

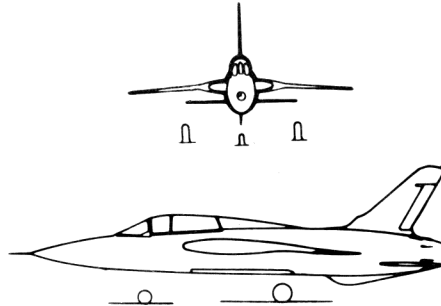
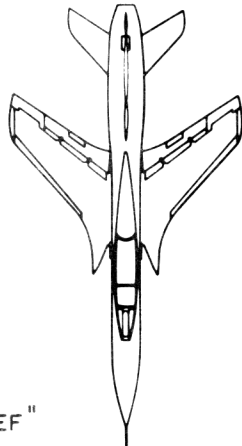
CONFIDENTIAL

Unclassified
~~SECRET~~

A-1
F-105E/char
SERVICE

Characteristics Summary

FIGHTER F-105 E



" THUNDERCHIEF "

REPUBLIC

Wing Area 385 sq ft Length 64.3 ft
Span 34.9 ft Height 19.7 ft

AVAILABILITY

PROCUREMENT

Number available

Number to be delivered in fiscal years

ACTIVE	RESERVE	TOTAL				

STATUS

- The F-105E is a further development of the F-105C which never reached production. This airplane is similar to the F-105D in most respects except that it has less internal fuel due to the incorporation of the second pilot station.
Navy Equivalent: None
 - First flight: Nov 59 (est)
- Mfr's Model: AP 63-33

POWER PLANT

(1) J75-P-19W
Pratt & Whitney
ENGINE RATINGS
S.L.S. LB - RPM - MIN
T.O. *26,500 - 6850/8985-1†
Max: †24,500 - 6400/8930-15
Mil: 16,100-6440/8940 -30
Nor: 14,300 - 6080/8700 -
Cont
*With water
†With afterburner operating
‡Limited by water supply

FEATURES

Crew 2
Pilot
Student Pilot
Area control fuselage
Liquid oxygen system
Fuselage bomb bay
L.E. wing flaps
Drag chute
Integrated auto pilot
Inflight refueling (probe-drogue)
Ram air ejector
Modified MA-8 Fire control system
R-19A Search and ranging radar
AN/APN-105 Doppler navigation
Nose wheel steering
Spoiler/aileron combination
Max fuel capacity:...2745 gal

ARMAMENT

Guns 1 x 20mm (M-61)
Ammunition (tot) . . 1000 rds
Rockets *190 x 2.75"
FFAR or 4 x GAR-8
Bombs:
Class (lb) Int Ext Load
1000 — 4 . . . 4x1000
750 — 4 . . . 4x750
Special Stores:
1960 (MK-28) . . 1x1960
Max Bomb Size:
(Int) 1960 lb
(Ext) 1000 lb
Max Bomb Load . . 4000 lb

*Carried in 5 pods, 38 rockets each

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10
A.R. Semmler
30 Nov 70

17 OCT 58

~~SECRET~~

DEC 15 1958

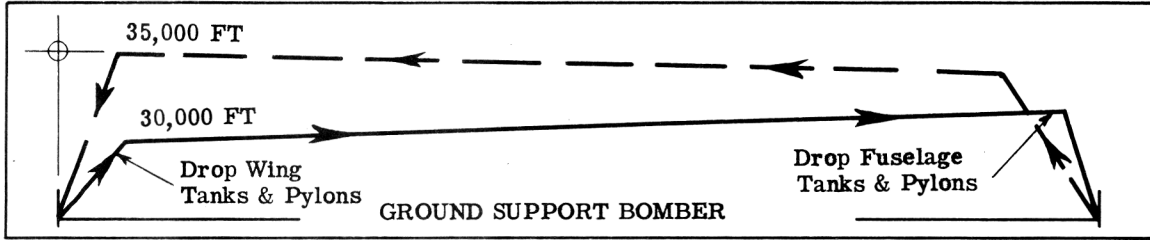
F-105 E

5th Ed Addendum Nr 10

Black Book

5700-4983

Characteristics Summary Basic Mission F-105 E



P E R F O R M A N C E

C O M B A T R A D I U S	F E R R Y R A N G E	S P E E D
② 421 (570) naut. mi with 2525 lb payload at 507 knots avg. in 1.73 hours.	1716 naut. mi with 2745 gal fuel at 506 knots avg. in 3.39 hours at 48,711 lb T.O. wt.	COMBAT 714 knots at zero ft alt, max power MAX 1128 knots at 35,000 ft alt, max power BASIC 714 knots at zero ft alt, max power
C L I M B	C E I L I N G	T A K E - O F F
4800 fpm sea level, take-off weight military power	34,000 ft 100 fpm, take-off weight military power	③ ground run 4590 ft no assist — ft assisted
34,100 fpm sea level, combat weight maximum power	48,300 ft 500 fpm, combat weight maximum power	③ over 50 ft height 6000 ft no assist — ft assisted
L O A D	W E I G H T S	S T A L L I N G S P E E D
Ammo . . . 1000 rds/20mm Special Store (MK-28) 1960 lb Fuel: 2355 gal protected 0 % droppable 57.3 % external 57.3 %	Empty 27,746 lb Combat . . . 35,821 lb Take - off 48,272 lb limited by mission	180 knots power-off, landing config- uration, take-off weight T I M E T O C L I M B 1.66 min S.L. to 35,000 ft, combat wt, max power

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

N O T E S

1. Performance Basis:
(a) Estimated data
2. Wing tanks with 2437 lb of fuel are dropped prior to combat. Radius in parenthesis is calculated carrying wing tanks in combat.
3. With water injection
4. Revision Basis: Initial Issue