

P-40B/C "Tomahawk"

A/C Type: Curtiss Single Engine Day Fighter
 Engine(s): One Allison V-1710-33
 Eng. Pwr: 715 – 1,040 HP, Liquid Cooled
 A/C Crew: Pilot

Max Speed: 352 / 345 MPH at 15,000 Feet

Max Ceiling: B = 32,400 / NA / NA Feet
 C = 29,500 / 27,500 / NA Feet

Defense Factor: 5 Size Modifier: +0
 Damage Factor: 9 / 13 Endurance: 160 / 135
 Cockpit View: Fair Blind Area: Rear

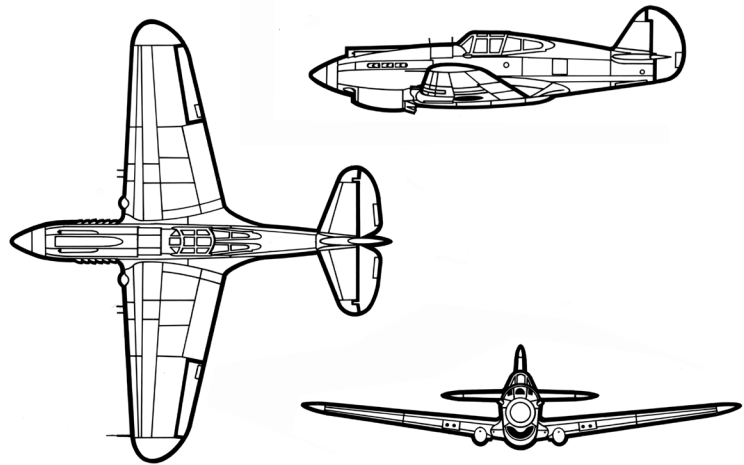
Protection: B = Cockpit +1 Fuel +1 Engine +0
 C = Cockpit +2 Fuel +2 Engine +0

Climb Decel / Dive Accel: 3.0 / 1.5
 Weight and Load Limit: 500 / 2 - NA

Wpn. Stations	Weight	Allowed Loads
1	500	Bomb, Fuel Tank

Country: U.S.A.

Service Entry Date: B = Feb. 1941
 C = Apr. 1941



Class: F

Victory Points: 3 – 7

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT (3)	Min. HT (4)	Min. BT (5)	Min. ET (6)	Altitude Band	Levels	Average Rate of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37 - 42	EH	—	—	—	—	—	—	—	EH	37 - 42	—
31 - 36	VH	(3.0)	(6.0)	(11.0)	(4.0)	(5.5)	(6.5)	(7.5)	VH	31 - 36	(200) / NA
25 - 30	HI	2.5	6.0	11.5	3.5	5.0	6.0	7.0	HI	25 - 30	600 / 500
19 - 24	MH	2.0	6.5	12.0	3.0	4.5	5.5	6.0	MH	19 - 24	1,000 / 900
13 - 18	ML	2.0	6.5 (7.0)	12.0	3.0	4.0	5.0	5.5	ML	13 - 18	2,100 / 2,000
7 - 12	LO	2.0	6.5	11.0	2.5	3.5	4.5	5.0	LO	7 - 12	3,000 / 2,800
1 - 6	VL	1.5	6.0	10.0	2.5	3.5	4.0	4.5	VL	1 - 6	2,900 / 2,700

FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One .50 Caliber M2	16	3
N2	One .50 Caliber M2	16	3
W1-L	Two .30 Caliber Br.	11	4
W2-R	Two .30 Caliber Br.	11	4

GUN ATTACK FACTORS

Range	N1	N2	W1	W2	(Total)
0	8	8	15	15	46
1	6	6	11	11	34
2	4	4	8	8	24
3	3	3	5	5	16
4	2	2	4	4	12
5	1.5	1.5	3	3	9
6	1	1	—	—	2
7	—	—	—	—	—

WEAPON STATIONS



POWER VERSUS SPEED CHART

Levels	Band	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0 +	Band
37 - 42	EH	—	—	—	—	EH
31 - 36	VH	(1.5)	(1.0)	—	—	VH
25 - 30	HI	2.0	1.0	—	—	HI
19 - 24	MH	4.0	2.5	—	—	MH
13 - 18	ML	5.5	3.5	—	—	ML
7 - 12	LO	6.5	4.5	—	—	LO
1 - 6	VL	6.5	4.5	—	—	VL
Banking FPs:		1	2	3	6	
Side Slip FPs:		3	4	6	8	

NOTES & VARIANTS

Curtiss P-40B: First P-40 model to incorporate pilot armor and fuel tank protection (131 built). Use speed, endurance and climb data to left of slashes and data in () where listed. Ring and bead backup sight. Delete station 1. Spin resistant: -10 to all stall / spin related die rolls.

Curtiss P-40C: Improved model with self-sealing tanks (end. = 135), more armor (193 built). Station 1 for one drop tank or bomb of up to 500 lbs. Use speed, endurance and climb data to right of slashes. Damage Factor = 9 / 14. All else as P-40B.

Flying Tigers P-40B: In 1941, one hundred RAF Tomahawks Mk.IIs were diverted to the American Volunteer Group in China. These had P-40B wings and fuel tanks, and P-40C level pilot armor. Simple gunsight. Ring and bead backup sight Cockpit prot. = +2, Fuel prot. = +1. All else as P-40B.

Note: RAF export versions of the P-40B / P-40C series, with British guns and equipment, were known as Tomahawk Mk.IIA and Mk.IIB (see separate ADCs).

