WAR DEPARTMENT

BASIC FIELD MANUAL

MILITARY INTELLIGENCE

IDENTIFICATION OF JAPANESE AIRCRAFT

March 16, 1942
WAR DEPARTMENT,
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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:

X.

(For explanation of symbols see FM 21–6.)
**LIST OF ILLUSTRATIONS**

**JAPANESE ARMY**

<table>
<thead>
<tr>
<th>Single engine fighters:</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>BFW (Messerschmitt 109)</td>
<td>4</td>
</tr>
<tr>
<td>Kawasaki 92</td>
<td>6</td>
</tr>
<tr>
<td>Kawasaki 95</td>
<td>8</td>
</tr>
<tr>
<td>Kawasaki 97</td>
<td>10</td>
</tr>
<tr>
<td>(Kawasaki Kawa 102) 98</td>
<td>12</td>
</tr>
<tr>
<td>Mitsubishi 96</td>
<td>14</td>
</tr>
<tr>
<td>Mitsubishi 97</td>
<td>16</td>
</tr>
<tr>
<td>Mitsubishi 98 (Karigane II)</td>
<td>18</td>
</tr>
<tr>
<td>Mitsubishi Zero</td>
<td>20</td>
</tr>
<tr>
<td>Nagoya Zero</td>
<td>22</td>
</tr>
<tr>
<td>Nakajima 91</td>
<td>24</td>
</tr>
<tr>
<td>Nakajima 96</td>
<td>26</td>
</tr>
<tr>
<td>Nakajima 97</td>
<td>28</td>
</tr>
<tr>
<td>Seversky 98</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Twin engine fighters:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitsubishi Century</td>
<td>32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dive bombers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aichi Clock Aichi</td>
<td>34</td>
</tr>
<tr>
<td>Number 96</td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light bombardment:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Kawasaki 97</td>
<td>38</td>
</tr>
<tr>
<td>Mitsubishi Darai 108 (Type 97)</td>
<td>40</td>
</tr>
<tr>
<td>Mitsubishi Kamikazi 97</td>
<td>42</td>
</tr>
<tr>
<td>Mitsubishi Mitsu 103</td>
<td>44</td>
</tr>
<tr>
<td>Mitsubishi Mitsu 104 (Type 98)</td>
<td>46</td>
</tr>
<tr>
<td>Number 97</td>
<td>48</td>
</tr>
<tr>
<td>Number 98</td>
<td>50</td>
</tr>
<tr>
<td>Number 99</td>
<td>52</td>
</tr>
<tr>
<td>Shōwa Shō 98 (Fighter-Bomber)</td>
<td>54</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reconnaissance-bombers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Kawasaki 98</td>
<td>56</td>
</tr>
<tr>
<td>Kawasaki 93</td>
<td>58</td>
</tr>
<tr>
<td>Mitsubishi 92</td>
<td>60</td>
</tr>
<tr>
<td>Mitsubishi 93A</td>
<td>62</td>
</tr>
<tr>
<td>Mitsubishi 93B</td>
<td>64</td>
</tr>
<tr>
<td>Mitsubishi 98</td>
<td>66</td>
</tr>
<tr>
<td>Nakajima 94</td>
<td>68</td>
</tr>
<tr>
<td>Osaka 97</td>
<td>70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Medium bombers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number 98</td>
<td>72</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Heavy bombers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Kawasaki (Kawa 95) 97</td>
<td>74</td>
</tr>
<tr>
<td>Mitsubishi 92</td>
<td>76</td>
</tr>
<tr>
<td>Mitsubishi 97</td>
<td>78</td>
</tr>
<tr>
<td>Mitsubishi 98 (Mitsu 106)</td>
<td>80</td>
</tr>
<tr>
<td>Nakajima 19 (Bomber-Transport)</td>
<td>82</td>
</tr>
<tr>
<td>Number 96</td>
<td>84</td>
</tr>
<tr>
<td>Number 97</td>
<td>86</td>
</tr>
<tr>
<td>Number 98 (B. R. 20 Flat)</td>
<td>88</td>
</tr>
</tbody>
</table>
## LIST OF ILLUSTRATIONS

