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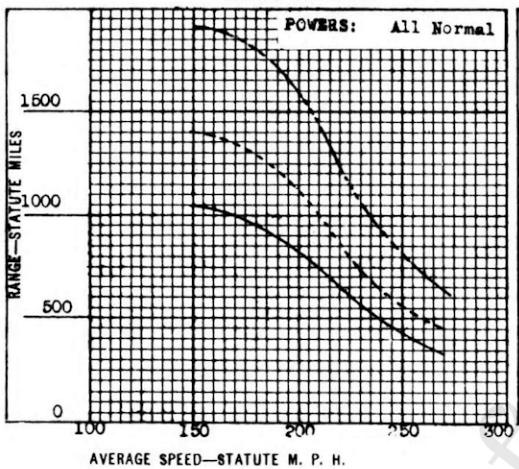
NICK 1

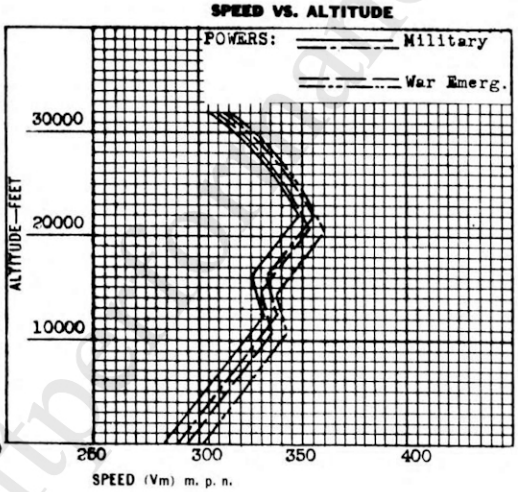
RANGE * SPEED * CLIMB

KEY	CONDITION	WEIGHT (lb.)	FUEL LOAD (lb.)	BOMBS—CARGO (lb.)
———	NIGHT FIGHTER (Normal)	11,685	1567	
—— —— ——	NIGHT FIGHTER (Normal)	11,685	1567	
– – – – – –	NIGHT FIGHTER (Overload)	12,349	2171	
—— · —— · ——	DAY FIGHTER (Normal)	11,911	2258	
—— ·· —— ·· ——	DAY FIGHTER (Normal)	11,911	2258	
—— ··· —— ··· ——	DAY FIGHTER (Overload)	12,875	3862	

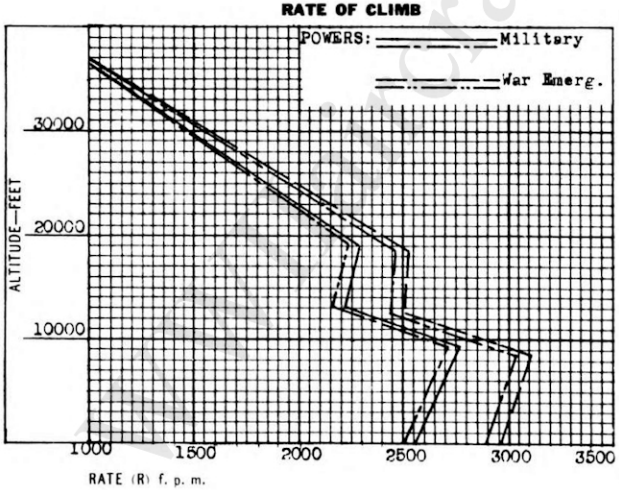
RANGE VS. SPEED



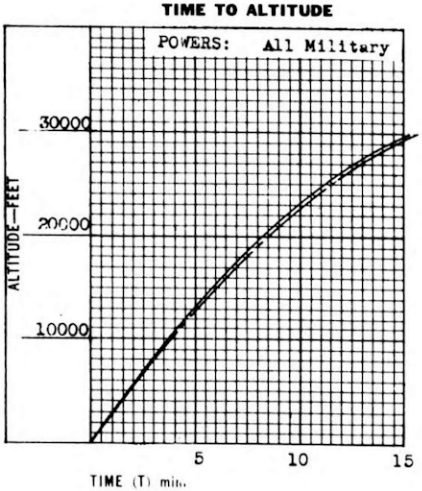
SPEED VS. ALTITUDE



RATE OF CLIMB



TIME TO ALTITUDE



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PERFORMANCE AND CHARACTERISTICS

NICK 1

TAKE-OFF

	Load	Feet
Runway Requirements	11,685	1160
T.O. over 50' obstacle		
Landing over 50' obstacle		

CLIMB—CEILING

@ 11,911 lbs.	Feet	Min.
Rate @ S.L.	2892	1
Rate @ 18,500 ft.	2471	1
Time to 9,200'		3.53
Time to 19,000'		7.81
Service ceiling 35,800'		

AIRCRAFT

Duty Fighter, Night Fighter

Designation Type 2 (Ki 45)

Description Low mid-wing Monoplane

Mfg. Kawasaki

Engines 2 Crew 2

Construction All metal semi-monocoque fuselage; cantilever wing.

