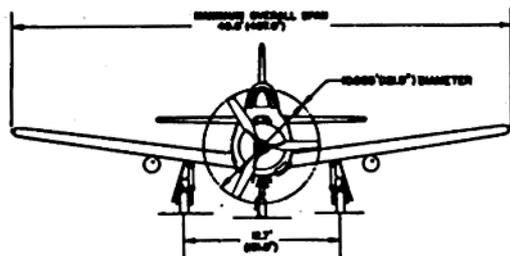
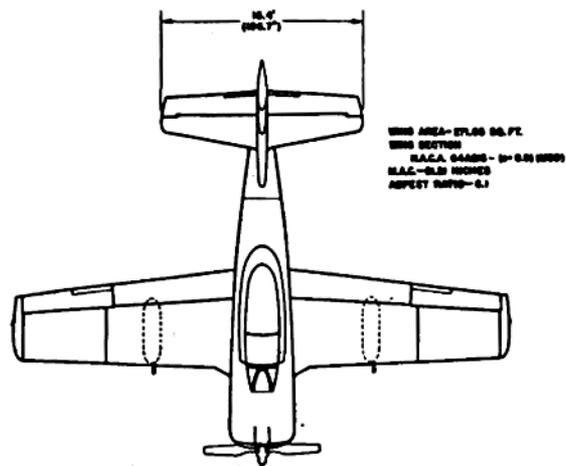


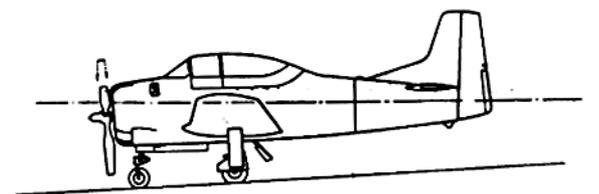
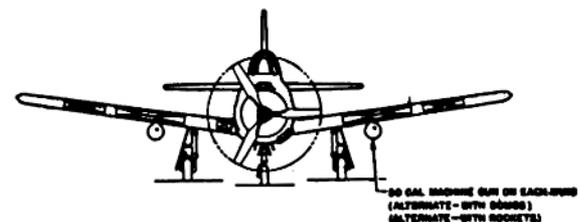
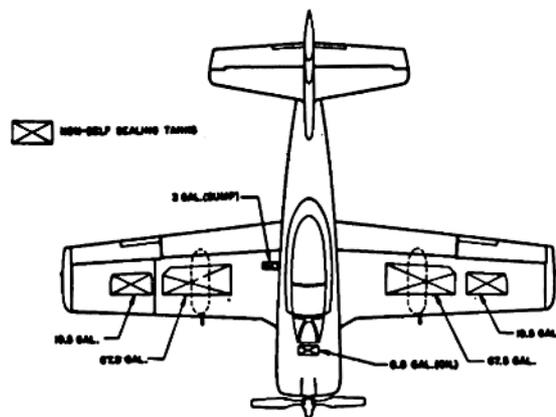
STANDARD AIRCRAFT CHARACTERISTICS

T-28B



DESCRIPTIVE ARRANGEMENT

0 20 40 60 80
SCALE



ARMAMENT & TANKAGE

0 20 40 60 80
SCALE

POWER PLANT

NO. & MODEL (1) R-1820-86
 MFR * Lycoming
 SUPERCHARGER 1 Stage, 2 Speed
 RED. GEAR RATIO 0.666
 PROP. MFR Hamilton Standard
 BLADE DES. NO. .. 6931A-18 or 6547A-18
 NO. BLADES/DIA. 3/10' 1"

* Under Wright license.

RATINGS

	<u>RHP</u>	<u>RPM</u>	<u>ALT</u>
T.O.	1425	2700	S.L.
MIL.	1425	2700	S.L. to 2000'
	1100	2600	10,000' to 16,000'
NORM.	1275	2500	S.L. to 3100'
	975	2500	11,600' to 18,200'

SPEC. NO. N-896

ORDNANCEGUNS

<u>NO.</u>	<u>CAL.</u>	<u>RDS. EACH</u>	<u>LOCATION</u>
2	50	100	Wing

Removable gun packages, one location under each wing.

Gun camera (1) AN-N6 Leading edge of wing.

