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EE-393

TACTICAL PLANNING

Characteristics & Performance Chart

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PUBLISHED BY AUTHORITY OF THE COMMANDING GENERAL
ARMY AIR FORCES, AIR TECHNICAL SERVICE COMMAND
WRIGHT FIELD, DAYTON, OHIO

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TACTICAL PLANNING

Characteristics & Performance Chart

BOMBERS

CARGO

FIGHTERS

GLIDERS

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FOREWORD

This chart is a supplement to the Semi-Annual Chart of Engineering Characteristics and Performance, EE-306-1, "Production". This issue covers typical models now in theater operation and is kept up to date as new models are received by the A.A.F.

All data includes service allowances based on theater experience. Individual airplanes may vary appreciably due to age and service changes. Data printed in red are preliminary and subject to revision after flight check. Data printed in black have been derived from information obtained in flight but are not actual flight test results. For detailed planning see Technical Orders listed as references.

WARNING

THESE CHARTS CONTAIN CONSERVATIVE AVERAGES FOR TACTICAL PLANNING AND ARE NOT SUITABLE FOR AERODYNAMIC ANALYSIS.

Performance is based on the requirements of Army-Navy Aeronautical specification AN-H-8a; "Handbooks, Pilot's Flight Operating Instructions" which sets forth specific allowances for practical service operation. Take off and landing distances are 125% of optimum at 3000 ft. on hard surface, no wind, standard temperature. Weights are "Basic" weight plus crew, oil, full ammunition, fuel and bombs, cargo, passengers or troops as applicable. For bombers and cargo, "War Maximum" weights are based on limiting applied positive maneuver factor of 2.00G unless otherwise specified. Time to climb is minimum within published engine limits. Range and endurance are based on the following assumptions:

- (a) Allowance for warm up, taxi, run up, take off, and landing, (equal to ten minutes at rated power).
- (b) Allowances for fuel consumed in climb. Distance and time to climb are included in range and endurance.
- (c) Allowance for carrying bombs and droppable tanks entire flight.
- (d) Allowance for 10% net ideal range and endurance for miscellaneous differences in airplanes, equipment, pilot technique, atmospheric conditions other than wind, unusable fuel, weight, and similar variables. (For example, range varies day and night due to fuel expansion prior to take off.)

THIS REPORT SUPERSEDES PREVIOUS EE-393 PUBLICATIONS; SUPERSEDED PUBLICATIONS, IF NO LONGER OFFICIALLY REQUIRED, WILL BE DESTROYED IN THE MANNER PRESCRIBED IN A.R.380-5.

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SECURITY CLASSIFICATION EE-393

MODEL & BLOCK NO.	ENGINE						PROPELLER		SIZE				WEIGHT		COMBAT CREW	FUEL		GUNS		BOMBS		GARGO		PERFORM			FOOT NOTES	MODEL & BLOCK NO.											
	ENGINE MFR.	MODEL	SUPERCHARGER	TAKE-OFF H.P.	WAR EMERG./ALT.	MILITARY/ALT.	CONTINUOUS/ALT.	PROP. MFR.	PROP. DIA.	NO. OF BLADES	PROP. TYPE	SPAN	LENGTH	HEIGHT		TREAD	WING AREA	BASIC	COMBAT	WAR MAX.	TANK TYPE OR LOCATION	NO. OF TANKS & CAPACITY	NO. & LOCATION	CAL./ROS./TYPE	ROCKET INS.	NO. & SIZE (INTER.)			NO. & SIZE (EXT.)	MAX. LOAD	STATION	CAPACITY	MAX. LOAD	RADIO	REMARKS & REF.	TAKE-OFF & LAND	HIGH SPEED & CLIMB	RANGE & END.	REMARKS ON PERFORMANCE
B-17																																							B-17
B-24																																							B-24
B-24H																																							B-24H
B-29																																							B-29
B-32																																							B-32
B-25																																							B-25
B-26																																							B-26
A-20																																							A-20
A-26																																							A-26
A-36																																							A-36
CARGO																																						CARGO	
P-36																																							P-36
P-39(20-30 INCL) OTHER P-39's																																							P-39(20-30 INCL) OTHER P-39's
P-40																																							P-40
P-47M & N OTHER P-47's																																							P-47M & N OTHER P-47's
P-51																																							P-51
P-51H																																							P-51H
P-61																																							P-61
P-63																																							P-63
P-80																																							P-80
CG-4A																																							CG-4A
CG-13																																							CG-13
CG-15																																							CG-15

NOTES

- 1. ONLY P-47N FUEL IS CONFIDENTIAL, OTHER P-47'S ARE RESTRICTED
- 2. ONLY A-20J & K COMBAT CREWS ARE RESTRICTED, OTHER A-20'S ARE UNCLASSIFIED.
- 3. ONLY A-20H & J GUNS ARE RESTRICTED, OTHER A-20'S ARE UNCLASSIFIED.
- 4. ONLY B-29B IS CONFIDENTIAL, OTHER B-29'S ARE RESTRICTED.

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- (Page 2 & 44)...FOREWORD
- (Page 5 & 44)...DEFINITIONS
- (Page 11)...B-29 SAMPLE MISSION
- (Page 25)...B-32 SKETCH
- (Page 42)...P-80 SKETCH
- (Page 42b)...FIGHTER COMBAT RADIUS ACTION

THE SECURITY CLASSIFICATION SHOWN ABOVE IS SPECIFICALLY FOR THE MATERIAL GIVEN IN THIS PUBLICATION.
EACH DOCUMENT SHOULD BE GRADED ACCORDING TO ITS OWN CONTENT AND NOT NECESSARILY ACCORDING TO ITS RELATIONSHIP TO ANOTHER DOCUMENT (PARAGRAPH 8, AR 380-5)

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DEFINITIONS

CHARACTERISTICS

SUPERCHARGER: "TURBO" indicates exhaust driven turbine with single speed integral diffuser.

BHP/ALT: Brake horsepower per engine at critical altitude with ram.

T: Maximum power for take off.

M: Military power for combat at altitude shown, (usually limited to 15 min. duration)

WE: War emergency power for combat at altitude shown, (limited to 5 min. duration only)

C: Maximum power for continuous operation.

Note: Maximum cruise power is the maximum power for unlimited operation with lean mixture.

SIZE: Approximate dimensions for storage planning.

Length: Does not include protruding guns.

Height: Maximum in three point position.

wing area: Standard aerodynamic surface area.

Tread: Center to center main wheels: (outboard if dual).

WEIGHTS: Approximate averages for planning purposes.

B: Basic weight includes weight empty, trapped fuel and oil, equipment, armament, etc. but does not include disposable fuel, oil, droppable tanks, ammunition, bombs, cargo, nor crew.

C: Combat weight is based on latest confirmed information from theaters and usually includes full built-in fuel, full ammunition, and an arbitrary bomb or cargo load.

W: War maximum weight for special missions, limited by structural considerations, based on a positive maneuver factor of 2.0 unless otherwise noted.

FUEL: Standard fuel tankage and capacities.

ARMAMENT: Resume' of information in the "ARMAMENT & BOMB INSTALLATIONS" (Chart EE-306A)

RADIO Resume' of typical models installed.

PERFORMANCE

BOMBS: Maximum rack capacity for standard sizes.

CARGO: Cargo, passenger or troop capacities.

Max. load: One size only on each bomb rack (in some cases a reduction in fuel load is required) Practical total cargo based on gross weight. Values are at least 125% of optimum.

TAKE OFF & LANDING: (At 3000' runway alt.)

Gross weight: Arbitrary values for reference only. Distances representative of minimum airport requirements.

(To clear 5C')

Ground run: Distances representative of minimum runway requirements.

Landing speed: Practical minimum for average pilot.

HIGH SPEED & CLIMB: Values are for clean new airplanes.

Military power: For limited periods of combat operation.

War emergency power: (Performance with War Emergency ratings are shown when applicable).

Time of climb: Minimum time to climb from sea level based on military power climb for allowable time and maximum continuous power climb from then on.

RANGE & ENDURANCE: See discussion in "FOREWORD", page 2

Take off weight: Brief list of typical gross weights.

Bombs, etc: Typical loadings combined with various tank capacities. No consideration is given to loadings requiring partially filled tanks.

Note: Take off weights with corresponding load and fuel quantity applies to all values to the right on the same line.

Max. cont. power: High speed cruising with rich mixture. (For emergency cruising only)

Max. cruise power: Maximum continuous operation with lean mixture setting.

Long range: Practical maximum range for planning purposes under all conditions set forth.

RED PRINT: Preliminary estimates or calculated data.

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BOEING (SEATTLE) "BO"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17F-BO (-1 thru -27)	1-.30 2-.50 2-.50 2-.50	500 a 300 400 500 565	NOSE...FLEX. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17F-BO (-30 thru -50)	NONE 1) 2) 2) 2)	NONE 300 b 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	2-4000 2-2000 2-1600 2-1000	6-1600 2-4000x 17600	AS ABOVE
B-17F-BO -55 thru 1st.30(-85)	2) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B O V E		2550 (-55 thru -75) 3630 -80 & SUB.
B-17F-BO Last 70(-85) thru -130	3) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT THAT EXTERNAL BOMB RACKS DELETED AFTER 15th.(-95)			3630
B-17G-BO (-1 thru -110)	2) 1) 2) 2) 2)	Not 610 365 300 c 500 d 400 500 565 e	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	MOUNT LUGS & CONTROLS RETAINED	9600	AS ABOVE

NOTES: a NOSE GUN DELETED LAST 35(-27). b RADIO COMPART. GUN ADDED AFTER 15th(-30). c EARLY MODELS CARRY 300 RDS./GUN.
d CHEYENNE TAIL MOUNT ON LAST 20(-90). e CHEYENNE TAIL MOUNT ON LAST 20(-90).
f RADIO COMP. GUN DELETED LAST 68(-105 & -110). g AND SUBSEQUENT. x EXTERNAL.

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DOUGLAS (LONG BEACH) "DL"

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MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17F-DL -1 thru 1st.13(-10)	1-.30 2-.50 2-.50 2-.50	500 a 300 400 500 565	NOSE...FLEX. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17F-DL Last 12(-10) thru -20	2) 1) 2) 2) 2)	300 300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE	PROV. FOR EXTERNAL RACKS ON -20 & SUB.	AS ABOVE	AS ABOVE
B-17F-DL -25 thru 1st.21(-35)	A S	A B O V E	AS ABOVE	PROV. FOR EXTERNAL RACKS	AS ABOVE	AS ABOVE	3630
B-17F-DL Last 19(-35) thru -65	3) 1) 2) 2) 2) 2)	300 300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B O V E	AS ABOVE	AS ABOVE
B-17G-DL (-1 thru -85)	2) 1) 2) 2) 2)	Not 610 365 300 c 500 d 400 500 565 e	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT ONLY MOUNT- ING LUGS & CONTROLS RETAINED FOR EXTERNAL BOMB RACKS ON (-80) & SUBSEQUENT MODELS.			AS ABOVE

NOTES: a NO NOSE GUN ON 1st.13(-10). b EARLY MODELS CARRY 300 RDS./GUN.
c CHEYENNE TAIL MOUNT ON (-50) & SUBSQT. d CHEYENNE TAIL MOUNT ON (-50) & SUBSQT.
e RADIO COMPART. GUN DELETED (-75) & SUBSQT. f EXTERNAL.

NOTE (B)

GENERAL NOTE:

THE 6x1600 LB. ARMOR PIERCING BOMBS
MAY BE CARRIED, BUT BOMB RAIL LOAD
FACTORS AND CLEARANCES ARE REDUCED
AND MANEUVERING OF AIRPLANE MUST BE
LIMITED ACCORDINGLY.

RADIO SYSTEM

EARLIER B-17's *	NAME	LATER B-17's *
SCR-287	LIAISON	AN/ARC-2
SCR-211	FREQUENCY METER	-
SCR-522	COMMAND (W/F)	AN/ARC-3
SCR-274N	COMMAND	SCR-274N
SCR-259G	COMPASS	AN/ARM-7
SCR-595	IFF	SCR-595
SCR-578	DINGHY TRANSMITTER	SCR-578
RC-36	INTERPHONE	(2) AN/AIC-2
RC-43R	MARKER REACON	RC-193
RC-32	IFF	RC-210
RC-198	IFF	RC-210
-	GLIDE PATH	AN/ARM-5
RC-103	LOCALIZER	RC-103
-	STATIC DISCHARGE	AN/ASA-3
-	RCM	PROVISIONS

* MOST CHANGES EFFECTIVE ON LATER B-17G AIRPLANES.

POSSIBLE THEATER INSTALLATIONS

LOAN	ARI-5083 UNIT.
LOW ALT. ALTIMETER	AN/APN-1
HIGH ALT. BOMBING	AN/APN-15
SYNCHRONIZED	AN/APQ-7
BOMB RELEASE	AN/ARM-9
HIGH ALT. ALTIMETER	AN/ARM-10
	SCR-716

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VEGA (BURBANK) "VE"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17F-VE (-1 thru -10)	1-.30 CAL. (300 RDS.)	NOSE GUN	IN 1st. 12 AIRPLANES; NOSE GUN DELETED ON NEXT 25 THRU (-10). NO RADIO COMPARTMENT GUN UNTIL LAST 11(-15). OTHER ARMAMENT	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17F-VE (-15 & -20)	2) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE	EXTERNAL RACKS ON Last 31 (-20) & SUB.	AS ABOVE	AS ABOVE
B-17F-VE (-25 & -30)	A S	A B O V E	AS ABOVE	AS ABOVE	2-4000 2-2000 2-1600 2-1000	6-1600 2-4000x 17600	2550 (B-17F-25) 3630 (B-17F-30)
B-17F-VE (-35 thru -50)	3) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT ONLY MOUNT- ING LUGS & CONTROLS RETAINED FOR EXTERNAL BOMB RACKS ON (-35) & SUBSEQUENT MODELS.			3630
B-17G-VE (-1 thru -110)	2) 1) 2) 2) 2)	Not 610 365 300 e 500 d 400 500 565 c	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B O V E		

NOTES: a NOT ON (-1) & (-5). b EARLY MODELS CARRIED 300 RDS./GUN.
c EXTERNAL RACKS DELETED LAST 4(-30). d RADIO GUN STOWED (-35) thru 1st.16(-35).
e RADIO GUN DELETED LAST 24(-85) & SUBSQT. f EXTERNAL.

