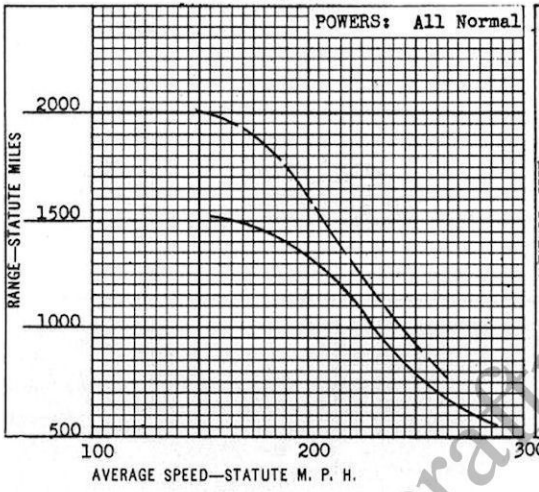
TONY 1

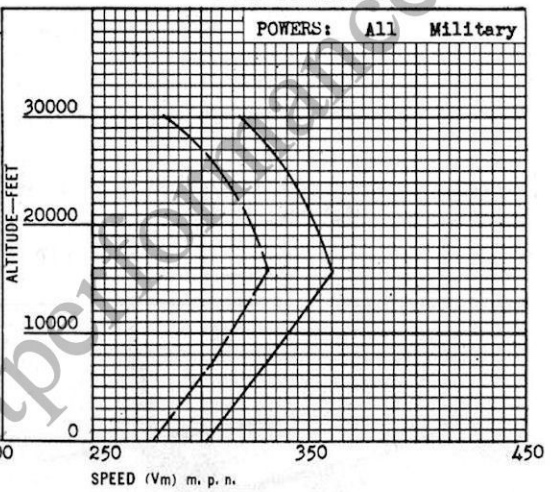
RANGE • SPEED • CLIMB

KEY	CONDITION	WEIGHT (lb.)	FUEL LOAD (lb.)	BOMBS—CARGO (lb.)
———	NORMAL FIGHTER	6982	1194	None
— — — —	OVERLOAD FIGHTER	7682	1794	None

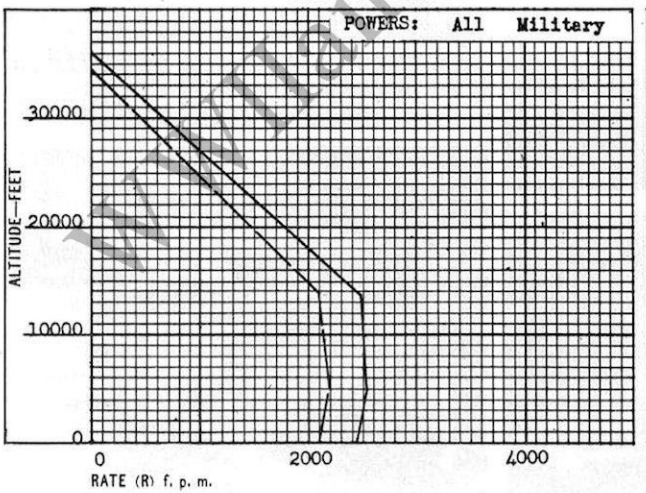
RANGE VS. SPEED



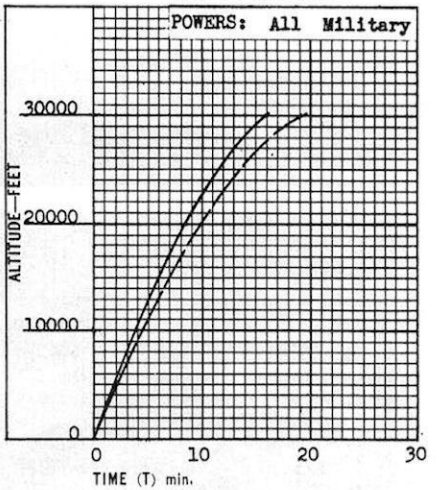
SPEED VS. ALTITUDE



RATE OF CLIMB



TIME TO ALTITUDE



Archives of M. Williams

PERFORMANCE AND CHARACTERISTICS

TONY 1

TAKE-OFF

	Load	Feet
T. O. calm	Gross	744
T. O. 25 kt. wind	Gross	338
T. O. over 50' obstacle		
Landing over 50' obstacle		

CLIMB—CEILING

@ 6982 lbs.	Feet	Min.
Rate @ S. L.	2440	1
Rate @ 13,800 ft.	2470	1
Time to 10,000'		4.0
Time to 20,000'		8.45
Service ceiling 35,100'		

