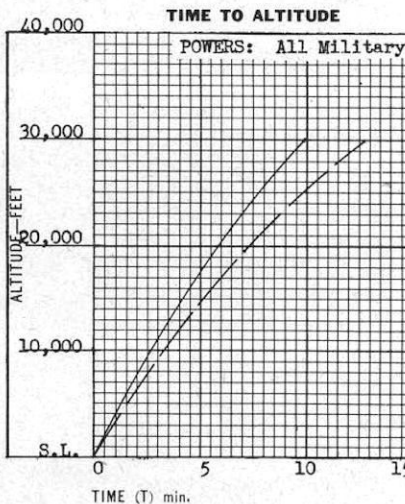
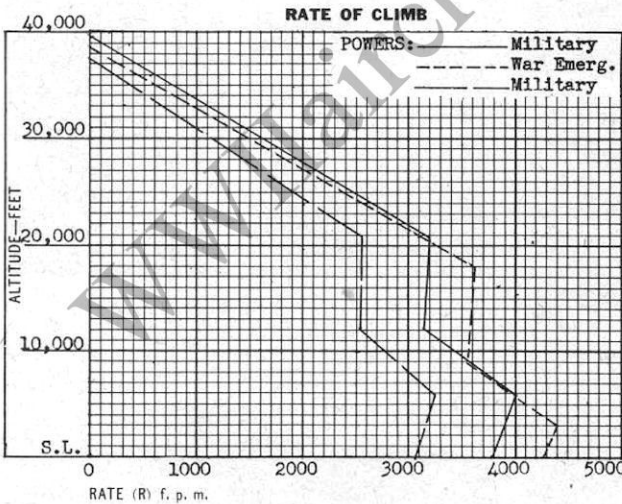
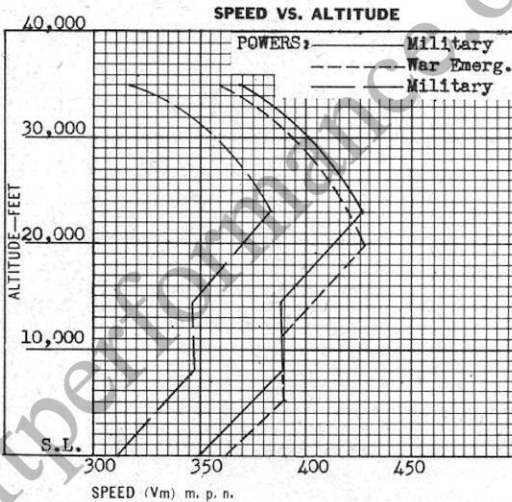
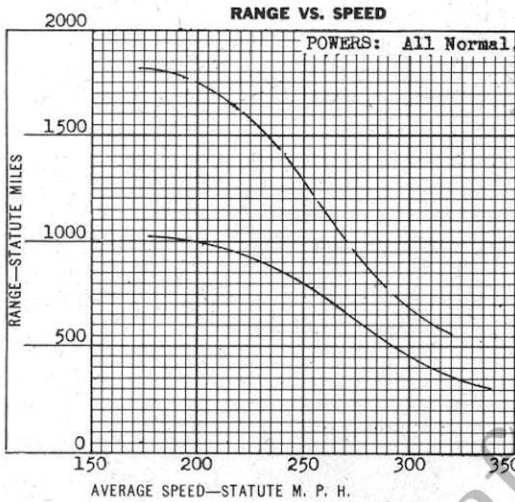


FRANK 1

RANGE * SPEED * CLIMB

KEY	CONDITION	WEIGHT (lb.)	FUEL LOAD (lb.)	BOMBS—CARGO (lb.)
—————	NORMAL FIGHTER	7940	1110	None
- - - - -	NORMAL FIGHTER	7940	1110	None
—————	OVERLOAD FIGHTER	9194	2088	None



DATE March 1945

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PERFORMANCE AND CHARACTERISTICS**FRANK 1****TAKE-OFF**

	Load	Feet
Runway Requirements	7940	1460
T. O. over 50' obstacle		
Landing over 50' obstacle		
* T. O. - 100%		

CLIMB-CEILING

@ 7940	lbs.	Feet	Min.
Rate @ S. L.		3790	1
War Emerg.		4275	1
Rate @ 20900 ft.		3195	1
WE @ 17900'		3615	1
Time to 10000'			2.6
Time to 20000'			5.8
Time to 30000'			10.6
Service ceiling 38,800'			

