 450 miles.

Wing span: 47 feet.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Dive Bomber
AICHI 99



JAPANESE
NAVY

MITSUBISHI 96 DIVE BOMBER

Description: Straight wing, round tip, slightly staggered biplane. Single engine, blunt nose, and fixed landing gear.

Crew: Two.

Armament: Two machine guns.

Ammunition:

Bomb load:

Radio:

Motors: One 730-horsepower Kinsei.

Maximum speed: 180 miles per hour.

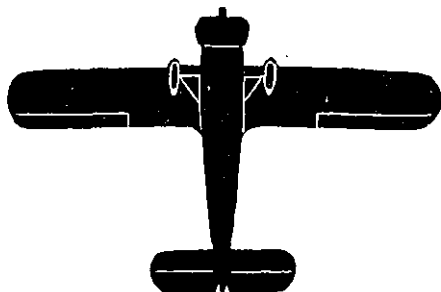
Service ceiling:

Maximum range:

Wing span: 38 feet.

Remarks:

Dive Bomber
MITSUBISHI 96



JAPANESE
NAVY

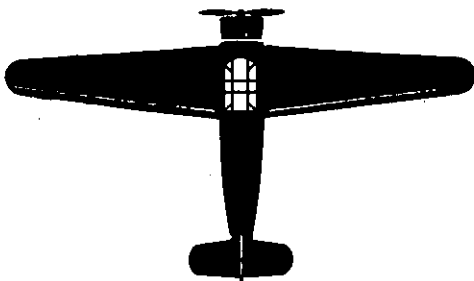
DIVE BOMBER 97

(Also called Deck Type Reconnaissance)

- Description: Wing flared at fuselage, cantilever, low-wing monoplane with retractable undercarriage. 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.

IDENTIFICATION OF JAPANESE AIRCRAFT

Dive Bomber
97
(Also called Deck
Type Reconnaissance)



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:

IDENTIFICATION OF JAPANESE AIRCRAFT

**Reconnaissance
AICHI 92**

JAPANESE
NAVY

AICHI TOKEI 97 A. I. 92 RECONNAISSANCE

Description: Straight wing, round tips, staggered biplane of unequal span. Single engine, 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.

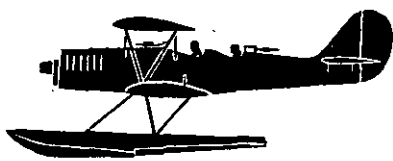
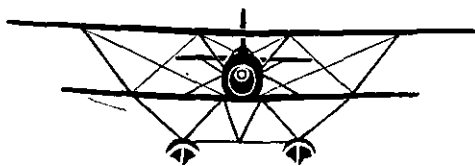
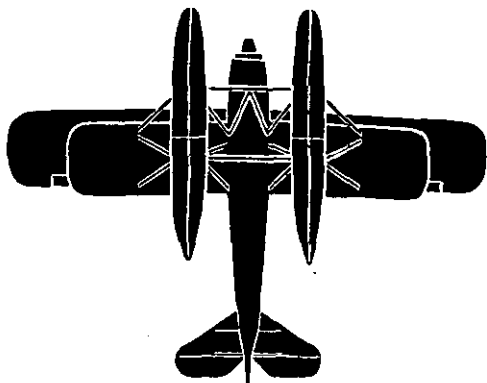
Maximum range: 410 miles.

Wing span: 43 feet.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Reconnaissance
AICHI TOKEI 97 A. I. 92



JAPANESE
NAVY

KAWANISHI 93 RECONNAISSANCE.
(Obsolescent)

Description:

Crew:

Armament:

Ammunition:

Bomb load:

Radio:

Armor:

Motors: One 450-horsepower Nakajima (Jupiter).

Maximum speed:

Rate of climb:

Service ceiling:

Maximum range:

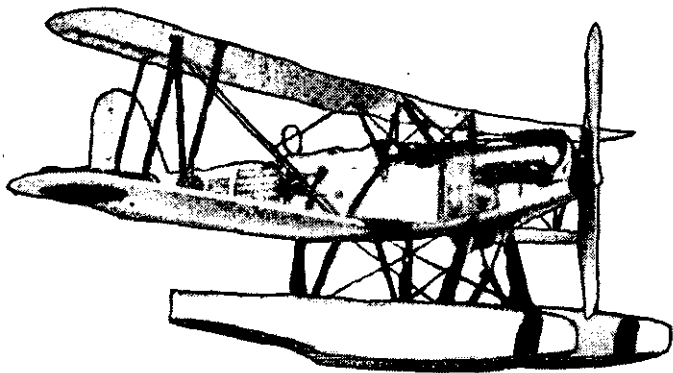
Wing span: 48 feet.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Reconnaissance
KAWANISHI 93

