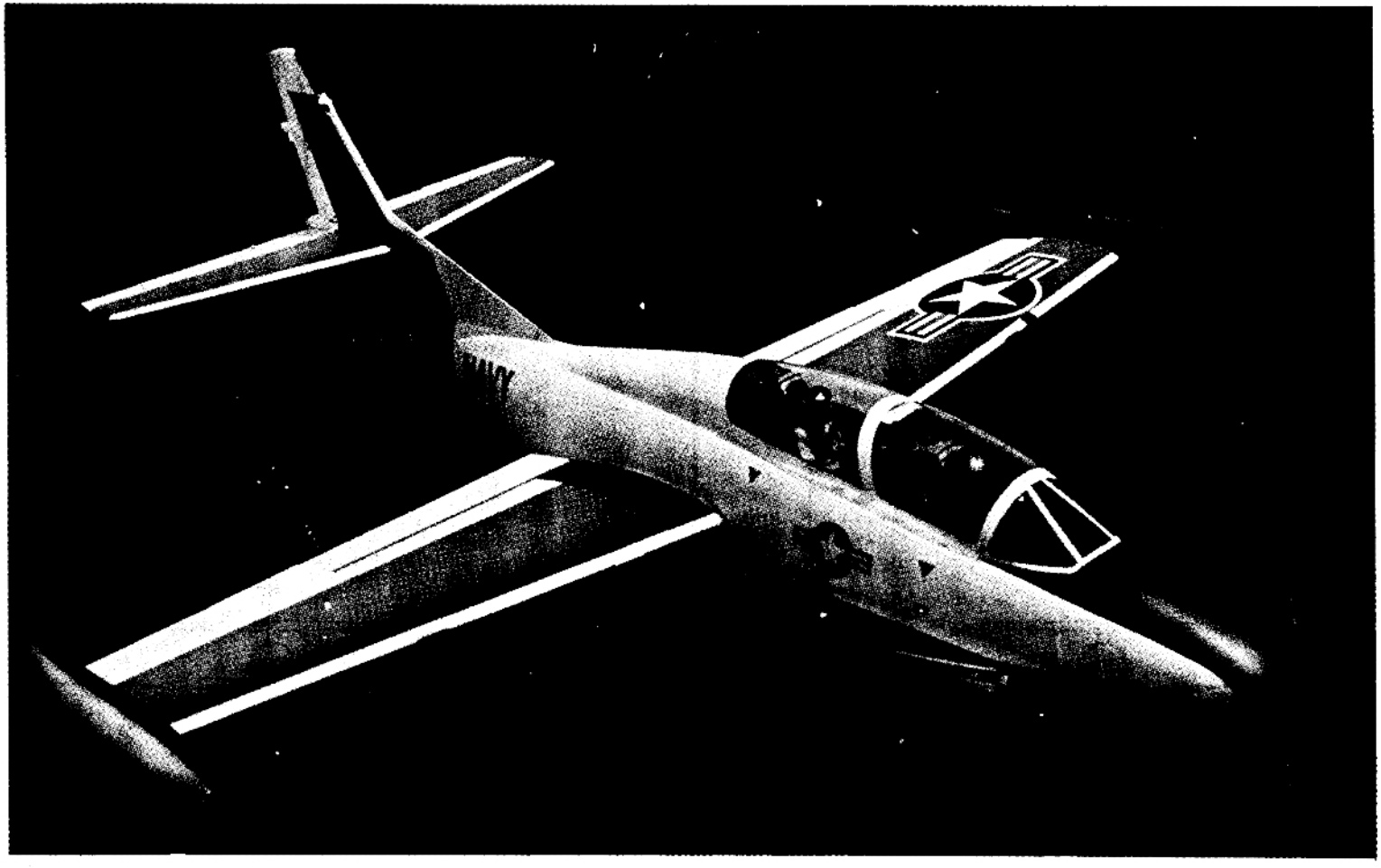
