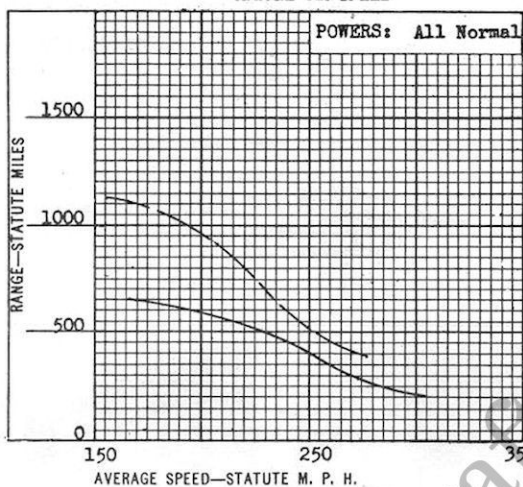
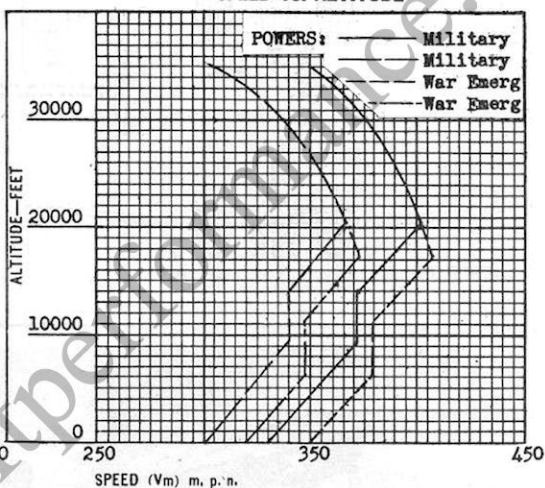
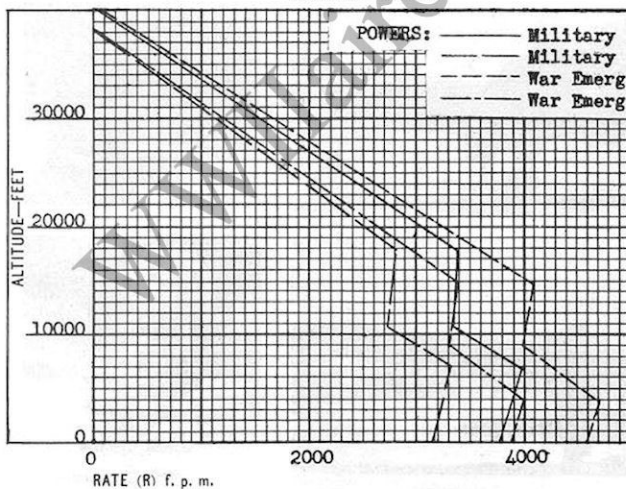
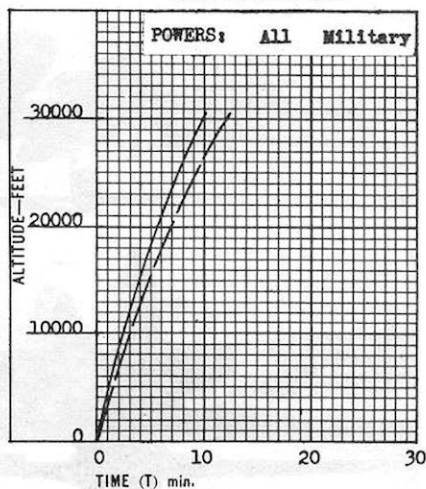


**JACK 11****RANGE \* SPEED \* CLIMB**

KEY	CONDITION	WEIGHT (lb.)	FUEL LOAD (lb.)	BOMBS—CARGO (lb.)
————	NORMAL FIGHTER	7080	666	None
-----	NORMAL FIGHTER	7080	666	None
=====	OVERLOAD FIGHTER	8045	1347	None
=====	OVERLOAD FIGHTER	8045	1347	None

**RANGE VS. SPEED****SPEED VS. ALTITUDE****RATE OF CLIMB****TIME TO ALTITUDE**

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## PERFORMANCE AND CHARACTERISTICS

## JACK 11

## TAKE-OFF

	Load	Feet
T. O. calm	7080	585
T. O. 25 kt. wind	7080	261
T. O. over 50' obstacle		
Landing over 50' obstacle		

## CLIMB—CEILING

@ 7080	lbs.	Feet	Min.
Rate @ S. L.		4600	1
Rate @ 14,800 ft.		4080	1
Time to 10,000'			2.6
Time to 20,000'			5.6
Service ceiling 37,500'			

## AIRCRAFT

Duty Fighter
Designation (RAIDEN) Model 11
Description Low-wing Monoplane
Mfg. Mitsubishi
Engines 1 Crew 1
Construction All metal

## SPEED

@ 7080	lbs.	Mph.	Knts.	Altitude
Maximum	350	304	@ S. L.	
Maximum	407	355	@ 17,400'	
Cruising 75%	228	197	1,500'	
Economical				