AIRCRAFT

Duty Fighter

Designation Type 3, Ki 61

Description Low-wing Monoplane

Mfg. Kawasaki

Engines 1 Crew 1

Construction All metal

SPEED

@ 6982 lbs.	Mph.	Knts.	Altitude
Maximum	302	262	@ S. L.
Maximum	361	314	@ 15,800'
Cruising 75%	215	187	1,500'
Economical			

BOMBS—CARGO

	No.	Size	Total Lbs.
Normal	None		
Maximum	2	100 kg	440

ENGINES

	H. P.	Altitude
Take-off	1160	S.L.
Normal	935 940	5,200' 13,200'
Military	1030 1085	S.L. 13,800'
War Emerg.	1100	12,600'

Mfg. Kawasaki

Model Type 2, 1100 HP

Type Inverted 60° V

Cylinders 12 Cooling Liquid

Supercharger 2 Speed hydraulic

Propeller 3 Blade Diam. 10.3'

Fuel - Take-off 92 C.S. Cruising 92

WEIGHTS

	Lbs.
Empty	5010
Gross	6982
Overload	7682

FUEL

	U.S. gal.	Imp. gal.
Built-in	199	165
Internal (Removable)		
External (drop)	100	83
Maximum	299	248

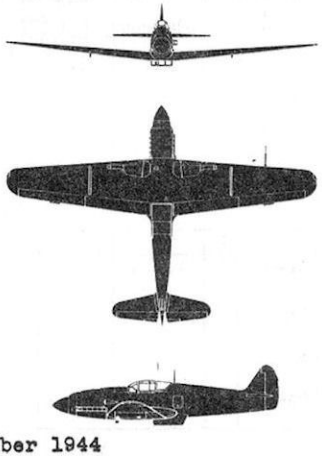
RANGE AND RADIUS

	Miles		Speed		Alt. feet	Fuel gal.		Bombs lbs.	Cargo lbs.
	stat.	naut.	mph.	Knts.		U. S.	Imp.		
Maximum range (maximum fuel)	2010	1745	148	128	1500	299	248	None	None
@ 75% VM	1625	1411	198	171	1500	299	248	None	None
Maximum range (normal fuel)	1520	1320	156	135	1500	199	165	None	None
@ 75% VM	1195	1040	215	187	1500	199	165	None	None
Radius ( )									
Radius ( )									

DIMENSIONS

Span 39.3' Length 28.9'

Height Wing area 215 sq.ft.



GENERAL DATA

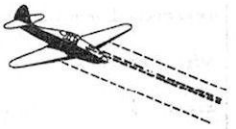
TONY is equipped with leak proof internal tanks and armor is fitted behind and under the pilot. Because of better fuel and pilot protection this aircraft represents a distinct improvement in Jap fighters.

External wing racks may carry two 50 gallon fuel tanks or two 220 lb. bombs.

WWIIaircraftperformance.org

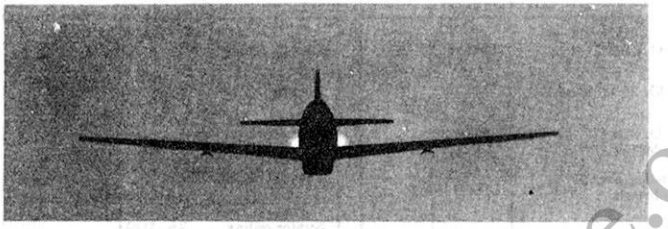
TONY 1

FIELDS OF FIRE



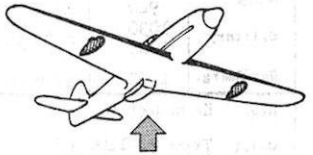
FORWARD GUNS
"A", AND "B"
¾-front view from above