<table>
<thead>
<tr>
<th>Transports, commercial and military:</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airspeed Envoy</td>
<td>90</td>
</tr>
<tr>
<td>Douglas DC-2</td>
<td>92</td>
</tr>
<tr>
<td>Douglas DC-3</td>
<td>94</td>
</tr>
<tr>
<td>Fokker</td>
<td>96</td>
</tr>
<tr>
<td>Junkers Ju 52</td>
<td>98</td>
</tr>
<tr>
<td>Lockheed 14</td>
<td>100</td>
</tr>
<tr>
<td>Mitsubishi MC 20</td>
<td>102</td>
</tr>
<tr>
<td>Nakajima A. T</td>
<td>104</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trainers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tatikawa 95-1</td>
<td>106</td>
</tr>
<tr>
<td>Tatikawa 95-3</td>
<td>108</td>
</tr>
</tbody>
</table>

**JAPANESE NAVY**

<table>
<thead>
<tr>
<th>Fighters:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitsubishi 96</td>
<td>112</td>
</tr>
<tr>
<td>Mitsubishi 97</td>
<td>114</td>
</tr>
<tr>
<td>Mitsubishi 97 (Modification 01)</td>
<td>116</td>
</tr>
<tr>
<td>Nakajima 90</td>
<td>116</td>
</tr>
<tr>
<td>Nakajima 95</td>
<td>120</td>
</tr>
<tr>
<td>Nakajima 97</td>
<td>122</td>
</tr>
<tr>
<td>Nakajima 97 (Naka 93)</td>
<td>124</td>
</tr>
<tr>
<td>Nakajima 97 (Naka 97)</td>
<td>126</td>
</tr>
<tr>
<td>Number 95 (Carrier)</td>
<td>128</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dive bombers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aichi 99</td>
<td>130</td>
</tr>
<tr>
<td>Mitsubishi 96</td>
<td>132</td>
</tr>
<tr>
<td>Number 97</td>
<td>134</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reconnaissance-bombers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aichi 92</td>
<td>136</td>
</tr>
<tr>
<td>Aichi Toki 97 A. I. 92</td>
<td>138</td>
</tr>
<tr>
<td>Kawanishi 93</td>
<td>140</td>
</tr>
<tr>
<td>Kawanishi 94</td>
<td>142</td>
</tr>
<tr>
<td>Nakajima 90-2</td>
<td>144</td>
</tr>
<tr>
<td>Number 95</td>
<td>146</td>
</tr>
<tr>
<td>Number 97 (Divine Wind)</td>
<td>148</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Torpedo bombers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Kawanishi 97 (Kawa 94)</td>
<td>150</td>
</tr>
<tr>
<td>Mitsubishi 97</td>
<td>152</td>
</tr>
<tr>
<td>Nakajima 96</td>
<td>154</td>
</tr>
<tr>
<td>Number 98</td>
<td>156</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bombers:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aichi A1 104</td>
<td>158</td>
</tr>
<tr>
<td>Mitsubishi 96 Mk. III</td>
<td>160</td>
</tr>
<tr>
<td>Mitsubishi 96 Mk. IV</td>
<td>162</td>
</tr>
<tr>
<td>Mitsubishi 96 (Otori)</td>
<td>164</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flying boats:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hiro 91-1</td>
<td>166</td>
</tr>
<tr>
<td>Kawanishi 90-2</td>
<td>168</td>
</tr>
<tr>
<td>Kawanishi 97</td>
<td>170</td>
</tr>
<tr>
<td>Mitsubishi 96 (Mitsu 95)</td>
<td>172</td>
</tr>
<tr>
<td>Number 97 (Sikorsky 5-42)</td>
<td>174</td>
</tr>
</tbody>
</table>
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**
  - None
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: VL

Motor: 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
KAWASAKI 92 FIGHTER
(Obsolescent)

Description: One.

Crew: One.

Armament: One 500-horsepower Kawasaki (BMW).

Ammunition:

Bomb load:

Radio:

Ammunition:

Armament:

Motors:

Maximum speed: 205 miles per hour.

Rate of climb:

Service ceiling:

Maximum range:

Wing span: 33 feet.

Remarks:
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
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: One 850-horsepower Kawasaki 102.

Motors:

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: One 820-horsepower Kawasaki, liquid-cooled.

Bomb load:

Radio:

Armor:

Motors:

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
MITSUBISHI 96 FIGHTER
(Obsolescent)

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

Fighter

MITSUBISHI 96
MILITARY INTELLIGENCE

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: One 650-horsepower Mitsu 109 Hispano Suiza.