## BOMBS—CARGO

	No.	Size	Total Lbs.
Normal		None	
Maximum	2 x	35 kg.	154

## ENGINES

	H. P.	Altitude
Take-off	1870	S.L.
Normal	1370	9,850'
Military	1580	S.L.
	1560	17,900'
War Emerg.	1940	4,400'
Mfg. Mitsubishi		
Model KASEI 23		
Type Radial		
Cylinders 14	Cooling Air	
Supercharger	2 Speed	
Propeller 4 blade C.S.U.	diam. 10.8'	
Fuel—Take-off	92	Cruising 92 plus methanol

## WEIGHTS

	Lbs.
Empty	5178
Gross	7080
Overload	8045

## FUEL

	U.S. gal.	Imp. gal.
Built-in	109	90
Internal (Removable)	48	40
External (drop)	66	55
Maximum	223	185

## RANGE AND RADII

	Miles		Speed		Alt. feet	Fuel gal.		Bombs lbs.	Cargo lbs.
	stat.	naut.	mph.	Knts.		U. S.	Imp.		
Maximum range (maximum fuel)	1127	968	156	135	1500	223	185	154	None
At 75% Vmax.	912	795	208	180	1500	223	185	154	None
Maximum range (normal fuel)	650	564	165	143	1500	109	90	None	None
At 75% Vmax.	508	440	228	197	1500	109	90	None	None
Radius ( )									
Radius ( )									

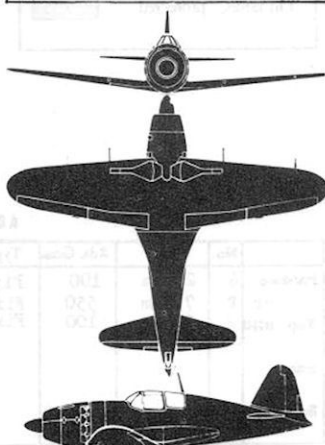
## DIMENSIONS

Span 35.4'	Length 31.8'
Height 12.9'	Wing area 216 sq. ft.

## GENERAL DATA

JACK is cleanly designed. The fact that it has a short range and high rate of climb indicates that it will be used as an interceptor fighter. It can carry a small bomb under each wing which will probably be employed for air to air attack against bomber formations.

Wing fuel tanks are not used under Gross Load. A jettisonable belly tank and 2 x 35 kg external bombs are allowed for under "Maximum Range".



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# JACK 11

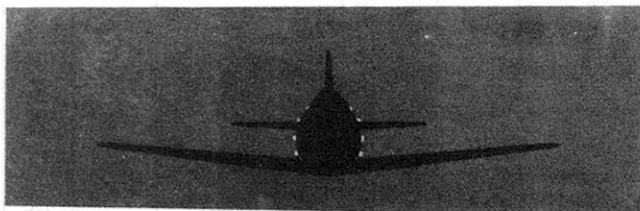
## FIELDS OF FIRE



FORWARD GUNS  
"A", AND "B"

