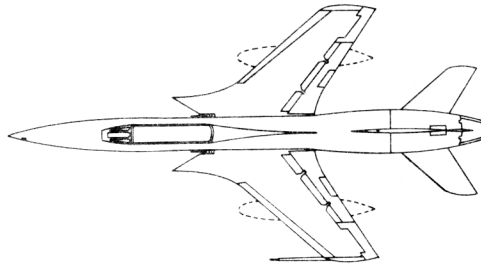
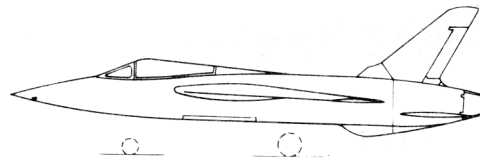
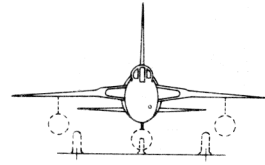


Characteristics Summary

FIGHTER F-105C



"THUNDERCHIEF"



REPUBLIC

Wing Area 385 sq ft Length 63.1 ft
Span 34.9 ft Height 19.7 ft

AVAILABILITY

PROCUREMENT

Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

STATUS

1. Similar to the F-105B except for addition of second flight station, reduced fuel capacity and other minor changes.
2. First flight: Sep 58 (est)
3. First acceptance: Sep 58 (est)

Navy Equivalent: None

Mfr's Model: AP-63-5

POWER PLANT

‡ (1) J75-P-5
Pratt & Whitney
ENGINE RATINGS
S.L.S. LB - †RPM - MIN
Max: *23,500 - 6940/8860 - 5
Mil: 15,500 - 6820/8810 - 30
Nor: 13,700 - 6450/8630 -
Cont
*With afterburner operating
†First figure represents RPM of the low pressure spool while the second that of the high pressure spool.
‡ With Republic designed Ram Air Ejector.

FEATURES

Crew 2
Area control fuselage
Liquid oxygen system
Spoiler ailerons
Fuselage bomb bay
L.E. Wing flaps
Drag chute
Integrated auto pilot
XMA-8 Fire control system
Engine ram air ejector
In-flight refueling (Probe & Drogue)
E-30 Toss bomb computer
Integrated electronics pack-age
Max fuel capacity: 2705 gal

ARMAMENT

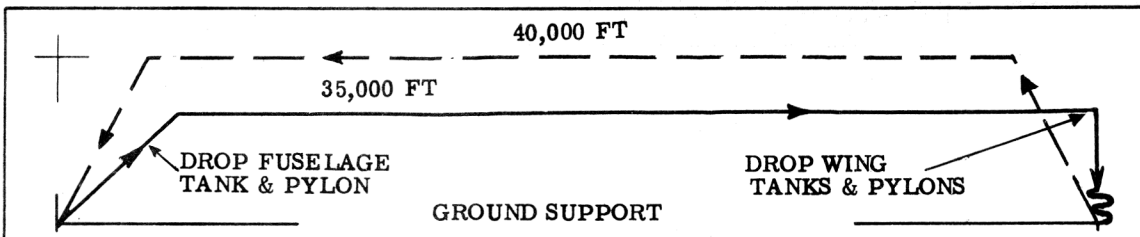
Guns ... 1 x 20mm(T171E3)
Ammunition (tot) ... 1130 rds
Rockets . *95 x 2.75" FFAR
Bombs:
Class (lb) Int Ext Load
3000 2.. 2x3000
2000 2.. 2x2000
1000 4.. 4x1000
750 4.. 4x750
Special Store
1700(TX-28) 1x1700
Max Bomb Size
(Int) 1700 lb
(Ext) 3000 lb
Max Bomb Load . . 6000 lb
*Carried in 5 pods,
19 rockets each

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

UPGRADED AT 8 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10
18 Dec 69 P.R. Lombardi

Duplicate of Initial Source
Deleted: 5th Ed;
Add No 8; 15-Sep-58

Characteristics Summary Basic Mission F-105C



PERFORMANCE

COMBAT RADIUS	FERRY RANGE	S P E E D
561 naut. mi with 2507 lb payload at 491 knots avg. in 2.36 hours.	2067 naut. mi with 2705 gal fuel at 493 knots avg. in 4.2 hours at 44,507 lb T.O. wt.	COMBAT 721 knots at zero ft alt, max power MAX 1058 knots at 35,000 ft alt, max power BASIC 721 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
6465 fpm sea level, take-off weight military power	38,500 ft 100 fpm, take-off weight military power	ground run 3910 ft — ft no assist assisted
37,600 fpm sea level, combat weight maximum power	52,300 ft 500 fpm, combat weight maximum power	over 50 ft height 4980ft — ft no assist 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
Ammunition .1130 rds/20mm Special Store(TX-28).1750 lb	Empty..... 24,824 lb Combat... 33,010 lb Take - off 42,134 lb limited by mission	167.6 knots power-off, landing config- uration, take-off weight
Fuel: 1980 gal protected 0 % droppable 49.2 % external 49.2 %		T I M E T O C L I M B 1.6 min S.L. to 35,000 ft, combat wt, maximum power

RESTRICTED DATA
ATOMIC ENERGY ACT 1954

N O T E S

- Performance Basis:
(a) Contractor estimated data (Not substantiated by WADC)
- Revision Basis: Initial Issue