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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28 April 1945

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.			RADIO	REMARKS & REFERENCE
	ENGINE MFGR. MODEL SUPERCHARGER PROP MFGR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT A-RECOIL W-WAR MAIL			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.		
B-17F	WRIGHT R-1520-97 TURBO HAMILTON STD. 11'7" DIA. - 3 BL. P.P., HYDROMATIC	T 1200/3 L M 1200/27000 WE 1350/25000 C 1000/30000	S 103'9" L 74'9" H 19'1" T 21'2" W 1120 sq. ft.	B 36000 C 55000 A 56000 W 72000A	10		MAIN - WINGS WING TIPS BOMB BAY	6-1730 2x 510 2x 110 3630 TOT	3) 2) 1) .50 2) 2) 2) 2)	300 300 300 500 500 565	NOSE - FLEX. SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LAW. BALL TURRET TAIL - FLEX. MT.	2-2000 2-1500 2-1000 12- 500 16- 250 2-1000b	2-1000 2-2000 2-1000 2-1000b	6-1600 2-1000 17000	SEE NOTE (B) OR PAGE 6	TECHNICAL ORDER 01-2056-1. (REV. 10 FEB. 1945) EXTERNAL BOMBS ON SOME MODELS ONLY. WAR EMERGENCY POWER PERMITTED ONLY WHEN CARBURETORS MODIFIED TO PARTS LIST NO. 395563-3.
B-17G	AS ABOVE	T 1200/3 L M 1200/32700 WE 1350/26700 C 1000/35200	S 103'9" L 74'4" H 19'1" T 21'2" W 1120 sq. ft.	AS ABOVE	10		AS ABOVE EXCEPT PROVISIONS ONLY FOR THE BOMB BAY TANKS	AS ABOVE EXCEPT PROVISIONS ONLY FOR THE BOMB BAY TANKS	2) 2) 1) .50 2) 2) 2) 2)	300 300 300 500 500 565	NOSE - FLEX. CHIN TURRET. SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LAW. BALL TURRET TAIL - FLEX. MT.	AS ABOVE EXCEPT ONLY MOUNTING LUGS AND CONTROLS RETAINED FOR EXTERNAL BOMBS.	AS ABOVE	TECHNICAL ORDER 01-2056-1. (REV. 25 FEB. 1945) EARLY MODELS CARRIED 300 RDS. PER GUN. EARLY B-17's HAD B-2 TURBO GIVING CRITICAL ALTITUDE AS SHOWN FOR B-17F. EARLY MODELS HAD LENGTH OF 71'9". WAR EMERGENCY POWER PERMITTED ONLY WHEN CARBURETORS MODIFIED TO PARTS LIST NO. 395563-3. RADIO COMPARTMENT GUN DELETED ON LATEST MODELS. LATEST MODELS HAVE CHEYRINE TAIL MOUNT INSTALLED GIVING INCREASED ANGLE OF FIRE.		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT										RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS	
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH	GROUND RUN		WEIGHT LB.	STD. ALT. FT.	WAR EMERG. HIGH SPEED MPH	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT.		MAX. CRUISE POWER AT 10000 FT.		LONG RANGE AT 10000 FT.							
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.				HIGH RATE OF CLIMB FT/MIN.	HIGH RATE OF CLIMB FT/MIN.	HIGH RATE OF CLIMB FT/MIN.	TIME TO CLIMB MIN.				RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS		
B-17F	14000 15000 50000 55000 60000 65000	- - 3150 3950 4800 5300	3000 3500 3950 4500 - -	90 95 100 104 - -	1200 1500 2300 3050 3700 4200	- - 1900 2100 - -	55000	30000 25000 20000 15000 10000 5000	310 302 291 280 269 252	100 665 825 975 1075 1175	295 287 277 267 256 246	350 300 750 900 1000 1100	250 265 255 245 234 223	210 37.0 25.0 16.0 7.0	65500 59500 63500 65500 59000	NONE NONE 4000 6000 6000	3630 2810 2810 2810 1730	- - 1400 1400 850	- - 6.3 6.3 3.8	- - 1500 1450b -	- - 6.2 6.2b -	2000 1950 1800 1200	10.0 10.0 9.8 6.0	2350 1850c -	8.6 8.7c -	3100a 2550 2350 2250 1450	17.1 14.4 13.0 12.5 8.1	MAX. FERRY RANGE MAY BE ASSISTED BY INSTANT OIL IF ENGINE IS HOT IN BETTER THAN AVG. GRADE CONDITIONS. OIL CONSUMPTION MAY VARY PER HR. DEPENDING ON TIME SINCE OVERHAUL. FIRST 3 HRS. OF FLIGHT AT 20000 FT. ALTITUDE. FIRST 1500 OF FLIGHT AT 20000 FT. ALTITUDE.
B-17G	14000 15000 50000 55000 60000 65000	- - 3150 3950 4800 5300	3000 3500 3950 4500 - -	90 95 100 104 - -	1200 1500 2300 3050 3700 4200	- - 1900 2100 - -	55000	30000 25000 20000 15000 10000 5000	310 302 291 280 269 252	100 665 825 975 1075 1175	295 287 277 267 256 246	350 300 750 900 1000 1100	250 265 255 245 234 223	210 37.0 25.0 16.0 7.0	65500 59500 63500 65500 59000	NONE NONE 4000 6000 6000	3630 2810 2810 2810 1730	- - 1400 1400 850	- - 6.3 6.3 3.8	- - 1500 1450b -	- - 6.2 6.2b -	2000 1950 1800 1200	10.0 10.0 9.8 6.0	2350 1850c -	8.6 8.7c -	3100a 2550 2350 2250 1450	17.1 14.4 13.0 12.5 8.1	PERFORMANCE SLIGHTLY BETTER THAN B-17F SHOWN BELOW

NOTES:

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

(A) THRUSTER REPORTS INDICATE LOADINGS IN EXCESS OF 65000 LB. ARE BEING USED. IT IS ABSOLUTELY ESSENTIAL THAT WING FUEL & OIL TANKS ARE FULL AT THESE WEIGHTS & THAT MANEUVERS BE KEPT TO A MINIMUM.

(C) THE 8x1600 LB. ARMOR PIERCING BOMBS MAY BE CARRIED BUT BOMB RAIL LOAD FACTORS & CLEARANCES ARE REDUCED & MANEUVERING OF AIRPLANE MUST BE LIMITED ACCORDINGLY.

MANUFACTURED BY BOEING - DOUGLAS - VEGA



B-17

"FORTRESS"

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CONSOLIDATED (SAN DIEGO) "CO"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-24D-00 D thru 1st. 74(-15)	1) 2) .50 2)	200 400 600	NOSE.....FLEX. UPPER TURRET TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	2364
B-24D-00 Last 36(-15) thru -20	1) 2) .50 2)	200 400 600	NOSE.....FLEX. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	A S	A B O V E		2364 Last 36(-15) 3614 -20 & sub.
B-24D-00 -25 thru 1st. 20(-110)	3) 2) .50 1) 2)	100 250 400 600	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614
B-24D-00 Last 9(-110) thru -170	3) 2) .50 2) 2)	100 250 400 600	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET LOW BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24D-00 (-1 thru -210) B-24D-00 (-1 thru -20) B-24D-00 (-1 thru -50)	2) 2) .50 2) 2)	600 250 400 508 600	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW BALL TRR. See "a"	A S	A B O V E		AS ABOVE

NOTES: a B-24D's HAVE TAIL TURRET; B-24L's HAVE HAND HELD GUNS IN TAIL &
A NOT ON B-24D-25 B-24M's HAVE LIGHT WEIGHT TAIL TURRET.
b. 1-5 MUST INCREASE TO 500 RDS/GUN ON -210.

CONSOLIDATED (FT. WORTH) "CP"

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MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-24J-CF (-1 & -5)	3) 2) 2) .50 1) 2)	100 250 400 100 600	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	4-2000 8-1500 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24J-CF (-10 thru -20)	A S	A B O V E					AS ABOVE
B-24J-CF (-1 thru -105)	2) 2) .50 2)	600 250 400	NOSE TURRET SIDE WAIST..FL. UPPER TURRET	A S	A B O V E (SEE A)		AS ABOVE
B-24J-CF (-1 thru -15)	2) 2) .50 2)	508 600	LOW BALL TRR. TAIL TURRET				AS ABOVE
B-24J-CF (-20 thru -30)	2) 2) .50 2) 2)	600 500b 400 508 600	NOSE TURRET S. WAIST..45 MT. UPPER TURRET LOW BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24J-CF (-101)	A	S	A	B	O	V	E

NOTES: a B-10 SHACKLES FOR 8-1600 LB. BOMBS START ON 2101st. FORD KNOCK-DOWN SET.
b B-24M-20 HAS PROVISIONS FOR ONLY 250 RDS. PER GUN AT SIDE WAIST POSITION.

NOTE (A)

RADIO SYSTEM

EARLIER B-24's *	NAME	LATER B-24's *
SCR-287	LIAISON	AN/ARC-8
SCR-211	FREQUENCY METER	-
SCR-522		SCR-522
SCR-274W	COMMAND	SCR-274W
SCR-259G	COMPASS	AN/ASW-7
SCR-695		SCR-695
SCR-595	IFF	-
SCR-578	DINOHY TRANSMITTER	SCR-578B
SC-35B	INTERPHONE	AN/ATC-2
RC-43B	MARKER REACON	RC-193
RC-32	FILTER EQUIPMENT	RC-196
-	SLIDE PATH	AN/ASW-5A
RC-103	LOCALIZER	RC-103
-	STATIC DISCHARGE	AN/ASA-1 or AN/ASA-3
-	RCM	PROVISIONS

* MOST CHANGES EFFECTIVE ON B-24N AIRPLANES.

DOUGLAS (Tulsa) "DT" & FORD (Hillman) "FO"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-24H-DT & FO -1 thru -15)	2) 2) .50 2)	600 250 400 508 600	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW BALL TRR. TAIL TURRET	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614
B-24H-DT & FO (-20 thru -30)	2) 2) .50 2) 2)	600 500b 400 508 600	NOSE TURRET S. WAIST..45 MT. UPPER TURRET LOW BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24H-DT (-1 thru -10) B-24H-FO (-1 thru -20)	B-24H-DT & FO AIRPLANES RECEIVE NEW B-24J DESIGNATIONS WHEN C-1 AUTOMATIC PILOT & M-9 BOMB SIGHT REPLACE A-5 AUTOMATIC PILOT & S-1 BOMB SIGHT.						
B-24H-FO (-1 thru -20)	ARMAMENT - BOMBS - FUEL SAME AS LISTED ABOVE.						
B-24H-FO (-1 thru -20)	2) 2) .50 2)	600 500 400	NOSE TURRET S. WAIST..45 MT. UPPER TURRET	4-2000 8-1600 8-1000	NONE	12800	3614
B-24H-FO (-1 thru -15)	2) 2)	508 600	LOW BALL TRR. TAIL-HAND HELD	12- 500 12- 250 20- 100			
B-24H-FO -1 (CANCELLED)	2) 2) .50 2) 2)	740 500 400 508 525	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW BALL TRR. TAIL TURRET	A S	A B O V E		

NOTES: a B-10 SHACKLES FOR 8-1600 LB. BOMBS START ON 2101st. FORD KNOCK-DOWN SET.
b B-24M-20's HAVE PROVISIONS FOR ONLY 250 ROUNDS PER GUN.

NORTH AMERICAN (DALLAS) "NT"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-24J-NT -1 thru -15)	3) 2) 2) .50 2) 2)	250 TOT. 250 400 508 600	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET LOW BALL TRR. TAIL TURRET	4-2000 8-1000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24J-NT (-1 thru -5)	2) 2) .50 2) 2)	600 250 400 508 600	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24J-NT (-10 thru -15)	A S	A B O V E					AS ABOVE
B-24J-NT (-1 & -5)	A	S	A	B	O	V	E

NOTES: a LOWER BALL TURRET ON 5th. & SUBSEQUENT; NO TUNNEL GUN ON 1st. 4 ARTICLES.
b B-24J-20-NT AIRPLANES ARE DESIGNATED B-24J-1, ETC. WHEN
C-1 AUTOMATIC PILOT & M-9 BOMB SIGHT REPLACE A-5 AUTO-
MATIC PILOT & S-1 BOMB SIGHT.

POSSIBLE THEATER INSTALLATIONS

LORAN	AN/APN-9
HOMING ADAPTER	AN/ARR-1
LOW ALT. ALTIMETER	AN/APW-1
LOW ALT. BOMBING	AN/APQ-5B
	AN/APQ-7 or
HIGH ALT. BOMBING	AN/APQ-13 or
	AN/APQ-15A
RADAR SEARCH	SCR-717
HIGH ALT. ALTIMETER	SCR-716
INTERROGATOR	SCR-729

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	PAGE 3 AS OF: 28 April 1945
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	L-LENGTH			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY			MAX. LOAD LB.	TYPE
B-24D (WITH BOMB BAY TANKS)	PRATT-WHITNEY R-1830-43 TURBO HAMILTON STD. 11'7" DIA. - 3 BL. P.F. HYDROMATIC	T 1200/31 M 1200/26500 C 1100/27000	S 110'0" L 66'4" H 18'0" T 25'8" W 101 1/2 SQ. FT.	B 35000 C 56000 A 56000 W 71200 B	10	10	MAIN - WINGS BOMB BAY	12-2364 2x 400 3164 TOT.	3) 2) 2) 1) 2)	100 250 400 100 600	NOSE - FLEX. SIDE WAIST-FL. UPPER TURRET TURREL - FLEX. TAIL TURRET	4-2000 8-1600 5-1000 12- 500 12- 250 20- 100	NONE	12800	SEE NOTE (A) ON PAGE 8 TECHNICAL ORDER 01-588-1. (25 DEC. 1944, REV.)		
B-24D (WITH WING TIP TANKS)	AS ABOVE EXCEPT R-1830-65 ENGINE ON B-24D-20-0F & B-24D-135-0G THRU -170-00.	AS ABOVE	AS ABOVE	B 37000 C 56000 A 56000 W 71200 B	10	10	MAIN - WINGS BOMB BAY	12-2364 2x 225 2x 400 3614 TOT.	3) 2) 2) 2) 2)	100 250 400 508 600	NOSE - FLEX. SIDE WAIST-FL. UPPER TURRET LOW BALL TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	A S A B O V E		
B-24G, H & J	PRATT-WHITNEY R-1830-65 ^a TURBO HAMILTON STD. 11'7" DIA. - 3 BL. P.F. HYDROMATIC	AS ABOVE SEE "b"	S 110'0" L 67'2" H 18'0" T 25'8" W 101 1/2 SQ. FT.	B 38000 C 56000 A 56000 W 71200 B	10	10	A S A B O V E		2) 2) 2) 2) 2)	500 250 400 508 600	NOSE TURRET SIDE WAIST-FL. UPPER TURRET LOW BALL TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	TECHNICAL ORDER 01-588-1 (REV. 30 JAN. 1945) ^a ENGINES IS R-1830-43 ON B-24G & 0-1-01; B-24H-1 & (152) B-5-0F; B-24J-1 & -5-0G; ALL B-24, BY DT. ^b LATEST AIRCRAFT HAVE NEW TURBO SUPERCHARGER TYPE (B-24) GIVING CRIT. ALTITUDE SAME AS SHOWN FOR B-24G & H. ^c FEW EXTERNAL BOMB BAYS WERE INSTALLED AT WED. CENTER.		
B-24L & M	PRATT-WHITNEY R-1830-65 TURBO HAMILTON STD. 11'7" DIA. - 3 BL. P.F. HYDROMATIC	T 1200/31 M 1200/31800 C 1100/31500	AS ABOVE	B 37500 C 56000 A 56000 W 71200 B	10	10	A S A B O V E		2) 2) 2) 2) 2)	600 500 400 508 600	NOSE TURRET SIDE WAIST-FL. UPPER TURRET LOW BALL TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	TECHNICAL ORDER 01-588-1 (REV. 30 JAN. 1945) ^a B-24L SERIES HAS HAND HELD FLEX. GUNS IN THE TAIL. B-24M SERIES HAS LIGHT WEIGHT TURRET IN TAIL.		
B-24N (CANCELLED)	PRATT-WHITNEY R-1830-75 TURBO HAMILTON STD. 11'7" DIA. - 3 BL. P.F. HYDROMATIC	T 1350/31 M 1350/30000 C 1100/31000	S 110'0" L 67'2" H 18'0" T 25'8" W 101 1/2 SQ. FT.	B 38500 C 56000 A 56000 W 71200 B	10	10	A S A B O V E		2) 2) 2) 2) 2)	740 500 400 508 525	NOSE TURRET SIDE WAIST-FL. UPPER TURRET LOW BALL THR. TAIL TURRET	A S	A B O V E	AS ABOVE	^w BASED ON B-24M WEIGHT.		