AIRCRAFT

Duty Fighter	
Designation	Ki 84
Description	Low-wing Monoplane
Mfg.	Nakajima
Engines	1 Crew 1
Construction	All Metal

SPEED

@ 7940	lbs.	Mph.	Knts.	Altitude
Maximum		350		@ S. L.
W. E. P.		363		@ S. L.
Maximum		426		@ 23,000'
W. E. P.		427		@ 20,000'
Cruising 75%		254		@ 1,500'
Economical				

BOMBS-CARGO

	No.	Size	Total Lbs.
Normal		None	
Maximum	2	30 kg	132

ENGINES

	H. P.	Altitude
Take-off	1970	S. L.
	2040	3,000'
Normal	1850	17,900'
	(1765)	(S. L.)
Military	1875	(5,900'
	(1695)	(20,000'
War Emerg.	1850	17,900'

WEIGHTS

	Lbs.
Empty	
Gross	7940
Overload	9194

FUEL

	U. S. gal.	Imp. gal.
Built-in	185	154
Internal (Removable)		
External (trop)	174	144
Maximum	359	298

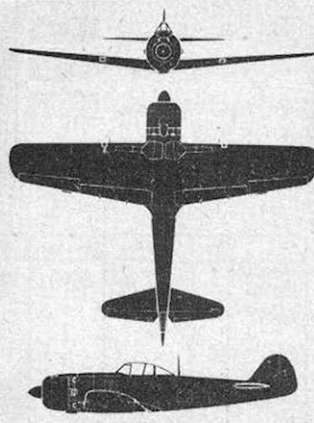
Mfg.	Nakajima
Model	Ha 45 Model 21
Type	Radial
Cylinders	18 Cooling Air
Supercharger	2 Speed
Propeller	4-Blade Diam. 10.16'
	C.S. Electric
Fuel-Take-off	92 Cruising 92
	(Plus methanol)

RANGE AND RADIUS

	Miles		Speed		Alt. feet	Fuel gal.		Bombs lbs.	Cargo lbs.
	stat.	naut.	mph.	Knts.		U. S.	Imp.		
Maximum range (maximum fuel)	1815	1575	173	150	1500	359	298	None	None
	1410	1225	241	209	1500	359	298	None	None
Maximum range (normal fuel)	1025	890	178	155	1500	185	154	None	None
Radius ()	780	677	254	221	1500	185	154	None	None
Radius ()									

DIMENSIONS

Span	37.1'	Length	32.32'
Height	11.17'	Wing area	226 sq. ft.

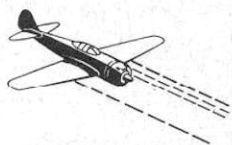
**GENERAL DATA**

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DATE March 1945

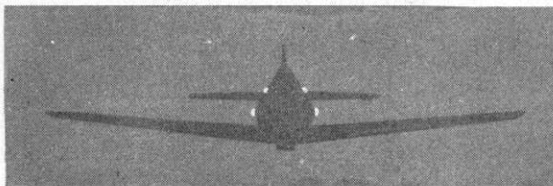
FRANK 1

FIELDS OF FIRE



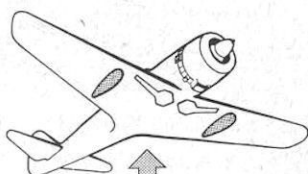
FORWARD GUNS "A", AND "B"
3/4-front view from above