Bomb load: 265 miles per hour.

Radio: 15,000 feet in 7½ minutes.

Armor: 29,000 feet.

Motors: 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
MITSUBISHI 98 (KARIGANE II)

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

Crew: Two.

Armament: One 800-horsepower Mitsubishi A-14.

Ammunition: 310 miles per hour

Bomb load: 39 feet.

Radio: Resembles Northrop A-17.

Ammunition: One 800-horsepower Mitsubishi A-14.

Armament: 310 miles per hour

Bomb load: 39 feet.

Radio: Resembles Northrop A-17.
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter

MITSUBISHI 98 (KARIGANE II)
MITSUBISHI ZERO FIGHTER
(Also called Type 00 Model 1 Sento Ki)


Crew: One.

Armament: Two 20-mm cannon and two machine guns.

Ammunition: One Junkers 800-horsepower (some have Nakajima Sakai 12).

Bomb load: 298 miles per hour.

Radio:

Armor:

Motors: One Junkers 800-horsepower (some have Nakajima Sakai 12).

Maximum speed: 39,300 feet.

Rate of climb: 2.000 miles (approximate).

Service ceiling: 37 feet.

Maximum range: Has detachable belly tank.
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
MITSUBISHI ZERO
NAGOYA ZERO FIGHTER

Description: Tapered, swept-back, round tip, slightly dihedral, all metal, low-wing monoplane. Single engine, blunt nose, enclosed 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: Two-way radiotelephone and code.


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.
NAKAJIMA 91 FIGHTER
(Obsolescent)

Description: One.
Crew: One.
Armament: One 450-horsepower Nakajima Jupiter.
Ammunition: 24
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)
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.
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
NAKAJIMA 96
(1937)
NAKAJIIMA 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: Single, Nakajima, 750-horsepower, Hikari, air-cooled motor.

Radio: 280 miles per hour, critical altitude. 240 miles per hour, sea level.

Armor: Maximum speed:

Motors: 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
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.
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
SEVERSKY 98
MILITARY INTELLIGENCE

JAPANESE ARMY

MITSUBISHI CENTURY FIGHTER

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

Bomb load: 32
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
MITSUBISHI CENTURY
AICHI CLOCK AICHI DIVE BOMBER

Description:

Crew: Two.

Armament: Three machine guns (one similar to Lewis).

Ammunition: 550 pounds.

Bomb load: One 1,400-horsepower Kinsei 44 twin-row radial.

Radio:

Armor:

Motors:

Maximum speed:

Rate of climb:

Service ceiling: 23,000 feet.

Maximum range:

Wing span:

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

Dive Bomber
AICHI CLOCK AICHI

US ARMY MILITARY HISTORY INSTITUTE

MCMLXVII

35
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: 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: 800 pounds.

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
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: 1,230 pounds.

Bomb load: 1,230 pounds.

Radio:

Armament:

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)
MILITARY INTELLIGENCE

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: 300 kilograms or 661.3 pounds.

Bomb load: 300 kilograms or 661.3 pounds.

Radio: 

Armor: 

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: 

42
IDENTIFICATION OF JAPANESE AIRCRAFT

Light Bomber
MITSUBISHI KAMIKAZI 97
MITSUBISHI MITSU 103 LIGHT BOMBER

Description: Three machine guns.
Crew: 44
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: 27,000 feet.
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
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: 3,300 pounds.

Bomb load: 3,300 pounds.

Radio: One Mitsu, air-cooled.

Armors: One Mitsu, air-cooled.

Motors: One Mitsu, air-cooled.

Maximum speed: 250 miles per hour.

Rate of climb: 25,000 feet.

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 streamlined landing gear.

Crew: Two seat.

Armament: Single BMW IV, 12-cylinder, water-cooled engine.

Ammunition: 

Bomb load: 

Radio: 

Armor: 

Motors: 

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.
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: 

Maximum speed: 
Rate of climb: 
Service ceiling: 16,200 feet.
Maximum range: 
Remarks: Same as type 97 except it has a radial engine.
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: 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.

Bomb load: Type unknown.


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.
IDENTIFICATION OF JAPANESE AIRCRAFT

Light Bomber
99
SHÔWA SHÔ 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: 2,280 pounds.

Bomb load: 2,280 pounds.

Radio: One 850-horsepower Shôwa.