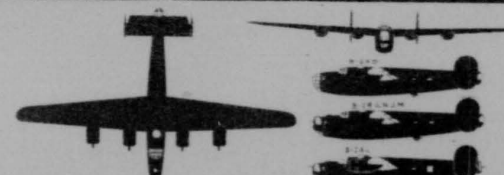
MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE						
	GROSS WEIGHT	TO CLEAR 50'		GROUND-RUN	WEIGHT	STD. ALT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE									
		T.O. DIST.	LAND. DIST.				T.O. DIST.	LAND. DIST.	FT.	M.P.H.				FT./MIN.	M.P.H.	FT./MIN.	TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.		AT 25000 FT.	AT 10000 FT.	AT 25000 FT.			
B-24D (WITH BOMB BAY TANKS)	40000 54000 59000 60000	- 1500 6200 6600	3300 4200 - -	90 103 - -	2800 3450 - -	56000	3000 25000 20000 15000 10000 5000	350 303 290 277 254 244	900 1000 1150 1200 1200	297 700 284 267 256 235	30.2 22.0 15.4 9.7 4.2	39000 53500 58500	NONE NONE 5000	3164 2364 2814 2364	1200 900 850	4.8 3.6 3.6	1350 1000 950	4.8 3.5 3.5	2100 1800 1750	10.9 8.1 8.0	2500 1900 1800	10.3 7.6 7.5	3200 2450 2300	18.0 13.7 13.0	*MAX. FERRY RANGE MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION IS 3 QT. TO 3 GAL/HR. DEPENDING ON TIME SINCE OVERHAUL.		
B-24D (WITH WING TIP TANKS)	40000 56000 59000 62000 64000	- - - - -	3300 4300 - - -	90 105 - -	2800 3550 - -	56000	3000 25000 20000 15000 10000 5000	350 303 290 277 254 244	900 1000 1150 1200 1200	297 700 284 267 256 235	30.2 22.0 15.4 9.7 4.2	41000 61000 66500	NONE NONE 5000	3614 3164 2814 2364	1200 900 850	4.8 4.1 3.6	1350 1200 950	4.8 4.1 3.5	2100 2050 1750	10.9 9.5 8.0	2500 2200 1800	10.4 9.2 7.5	3200 2750 2300	20.0 18.0 15.4 13.0	*PERFORMANCE DATA ABOVE 65000 LB. NOT AVAILABLE. (SEE NOTE B)		
B-24G, H & J	A S	A B O V E	A B O V E	A B O V E	A S	A B O V E	3000 25000 20000 15000 10000 5000	300 290 277 254 244	375 625 775 900 975 1025	290 275 267 256 245 235	200 800 725 11.4 5.3	65000** 62000 62500 61500	NONE NONE 5000	3614 3164 2814 2364	1150 900 1000 850	4.8 4.1 3.5	1350 1200 950	4.8 4.1 3.5	2200 1900 1600	10.7 9.5 7.9	2300 1950 1700	10.2 8.8 7.3	3300* 2900 2500 2100	18.2 16.4 14.0 11.7			
B-24L & M	A S	A B O V E	A B O V E	A B O V E	A S	A B O V E							64500 61500 62000 61000	NONE NONE 5000	3614 3164 2814 2364												
B-24N (CANCELLED)	56000 60000 64000	4100 4600 5300	- - -	- - -	2600 3100 3800																						

NOTES:

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.

* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

(B) TARE REPORTS INDICATE LOADINGS IN TERMS OF 65000 LB. ARE BEING USED. IT IS ABSOLUTELY ESSENTIAL THAT WING FUEL & OIL TANKS ARE FULL AT THESE WEIGHTS & THAT MANEUVERS BE KEPT TO A MINIMUM.



B-24
"LIBERATOR"

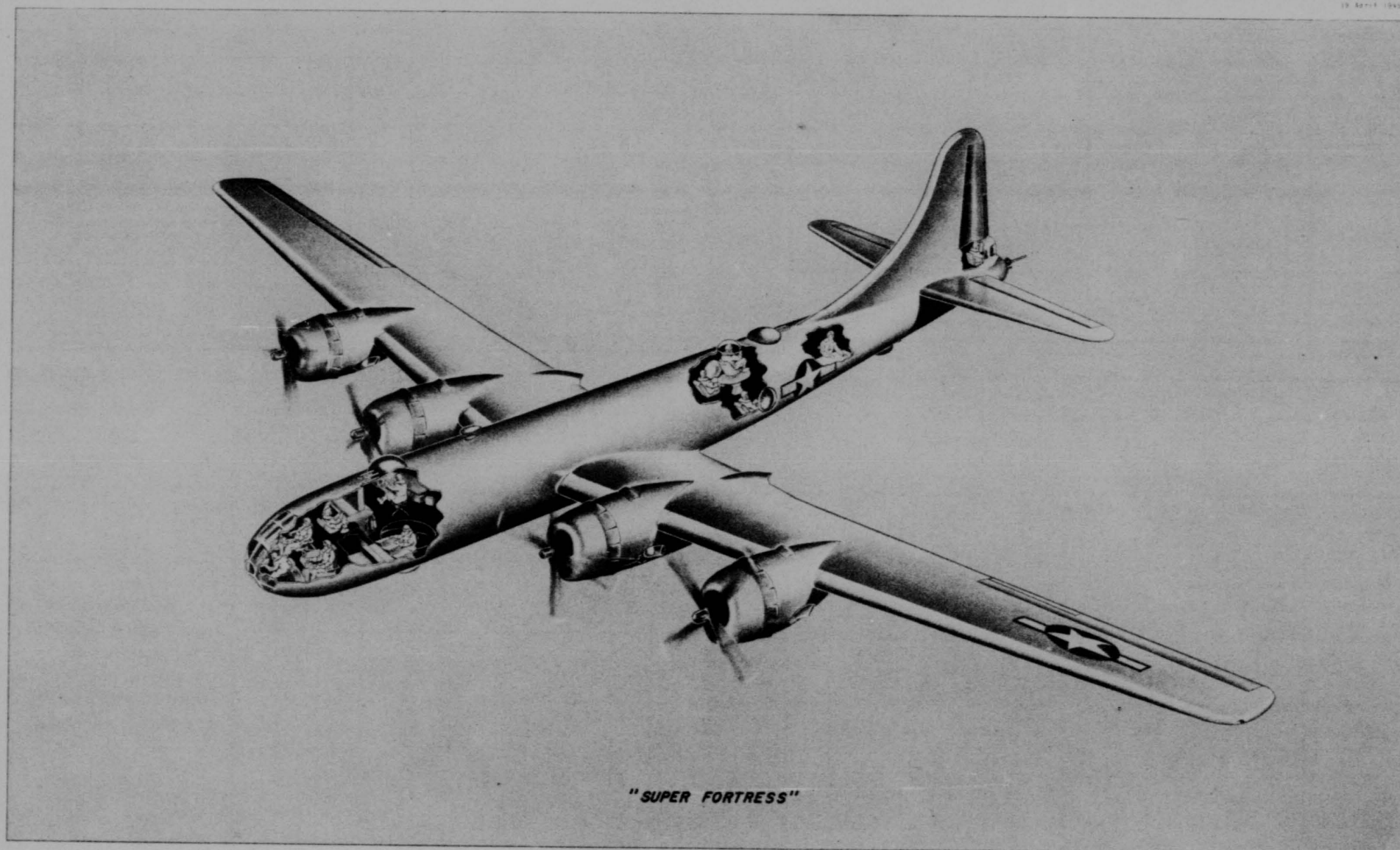
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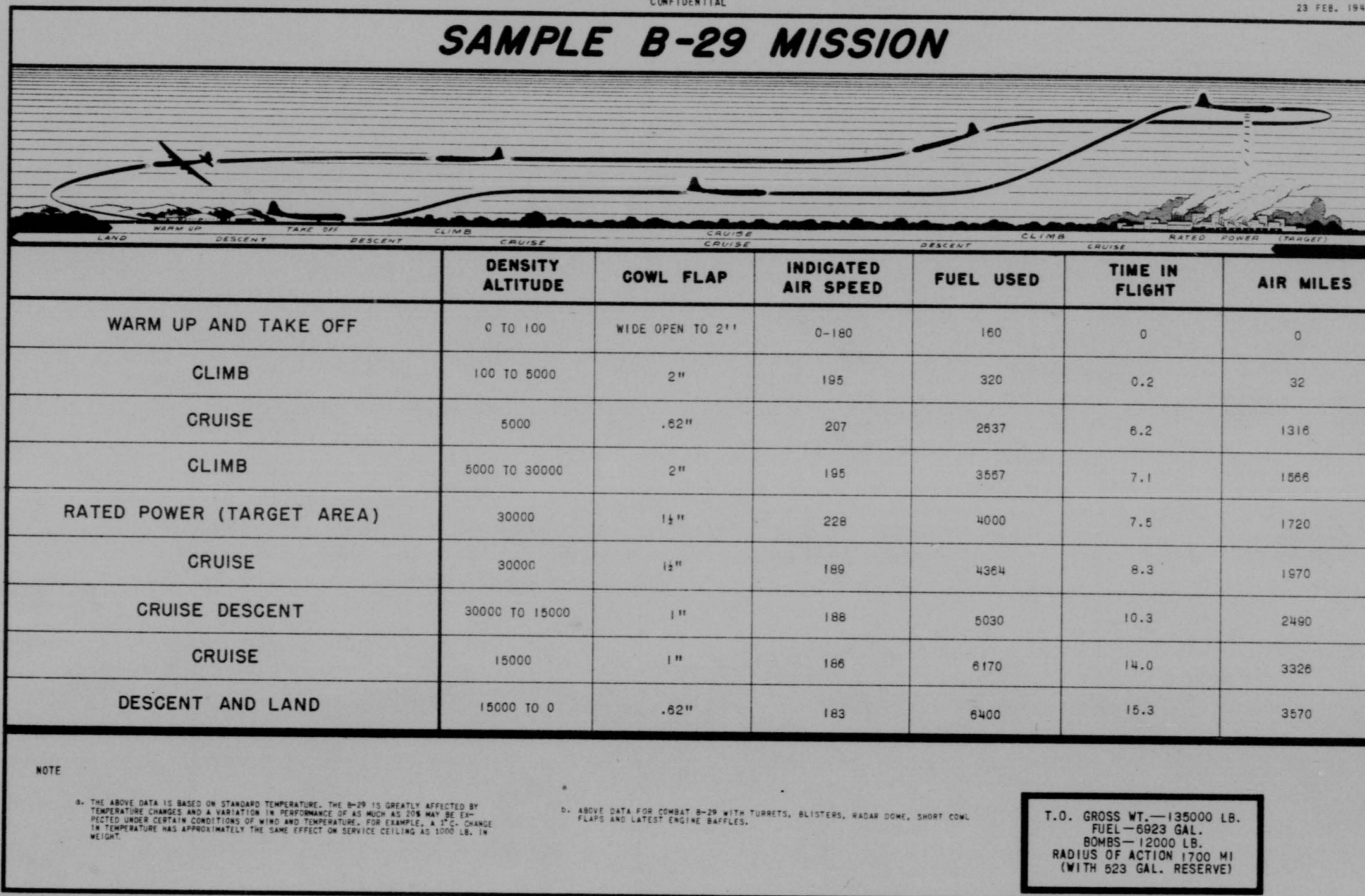


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SAMPLE B-29 MISSION

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BELL (ATLANTA) "BA"

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MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U.S. GALS)
B-29-BA -1	1-20MM. 2) 2) .50 2) 2)	100 1000* 1000* 1000*	TAIL, W, TYPE B UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	OUTER WINGS INNER WINGS BOMB BAY	11-2735 6-2073 1x 640	6160
B-29-BA -5 thru 1st-9 (-15)	A S	A B O V E		OUTER WINGS INNER WINGS CENTER WINGS BOMB BAY	11-2735 6-2073 4-1315 1x 640	9405
B-29-BA last 11 (-15) thru (+30)	1-20MM. 4) 2) .50 2) 2)	100 875* 1000* 1000* 1000*	TAIL, W, TYPE B UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	A S	A B C V E	
B-29-BA -35 thru -40	4) 2) 2) 2)	875* 1000* 1000* 1000*	UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	A S	A B C V E	
B-29-BA	2-.50	1000*	POWER TAIL HT.	A S	A B C V E	

NOTES: * FILLER STRIPS MAY BE ADDED IN AMMUNITION
CANS TO REDUCE ROUNDS TO 500 PER GUN.