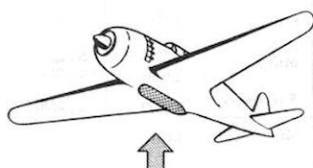
3/4-front view from above

## EXHAUST FLAME PATTERNS



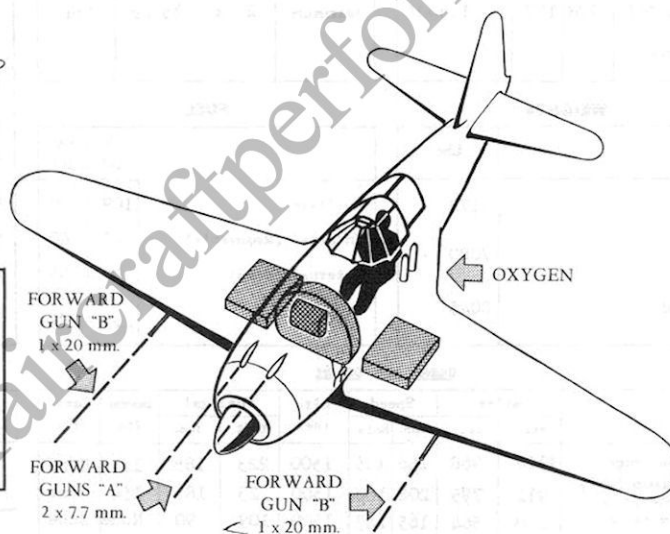
REAR VIEW

## VULNERABILITY



Auxiliary gas tank  
Jettisonable

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



## ARMAMENT

## TACTICAL DATA

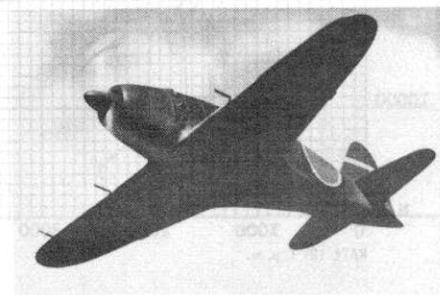
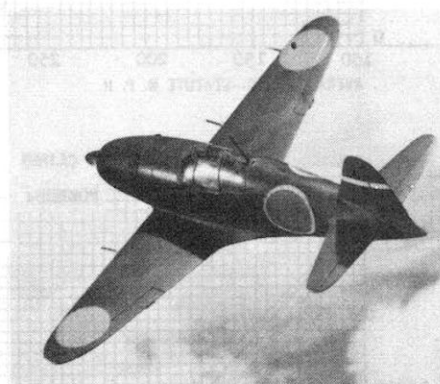
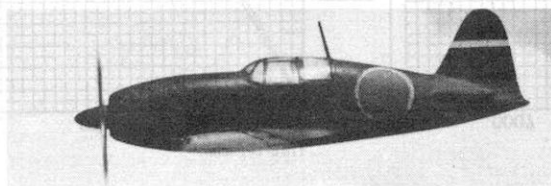
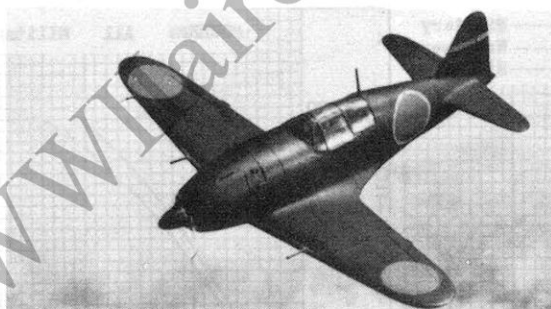
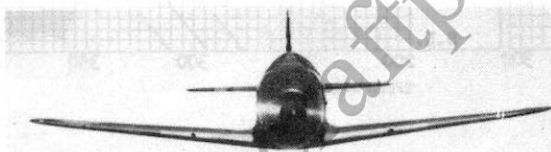
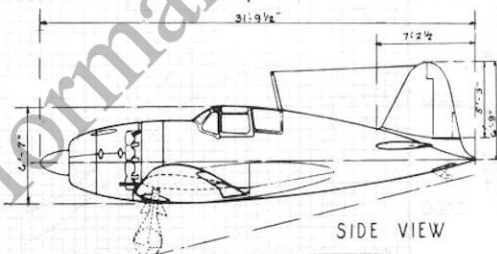
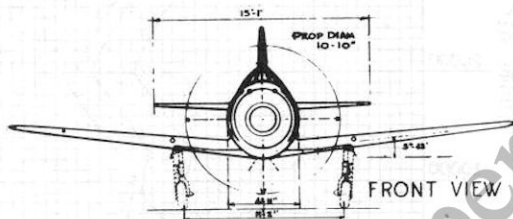
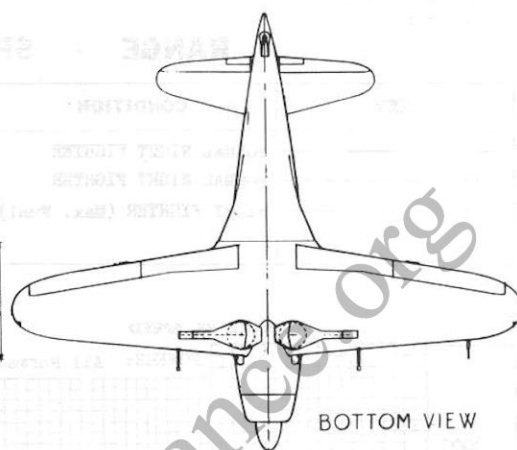
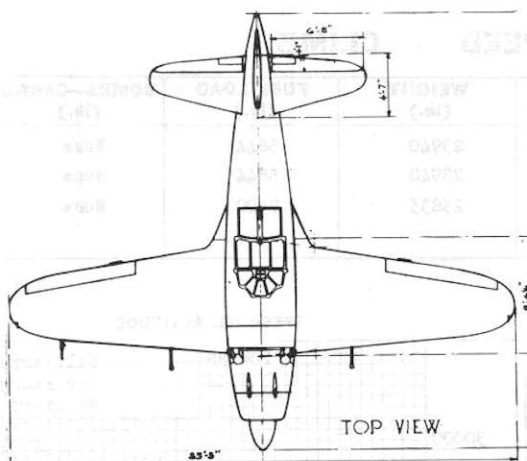
	No.	Size	Rds. Gun.	Type		No.	Size	Rds. Gun.	Type
Forward	4	20 mm	100	Fixed	Tail				
or	2	7.7mm	550	Fixed					
Top and	2	20 mm	100	Fixed	Wing				
Side									
Bottom									

JACK is more powerful and heavily armed than previous Japanese fighters. Probably less maneuverable than ZEKE but superior in diving and climbing at high speeds.

No armor or fuel protection have been indicated.

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**JACK 11****RESTRICTED****DATE** December 1944