SPEED

@ 11,911lbs.	Mph.	Knts.	Altitude
Maximum	302	262	@ S. L.
Maximum @ 11,685 lbs.	353	307	@ 18,500'
Suicide Condition-			
Max.Level	330	287	@ 20,600'
Max.Diving	430	374	

BOMBS—CARGO

	No. Size	Total Lbs.
Normal	2 x 50 kg	220
Maximum (Suicide)	2 x 250 kg	1100

ENGINES

	H. P.	Altitude
Take-off	1065	S.L.
Normal	785	1500'
Military	1040 935	9200' 19000'
War Emerg.	1135 1020	8500' 18500'

Mfg. Mitsubishi

Model Type 1 1050

Type Radial

Cylinders 14 Cooling Air

Supercharger 2 Speed

Propeller 3 Bl. CS Diam. 9.68'

Fuel - Take-off 92 Cruising 92

WEIGHTS

		Lbs.
Empty		8335
Gross-	Night Fighter	11,685
	Day Fighter	11,911
Over- load	Night Fighter	12,349
	Day Fighter	12,575
	Suicide	12,870

FUEL

	U.S. gal.	Imp. gal.
Built-in	275	229
Internal (Removable)	121	101
External (drop)	106	88
Maximum	502	418

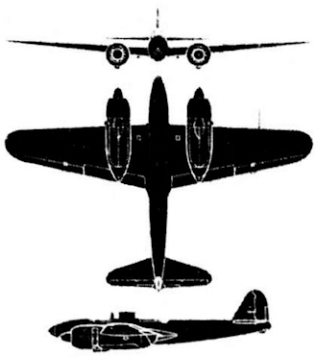
RANGE AND RADIUS

	Miles		Speed		Alt.	Fuel gal.		Bombs	Cargo
	stat.	naut.	mph.	Knts.	feet	U. S.	Imp.	lbs.	lbs.
Max. Range	1909	1658	151	131	1500	502	418	None	None
R @ Combat Cr.	618	537	273	237	1500	502	418	None	None
Max. Range	1042	904	149	130	1500	275	229	None	None
R @ Combat Cr.	335	291	270	235	1500	275	229	None	None
Suicide Cond.-									
Max. Range	1390	1210	140	122	1500	396	330	1100	None
R @ Combat Cr.	475	413	251	218	1500	396	330	1100	None

DIMENSIONS

Span 49.5' Length 34.7'

Height 12.0' Wing area 365 sq.ft.



GENERAL DATA

NICK is a maneuverable twin engine aircraft that may be used as a day fighter, night fighter, ground attack plane.

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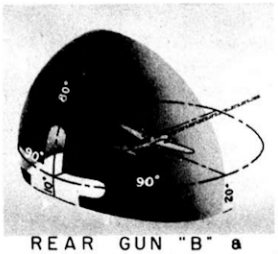
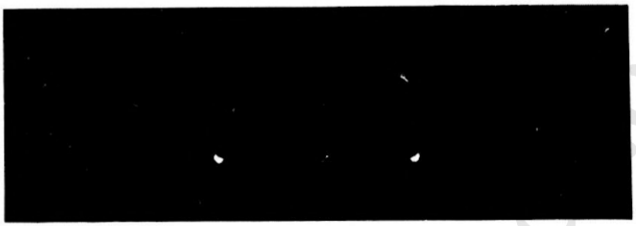
NICK 1

FIELDS OF FIRE



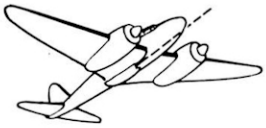
REAR GUN "B" a
FORWARD GUNS "A" a "C"
3/4-rear view from above