BOMING (MEMPHIS) "BM"

MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U.S. GALS)
B-29-BM -1 thru -20	1-20MM. 4) 2) .50 2) 2)	100 1000* 1000* 1000* 1000*	TAIL, W, TYPE B UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	OUTER WINGS INNER WINGS BOMB BAY	11-2735 6-2073 1x 640	6160
B-29-BM -25 thru 1st-25 (-40)	A S	A B O V E		OUTER WINGS INNER WINGS CENTER WINGS BOMB BAY	11-2735 6-2073 4-1315 1x 640	9405
B-29-BM last 75 (-40) thru 1st-50 (-40)	1-20MM. 4) 2) .50 2) 2)	100 875* 1000* 1000* 1000*	TAIL, W, TYPE B UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	A S	A B C V E	
B-29-BM last 20 (-50) thru (+35)	4) 2) 2) 2)	875* 1000* 1000* 1000*	UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	A S	A B C V E	

NOTES: * FILLER STRIPS MAY BE ADDED IN AMMUNITION
CANS TO REDUCE ROUNDS TO 500 PER GUN.

RESTRICTED

B-29 (MEMPHIS) "BM"

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MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U.S. GALS)
B-29-BM -1	1-20MM. 2) 2) .50 2) 2)	100 1000* 1000* 1000*	TAIL, W, TYPE B UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	OUTER WINGS INNER WINGS BOMB BAY	11-2735 6-2073 1x 640	6160
B-29-BM -5 thru 1st-11 (-10)	A S	A B O V E		OUTER WINGS INNER WINGS CENTER WINGS BOMB BAY	11-2735 6-2073 3-1120 1x 640	9205
B-29-BM last 9 (-10) thru (+15)	2) 2) 2) 2)	1000* 1000* 1000* 1000*	UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	A S	A B C V E	
B-29-BM -20 & +30	4) 2) 2) 2)	875* 1000* 1000* 1000*	UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. POWER TAIL HT.	A S	A B C V E	

NOTES: * FILLER STRIPS MAY BE ADDED IN AMMUNITION
CANS TO REDUCE ROUNDS TO 500 PER GUN.

MARTIN (MEMPHIS) "MA"

MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U.S. GALS)
B-29-MA -1 thru 1st-9 (-20)	1-20MM. 4) 2) .50 2) 2)	100 875* 1000* 1000* 1000*	TAIL, W, TYPE B UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	OUTER WINGS INNER WINGS CENTER WINGS BOMB BAY	11-2735 6-2073 4-1315 1x 640	9405
B-29-MA last 19 (-20) thru +35	4) 2) 2) 2)	875* 1000* 1000* 1000*	UPPER FORE TRM. UPPER REAR TRM. LOWER FORE TRM. LOWER REAR TRM. TAIL POWER HT.	A S	A B C V E	

NOTES: * FILLER STRIPS MAY BE ADDED IN AMMUNITION
CANS TO REDUCE ROUNDS TO 500 PER GUN.

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	ENGINE MFGR. MODEL	B.H.P./ALT.	S-SPAN	L-LENGTH	B-BASIC		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.		TYPE
												T-TAKE-OFF	L-LENGTH			
B-29 & A (COMBAT AIRPLANE)	WEIGHT R-3350-23A, -41, -57, -59. TURBO HAMILTON STD. 16" DIA., -4BL. P.F., HYDROMATIC	T 2200/5 L M 2300/ - C M 2200/25000 P C 2000/25000 P	S 141' 3" L 99' H 29' 7" T 31' 6" W 1736 sq.	B 75000 C 120000 W 135000 B	11 12	11-2735 8-2873 4-1315 4x 60 9483 TOT.	4) (B) 2) 2) .50 2) 2)	500 500 500 500	UPPER FORE THR. UPPER REAR THR. LOWER FORE THR. LOWER REAR THR. TAIL POWER MT.	4-4000 6-2000 12-1600 12-1000 40- 500		20000	SEE NOTE (A)	TECHNICAL ORDER 01-206J-1. (LATEST ISSUE NOW BEING PREPARED)		
B-29B (STRIPPED AIRPLANE)	AS ABOVE	AS ABOVE	AS ABOVE	B 72700 C 120000 W 135000 B	10	AS ABOVE	2-.50	500	TAIL POWER MT.	A C	A B C V I	AS ABOVE	AS ABOVE	A S A B O V E		

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT										RANGE & ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS
	GROSS WEIGHT LB.	TO CLEAR 50 FT.		GROUND-RUN		WEIGHT LB.	STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS-CARGO-PASS. LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
		T.O. DIST. FT.	LAND. DIST. FT.	T.O. DIST. FT.	LAND. DIST. FT.			HIGH SPEED FT/MPH	RATE OF CLIMB FT/MIN	HIGH SPEED FT/MPH	RATE OF CLIMB FT/MIN	HIGH SPEED FT/MPH	RATE OF CLIMB FT/MIN				TIME TO CLIMB MIN.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	
B-29 & A (COMBAT AIRPLANE)	80000 90000 100000 110000 120000 135000	- - 1550 5700 7150 9500	4350 105 110 115 120 170	- - 3100 3850 4900 5700	- - - - - -	30000 25000 20000 15000 10000 5000	357 346 344 332 321 306	100 350 675 750 825 900	351 340 338 326 316 301	300 300 300 300 300 300	362 350 339 325 305 258	150 300 425 500 575 650	72.0 52.0 38.0 26.0 16.0 8.0	133000 135000 127000 120000 135000	NONE 12000 4000 3000 20000	8203 6923 6688 5608 5608	1800 1800 1500 1500 1150	6.0 6.0 5.9 4.9 4.9	1950 2000 1600 1500	6.0 6.0 7.7 7.7 7.6	2500 3550 2650 2100 2050	9.5 9.4 7.7 7.7 7.6	2500 2650 1100 1100 1950	6.7 8.9 7.2 7.2 6.9	4250 2700 3600 3200 2650	20.8 16.4 17.7 14.6 12.0	
B-29B (STRIPPED AIRPLANE)	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	30000 25000 20000 15000 10000 5000	367 351 346 332 321 306	100 350 675 750 825 900	361 346 345 332 321 306	300 300 300 300 300 300	362 350 339 325 305 258	150 300 425 500 575 650	72.0 52.0 38.0 26.0 16.0 8.0	132000 135000 127000 120000 135000	NONE 12000 4000 3000 20000	8213 6923 6688 5608 5608	1850 1850 1500 1500	6.0 6.0 4.9 4.9	1950 2000 1600 1500	6.0 6.0 7.7 7.7	2500 3550 2650 2100	9.5 9.4 7.7 7.7	2500 2650 1100 1100	6.7 8.9 7.2 7.2	4250 2700 3600 3200	21.8 17.1 17.9 14.6 13.7	PERFORMANCE GIVEN WITHOUT "LARGE HEAD"

NOTES:

(A) RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.

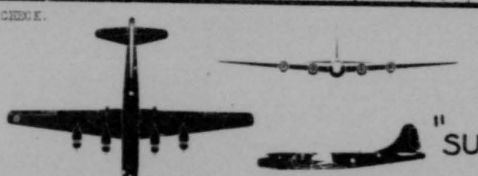
(B) HIGHER LOADINGS ARE STRUCTURALLY POSSIBLE BUT WEIGHT SHOULD NOT EXCEED 138000 LB. BECAUSE OF FLIGHT CHARACTERISTICS.

(C) APPLIES ONLY TO AIRCRAFT WITH PROPELLER-GOVERNOR COMBINATION AS PRESCRIBED IN T.O. 01-206J-92.

(D) RATINGS GIVEN WITHOUT RAM.

(E) SEE PAGE OPPOSITE FOR VARIATIONS IN FUEL & ARMAMENT.

(F) OUTBOARD TREAD...31'6" ; INBOARD TREAD...25'5"



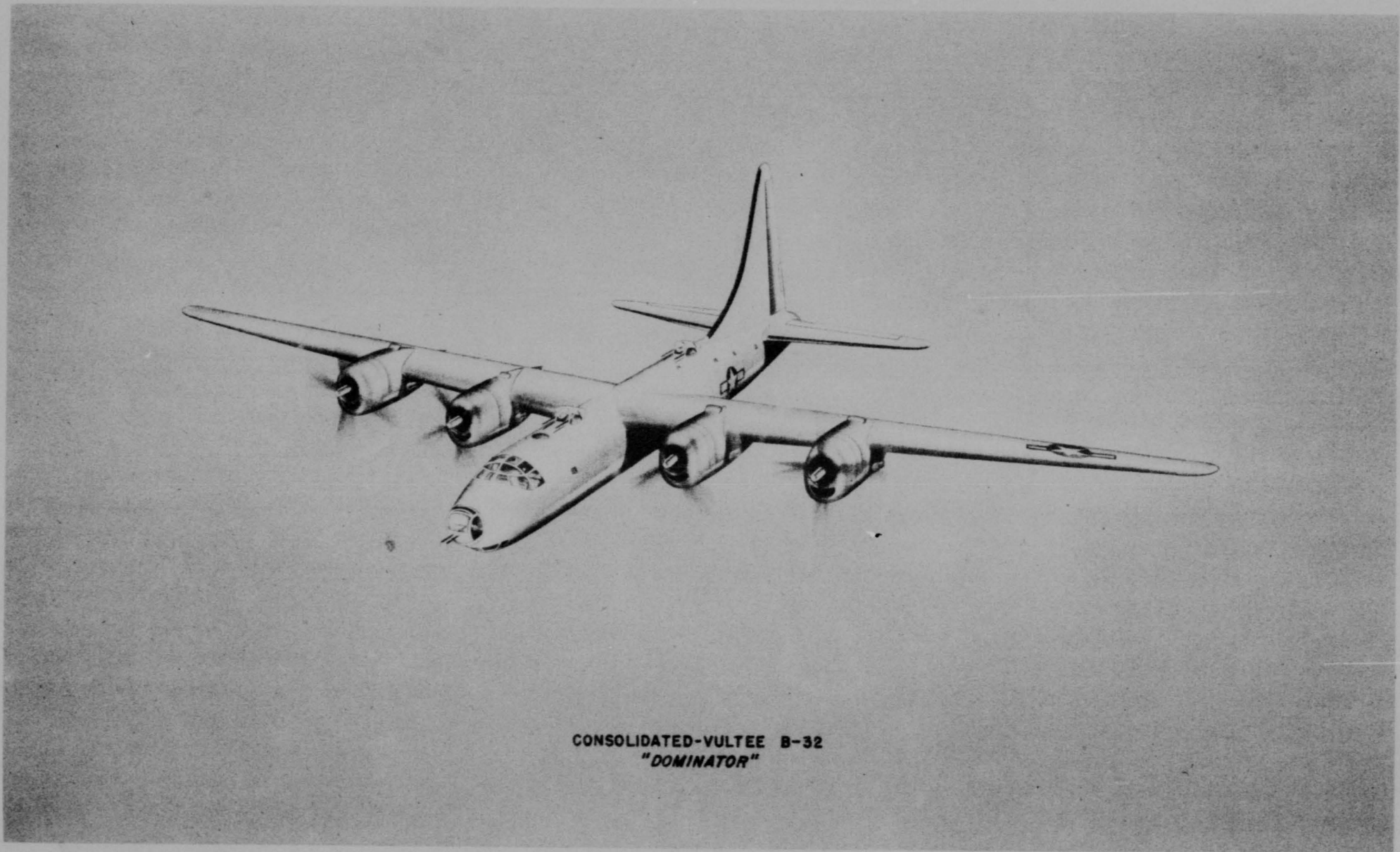
B-29
"SUPER FORTRESS"

MANUFACTURED BY BELL (Atlanta) "BA"; BOEING (Renton) "B"; BOEING (Wichita) "BW" & MARTIN (Omaha) "M"

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PAGE 146
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25 JAN 1945



CONSOLIDATED-VULTEE B-32
"DOMINATOR"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA			B-BASIC C-COMBAT W-WAR MAX		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	RDS. PER GUN	LOCATION & TYPE	INTERNAL			MAX. LOAD LB.	TYPE
			T-TAKE-OFF M-MILITARY C-CONTINUOUS	T-TAKE-OFF M-MILITARY C-CONTINUOUS	T-TAKE-OFF M-MILITARY C-CONTINUOUS	T-TAKE-OFF M-MILITARY C-CONTINUOUS		NO. & SIZE	NO. & SIZE									
B-32-CF -1 to -35 INCL.	4	WRIGHT R-3350-23 TURBO CURISS 16" DIA. - 4 BL. CONST. SPEED ELECTRS	T 2200/8 L M 2200/34000	S 135' 0" L 82' 1" H 33' 0" T 28' 0" W 1122 SQ. FT.	B 62500 C 100000	10	WING-INTRD. WING-CUTED. BOMB BAY	6 - 1725 6 - 1005 2 x 750	2) 2) 2)	365 ^a 400 550 1000	NOSE TURRET FRONT TOP TRR. REAR TOP TRR. LOW BALL TRR. TAIL TURRET	4-14000 8-2000 8-1600 12-1000 40- 500	NONE	20000	SEE NOTE (A)	TECHNICAL ORDER 01-584-1 (5 MARCH 1945) * SPACE PROVISIONS FOR 600 LB./GUN; SERIAL RAS SHOWN. † BEGINNING WITH B-32-25-CF, PROVISIONS FOR INSTALLATION OF 2 BOMB BAY TANKS; 4 BOMB BAY TANKS CAN BE CARRIED IF SPECIAL INSTALLATION IS MADE.		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT								RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS		
	GROSS WEIGHT LB.	TO CLEAR 50'		GROUND RUN T.O. DIST. FT.	WEIGHT LB.	STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE					
		T.O. DIST. FT.	LAND. DIST. FT.				LANDING SPEED FT. MPH.	HIGH SPEED M.P.H.	RATE OF CLIMB FT./MIN.	HIGH SPEED M.P.H.	RATE OF CLIMB FT./MIN.	HIGH SPEED M.P.H.				RATE OF CLIMB FT./MIN.	TIME TO CLIMB MIN.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.		AT 25000 FT.	
		RANGE MILES	ENDUR. HOURS				RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS				RANGE MILES	ENDUR. HOURS								
B-32-CF -1 to -35 INCL.	80000	3150	1100	96	2500	25000	N	364	650	750	125	38.3	111500	NONE	6960	1850	5.1	1650	4.9	2750	10.5	2900	9.9	1400	21.4
B-32-CO	90000	4000	1550	106	3100	20000	N	356	825	550	28.7	109000	8000	5460	1550	5.1	1650	4.9	2750	10.5	2900	9.9	1400	21.4	
	100000	5000	5000	118	3800	15000	N	322	950	322	750	21.6	119500	8000	6960	1900	6.5	3000	5.6	3450	13.5	3400	12.5	1150	19.0
	110000	6200	-	-	4700	10000	N	302	1150	203	950	8.1	121000	20000	5460	1450	5.0	1450	5.0	2600	10.2	2450	9.4	3000	12.9
	120000	8350	-	-	5950	5000	N	296	1200	275	8	3.4													

- NOTES: (A)
- CS-274 COMMAND SET
 - CS-405 IFF
 - SU-4768 EMERGENCY TRANSMITTER
 - CS-724 AIRBURN INTERROGATOR
 - WC-153
 - AN-108-1 R/W NO. LANDING
 - WC-230
 - AN-108-7 REAR BEACON
 - AN-108-1 RADIO FILTERS
 - AN-108-1 RADIO COMPASS
 - AN-108-1 LOW ALT. RADIO ALTIMETER
 - AN-108-1 LAS
 - AN-108-1 STC
 - AN-108-1 ICRAN
 - AN-108-1 STATIC DISCHARGER
 - AN-108-1 RTSPHONE
 - AN-108-1 PROVISIONS

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK
 * MILITARY POWER AVAILABLE FOR 5 MINUTES.
 (B) MAX. HEIGHT HAS BEEN TENTATIVELY RESTRICTED TO 10000 FT. PENDING COMPLETION OF STATIC TESTS.