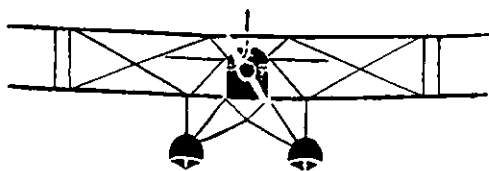
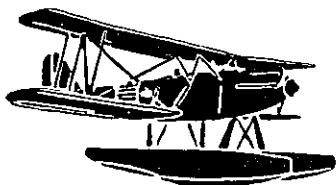
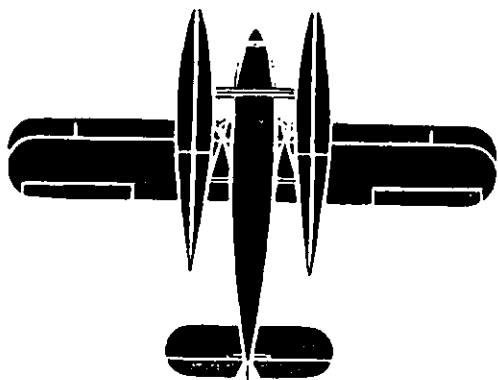
JAPANESE
NAVY



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.

Reconnaissance-Bomber
KAWANISHI 94



JAPANESE
NAVY

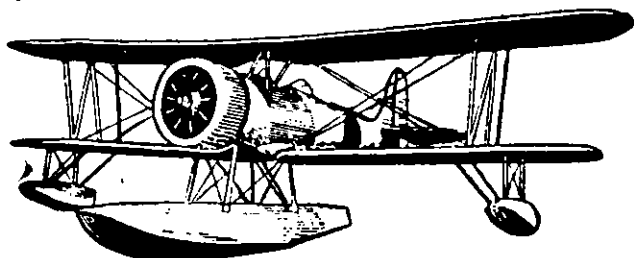
NAKAJIMA 90-2 RECONNAISSANCE-BOMBER
(Obsolescent)

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.

IDENTIFICATION OF JAPANESE AIRCRAFT

**Reconnaissance-Bomber
NAKAJIMA 90-2**

**JAPANESE
NAVY**

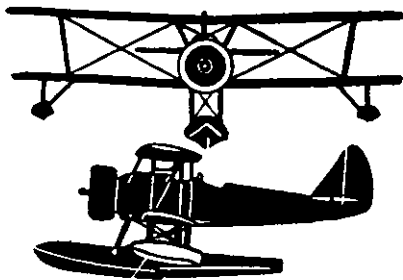
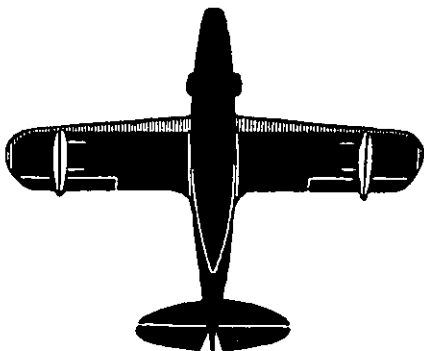


RECONNAISSANCE-BOMBER 95

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-Bomber

95



JAPANESE
NAVY

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:

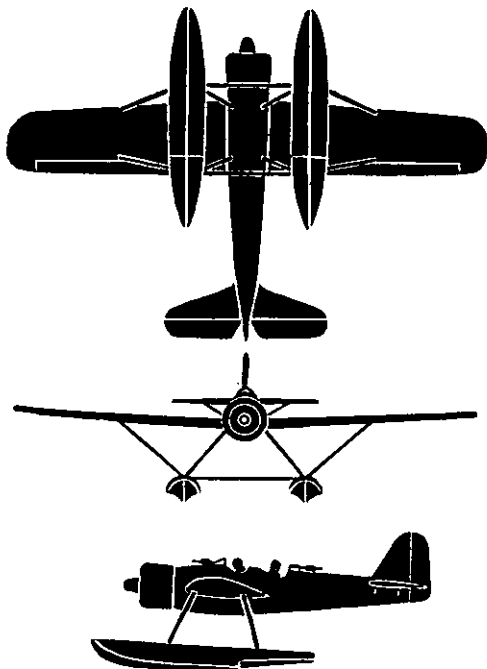
Service ceiling: 29,500 feet.