EXHAUST FLAME PATTERNS

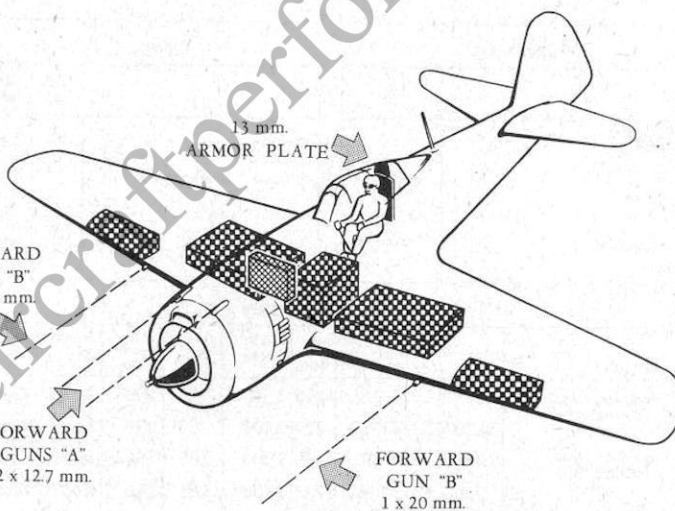


REAR VIEW

VULNERABILITY



Auxiliary gas tank
Jettisonable



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

ARMAMENT

	No.	Size	Rds. Gun	Type		No.	Size	Rds. Gun	Type
Forward Cowl	2	12.7 mm	350	Fixed	Tail				
Top					Wing	2	20 mm	150	Fixed
Side									
Bottom									

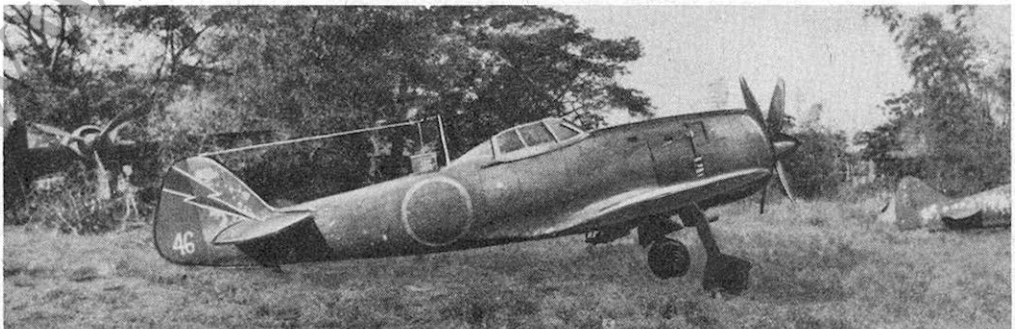
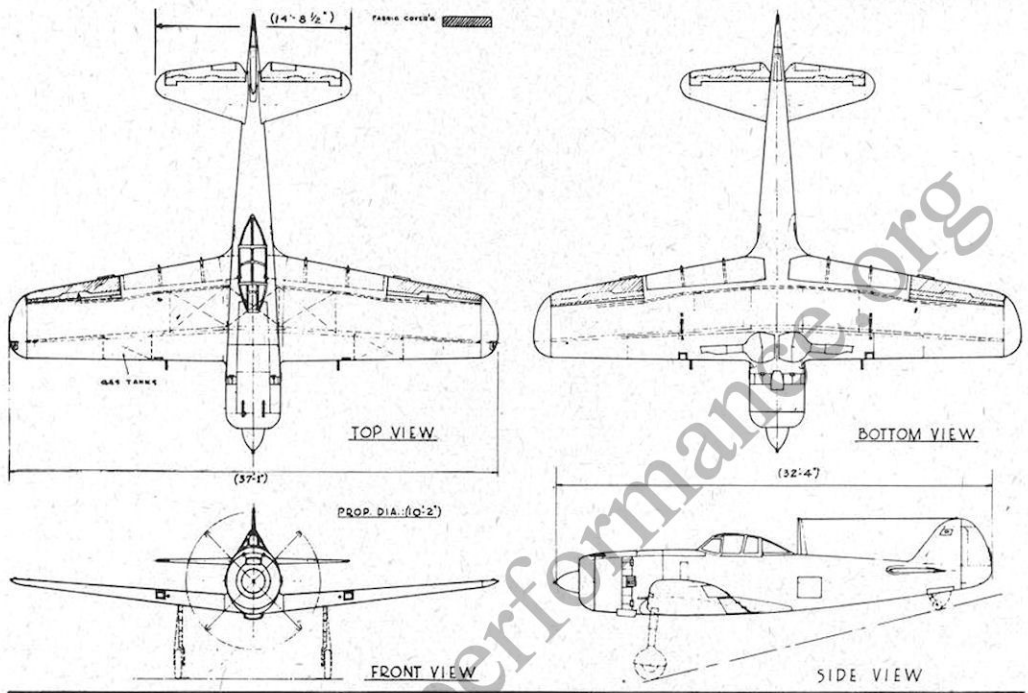
TACTICAL DATA

Documents state that FRANK has a bullet-proof windshield 65 mm thick. Armor plate is provided for pilot's back and head.

DATE March 1945

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FRANK 1



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DATE March 1945