B-32
"DOMINATOR"

MANUFACTURED BY CONSOLIDATED-VULTURE (San Diego) "CO" MANUFACTURED BY CONSOLIDATED-VULTURE (Ft. Worth) "CP"

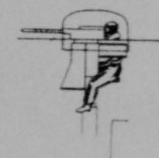
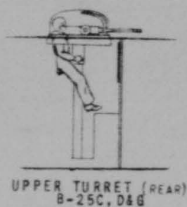
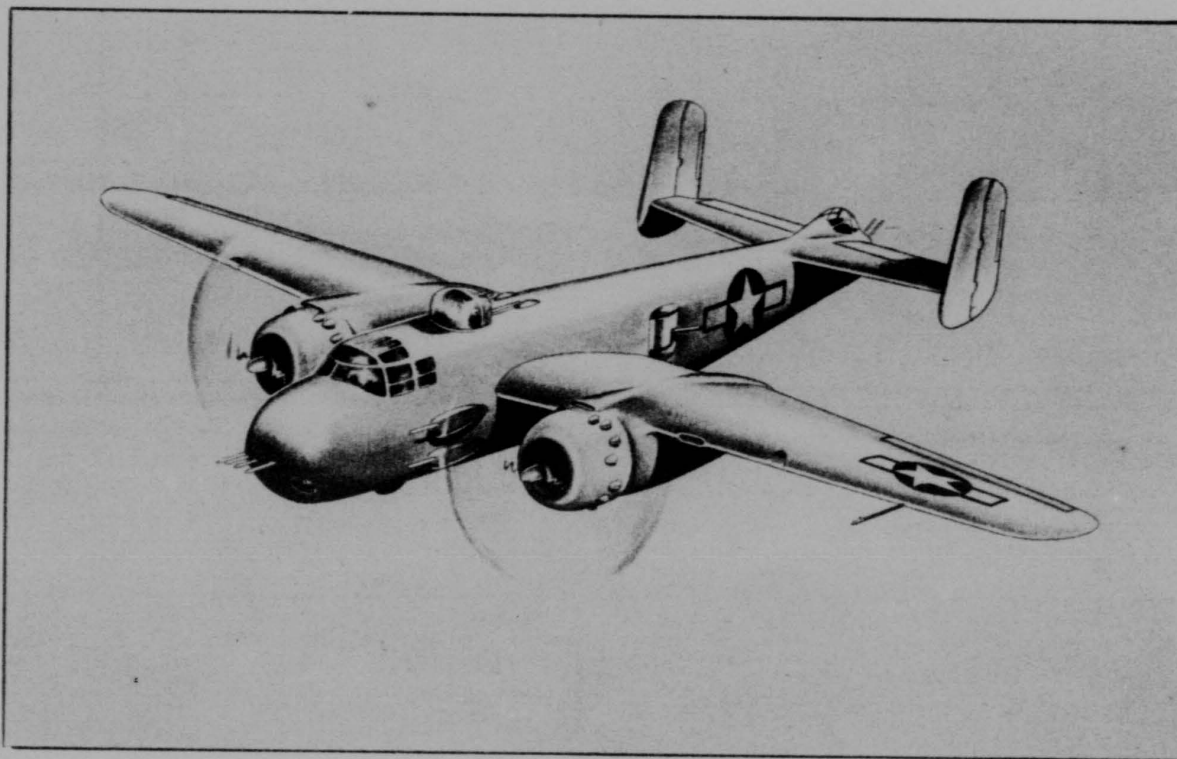
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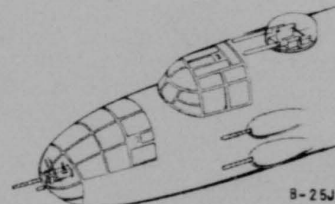
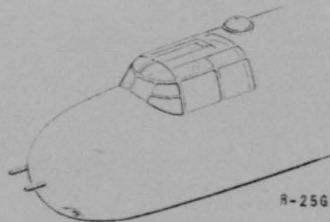
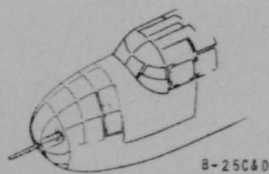
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PAGE 16
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25 JAN. 1945

B-25 MITCHELL BOMBER



B-25H



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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28 April 1945

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE			
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	BHP/ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA W-WING MAX.	B-BASIC C-COMBAT W-WEIGHT		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.		TYPE		
B-25C & D (NA & NC)	2	WRIGHT R-2600-13 2 SPD. SUPERCH. HAMILTON STD. 12"7" DIA. - 3 BL. F.P. HYPERMATIC	T 1700/ S L 1850/ S L M 1700/ L 900 C 1500/ 6700 1150/ 13000	S 67'6" L 52'8" H 15'9" T 19'4" W 61'0" DIA.	B 20500 C 29500 W 41800B	5	MAIN - WINGS 2 x 184 MAIN - WINGS 2 x 151 BOMB BAY 1 x 585 SEE (f)	1-30 2-50 2-50	600 400 350	NOSE - FLEX. UPPER TURRET LOWER TURRET	1-2000 2-1000 6- 500 8- 250 12- 100	NONE	5000	SEE (A)	TECHNICAL ORDER 01-600B-1. (REV. 15 JULY 1944) f) FUEL CAPACITY OF LAST 102(B-25C's) SAME AS BELOW. g) LENGTH OF B-25C AIRPLANES IS 53 FT.			
B-25C-NA -1 TO -25 INCL. B-25D-NC -1 TO -35 INCL.	2	AS ABOVE	AS ABOVE	AS ABOVE	B 23000 C 33500 W 41800B	5	MAIN - WINGS 2 x 184 MAIN - WINGS 2 x 151 AUX. - WINGS 6 x 30L SIDE WAIST 1 x 125 BOMB BAY 1 x 585 SEE (f)	1) 1) 2) 2)	300 300 400 350	NOSE - FLEX. NOSE - FIXED UPPER TURRET LOWER TURRET	1-2000 2-1000 3-1000 6- 500 8- 250 12- 100	2-1500 6- 250 8- 100 SEE (C)	5200	AS ABOVE	TECHNICAL ORDER 01-600B-1. (REV. 15 JULY 1944) a) B-25C-1 & D-1 AIRPLANES SAME AS BELOW; LOWER TURRET ON SOME AIRPLANES ONLY. b) ARMOR PIERCING BOMBS ON SOME MODELS ONLY. c) B-25C-25 & D-25 THRU -35 FUEL CAPACITY SAME AS BELOW: 1x125 GAL. SIDE WAIST TANK ON B-25C SERIES ONLY. TECHNICAL ORDER 01-600C-1. (REV. 10 DEC. 1944) a) LOWER TURRET ON SOME MODELS ONLY. c) BOMB BAY FUEL CONSISTS OF 1x215 GAL. SELF SEALING REMOVABLE TANK & 1x335 GAL. METAL DRUMMABLE TANK; 1x565 GAL. METAL TANK IS INTERCHANGEABLE.			
B-25G-NA -1 TO -10 INCL.	2	AS ABOVE	AS ABOVE	AS ABOVE	B 21700 C 33500 W 41800B	4	MAIN - WINGS 2 x 184 MAIN - WINGS 2 x 151 AUX. - WINGS 6 x 30L SIDE WAIST 1 x 125 BOMB BAY 1 x 585 SEE (f)	1-75MM 2) 2)	21 400 400 350	NOSE CANNON M. NOSE - FIXED UPPER TURRET LOWER TURRET	A	S	A	B	O	V	E	TECHNICAL ORDER 01-600C-1. (REV. 10 DEC. 1944) a) LOWER TURRET ON SOME MODELS ONLY. c) BOMB BAY FUEL CONSISTS OF 1x215 GAL. SELF SEALING REMOVABLE TANK & 1x335 GAL. METAL DRUMMABLE TANK; 1x565 GAL. METAL TANK IS INTERCHANGEABLE.
B-25H-NA -1 TO -10 INCL.	2	WRIGHT R-2600-13 or -29 2 SPD. SUPERCH. HAMILTON STD. 12"7" DIA. - 3 BL. F.P. HYPERMATIC	AS ABOVE	AS ABOVE	B 22000 C 33500 W 41800B	5	MAIN - WINGS 2 x 184 MAIN - WINGS 2 x 151 AUX. - WINGS 6 x 30L SIDE WAIST 1 x 125 BOMB BAY 1 x 585 SEE (f) or 1064.107	1-75MM 2) 2)	21 400 400 350	NOSE-TYPE 113E NOSE - FIXED FOUR - PACKAGE SIDE WAIST-FL. UPPER TURRET TAIL POWER MT.	1-2000 2-1600 3-1000 6- 500 8- 250 12- 100	1-2000T	3200	SEE (C)	SCR-27LN SCR-259G SCR-287 SCR-522 SCR-578 SCR-695 RC-36	TECHNICAL ORDER 01-600B-1. (10 DEC. 1944) a) SOME B-25B-1's CARRY ONLY 2 NOSE PACKAGE GUNS. b) THE 2000 LB. BOMB STATION DELETED ON 131st AIRPLANE OF BLOCK (-) AND SUBSEQUENT. c) BOMB BAY FUEL SAME AS LISTED FOR B-25C's ABOVE.		
B-25J-NC -1 TO -35 INCL.	2	AS ABOVE	AS ABOVE	AS ABOVE	B 21100 C 33500 W 41800B	6	AS ABOVE	1) 2) 2) 2) 2)	300 300 400 250 400 500	NOSE - FLEX. NOSE - FIXED FOUR - PACKAGE SIDE WAIST-FL. UPPER TURRET TAIL POWER MT.	AS ABOVE EXCEPT THAT 2000# BOMB STATION IS DELETED ON 151st B-25J-1 AND SUBSEQUENT MODELS.				SCR-27LN SCR-259G SCR-287 SCR-522 SCR-578 SCR-695 RC-36	TECHNICAL ORDER 01-600C-1. (25 DEC. 1944) *SCR-269G IS REPLACED BY AN/ARN-7 ON B-25J-15 & SUBSQY.		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE				
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH	GROUND-RUN		WEIGHT LB.	STD. ALT. FT.	MIL. POWER MPH	MAX. CONTIN. POWER MPH	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.								AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	RANGE MILES		ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES
B-25C & D (NA & NC)	25000 30000 32000 34000	- 3600 4700 5500	3300 3650 3900 -	99 108 112 -	1550 1800 2000 -	20000 15000 10000 5000 S L	267 286 284 283 266	- - 900 1250 1150	262 283 279 276 260	175 590 9.5 4.2 0.0	30000 30000 39500	NONE NONE 3000	1895 1599 870	950 700 650 500	3.5 2.8 2.8 1.8	- - - -	1475 1050 950 750	6.3 5.3 4.2 3.2	- - - -	1850 1500 1350 925	9.3 7.6 7.4 6.7				
B-25C-NA -1 TO -25 INCL. B-25D-NC -1 TO -35 INCL.	24000 27000 30000 33000 35000	- 2850 4000 5250 6000	3250 3500 3750 -	105 110 112 -	1500 1650 1850 -	20000 15000 10000 5000 S L	265 264 263 262 264	- - 1150 1200	260 290 276 274 257	- 16.5 9.5 4.3 0.0	34000 34000 32200 32200 35000	NONE NONE 974 974 974	1649 1599 700 650 600	- - 2.8 2.8 2.8	- - - -	- - 1050 950 875	- - 5.3 4.2 4.1	- - - -	- - - -	2790 2150 1900 1350 1125	13.4 12.3 7.6 7.4 6.2	*STRIP TO 35000 LB. LIMITING WEIGHT.			
B-25G-NA -1 TO -10 INCL.	A	A	A	B	D	V	E																		*CAPACITY OF 1189 GAL. INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. OF BOMBS ONLY or 1x2000 LB. TORPEDO.
B-25H-NA -1 TO -10 INCL.	A	B	A	D	V	E																			*CAPACITY OF 1189 GAL. INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. OF BOMBS ONLY or 1x2000 LB. TORPEDO. **STRIP TO 35000 LB. LIMITING WEIGHT. ***HIGH TIP SPEED LOSS
B-25J-NC -1 TO -35 INCL.	A	C	A	B	D	V	E																		*CAPACITY OF 1189 GAL. INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. OF BOMBS ONLY or 1x2000 LB. TORPEDO.

- NOTES: (A) 24 VOLT RADIO SYSTEM
- SCR-211 FREQUENCY METER
 - SCR-269G RADIO COMPASS
 - SCR-27LN COMMAND SET (or SCR-522)
 - SCR-287A LIAISON SET
 - SCR-535 SET (or SCR-595 or SCR-695)
 - SCR-578 EMERGENCY TRANSMITTER
 - RC - 32 FILTER EQUIPMENT (or RC-198)
 - RC - 43B MARKER BEACON
 - RC - 105 BLIND LANDING (Provisions only)
 - RC - 140 CONTACTOR UNIT
 - RC - 36 INTERPHONE AMPLIFIER

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.
* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

(B) TAKE OFF & FLIGHT CHARACTERISTICS ARE CRITICAL ABOVE 35000 LB.

(C) TORPEDOES BEING USED IN LIMITED QUANTITIES ONLY.

(D) TIME TO CLIMB BASED ON MAX. CONTINUOUS POWER ONLY.