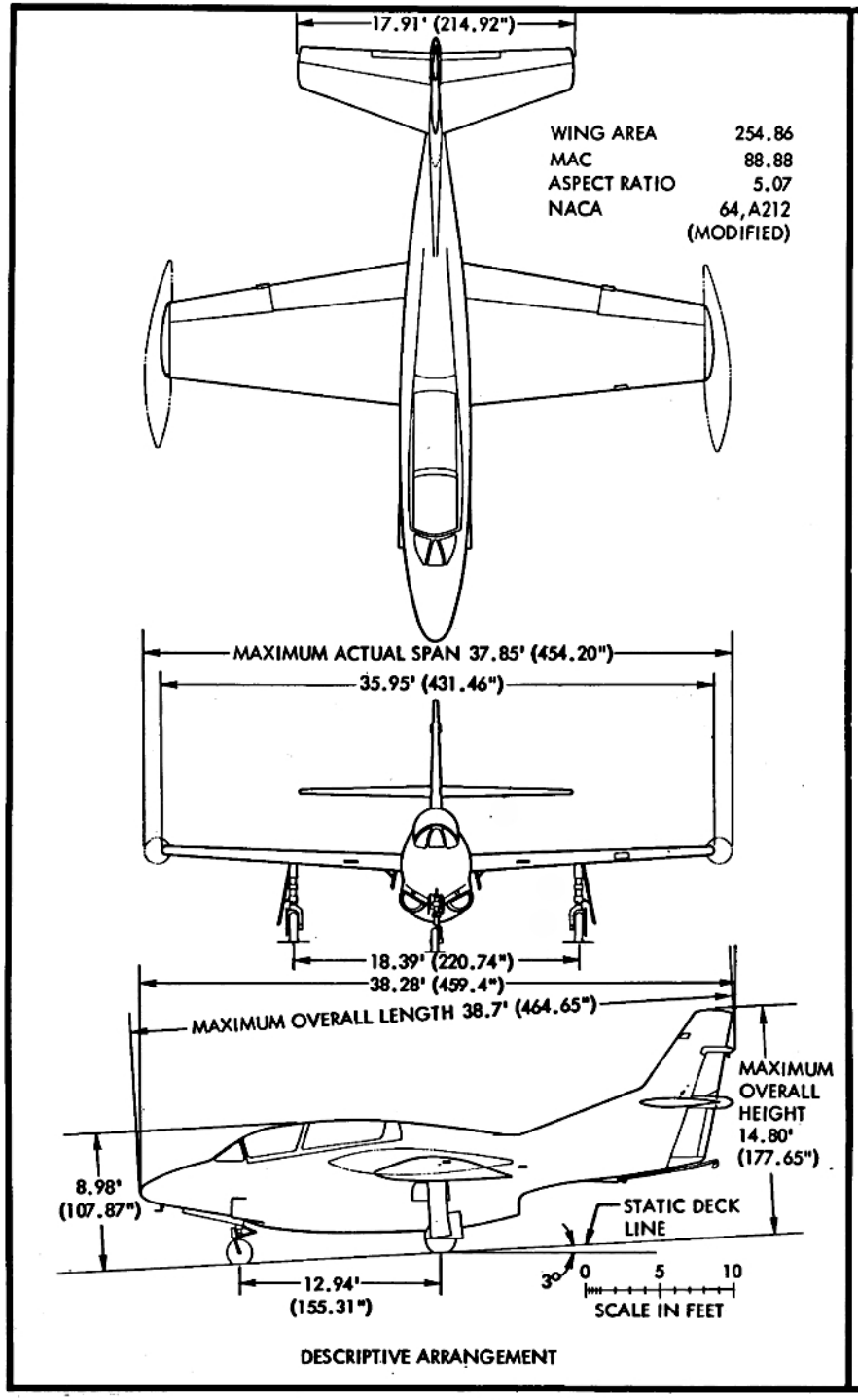