BOMBS

<u>NO.</u>	<u>SIZE</u>	<u>TYPE</u>
2	100 lbs.	Practice

External, one under each wing.

Max. bomb size 100 lbs.

Max. bomb load 200 lbs.

ROCKETS

<u>NO.</u>	<u>SIZE</u>	<u>TYPE</u>
6	2.25 in.	S.C.A.R.

External, three under each wing.

Fire control system MK 6 Mod 0

Guns can be carried in lieu of but not in combination with bombs or rockets.

MISSION AND DESCRIPTION

The tactical mission of the T-28B airplane is to provide all flying training in the advanced stage (those phases of training following primary and basic stages) and on which reserve flying proficiency will be maintained.

The T-28B is conventional in structure and incorporates single-slotted type wing flaps, a power operated canopy, and speed brakes. A large baggage compartment is provided under the cockpit floor. A combustion type heater is used for supplying heated air to the cockpit. The power plant design incorporates jet exhaust stacks.

DEVELOPMENT

First Flight April 1953

Service Use February 1954

DIMENSIONSWING

AREA 271 sq. ft.
 SPAN 40' - 7"
 M.A.C. 6' - 9"
 LENGTH 32' - 11"
 HEIGHT 12' - 7"
 TREAD 12' - 8"
 PROP. GND. CLEARANCE 9"

WEIGHTS

<u>LOADINGS</u>	<u>LBS</u>	<u>L.F.</u>
EMPTY	6502
BASIC	6556
DESIGN	8038 6.2
MAX. T.O.	8531 2.0
MAX. LAND.	8501 2.0

All weights are actual

FUEL AND OIL

<u>NO. TANKS</u>	<u>GAL.</u>	<u>LOCATION</u>
2	135	Wing, Center
2	39	Wing, Outer
1	3	Sump

FUEL GRADE 100/130

FUEL SPEC (applicable) .. MIL-F-5572

OIL

CAPACITY (Gals.) 8.8
 GRADE 1100
 SPEC (applicable) MIL-O-6082

ELECTRONICS

UHF COMMAND AN/ARC-27A
 INTERPHONE 60001-105
 MARKER BEACON AN/ARN-12
 OMNI-RANGE RCVR AN/ARN-14E
 DIRECTION FINDER AN/ARA-25
 LOW FREQUENCY RANGE RCVR .. AN/ARC-5
 LOW FREQUENCY ADF AN/ARN-6