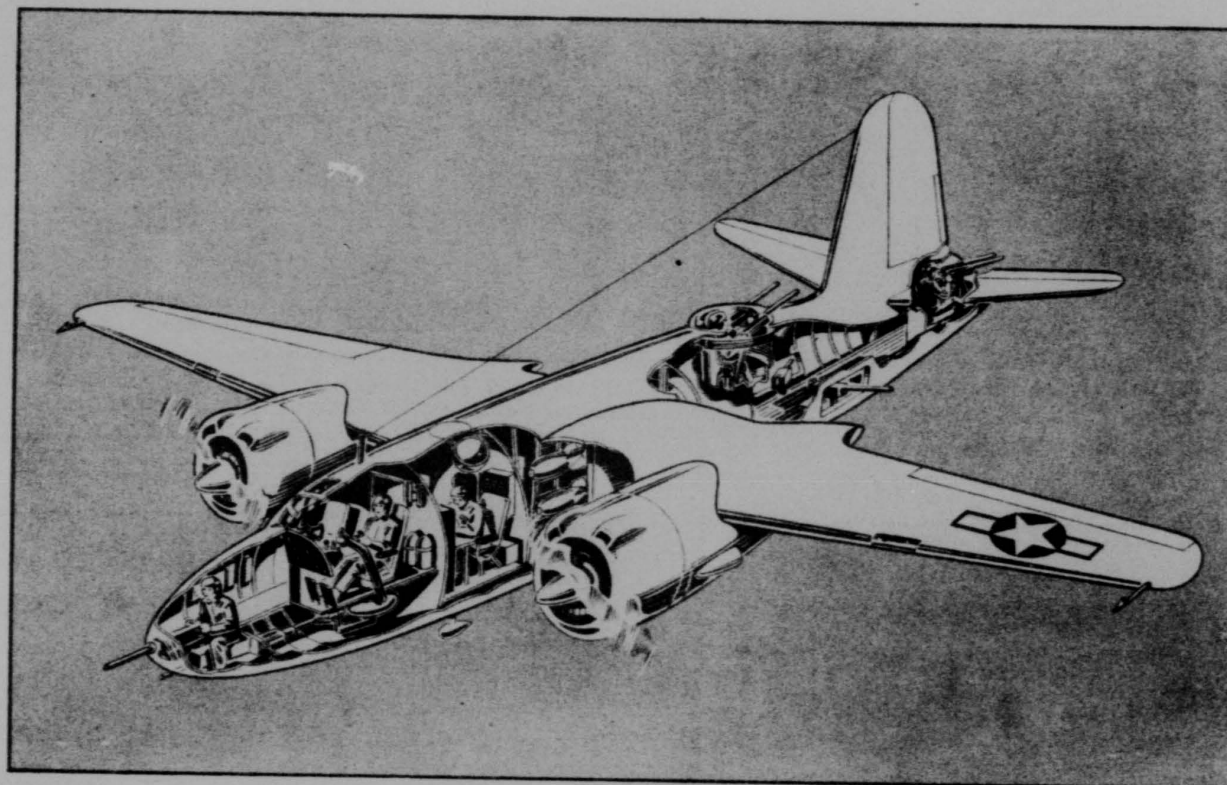
B-25
"MITCHELL"

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PAGE 18
AS OF:
25 JAN. 1945

RESTRICTED



B-26 "MARAUDER"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA		B-BASIC C-COMBAT W-WEIGHT	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS PER GUN	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL		MAX. LOAD LB.	TYPE
			T-TAKE-OFF	M-MILITARY									C-CONTINUOUS	NO. & SIZE STATION			
B-26 B-MA B,-2,-3&-4	2	PRATT-WHITNEY R-2600-5e 2 SPD. SUPERCH. CURTISS 13'6" DIA. - 4 BL. P.P. ELECTRIC	T 1850/ S L M 1850/ 2700 C 1500/ 7800	S 55'0" L 58'13" H 19'10" T 22'0" W 602 sq. ft.	B 23500 C 35000 W 36500	6	MAIN - WINGS AUX. - WINGS B. BAY - (PORE)	2 x 360 2 x 121 2 x 250 1162 TOT	1-.30 1-.30 2-.50 2-.50	600 600 1500 1400	NOSE - FLEX. TUNNEL - FLEX. TAIL - FLEX. MT. UPPER TURRET SIDE WAIST - FL.	2-2000 2-1600 4-1000 8- 500 16- 250 30- 100	1-2000 (TORPEDO)	2-1600 1-2000T 5200 (B)	SEE (A)	TECHNICAL ORDER 01-358A-1. (REV. 5 SEPT. 1944) a SIDE WAIST GUNS ADDED TO LAST 111 (44) ONLY. * B-26B-MA HAS -5 ENGINE; B-26B-2-MA HAS -41 ENGINE & B-26B-3 & -4 HAS -43 ENGINE.	
B-26 B-MA -10 TO -20 INCL B-26 C-MO -5 TO -25 INCL	2	PRATT-WHITNEY R-2600-13 2 SPD. SUPERCH. CURTISS 13'6" DIA. - 4 BL. P.P. ELECTRIC	T 1920/ S L M 1920/ 3200 C 1550/ 7100	S 71'0" L 58'13" H 21'6" T 22'0" W 659 sq. ft.	B 25300 C 37000 W 38200	6	MAIN - WINGS AUX. - WINGS BOMB BAY - (PORE & REAR)	2 x 360 2 x 121 4 x 250 1962 TOT	1) 2) 2) 2)	200 270 250 250 400 800	NOSE - FIXED NOSE - FLEX. SIDE WAIST - FL. U. POS. - PACKAGE L. POS. - PACKAGE UPPER TURRET TAIL - POWER MT.	A S A B O V E	A S A B O V E	AS ABOVE	TECHNICAL ORDER 01-358B-1. (REV. 5 SEPT. 1944) a-B-26B-10;-15 & C-5 HAVE FLEX. TAIL MOUNT INSTEAD OF POWER MOUNT. & HGS./GUN SAME AS B-26B-2-MA. * BASIC WEIGHT OF B-26B-15 IS 21500 LB.		
B-26 B-MA -25 TO 55 INCL B-26 C-MO -30 & -45 INCL	2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	6	MAIN - WINGS AUX. - WINGS BOMB BAY - (PORE ONLY)	2 x 360 2 x 121 2 x 250 1162 TOT	A S	A B O V E	SEE (a)	2-2000 2-1600 4-1000 b 6- 500 b10- 250 b20- 100	1-2000 (TORPEDO)	2-1600 1-2000T 5200 (B)	NOTE (A) plus RC-105 & SCR-522	REFERENCE AS ABOVE a-FIXED NOSE GUN DELETED ON LATEST B-26B's and B-26C-15. b-ALL MODELS EXCEPT 1st.75(B-26C-30) CARRY LESS BOMBS DUE TO DELETION OF 2 REAR BOMB BAYS. * RC-105 & SCR-522 ADDED TO LATEST MODELS ONLY.	
B-26F-MA -1,-2 & -6 B-26G-MA -1 TO -25	2	AS ABOVE	AS ABOVE	S 71'0" L 56'1" H 20'4" T 22'0" W 658 sq. ft.	B 25500 C 37000 W 38200	6	MAIN - WINGS AUX. - WINGS BOMB BAY - (PORE ONLY)	2 x 380 2 x 120 2 x 250 1500 TOT	1) 2) 2) 2)	300 275 225 400 900	NOSE - FLEX. SIDE WAIST - FL. U. POS. - PACKAGE L. POS. - PACKAGE UPPER TURRET TAIL - POWER MT.	A S A B O V E	NONE	4000	AS ABOVE	TECHNICAL ORDER 01-358C-1. (15 OCT. 1944) * B-26G DESIGNATION IS USED FOR AIRPLANES WITH AN FITTINGS; NO OTHER MAJOR CHANGES.	

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT				RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE							
	GROSS WEIGHT	TO CLEAR 50'		LANDING SPEED	GROUND RUN		WEIGHT	STD. ALT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
		T.O. DIST.	LAND. DIST.		T.O. DIST.	LAND. DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.		AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	RANGE	ENDUR.	RANGE
B-26 B-MA B,-2,-3&-4	25000 28000 32000 35000 36000	- 2500 3250 4200 4300	2500 2900 3500 -	110 120 130 -	1850 2100 2600 -	20000 15000 10000 5000	270 298 291 294	300 750 1000 1150	265 294 288 283	200 600 900 #	26.5 14.0 7.7 3.4	34000 35500 36000 35000	NONE NONE 2000T 4000	1162 1162 1162 962	950 900 -	3.2 -	- -	- -	- -	- -	- -	- -	- -	2000 1950 1900 1250	9.9 9.7 9.5 6.3	
B-26 B-MA -10 TO -20 INCL B-26 C-MO -5 TO -25 INCL	28000 32000 35000 36000	- 3050 4400 6100	2200 2100 -	135 136 -	1050 1200 -	20000 15000 10000 5000	- 282 278 285	- - - 1000	- 273 271 269	- 320 550 #	28.6 11.2 4.1 0.0	*38200 37800 *38200 36300 36100	NONE NONE 1500 2000T 4000	1962 1162 1000 962 962	1125 1000 1000 -	5.2 3.8 3.8 -	- -	2375 1725 1700 -	10.6 7.8 7.8 -	- -	- -	- -	- -	2600 1825 1800 -	13.3 9.2 9.2 -	* MUST BE STRIPPED TO 36200 LB.
B-26 B-MA -25 TO -55 INCL B-26 C-MO -30 & -45 INCL	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	37000	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	37800 34100 36300 38100	NONE NONE 2000T 4000	1162 962 962 962	1000 550 -	3.8 2.4 -	- -	1725 1125 -	7.8 4.9 -	- -	- -	- -	- -	1825 1250 -	9.2 6.3 -	
B-26F-MA -1,-2 & -6 B-26G-MA -1 TO -25	25000 20000 15000 10000 5000	- -	- -	- -	- -	37000	255 274 277 281	- - - 1000	258 274 269 259	- 350 390 650	- - 17.2 8.1	38000 36200 34200 *38200	NONE NONE 1000 4000	1050 875 675 675	3.9 3.3 2.5 2.6	- -	1775 1500 1175 1100	8.0 6.5 5.1 5.1	- -	- -	- -	- -	1675 1600 1300 1185	9.6 8.1 6.6 5.7	* MUST BE STRIPPED TO 36200 LB.	

NOTES: (A) 24 VOLT RADIO SYSTEM
SCR-211 FREQUENCY METER
SCR-2690 RADIO COMPASS
SCR-271N COMMAND SET
SCR-287A LIAISON SET
SCR-535 SET (or SCR-595 or SCR-695)
SCR-578 EMERGENCY TRANSMITTER
RC - 32 FILTER EQUIPMENT (or RC-198)
RC - 36 INTERPHONE AMPLIFIER
RC - 43B MARKER BEACON

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK
* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.
(B) TORPEDOS BEING USED IN LIMITED QUANTITIES ONLY;
WITH MAXIMUM BOMB LOAD SHOWN TORPEDO MUST BE DROPPED FIRST.
(C) LIMITED TO 36200 LB. BY FLYING CHARACTERISTICS.



B-26
"MARAUDER"

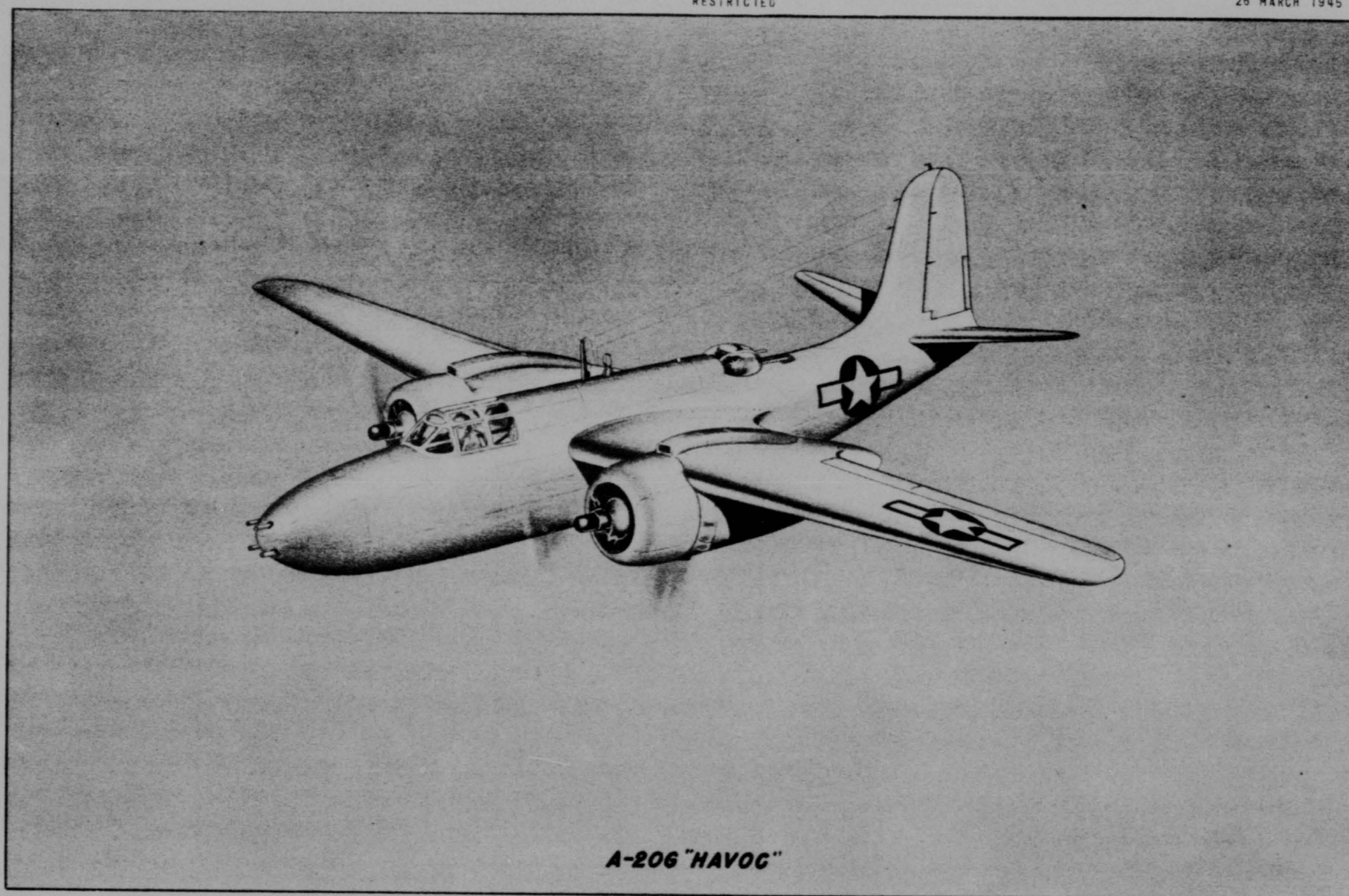
MANUFACTURED BY MARTIN (Baltimore) "MA" & MARTIN (Omaha) "MO"