Motors: One 850-horsepower Shôwa.

Maximum speed: 225 miles per hour.

Rate of climb: 

Service ceiling: 

Maximum range: 950 miles.

Wing span: 50 feet.

Remarks: 

IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter-Bomber

SHŌWA SHŌ 98
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:
IDENTIFICATION OF JAPANESE AIRCRAFT

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: Two.

Ammunition: 2,200 pounds.

Bomb load: One 600-horsepower Kawasaki BMW.

Radio: 162 miles per hour.

Armor: 620 miles.

Motors: 43 feet.

Maximum speed: 43 feet.

Rate of climb: 43 feet.

Service ceiling: 43 feet.

Maximum range: 43 feet.

Wing span: 43 feet.
IDENTIFICATION OF JAPANESE AIRCRAFT

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: Three machine guns.

Ammunition: 620 pounds.

Bomb load: 620 pounds.


Armor: 155 miles per hour.

Motors: 20,000 feet.

Rate of climb: 370 miles.

Service ceiling: 43 feet.

Wing span: Resembles Mureaux.
IDENTIFICATION OF JAPANESE AIRCRAFT

Reconnaissance-Bomber
MITSUBISHI 92
JAPANESE ARMY

MITSUBISHI 93A RECONNAISSANCE-BOMBER
(Obsolescent)

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

Crew: 

Armament: 

Ammunition: 

Bomb load: 

Radio: 

Armor: 

Motors: Two 700-horsepower Mitsubishi or Kawasaki.

Maximum speed: 137 miles per hour.

Rate of climb: 

Service ceiling: 

Maximum range: 

Wing span: 89 feet.

MITSUBISHI 93B RECONNAISSANCE-BOMBER
(Obsolescent)

Description: Midwing monoplane. Twin engine, enclosed 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.

Reconnaissance-Bomber
MITSUBISHI 93B
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: 

JAPANESE ARMY
IDENTIFICATION OF JAPANESE AIRCRAFT

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: 660 pounds.

Bomb load: 660 pounds.

Radio: Taishahova (Diesel).

Armor: 23,000 feet.

Motors: One 200-horsepower Taishahova (Diesel).

Maximum speed: 175 miles per hour.

Rate of climb: 23,000 feet.

Service ceiling: 470 miles.

Maximum range: 39 feet.

Wing span: Resembles Chance-Vought.
Reconnaissance-Bomber
NAKAJIMA 94
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: 200 pounds.

Bomb load: 200 pounds.

Radio: 

Armor: One 200-horsepower Taishahova (Diesel).

Motors: 

Maximum speed: 162 miles per hour.

Rate of climb: 14,000 feet.

Service ceiling: 14,000 feet.

Maximum range: 870 miles.

Wing span: 34 feet.

Remarks: 

IDENTIFICATION OF JAPANESE AIRCRAFT

Reconnaissance-Bomber

OSAKA 97
<table>
<thead>
<tr>
<th>Description:</th>
<th>Low-wing monoplane.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crew:</td>
<td>Two to three.</td>
</tr>
<tr>
<td>Armament:</td>
<td>Two 20-mm cannon firing forward; 2 dorsal machine guns.</td>
</tr>
<tr>
<td>Ammunition:</td>
<td>Single, Mitsubishi, 900-horsepower, air-cooled.</td>
</tr>
<tr>
<td>Bomb load:</td>
<td>299 miles per hour, critical altitude.</td>
</tr>
<tr>
<td>Radio:</td>
<td>277 miles per hour, sea level.</td>
</tr>
<tr>
<td>Armor:</td>
<td></td>
</tr>
<tr>
<td>Motors:</td>
<td></td>
</tr>
<tr>
<td>Maximum speed:</td>
<td></td>
</tr>
<tr>
<td>Rate of climb:</td>
<td></td>
</tr>
<tr>
<td>Service ceiling:</td>
<td></td>
</tr>
<tr>
<td>Maximum range:</td>
<td></td>
</tr>
<tr>
<td>Remarks:</td>
<td></td>
</tr>
</tbody>
</table>
IDENTIFICATION OF JAPANESE AIRCRAFT

Medium Bomber
98
(MITSUBISHI 104)
MILITARY INTELLIGENCE

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: 4,400 pounds.

Bomb load: 245 miles per hour.

Radio:

Armor: Two Kawasaki 98.