STANDARD AIRCRAFT CHARACTERISTICS

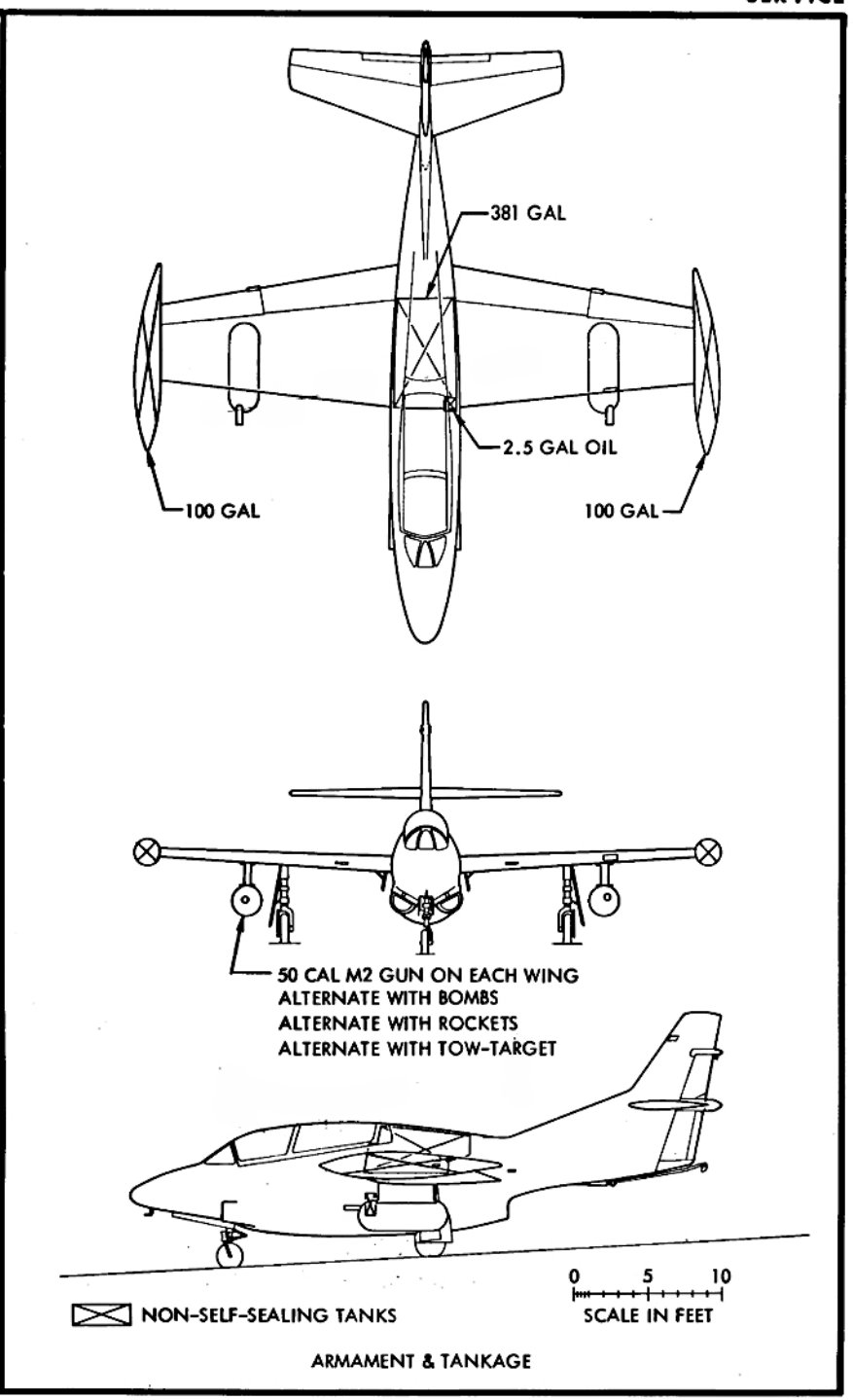
T2J-1

NORTH AMERICAN

Standard Aircraft Characteristics NAVAER 1335A (REV. 1-55)



DESCRIPTIVE ARRANGEMENT



ARMAMENT & TANKAGE

POWER PLANT

No. & Model J34-WE-48
Manufacturer .... Westinghouse
Type ..... Axial Flow
Length ..... 112.5 in.
Diameter ..... 28 in.
Augmentation ..... None
Tail Pipe Nozzle ..... Fixed

RATINGS

	LBS.	RPM	ALT
MAX.	3400	12,750	SSL
MIL	3400	12,750	SSL
NORM	3000	12,150	SSL

Engine Spec. WAGT-2261-A
of 20 October 1959

ORDNANCE

GUNS
2-50 calibre removable gun packages, one under each wing

BOMBS
2-100 lb. practice bombs or
2-Aero 4B bomb containers with 16-MK 5, 23, or 43 practice bombs or
2 practice bomb cluster AN-M1A2

ROCKETS
2-2.25 in. practive rockets or
14-2.75-in. mighty mouse rockets
AN/AWG-6 fire control system
14-2.75in. carried in Aero 6A-1 or -6A-2 rocket package containers (one per wing)

TOW TARGETS
Provisions for aerial tow target
Combination bomb pack and rocket launcher Aero-15C

MISSION AND DESCRIPTION

The primary purpose of this airplane is to provide an airplane of appropriately increased performance and versatility over the primary trainer including carrier operations.