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PAGE 20
AS OF:
26 MARCH 1945



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	PAGE 21
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE			
	ENGINE MFR. MODEL	B.H.P./ALT.	B-SPAN	B-BASIC		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR	MAX. LOAD LB.	RADIO TYPE			
	SUPERCHARGER PROP. MFR. TYPE	T-TAKE-OFF ALT. M-MILITARY C-CONTINUOUS	L-LENGTH H-HEIGHT T-TREAD W-WING AREA	C-COMBAT W-WAR MAX		OUTSIDE WINGS FUS. (BOMB B.) DRUP. EXTER. (SEE B)	2 x 70 (50) 4 - 680 1080 TOT.	1 (.30 or 1) - .50 500 350	500	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	1-500 1-250 1-100	(SEE C) 1-2000 T 1-500 4-250 1-100	2000	SCR-271H SCR-595A MN-26Y RC-36 RC-198 SCR-522 I			
A-20G-DO -1 TO -15 INCL	2	R-2600-23 2 SPD. SUPERCHGR. HAMILTON STD. 11 3/4" DIA. - 3 BL. F.P. HYDROMATIC	T 1000/8 L 1975/8 L M 1000/1000 C 1150/1000 1275/1150	S 61'4" L 48'0" H 17'7" T 17'0" W 65 sq. ft.	B 17200 C 24000 W 30000A	3	2 x 70 2 x 70 4 - 680 1080 TOT.	1 (.30 or 1) - .50 500 350	500	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	1-500 1-250 1-100	(SEE C) 1-2000 T 1-500 4-250 1-100	2000	SCR-271H SCR-595A MN-26Y RC-36 RC-198 SCR-522 I	TECHNICAL ORDER 01-40 (REV. 5 MAR. 1945) * ARMAMENT FOR A-20G-1 IS (2) .50 CAL. FIXED NOSE GUNS OF 300 RDS. EACH & (1) 20MM NOSE CANNON, TYPE M2 OF 60 RDS. EACH; MAJORITY ALLOCATED TO FOREIGN POWERS.		
A-20G-DO -20 TO -45 INCL	2	AS ABOVE	AS ABOVE	AS ABOVE	B 17700 C 26000 W 30000A	3	2 x 136 2 x 64 3 - 325 1 x 37 1/2 1099 TOT.	1) .50 2) .50 6)	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	1-500 1-250 1-100	(SEE C) 1-2000 T 1-500 4-250 1-100	4000	SCR-271H SCR-595A MN-26Y RC-36 RC-198 SCR-522 I	REFERENCE AS ABOVE * NO PROVISIONS FOR TORPEDO ON A-20G-10 & -15. * A-20G-15 HAS MN-26C INSTEAD OF MN-26Y. * SCR-522 INSTALLED ON THE -15'S ONLY.		
A-20J-DO -1 TO -20 INCL	2	AS ABOVE	AS ABOVE	AS ABOVE	B 17800 C 26000 W 30000A	4	AS ABOVE	1) .50 2)	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	A S	A B O V E		SCR-271H SCR-595A MN-26Y RC-36 RC-198 SCR-522 I	REFERENCE AS ABOVE * NO PROVISIONS FOR TORPEDO ON A-20J-15 & -20.		
A-20H-DO -1 TO -15 INCL	2	WEIGHT R-2600-29 2 SPD. SUPERCHGR. HAMILTON STD. 11 3/4" DIA. - 3 BL. F.P. HYDROMATIC	T 1700/8 L 1850/8 L M 1700/1000 C 1150/1000 1350/1000	S 61'4" L 48'0" H 18'1" T 17'0" W 65 sq. ft.	AS ABOVE	3	AS ABOVE	1) .50 2) .50 6)	400 400 350	TUNNEL-FLEX. UPPER TURRET NOSE-FIXED	1-500 1-250 1-100	1-500 1-250 4-250 1-100	4000	SCR-271H SCR-595A MN-26Y RC-36 RC-198 SCR-522 I	TECHNICAL ORDER 01-40P-1 (REV. 30 OCT. 1945) NO TORPEDO PROVISIONS.		
A-20K-DO -1 TO -15 INCL	2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	4	AS ABOVE	1) .50 2)	400 400 350	TUNNEL-FLEX. UPPER TURRET NOSE-FIXED	A S	A B O V E		SCR-271H SCR-595A MN-26Y RC-36 RC-198 SCR-522 I	REFERENCE AS ABOVE. A-20K SAME AS A-20H, EXCEPT FOR BOMBARDIER NOSE.		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE						
	GROSS WEIGHT LB.	TO CLEAR 50 FT.		LANDING SPEED MPH	GROUND-RUN		WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER													
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.			HIGH SPEED FT./MIN.	RATE OF CLIMB MPH	HIGH SPEED FT./MIN.	RATE OF CLIMB MPH				TIME TO CLIMB MIN.	AT 10000 FT.		AT 25000 FT.		AT 10000 FT.			AT 25000 FT.		AT 10000 FT.		AT 25000 FT.	
		MILES	HOURS		MILES	HOURS			MILES	HOURS	MILES	HOURS				MILES	HOURS	MILES	HOURS	MILES	HOURS	MILES		HOURS	MILES	HOURS	MILES	HOURS	
A-20G-DO -1 TO -15 INCL	19000 21000 24000 26000 27000	- 3000 4250 5000 5350	3000 3400 3750 -	95 100 105 -	1950 2150 3000 -	2150 -	24000 20000 15000 10000 5000 S L 300	275 302 317 319 306 300	420 800 1180 1100 1500 1500	298 300 312 312 301 287	300 300 650 1000 # #	18.5 13.3 6.2 3.5 6.0	25300 26000 26000 26000 26000	800E 2000 2000 2000 4000	1080 940 940 750 400	725 500 475 375	3.1 1.5 1.4	1170 435 495	4.6 2.2 2.2	1400 525 575	5.7 2.5 2.3	1950 500 450	6.3 2.6 2.6	2085 975 775	10.5 4.2 4.0				
A-20G-DO -20 TO -45 INCL	-	-	-	-	-	28000 24000 19000 14000 9000 S L 4	285 291 311 317 305 302	240 520 1000 1300 1500	298 307 308 299 285	150 500 850 # #	20.1 11.2 7.5 4.2 0.0	26200 26000 26000 26000	800E 2000 2000 4000	1099 725 725 400	725 600 475 375	2.5 2.0 1.8 1.1	1180 # 575 #	4.9 3.0 3.0 1.3	1285 1025 940 #	5.7 3.7 4.3 2.2	1375 725 650 175	6.4 3.7 3.5 1.4	1925 1175 1050 350	9.4 5.7 5.5 2.7	FLIGHTS ABOVE 10000 FT. REQUIRE SPECIAL PROVISIONS PER CARGO.				
A-20J-DO -1 TO -20 INCL	-	-	-	-	-	26000	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	
A-20H-DO -1 TO -15 INCL	19000 21000 24000 26000 27000	- 3350 4500 5500 6000	3750 4075 4525 -	94 100 104 -	2150 2575 3050 -	2975 -	25000* 20000* 15000* 10000 5000 S L 300	285 315 322 330 305 300	680 1200 1990 2020	307 317 312 299 285	520 1050 1310 # #	15.3 9.6 5.6 2.7 0.0	26340 26440 26990	800E 2000 4000	1099 725 400	750 525 290	2.6 1.6 0.8	- - -	1450 975 450	5.4 3.4 1.7	- - -	1975 1275 350	6.7 5.2 2.3	AS ABOVE					
A-20K-DO -1 TO -15 INCL	-	-	-	-	-	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	

NOTES: (A) CRITICAL FLIGHT CHARACTERISTICS RESULT ABOVE 27000 LB.

(B) FUEL TANKS ARE CARRIED IN SOME BAYS WITHOUT AFFECTING BOMB LOAD CAPACITY.

(C) PROVISIONS ONLY FOR TORPEDO; A-20 SCRIPS NOT BEING USED FOR TORPEDO MISSIONS AS PER MILITARY REQUIREMENTS POLICY 01.37 DATED JULY 3, 1943.

RANGE VALUES WITH TORPEDO ARE SHOWN FOR COMPARATIVE REFERENCE.

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

T TORPEDO; (REPLACES INTERNAL BOMBS WHEN CARRIED)

x EXTERNAL

A-20
"HAVOC"

MANUFACTURED BY DOUGLAS (DATA U.S.A.) "DO"

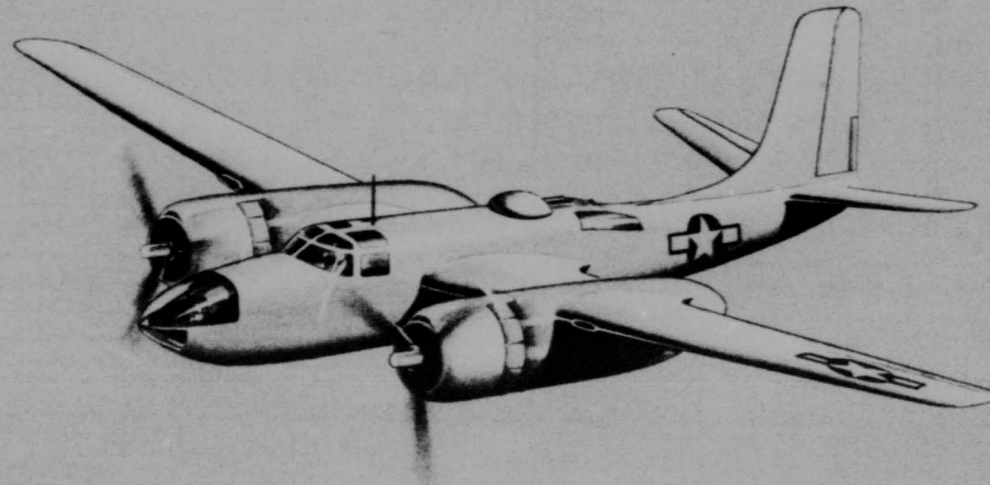
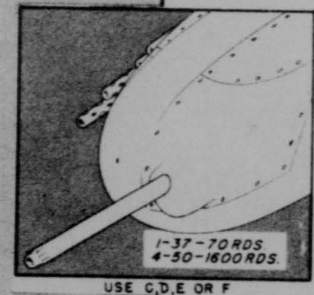
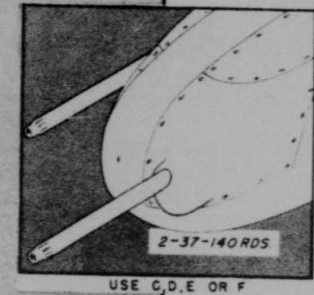
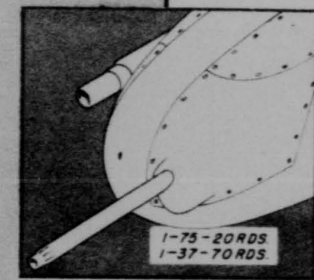
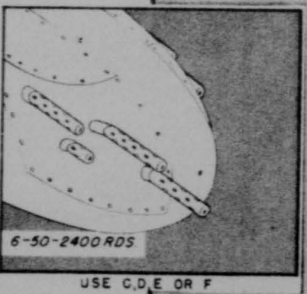
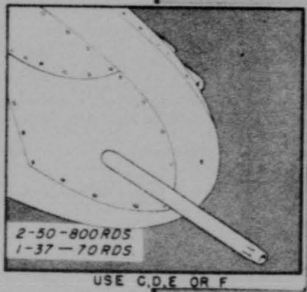
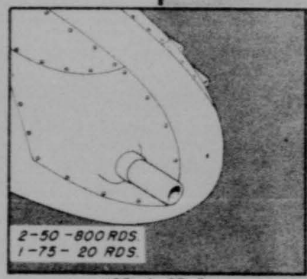
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ALL PURPOSE NOSE AND BOMB BAY (A-26 SERIES)



A-26 C

A	B	C	D	E	F
125 GAL. (N.S.)		125 GAL. (N.S.)		125 GAL. (N.S.)	125 GAL. (N.S.)
INTERNAL BOMB LOAD: 3x1000 5x 500 6x 250 9x 100	INTERNAL BOMB LOAD: 3x1000 5x 500 6x 250 11x 100	INTERNAL BOMB LOAD: 4x1000 6x 500 8x 250 12x 100	INTERNAL BOMB LOAD: 4x1000 6x 500 8x 250 16x 100	INTERNAL BOMB LOAD: 112x 29 (Frag.)	INTERNAL BOMB LOAD: 2x2000 (Torpedoes)
75mm. shell case frag.	75mm. shell case frag.				