Motors: 24,500 feet.

Maximum speed: 1,250 miles.

Rate of climb: 75 feet.

Service ceiling: 75 feet.

Maximum range: 75 feet.
Heavy Bomber
KAWASAKI (KWA 95) 97
MITSUBISHI 92 HEAVY BOMBER

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

Pour 800-horsepower Mitsubishi A14.

144 feet.

Resembles Junkers G–38.
IDENTIFICATION OF JAPANESE AIRCRAFT

Heavy Bomber
MITSUBISHI 92
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
MITSUBISHI 98 (MITSU 106) HEAVY BOMBER

Description: Swept-back, square tip, dehedral, 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: 2,200 pounds.

Bomb load: 2,200 pounds.

Radio:

Armor:

Motors: Two 750-horsepower Mitsu.

Maximum speed: 220 miles per hour.

Rate of climb: 23,000 feet.

Service ceiling: 23,000 feet.

Maximum range: 1,180 miles.

Wing span: 75 feet.

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

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, enclosed cockpit, and retractable landing gear.

Crew: Two.

Armament:

Ammunition:

Bomb load:

Radio:

Armor:

Motors:

Maximum speed: 217 miles per hour.

Rate of climb:

Service ceiling:

Maximum range:

Wing span: 72 feet.

Remarks:
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: Twin, Mitsubishi, Minsei, 300-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: 22,600 feet.

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

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

Heavy Bomber

96
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: Armored seats.

Armor: 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.

Motors: 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)
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:
Twin, Fiat, 1,000-horsepower, 18-cylinder, 4-80 RC 41 Star Model, air-cooled motors; total horsepower, 2,000.

Motors:

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”)
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 ceiling: Maximum ceiling, 5,020 meters.
Maximum range: Endurance, 4 hours.
Remarks:
DOUGLAS DC-2 TRANSPORT

**Description:** Swept-back, round tip, low-wing monoplane.

**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: Two.
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:
Armor:
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:
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: Two machine guns.

Armament: Three.

Ammunition: 180 miles per hour.

Bomb load: Rate of climb:

Radio: Service ceiling:

Armor: Maximum range:

Motors: Wing span:

Maximum speed: 96 feet.

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

Transport
JUNKERS JU 52

MCMLXVII
"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:
IDENTIFICATION OF JAPANESE AIRCRAFT

Transport
"LOCKHEED 14"
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: 11 passengers.

Remarks: 74 feet.
IDENTIFICATION OF JAPANESE AIRCRAFT

Transport

MITSUBISHI MC-20
Description: Swept-back, round tip, low-wing monoplane.
Crew: Two. Passengers, eight.
Armament: Twin air-cooled, 900-horsepower motors.
Ammunition: 370 kilometers or 229.9 miles per hour.
Bomb load: Maximum ceiling, 9,000 meters.
Radio: Maximum range: 9,000 meters.
Armor: Motors: Twin air-cooled, 900-horsepower motors.
Maximum speed: 370 kilometers or 229.9 miles per hour.
Rate of climb:
Service ceiling:
Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

Transport
NAKAJIMA A. T.
JAPANESE ARMY

TATIKAWA 95–1 TRAINER

Description:
Crew: One 350-horsepower type 95.
Armament: 143 miles per hour.
Ammunition: Resembles Curtiss.
Bomb load: 33 feet.
Radio: Remarks:
Armor: 106
IDENTIFICATION OF JAPANESE AIRCRAFT

Trainer
TATIKAWA 95-1
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:
MITSUBISHI 96 FIGHTER

Description: Elliptical wing, dihedral, low-wing monoplane. 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: 3,000 feet.

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.
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
MITSUBISHI 96
MITSUBISHI 97 FIGHTER

Description:
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:
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
MITSUBISHI 97
MITSUBISHI 97 FIGHTER, 01 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: One Mitsubishi twin-row, radial.

Bomb load: 

Radio: 

Armor: 

Motors: 

Maximum speed: 

Rate of climb: 

Service ceiling: 

Maximum range: 

Wing span: 37 feet.

Remarks: Ship borne; arresting gear and flotation gear carried.
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
MITSUBISHI 97, 01 MODIFICATION
JAPANESE NAVY

NAKAJIMA 90 FIGHTER
(Obsolescent)

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

118
IDENTIFICATION OF JAPANESE AIRCRAFT

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: One 550-horsepower Kotobuki (Bristol).