EXHAUST FLAME PATTERNS

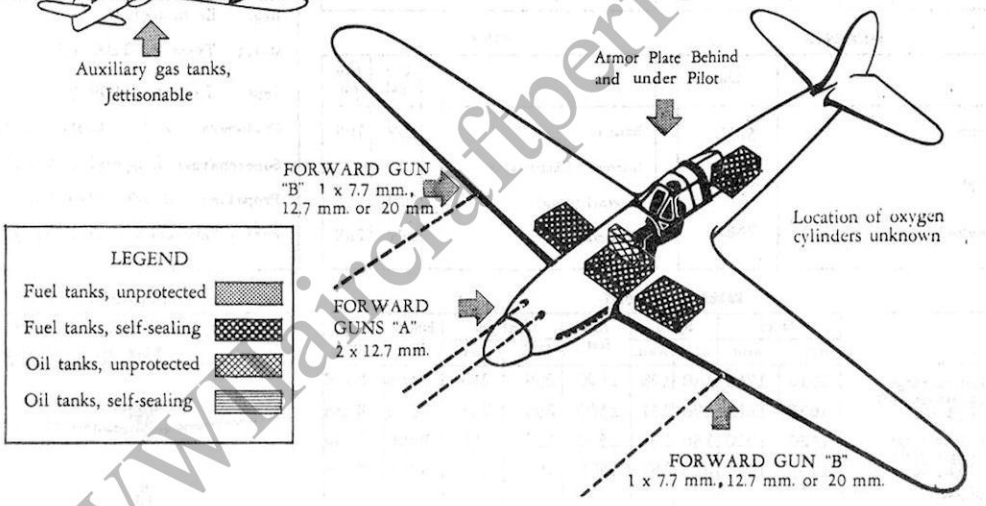


REAR VIEW

VULNERABILITY



Auxiliary gas tanks,
Jettisonable



ARMAMENT

	No.	Size	Rds. Gun	Type		No.	Size	Rds. Gun	Type
Forward	2	12.7 mm		Fixed	Tail				
Top					Wing	2	12.7 mm		Fixed
Side					or	2	20 mm		Fixed
Bottom									

TACTICAL DATA

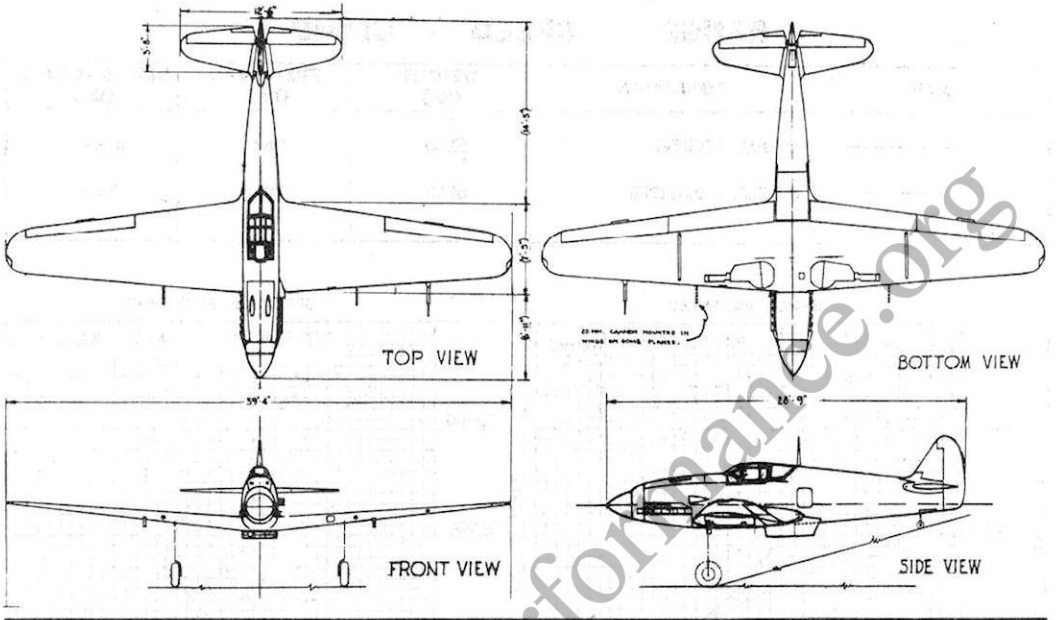
Armor plate is used to protect the radiator.

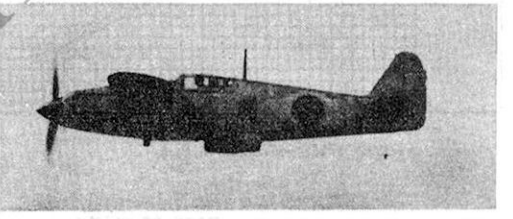
DATE December 1944

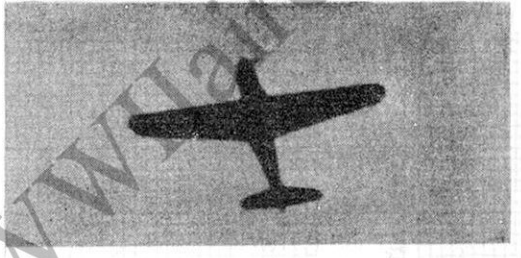
RESTRICTED

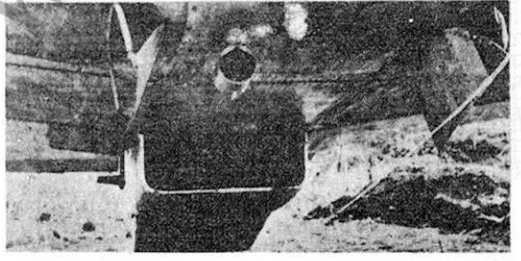
www.aircraftperformance.org

TONY 1









www.warbirdperformance.org