EXHAUST FLAME PATTERNS

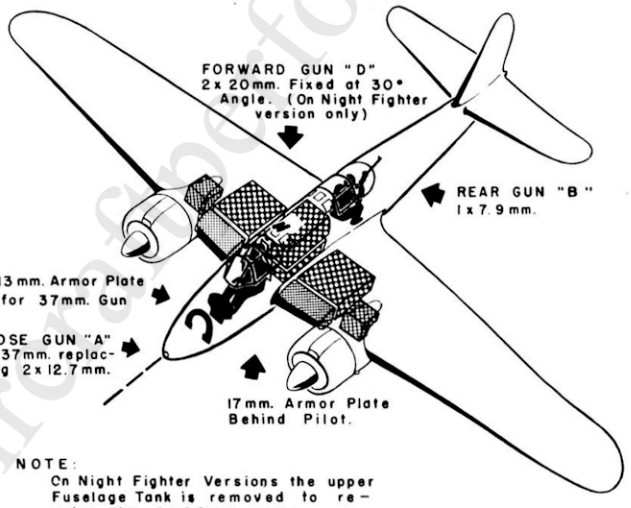


REAR VIEW

VULNERABILITY



TUNNEL GUN "C"
1 x 20 mm.
Provision made for but gun not always installed.



LEGEND

Fuel tanks, unprotected	
Fuel tanks, protected	
Oil tanks, unprotected	
protected	

NOTE:
On Night Fighter Versions the upper Fuselage Tank is removed to receive the 2 x 20 mm. guns.

ARMAMENT

	No.	Size	Rds. Gun	Type
Nose	2	12.7mm	?	Type 1 Fixed, Browning type.
or	1	37mm	16	HO 203 Fixed cannon.
Tunnel	1	20mm	100	HO 3 Fixed, Gas-operated.
Dorsal	2	20mm	?	HO 5 Fixed, Browning type, (Inclined)
Rear Cockpit	1	7.92mm	1050	Type 98 Flexible, German MG 15 type.

TACTICAL DATA

Inclined HO 5 guns are installed on the night fighter version.

Armor plate is installed behind and ahead of the HO 203 magazine and behind the pilot. Pilots head armor is two spaced plates.

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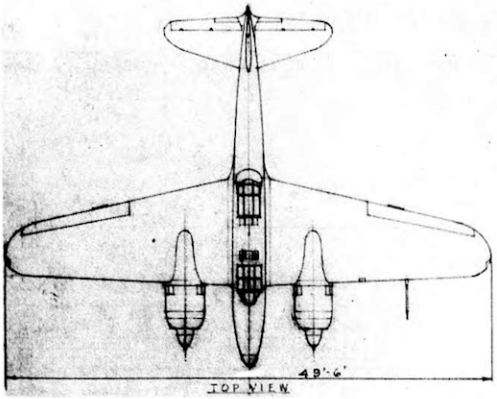
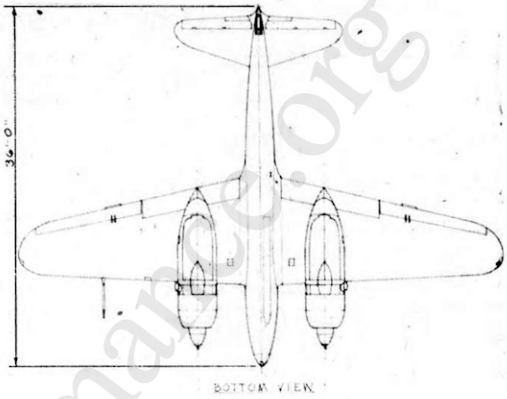
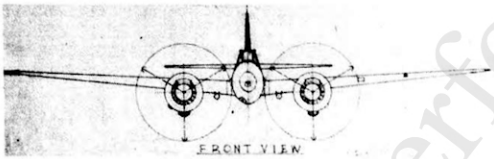
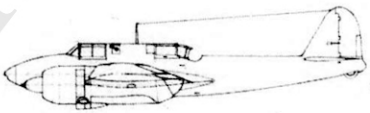
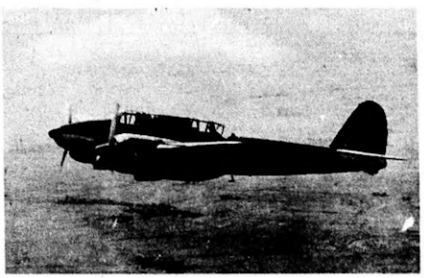
NICK 1

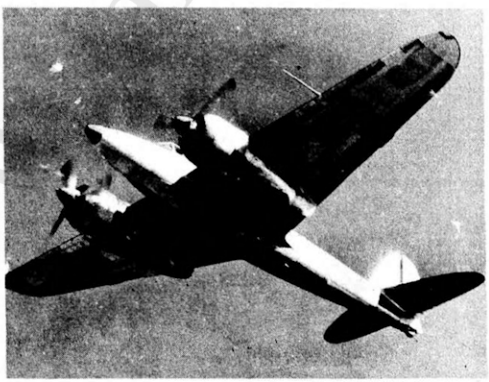












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