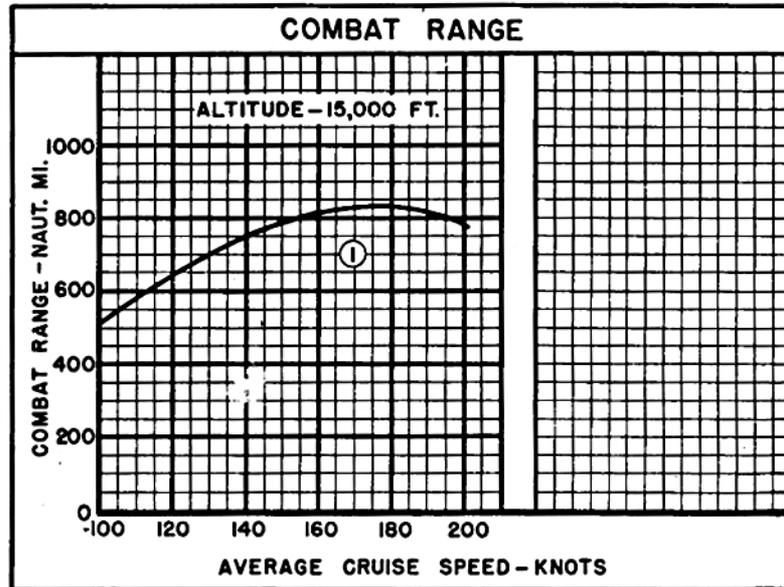
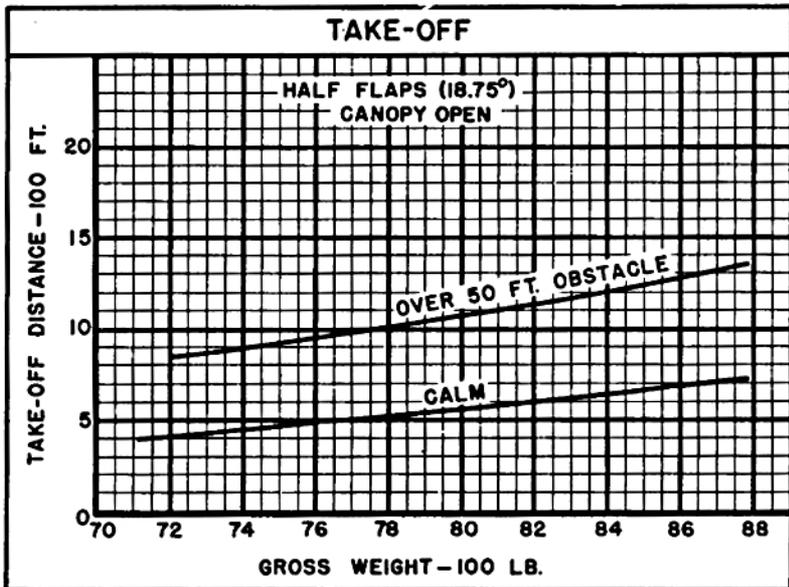
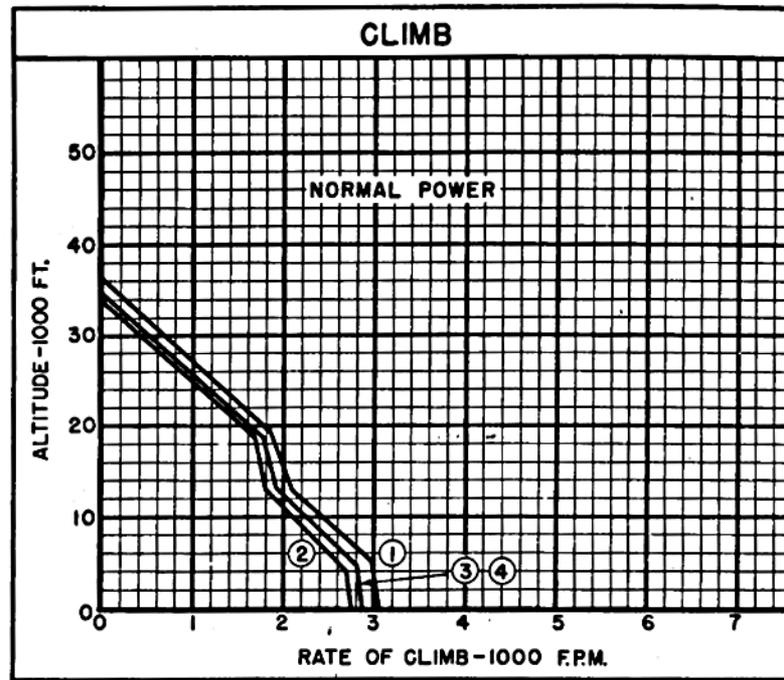
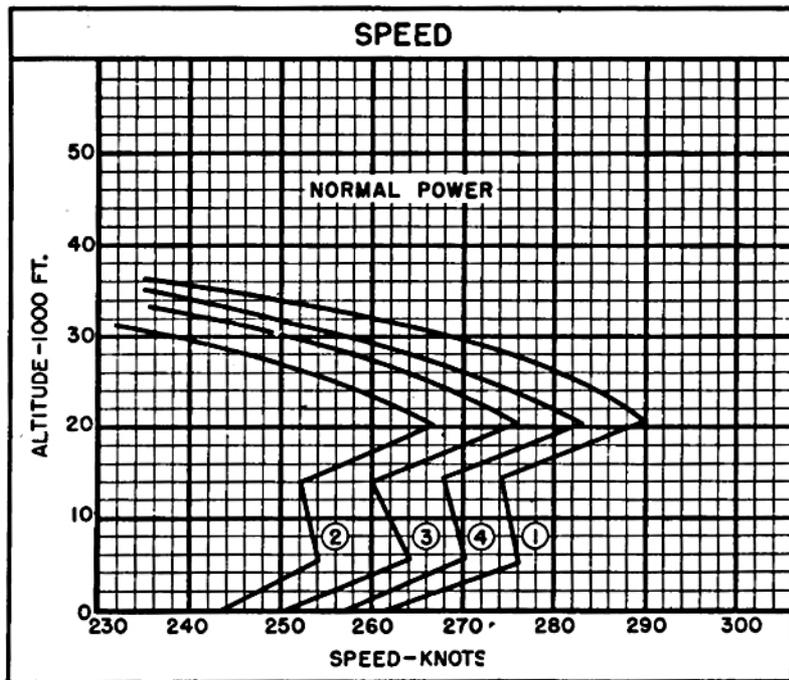
AN/ARN-21 - TACAN (Alternate to AN/ARN-14E) in those aircraft having T-28 Aircraft Service Change No. 20 incorporated.