Maximum range:

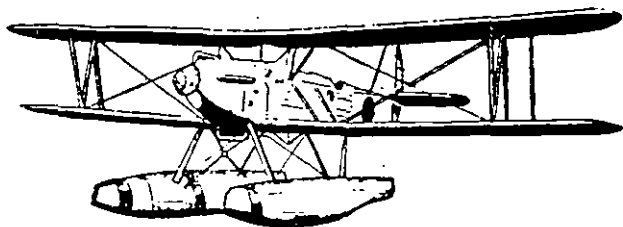
Wing span:

Remarks:

Reconnaissance
97 (DIVINE WIND)



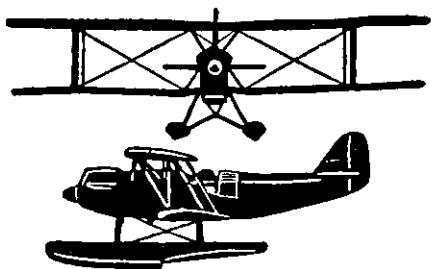
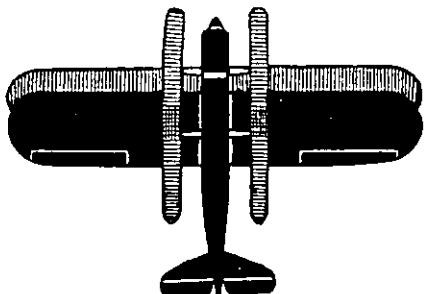
**JAPANESE
NAVY**



KAWANISHI 97 (KAWA 94) TORPEDO BOMBER

- Description:** Straight wing, round tip, slightly dihedral biplane. Twin floats.
- Crew:** Two or three.
- Armament:** One fixed forward, and one flexible dorsal machine gun.
- Ammunition:** 500 rounds per fixed gun. 700 rounds per flexible mounted gun.
- Bomb load:** Largest bomb, 500 pounds.
- Radio:** CW telegraph.
- Armor:**
- Motors:** Single, Kawanishi, 650-horsepower, Hironal, 12-cylinder, W-type, water-cooled engine. Also Mitsubishi Junkers, V-type, water-cooled. 800 horsepower.
- Maximum speed:** 155 miles per hour.
- Rate of climb:**
- Service ceiling:** 20,000 feet.
- Maximum range:** 450 miles.
- Wing span:** 46 feet.
- Remarks:**

Torpedo Bomber
KAWANISHI 97 (KAWA 94)



JAPANESE
NAVY

MITSUBISHI 97 TORPEDO BOMBER

Description: Tapered, round tip, dihedral, low-wing monoplane. Single engine, blunt nose, and retractable landing gear.

Crew: Three.

Armament: Three machine guns.

Ammunition:

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: 50 feet.

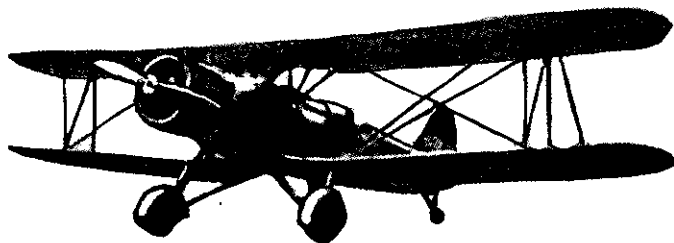
Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Torpedo Bomber
MITSUBISHI 97