The T2J-1 incorporates in its design a laminar-speed brakes. Wing incorporates single slotted flaps. Flight controls, excluding the rudder, are equipped with power boost system.

A low level escape system is also featured in the T2J airplane which provides safe ejection throughout the flight envelope down to zero altitude and a speed of 75 knots.

DEVELOPMENT

First Flight ..... December 1957
Service Use ..... June 1959

WEIGHTS

LOADING	LBS	iF
EMPTY(S)....	7087	.....
DESIGN	9507	..... 6.5
BASIC..	NOT APPLICABLE	.....
COMBAT..	NOT APPLICABLE	.....
MAX. T.O....	12,500	..... 5.2
MAX. LAND...	10,500	.. (FIELD)
MAX. LAND...	10,400	(CARRIER)

WEIGHTS ARE ACTUAL

FUEL AND OIL

NO. TANKS	GALS.	LOCATION
1	381	FUSELAGE
2	200	TIP TANKS

Fuel Grade JP-4, JP5
Fuel Spec(Applicable) .....
MIL-F-5624C

OIL

Capacity (gals)..... 2.5
Grade 1010
Spec(Applicable)..MIL-L-7808C

DIMENSIONS

WING
Area ..... 255 sq.ft.
Span ..... 36'
Length ..... 38' 3"
Height ..... 14' 10"
Tread ..... 18' 5"

ELECTRONICS

UHF Command AN/ARC-27A
Interphone C-2379/A1C
Receiving Set AN/ARR-40
TACAN Equipment ... AN/ARN-21
Direction Finder . AN/ARA-25
OR AN/ARA-25A

PERFORMANCE SUMMARY

TAKE-OFF LOADING CONDITION			(1) CLEAN	(2) CLEAN + 2 TIP TANKS	(3) CLEAN + TIP TANKS & GUN PACKAGES		
TAKE-OFF WEIGHT		lb.	10,122	11,541	12,026		
Fuel internal/external (JP-4)		lb./lb.	2477/0	2477/1300	2477/1300		
Payload		lb.	0	0	0		
Wing loading		lb./sq.ft.	39.7	45.3	47.2		
Stall speed - power-off	(A)	kn.	85.5	91.5	93.2		
Take-off run at S.L. - calm	(A)	ft.	1575	2190	2410		
Take-off run at S.L. 25 kn. wind	(A)	ft.	875	1275	1425		
Take-off to clear 50 ft. - calm	(A)	ft.	2280	3010	3275		
Max. speed/altitude	(A)	kn./ft.	416/20,000	403/16,000	350/16,000		
Rate of climb at S.L.	(A)	fpm.	3875	3200	2470		
Time: S.L. to 20000 ft.	(A)	min.	6.8	8.4	10.7		
Time: S.L. to 30000 ft.	(A)	min.	13.1	17.7	24.2		
Service ceiling (100 fpm)	(A)	ft.	37,900	35,100	31,000		
Combat range		n.mi.	494	836	631		
Average cruising speed		kn.	340	337	285		
Cruising altitude(s)		ft.	39,000	36,000	31,200		
Combat radius/Mission time		n.mi.					
Average cruising speed		kn.					
COMBAT LOADING CONDITION							
COMBAT WEIGHT		lb.					
Engine power							
Fuel		lb.					
Combat speed/combat altitude		kn./ft.					
Rate of climb/combat altitude		fpm/ft.					
Combat ceiling (500 fpm)		ft.					
Rate of climb at S.L.		fpm.					
Max. speed at S.L.		kn.					
Max. speed/altitude		kn./ft.					
LANDING WEIGHT		lb.	8219	8414	8905		
Fuel		lb.	574	650	656		
Stall speed - power-off/appr. power		kn./kn.	77.5/73.5	78.5/74.5	80.5/76.5		
Distance - ground roll/over 50 ft. obst.		ft./ft.	920/1460	990/1530	1140/1720		