Nakajima Ki.43-I "Oscar"

A/C Type: Type 1 Single Engine Day Fighter
 Engine(s): One Nakajima Ha 25 (No F.I.)
 Eng. Pwr: 955 - 975 HP, Radial Air Cooled
 A/C Crew: Pilot

Max Speed: 304 MPH at 13,100 Feet
 Max Ceiling: 38,500 / 36,500 / 35,200 Feet

Defense Factor: 5 Size Modifier: +0
 Damage Factor: 6 / 9 Endurance: 185
 Cockpit View: Good Blind Area: Rear Low

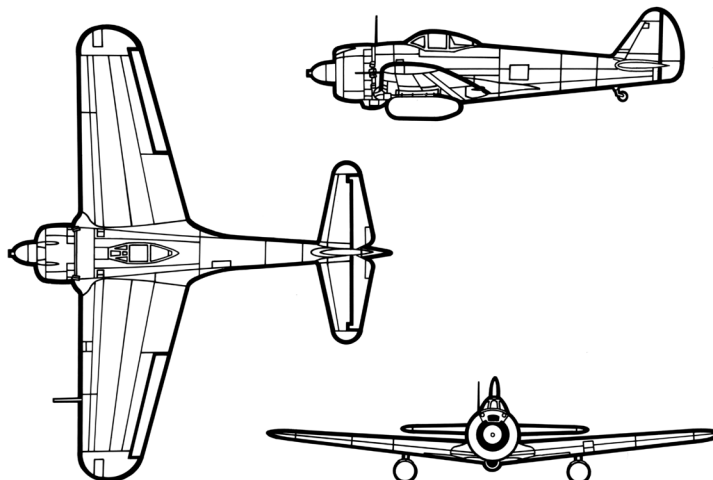
Protection: Cockpit +0 Fuel +0 Engine +0

Climb Decel / Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 800 / 2 - 5

Wpn. Stations	Weight	Allowed Loads
1, 2	400	Bombs, Fuel Tanks

Country: Japan

Service Entry Date: August 1941



Class: F

Victory Points: 3 - 6

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT (1)	Min. HT (2)	Min. BT (2)	Min. ET (3)	Altitude Band	Levels	Average Rate of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37 - 42	EH	2.5	4.5	9.5	3.5	5.0	6.0	7.0	EH	37 - 42	300
31 - 36	VH	2.0	5.0	10.0	3.0	4.5	5.5	6.0	VH	31 - 36	600
25 - 30	HI	2.0	5.5	10.0	3.0	4.0	4.5	5.5	HI	25 - 30	1,400
19 - 24	MH	2.0	5.5	10.5	2.5	3.5	4.5	5.0	MH	19 - 24	2,400
13 - 18	ML	1.5	6.0	9.5	2.5	3.0	4.0	4.5	ML	13 - 18	3,200
7 - 12	LO	1.5	6.0	8.5	2.0	3.0	3.5	4.0	LO	7 - 12	3,400
1 - 6	VL	1.5	5.5	8.0	2.0	2.5	3.0	3.5	VL	1 - 6	3,500

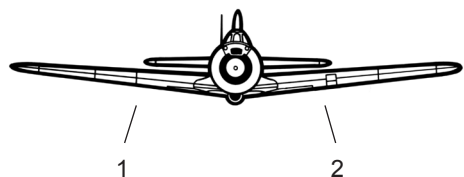
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	<u>One 12.7mm Ho-103</u>	15	3
N2	<u>One 7.7mm Type 89</u>	18	4
or			
(N1)	<u>One 7.7mm Type 89</u>	18	4

GUN ATTACK FACTORS

Range	N1	N2	—	(N1)	(Total)
0	7	5	—	5	12 / 10
1	5	3	—	3	8 / 6
2	3	2	—	2	5 / 4
3	2	1.5	—	1.5	3.5 / 3
4	2	1	—	1	3 / 2
5	1	1	—	1	2 / 2
6	1	—	—	—	1 / —
7	—	—	—	—	— / —

WEAPON STATIONS



POWER VERSUS SPEED CHART

Levels	Band	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0 +	Band
43+	UH	—	—	—	—	UH
37 - 42	EH	1 / —	—	—	—	EH
31 - 36	VH	1 / 2	1 / —	—	—	VH
25 - 30	HI	2 / 3	1 / 2	—	—	HI
19 - 24	MH	4 / 5	2 / 3	—	—	MH
13 - 18	ML	6 / 7	3 / 4	—	—	ML
7 - 12	LO	7 / 8	4 / 5	—	—	LO
1 - 6	VL	7 / 8	4 / 5	—	—	VL
Banking FPs:		2	3	5	7	
Side Slip FPs:		2	3	5	7	

NOTES & VARIANTS

Ki.43-I: First modern JAAF fighter to enter service (700+ built). Two-pitch prop. Allied code name was "Oscar". Japanese called it "Hayabusa" (*Peregrine Falcon*). Stations 1 and 2 each for one bomb of up to 400 lbs., two 66 lb. bombs or one 200 liter drop tank. Weak wings (+15 to overstress rolls). Telescope gunsight. Instant "butterfly" combat flaps. Pilot may set and use or retract combat flaps at start of each turn without delay (*no "in transit" decel*).

• 200 Liter Drop Tank (weight = 350, load = 2.5 / 2.0, endurance +80)

Armament: As the 12.7mm Ho-103 gun's rate-of-fire was poor, malfunctions and ammo shortages common, initially, some Ki.43s were converted in the field to two 7.7mm guns. If not specified in scenario, roll D10 per A/C. A result ≤ 3 = A/C converted. If so, use appropriate gun data and firepower totals after the slashes.

Notes: Most front line Ki.27 regiments converted to Ki.43s by late 1942.