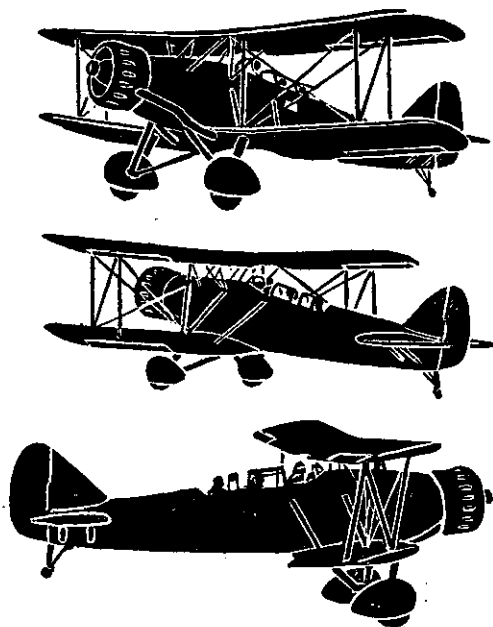
JAPANESE
NAVY



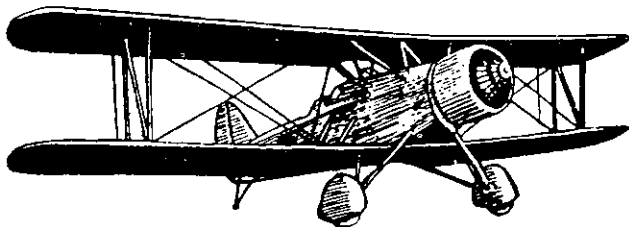
NAKAJIMA 96 TORPEDO BOMBER

- Description:** Straight wing, round tip, staggered biplane. 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



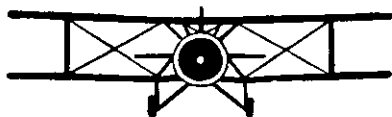
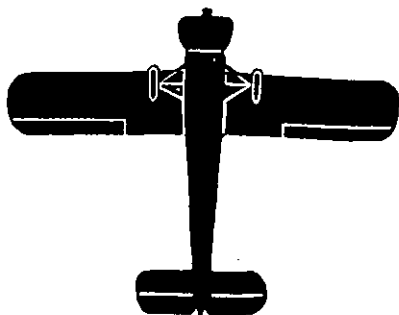
JAPANESE
NAVY



TORPEDO BOMBER 96

- Description:** Biplane, nonretractable, streamlined.
Crew: Three seater.
Armament: Five machine guns.
Ammunition:
Bomb load: 1,500-pound torpedo or bombs.
Radio:
Armor:
Motors: Single, Hikari, 600-horsepower, air-cooled engine for light bomber. Probably 800-horsepower, air-cooled engine for torpedo bomber.
- Maximum speed:** 300 kilometers or 186.4 miles per hour.
Rate of climb:
Service ceiling: Maximum ceiling, 7,600 meters.
Maximum range: Five hours at 140 miles per hour with load.
- Remarks:**

Torpedo Bomber
96



JAPANESE
NAVY

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:

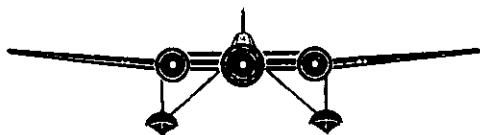
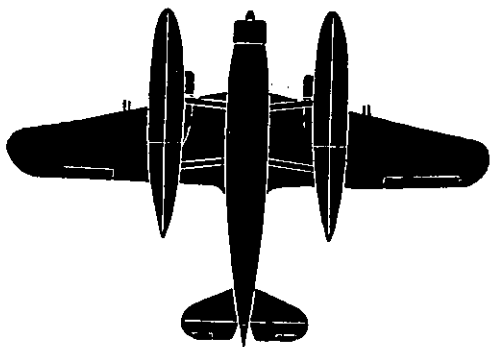
Service ceiling: 24,000 feet.

Maximum range: 1,000 miles.

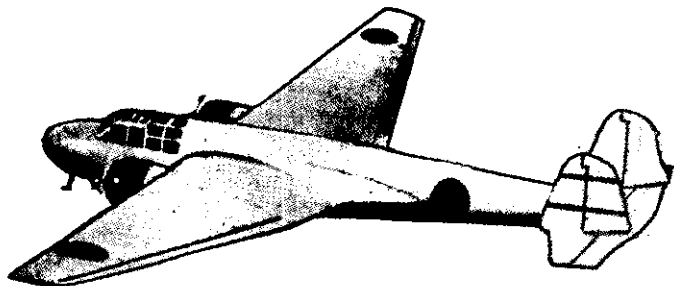
Wing span: 87 feet.