NOTES

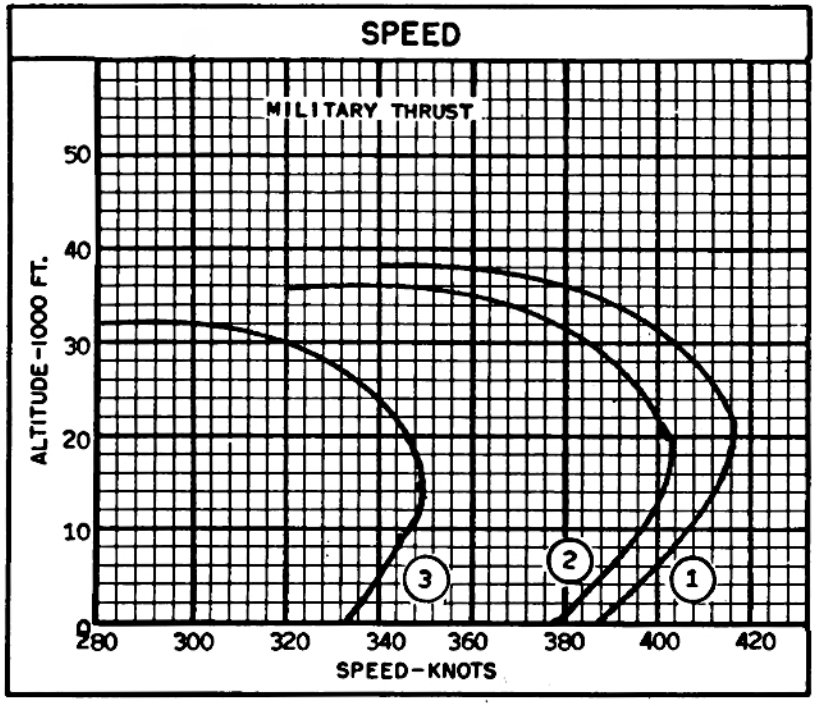
(A) MILITARY RATED POWER

PERFORMANCE BASIS: FLIGHT TEST DATA

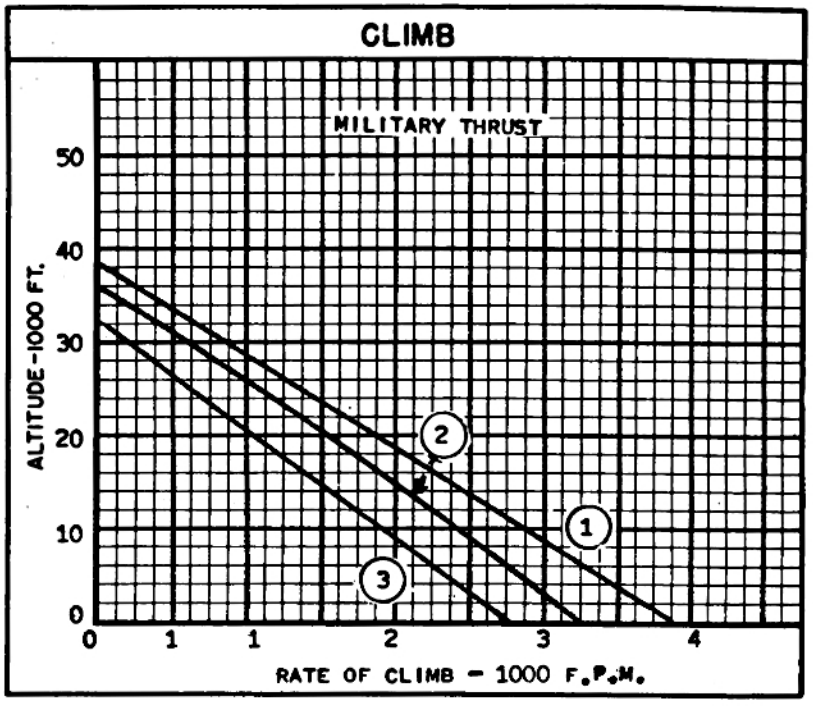
RANGE: RANGE IS BASED ON FLIGHT TEST FUEL CONSUMPTION DATA.

NAVAER-1335D (Rev. 1-55)