Ammunition: 214 miles per hour.

Bomb load: 33 feet.

Radio: Resembles Curtiss Hawk.

Armor:

Motors: One 550-horsepower Kotobuki (Bristol).

Maximum speed: 214 miles per hour.

Rate of climb: 33 feet.

Service ceiling: Resembles Curtiss Hawk.

Maximum range:

Wing span:

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

Fighter
NAKAJIMA 95
**NAKAJIMA 97 FIGHTER**

<table>
<thead>
<tr>
<th>Description:</th>
<th>Crew: One.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armament:</td>
<td>Two Vickers machine guns.</td>
</tr>
<tr>
<td>Ammunition:</td>
<td>550 rounds per machine gun.</td>
</tr>
<tr>
<td>Bomb load:</td>
<td></td>
</tr>
<tr>
<td>Radio:</td>
<td></td>
</tr>
<tr>
<td>Armor:</td>
<td></td>
</tr>
<tr>
<td>Motors:</td>
<td>One 800-horsepower Hikari.</td>
</tr>
<tr>
<td>Maximum speed:</td>
<td>270 miles per hour.</td>
</tr>
<tr>
<td>Rate of climb:</td>
<td></td>
</tr>
<tr>
<td>Service ceiling:</td>
<td>33,000 feet.</td>
</tr>
<tr>
<td>Maximum range:</td>
<td>340 miles.</td>
</tr>
<tr>
<td>Wing span:</td>
<td>36 feet.</td>
</tr>
<tr>
<td>Remarks:</td>
<td>Range can be increased to 950 miles by adding two belly tanks.</td>
</tr>
</tbody>
</table>
NAKAJIMA 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: One 750-horsepower Nakajima.

Bomb load: 220 miles per hour.

Radio: 27,000 feet.

Armor: 325 miles.

Motors: 37 feet.

Maximum speed: One 750-horsepower Nakajima.

Rate of climb: 220 miles per hour.

Service ceiling: 27,000 feet.

Maximum range: 325 miles.

Wing span: 37 feet.

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

**Fighter**

NAKAJIMA 97 (NAKA 93)
### NAKAJIMA 97 (NAKA 97) FIGHTER

**Description:**

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

NaKajima 97 (NaKA 97)
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: One 600-horsepower Hikari.

Bomb load: 210 miles per hour.

Radio: 490 miles.

Armor: 33 feet.

Motors: One 600-horsepower Hikari.

Maximum speed: 210 miles per hour.

Rate of climb: 490 miles.

Service ceiling: 33 feet.
IDENTIFICATION OF JAPANESE AIRCRAFT

Carrier Fighter

95
AICHI 99 DIKE 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: 1,100 pounds.

Bomb load:

Radio:

Armor:

Motors: One 990-horsepower Kaishin or Kinsei 44.

Maximum speed: 236 miles per hour.

Rate of climb: 26,000 feet.

Service ceiling: 450 miles.

Maximum range: 47 feet.

Wing span: 47 feet.

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

Dive Bomber
AICHI 99
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: One 730-horsepower Kinsei.

Bomb load: 180 miles per hour.

Radio: 38 feet.

Motors: 38 feet.

Maximum speed: 180 miles per hour.

Service ceiling: 38 feet.

Maximum range: 38 feet.

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

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.
Dive Bomber
97
(Also called Deck Type Reconnaissance)
AICHI 92 RECONNAISSANCE
(Obsolescent)

Description:

Crew: 1

Armament: None

Ammunition: None

Bomb load: None

Radio: None

Armor: None

Motors: One 500-horsepower Mitsubishi (Hispano S) or one 600-horsepower Nakajima (Lorraine).

Maximum speed: 136 mph

Rate of climb: 1200 feet per minute

Service ceiling: 20,000 feet

Maximum range: 1000 miles

Wing span: 45 feet

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

Reconnaissance

AICHI 92
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: 30,000 feet.

Service ceiling: 410 miles.

Maximum range: 43 feet.

Wing span: 

Remarks:
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
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.
IDENTIFICATION OF JAPANESE AIRCRAFT

Reconnaissance-Bomber
KAWANISHI 94
NAKAJIMA 90-2 RECONNAISSANCE-BOMBER
(Obsolescent)

Description:

Crew: Two.

Armament:

One 450-horsepower Nakajima (Jupiter).