Remarks:

Bomber
AICHI AI 104



JAPANESE
NAVY

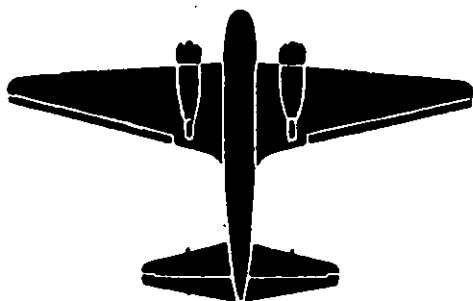


MITSUBISHI 96 MK. III BOMBER

- Description:** Swept-back, tapered, square tip, slightly dihedral, midwing monoplane. Twin engine, long rounded nose, engine nacelles below wing, inclosed cockpit, twin rudders, and retractable landing gear.
- Crew:** Seven.
- Armament:** Eight machine guns.
- Ammunition:**
- 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.

IDENTIFICATION OF JAPANESE AIRCRAFT

Bomber
MITSUBISHI 96 MK. III

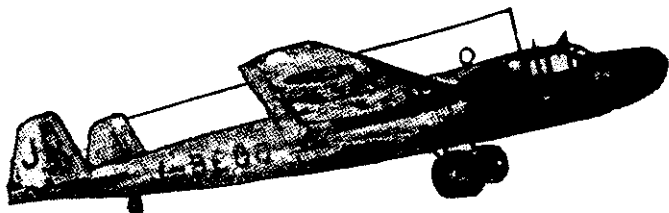


JAPANESE
NAVYMITSUBISHI 96 MK. IV BOMBER
(Similar in appearance to Mk. III)

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 hour.
Rate of climb:
Service ceiling:
Maximum range:
Wing span: 82 feet.
Remarks: Resembles Junkers Ju 86K.

Bomber
MITSUBISHI 96 MK. IV

JAPANESE
NAVY



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:

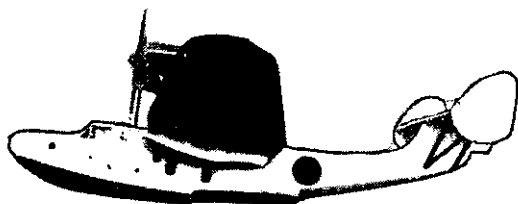
Wing span:

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Bomber
MITSUBISHI 96 (OTORI)

**JAPANESE
NAVY**



HIRO 91-1 FLYING BOAT

Description: Swept-back, tapered, round tip, dihedral, parasol type, high-wing monoplane flying boat. Twin engine, long elliptical nose, engine nacelles mounted above wing, inclosed cabin, and twin rudders.

Crew: Eight.

Armament: Two machine guns.

Ammunition:

Bomb load:

Radio:

Armor:

Motors: Two 600-horsepower Hiro.

Maximum speed: 130 miles per hour.

Rate of climb:

Service ceiling: 13,000 feet.

Maximum range: 600 miles.

Wing span: 77 feet.

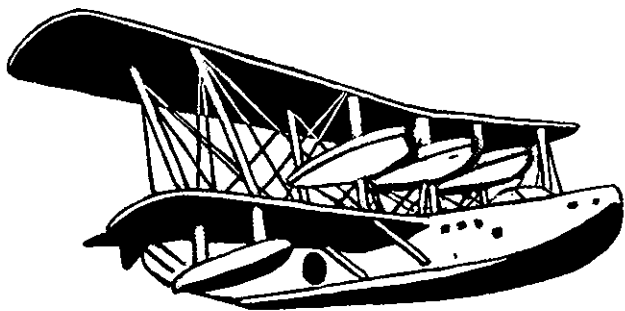
Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Flying Boat
HIRO 91-1