PERFORMANCE SUMMARY						
TAKE-OFF LOADING CONDITION		(1) CLEAN	(2) CLEAN + 2 GUN PACKS	(3) CLEAN + 6-2.25" ROCKETS	(4) CLEAN + 2-100 LB BOMBS	
TAKE-OFF WEIGHT	lb.	8095	8485	8312	8412	
Fuel	lb.	1062	1062	1062	1062	
Fayload	lb.	none	60	71	200	
Wing loading	lb./sq.ft.	29.9	31.3	30.7	31.0	
Stall speed - power-off	kn.	71.8	73.5	72.7	73.2	
Take-off run at S.L. - calm (A)	ft.	570	670	620	650	
Take-off run at S.L. kn. wind	ft.	--	--	--	--	
Take-off to clear 50 ft. - calm (A)	ft.	1100	1240	1180	1220	
Max. speed/altitude (B)	kn./ft.	290/20,500	267/20,100	276/20,300	283/20,300	
Rate of climb at S.L. (B)	fpm.	3070	2750	2870	2900	
Time: S.L. to 10,000 ft. (B)	min.	3.7	4.0	3.7	3.8	
Time: S.L. to 20,000 ft. (B)	min.	8.3	9.5	9.0	8.7	
Service ceiling (100 fpm) (B)	ft.	35,600	33,000	34,000	34,000	
Combat range	n.mi.	830	720	765	800	
Average cruising speed	kn.	191	175	181	185	
Cruising altitude(s)	ft.	15,000	15,000	15,000	15,000	
Combat radius	n.mi.					
Average cruising speed	kn.					
Mission time	hr.	4.4	4.1	4.2	4.3	
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.	7126	7520	7348	7245	
Fuel	lb.	93	97	98	95	
Stall speed - power-off/approach power	kn./kn.	67.0/66.0	68.9/67.6	68.0/66.9	67.5/66.3	
Distance - ground run/over 50' obstacle	ft./ft.	1200/1680	1280/1760	1240/1710	1230/1700	

NOTES

PERFORMANCE BASIS: Calculations and contractor's flight test data.
 RANGE is based on engine specification fuel consumption data increased by 5%.

- (A) TAKE-OFF POWER
 (B) NORMAL POWER



○ LOADING CONDITION COLUMN NUMBER

NOTES

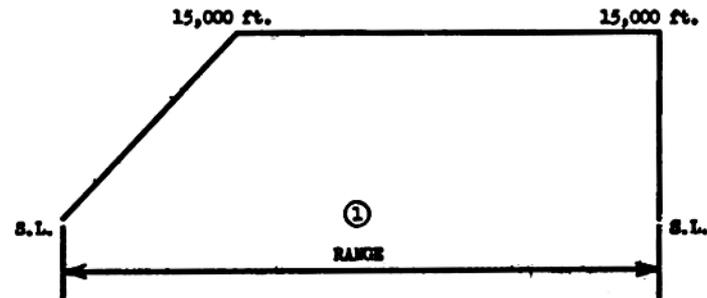
COMBAT RANGE (RECIPROCATING ENGINE)

WARM-UP, TAXI, ACCELERATION, TAKE-OFF: 5 minutes at normal rated power at sea level.

CLIMB: To 15,000 feet at normal rated power.

CRUISE: At speed for long range at 15,000 feet.

RESERVE: 20 minutes at speed for long range at sea level plus 5% of initial fuel load.



○ LOADING CONDITION COLUMN NUMBER