Ammunition:

Bomb load:

168 miles per hour.

Radio:

Resembles Chance-Vought Corsair.

Armor:

Motors:

Wing span:

40 feet.

Maximum speed:

Bomb load:

40 feet.

Rate of climb:

Service ceiling:

Maximum range:

Remarks: Resembles Chance-Vought Corsair.
IDENTIFICATION OF JAPANESE AIRCRAFT

Reconnaissance-Bomber
NAKAJIMA 90-2
RECONNAISSANCE-BOMBER 95

Description: Round tip, straight wing biplane with pick-up fittings. Convertible to landplane. One large center and two small wing floats.

Crew: Two or three.

Armament: Two machine guns.

Ammunition: Two machine guns.

Bomb load: 220 pounds.

Radio: 

Armor: One 600-horsepower Kotobuki.

Motors: One 600-horsepower Kotobuki.

Maximum speed: 160 miles per hour.

Rate of climb: 18,000 feet.

Service ceiling: 18,000 feet.

Maximum range: 500 miles.

Wing span: 36 feet.

Remarks: Resembles Curtiss Hawk.
IDENTIFICATION OF JAPANESE AIRCRAFT

Reconnaissance-Bomber

95
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

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.


Maximum speed: 155 miles per hour.

Rate of climb: 20,000 feet.

Service ceiling: 450 miles.

Remarks: 46 feet.
Torpedo Bomber
KAWANISHI 97 (KWA 94)
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: 1,500-pound torpedoes or 1,100-pound bombs.

Bomb load: One 900-horsepower Kinsei.

Maximum speed: 195 miles per hour.

Rate of climb: 23,000 feet.

Service ceiling: 470 miles.

Maximum range: 50 feet.

Wing span: 152
IDENTIFICATION OF JAPANESE AIRCRAFT

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: One 600-horsepower Kotobuki.

Bomb load: 1,500-pound torpedoes.

Radio:

Armor:

Motors:

Maximum speed: 168 miles per hour.

Rate of climb:

Service-ceiling: 20,000 feet.

Maximum range: 425 miles.

Wing span: 49 feet.

Remarks:
IDENTIFICATION OF JAPANESE AIRCRAFT

Torpedo Bomber
NAKAJIMA 96
JAPANESE NAVY

TORPEDO BOMBER 96

Description: Biplane, nonretractable, streamlined.
Crew: Three seater.
Armament: Five machine guns.
Ammunition: 1,500-pound torpedo or bombs.
Bomb load:
Radio:
Armor:
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:
IDENTIFICATION OF JAPANESE AIRCRAFT

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:
IDENTIFICATION OF JAPANESE AIRCRAFT

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: 2,200 pounds.

Bomb load: Two 840-horsepower Mitsubishi.

Maximum speed: 210 miles per hour.

Rate of climb: 82 feet.

Service ceiling: 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:         Two 1,000-horsepower Mitsubishi.

Motors:        
Maximum speed: 230 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. IV

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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)
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: Two 600-horsepower Hiro.
Bomb load: 130 miles per hour.
Radio:
Armor:
Motors: Two 600-horsepower Hiro.
Maximum speed: 13,000 feet.
Rate of climb: 600 miles.
Service ceiling: 77 feet.
Maximum range: 77 feet.
IDENTIFICATION OF JAPANESE AIRCRAFT

Flying Boat
HIRO 91–1
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: Three 955-horsepower R. R. Buzzard.

Bomb load: 140 miles per hour.

Radio: 13,000 feet.

Armor: 980 miles.

Motors: 102 feet.

Maximum speed: 102 feet.

Rate of climb: Resembles Short K. F. I. "Rangoon."

Service ceiling: 168
IDENTIFICATION OF JAPANESE AIRCRAFT

Flying Boat
KAWANISHI 90-2
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
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: Six.

Bomb load: 1,980 pounds.

Radio: Six.

Armor: Six.

Motors: Three 900-horsepower Mitsubishi.

Maximum speed: 145 miles per hour.

Rate of climb: 13,000 feet.

Service ceiling: 1,400 miles.

Wing span: 97 feet.

Remarks: Six.
IDENTIFICATION OF JAPANESE AIRCRAFT

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:
IDENTIFICATION OF JAPANESE AIRCRAFT

Flying Boat
97
(Copy of Sikorsky 5-42)