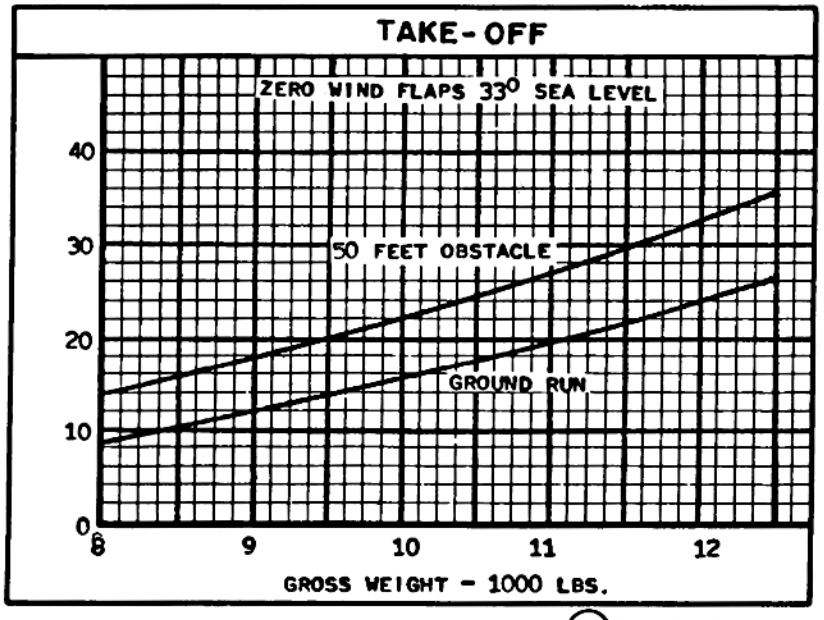
SPEED



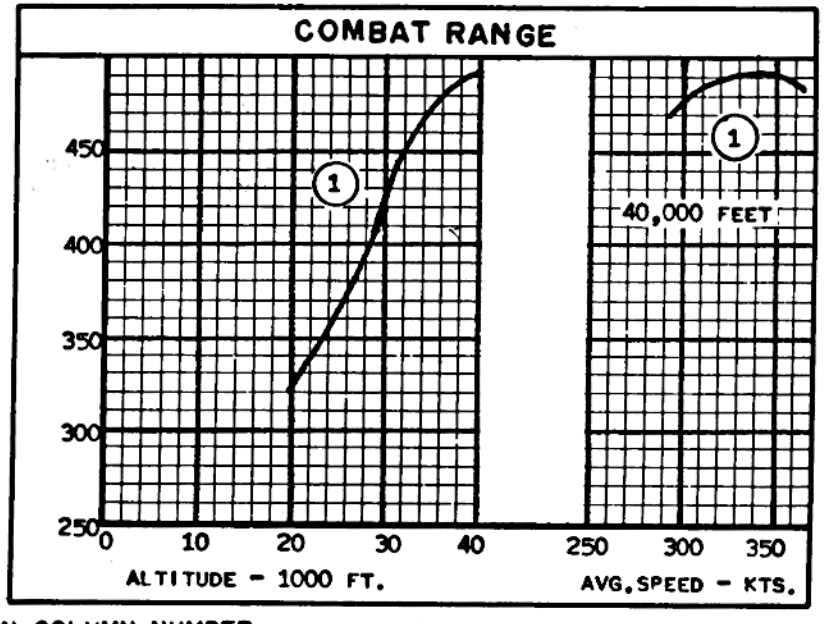
CLIMB



TAKE-OFF



COMBAT RANGE

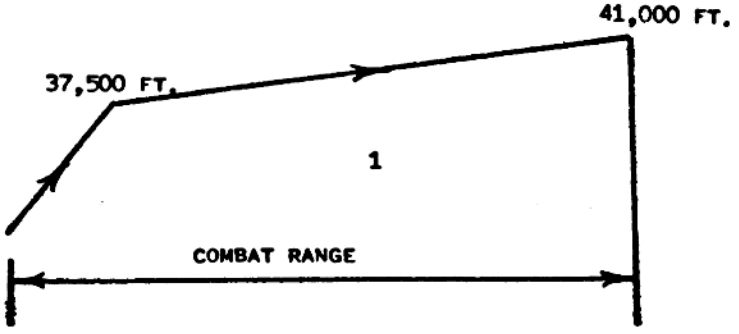


◯ LOADING CONDITION COLUMN NUMBER

NOTES

RANGE PROBLEM - TRAINER

WARM-UP, TAXI, TAKE-OFF, ACCELERATION: 5 MINUTES AT NORMAL RATED THRUST AT SEA LEVEL
CLIMB: ON COURSE TO CRUISE CEILING WITH MILITARY THRUST
CRUISE: AT LONG RANGE SPEEDS AT CRUISE CEILING
RESERVE: 5 PERCENT OF INITIAL FUEL PLUS FUEL REQUIRED FOR 20 MINUTES AT SPEED FOR MAXIMUM ENDURANCE AT SEA LEVEL.



(1) LOADING CONDITION COLUMN NUMBER