**JAPANESE
NAVY**

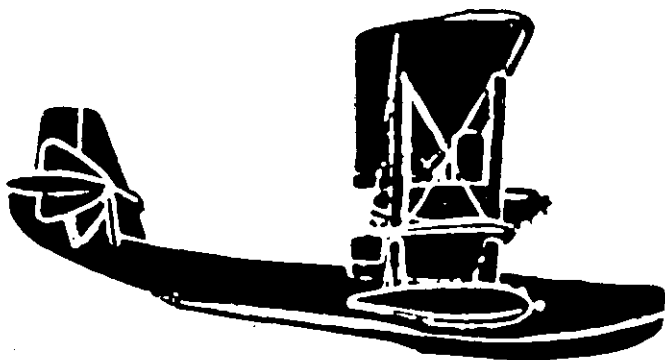
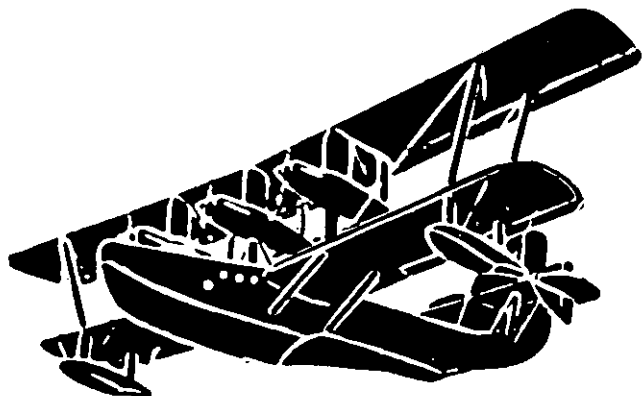
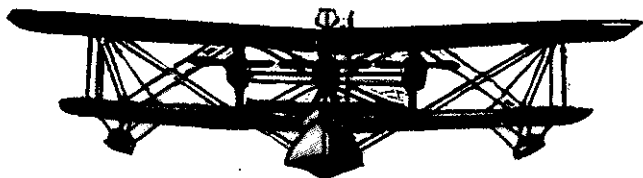


KAWANISHI 90-2 FLYING BOAT

- 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:** Four machine guns.
- Ammunition:**
- Bomb load:**
- Radio:**
- Aarmor:**
- Motors:** Three 955-horsepower R. R. Buzzard.
- Maximum speed:** 140 miles per hour.
- Rate of climb:**
- Service ceiling:** 13,000 feet.
- Maximum range:** 980 miles.
- Wing span:** 102 feet.
- Remarks:** Resembles Short K. F. I. "Rangoon."

IDENTIFICATION OF JAPANESE AIRCRAFT

Flying Boat
KAWANISHI 90-2



JAPANESE
NAVY

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.

Crew:

Armament:

Ammunition:

Bomb load:

Radio:

Armor:

Motors: Four 800-horsepower Cyclone.

Maximum speed: 190 miles per hour.

Rate of climb:

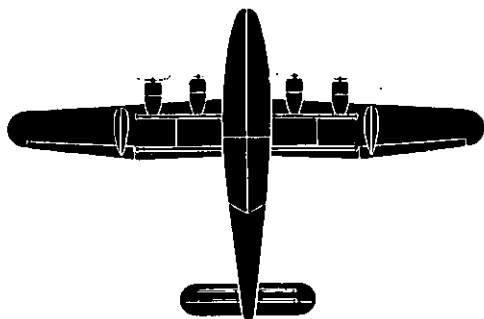
Service ceiling: 19,000 feet.

Maximum range: 1,750 miles.

Wing span: 131 feet.

Remarks:

Flying Boat
KAWANISHI 97



JAPANESE
NAVY

MITSUBISHI 96 (MITSU 95) FLYING BOAT

Description: Straight wing, square tip, biplane of unequal 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.

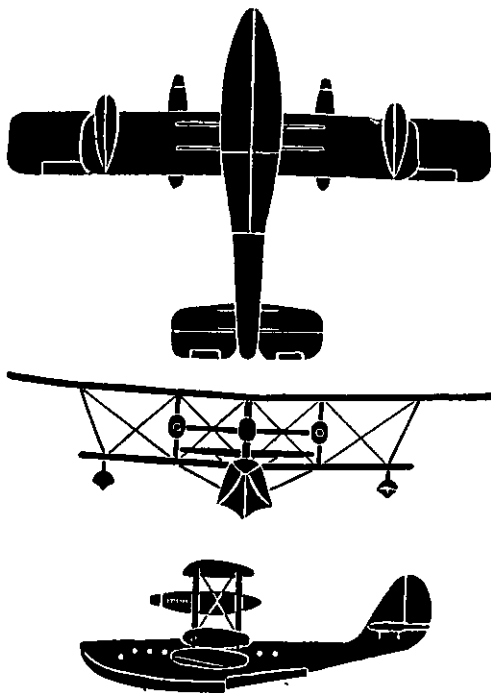
Maximum range: 1,400 miles.

Wing span: 97 feet.

Remarks:

IDENTIFICATION OF JAPANESE AIRCRAFT

Flying Boat
MITSUBISHI 96 (MITSU 95)



JAPANESE
NAVY -



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:**

IDENTIFICATION OF JAPANESE AIRCRAFT

Flying Boat

97

(Copy of Sikorsky 5-42)