S.S. - Self Sealing

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 28
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128 April 1945

MODEL & BLOCK-NO.	ENGINE & PROP.		SIZE	WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.			RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR.				B.H.P./ALT.	TANK	NO. TANKS	NO. GUNS	RDS.	LOCATION	INTERNAL	EXTERNAL			MAX. LOAD	TYPE
		MODEL	T-TAKE-OFF	L-LENGTH		TYPE	& CAPACITY	&	PER	& TYPE	NO. & SIZE	NO. & SIZE					
A-26B-1 & -5 (DL) A-26B-1 & -5 (DT)	2	PRATT-WHITNEY R-2600-27 SINGLE ST.-2 SPD. HAMILTON STD. 12" DIA. - 3BL. F.F., HYDROMATIC	T 2000/3 L 2340/3 L 1600/13500 11500/6500	S 70' L 49'11" H 18' 6" T 19' 6" W 54.0 sq. ft.	B 23275 C 35000 W 42300B	2	MAIN - WINGS AUX. - WINGS BOMB BAY (SS) B. BAY (FREIGHT) SERV (F)	2 x 300 2 x 100 1 x 125 1 x 675 1600 TOT.	1-75MM 2-.50 2-.50 2-.50 2-.50A (8)	20 500 500 300	NOSE - TURRET UPPER TURRET LOWER TURRET WINGS-PACKAGE	b 4-1000 b 6- 500 b 8- 250 b 16- 100	b 2-2000T L- 500 L- 250 L- 100	L-1000 L- 500 L- 6000	SCR-271M SCR-695 MN - 26C BC - 36 SCR-522	TECHNICAL ORDER 01-104A-1. (REV. 10 JAN. 1945) (*) PARTS PROVIDED FOR SERVICE INSTALLATION OF ALL-PURPOSE NOSE AS SHOWN ON OPPOSITE PAGE. b) SEE PAGE OPPOSITE FOR BOMB LOAD CARRIED WITH 75MM. GUN. c) NORMAL CREW (2); WITH 75MM. GUNSON CREW IS (3). f) THE A-26B-1-DL HAS NO SELF SEALING BOMB BAY TANK.	
A-26B-DL -10 to -45 incl. A-26B-DT -10 to -25 incl.	2	PRATT-WHITNEY R-2600-27 or -71 SINGLE ST.-2 SPD. HAMILTON STD. 12" DIA. - 3BL. F.F., HYDROMATIC	T AS ABOVE	S 70' L 50'7" H 18' 6" T 19' 6" W 54.0 sq. ft.	B 23325 C 35000 W 42300B	2	AS ABOVE	6) 2) 2) (8) .50A	400 500 500 300	NOSE UPPER TURRET LOWER TURRET WINGS-PACKAGE	A S	A B O Y E	L-1000 L- 500 L- 6000	SCR-271M SCR-522 SCR-695 MN - 26Y BC - 36 AN/ARN-7M	TECHNICAL ORDER 01-104A-1. (REV. 10 JAN. 1945) a) SEE PAGE OPPOSITE FOR ALL-PURPOSE NOSE INSTALLATION. * AN/ARN-7 IN LIEU OF MN-26Y IS INSTALLED IN A-26B-15-DT AND A-26B-20DL AND SUBSEQUENT MODELS.		
A-26B-DL -50, -55, -60	2	AS ABOVE	AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 23400 C 35000 W 42300B	2	AS ABOVE	6) 2) 2) (8) .50	300 400 500 300	WINGS NOSE UPPER TURRET LOWER TURRET	AS ABOVE	THE ABOVE EXTERNAL BOMBS or (14) 5" ROCKETS	6000 or 4000	AS ABOVE	TECHNICAL ORDER 01-104A-1. (REV. 10 JAN. 1945)		
A-26C-DT -15 to -45 incl.	2	AS ABOVE	AS ABOVE	S 70' L 51' 3" H 18' 6" T 19' 6" W 54.0 sq. ft.	B 23760 C 35000 W 42300B	2	AS ABOVE	2) 2) 2) (8) .50	400 500 500 300	NOSE UPPER TURRET LOWER TURRET	L-1000 6- 500 6- 250 16- 100	L-1000 L- 500 L- 5000 L- 250 L- 100	6000	SCR-271M SCR-522 SCR-695 SCR-26900 AN/ARN-7 BC-36	TECHNICAL ORDER 01-104A-1. (REV. 10 JAN. 1945)		
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

MODEL & BLOCK-NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT				RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE								
	GROSS WEIGHT	TO CLEAR 50'		GROUND-RUN	WEIGHT	STD. ALT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE									
		T.O. DIST.	LAND. DIST.				LANDING SPEED	T.O. DIST.	LAND. DIST.	WEIGHT				STD. ALT.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB		TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	
A-26B-1 to -40 (DL)	21000	-	3500	90	-	1750	20000	337 ^b	260 ^b	329	100	31.1	35000	NONE	1600	1100	3.5	1125 ^a	7.0 ^a	2150	7.9	2275 ^a	8.0 ^a	3100	13.1	(a) NO PROVISIONS FOR OXYGEN. (b) WHEN 6 EXTERNAL WING PACKAGE GUNS ARE CARRIED THE HIGH SPEED DECREASES APPROX. 15 MPH & RATE OF CLIMB 150 FT./MIN.	
A-26B-1 to -45 (DT)	28000	2550	2900	104	1960	1950	15000 ^a	555	720	341	520	15.3	31400	NONE	925	650	2.0	575 ^a	4.4 ^a	1350	4.3	1175 ^a	4.6 ^a	1725	7.9		
A-26C-15 to -45 (DT)	32000	3700	3200	102	2550	2150	10000	316	1010	330	560	7.0	34400	3000	925	650	2.0	575 ^a	4.4 ^a	1300	4.3	1125 ^a	4.6 ^a	1650	6.9		
A-26C-15 to -45 (DT)	34000	4300	-	-	2050	-	5000	350	1540	320	-	2.7	34600	4000	800	550	1.7	575 ^a	3.7 ^a	1150	3.8	975 ^a	3.9 ^a	1375	5.9		
	35000	4500	-	-	3000	-	S L	328	2030	297	-	0.0															

NOTES:

(A) THE REMOVABLE WING PACKAGE GUNS ARE AN ALTERNATE INSTALLATION AND MAY BE MOUNTED ON WING BOMB RAILS IN PLACE OF BOMBS.

ENGINE NOTE:

SOME A-26 MODELS USE WATER INJECTION ENGINES; MODELS R-2600-67 & -79.

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.

* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

x EXTERNAL
T TORPEDO

(B) TIRES & BRAKES CRITICAL ABOVE 35000 LB.



A-26

"INVADER"

MANUFACTURED BY DOUGLAS (Long Beach) "DL" & DOUGLAS (Tulsa) "DT"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK NO.	ENGINE & PROP.			SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFG. MODEL SUPERCHARGER PROP. MFG. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT #-REC. LIM. W-WAR MAX.			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY			MAX. LOAD LB.	TYPE
A-36 A-NA	1	ALLISON V-1710-27 SINGLE SPEED CURTISS 10 1/2 DIA. - 3 BL. CONST. SPD. ELECT.	T 1325/S L M 1325/5400 C 1100/6600	S 37' 0" L 32' 3" H 12' 2" T 11' 10" W 253 sq. ft.	B 7100 C 10000 #-10900 W -	1	MAIN - WING EXT. - WINGS	2 x 90 2 x 75 or 2 x 150 180 TOT.	2-50 4-50	200 200	WING - FIXED WING - FIXED	NONE	2-500 2-325 2-250	1000	OCR-271M OCR-525 OCR-995**	TECHNICAL ORDER 01-50EP-1. (10 JULY 1943) ** WAR EMERGENCY RATING. ** LAST 599 ONLY.		
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	

MODEL & BLOCK NO.	TAKE OFF & LANDING						HIGH SPEED & CLIMB						RANGE & ENDURANCE										REMARKS ON PERFORMANCE					
	HARD SURFACE - NO WIND						AT NORMAL COMBAT WEIGHT						STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE															
	TO CLEAR 50'			GROUND-RUN			WEIGHT	MIL. POWER			MAX. CONTIN. POWER			TAKE OFF WEIGHT	BOMBS-CARGO-PASS.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER				MAX. CRUISE POWER				LONG RANGE			
	T.O. DIST.	LAND. DIST.	LANDING SPEED	T.O. DIST.	LAND. DIST.	STD. ALT.		HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	RANGE AT 10000 FT.				ENDUR. AT 10000 FT.	RANGE AT 25000 FT.	ENDUR. AT 25000 FT.	RANGE AT 10000 FT.	ENDUR. AT 10000 FT.	RANGE AT 25000 FT.		ENDUR. AT 25000 FT.	RANGE AT 10000 FT.	ENDUR. AT 10000 FT.		
A-36 A-NA	9000	2800	3000	-	2050	2100	10000	288	500	277	300	16.6	11000	NONE	180	1400	5.1	-	-	-	-	-	-	2100	9.4	* WITH 2-500 LB. EXTERNAL BOMBS.		
	10000	3400	3500	-	2600	2400	10000	295	1025	285	300	9.1	10000	NONE	350	1000	3.5	-	-	-	-	-	-	1500	7.0			
	11000	4100	-	-	3200	-	5000	310	2075	293	300	5.1	9000	NONE	180	550	1.8	-	-	-	-	-	-	850	3.5			
							S L	295	2200	275	300	0.0	10000	1000	180	500	1.8	-	-	-	-	-	-	800	3.4			
COLUMN	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

NOTES:

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

* MILITARY POWER AVAILABLE FOR 15 MINUTES.



A-36
"MUSTANG"

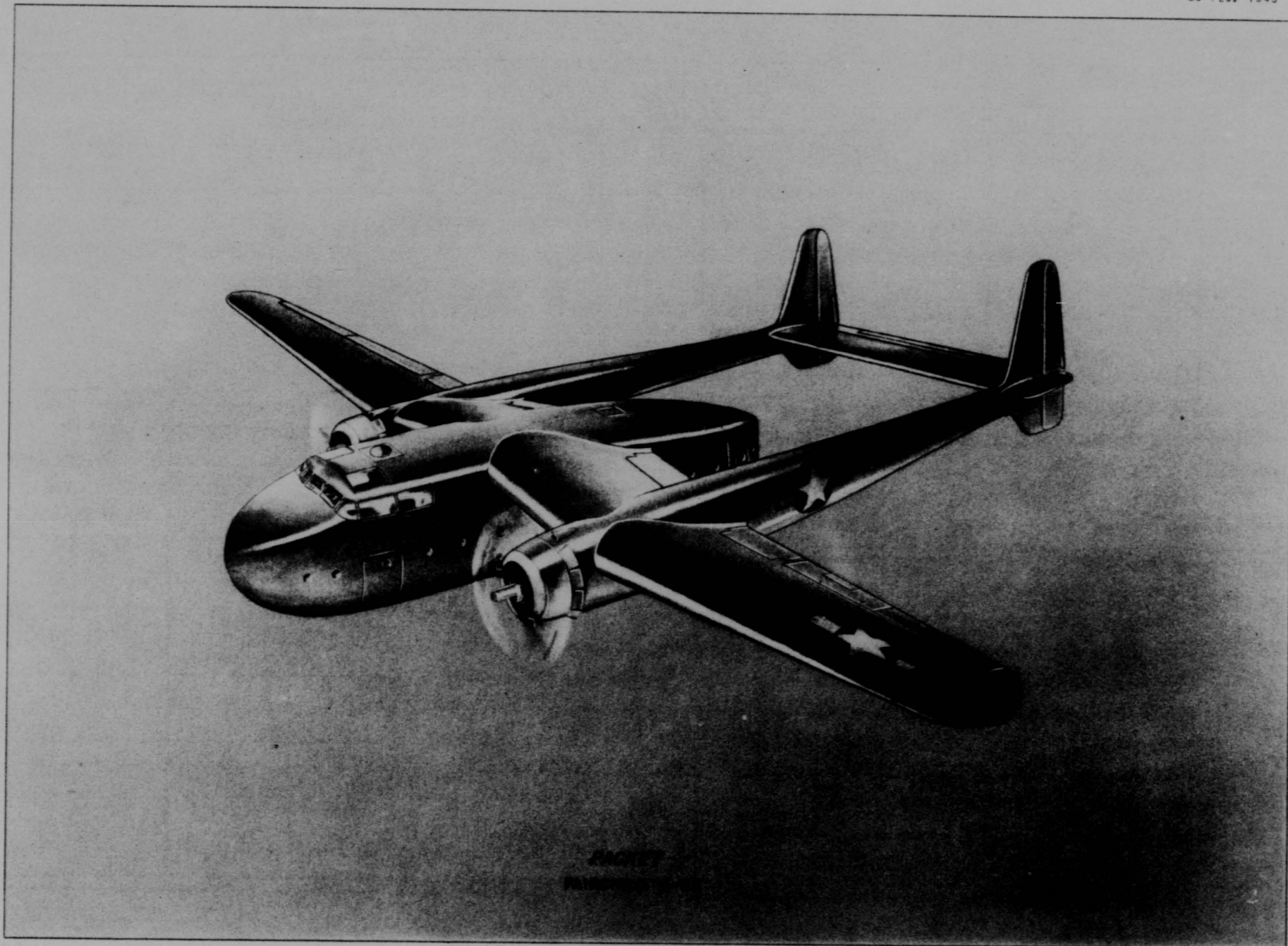
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

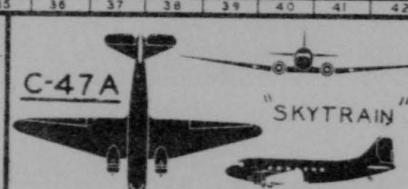
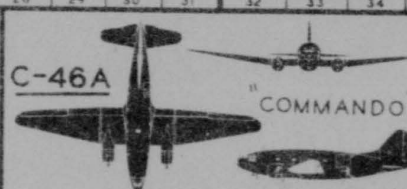
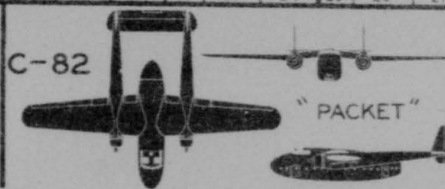
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MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	ENGINE MFG. MODEL SUPERCHARGER PROP. MFG. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & PER GUN	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. SIZE OR STATION	EXTERNAL NO. SIZE OR CAPACITY			MAX. LOAD LB.
C-46A-1 to -55 (20) C-46A-1, -5, -40 (24) C-46A-1, -40 (28) C-46B-1 to -20 (20) C-46E-1 (28)	PRATT-WHITEY R-2800-51 or -75 2 SPIND CURTIS 13'6" DIA. - 3 BL. P.F., HYDROMATIC	T 2000/5 L M { 2000/1500 1500/13500 C { 1600/5700 1450/13000	S 108'0" L 75'4" H 27'0" T 28'0" W 1360 sq. ft.	B 32400 C 46000 W 56000A	4	WING-PANELS FUSELAGE	6-1100 8-100 2200 TOT.	5	0	N	E	CABIN-MAIN BELLY-PURE BELLY-APT TROOPS	10000 3700 1800 50	15500 12000	SCR-211, SCR-271A, 281, 51A, 570 & 695 SC-30, 45, 105 & 198, AN/AP-1	TECHNICAL ORDER 01-251A-1 (25 JUNE 1944) * MAX. RADIO COMBINATION LISTED. * B-2600-75 ENGINES ON LATE C-46A-55-JUNK; C-46B-10-CU. NOTE: C-46B-1-03 HAS HAMILTON STD. PROPELLER.
C-47A to -90 (81) C-47A to -90 (84) C-53C & D (81)	PRATT-WHITEY R-1850-92 INTERNAL SUPER. HAMILTON STD. 11'7" DIA. - 3 BL. P.F., HYDROMATIC	T 1200/5 L M 1050/7000 C 1050/7000	S 95'0" L 64'6" H 17'0" T 18'6" W 987 sq. ft.	B 18200 C 26000 W 36500A	4	MAIN-WINGS AUX.-WINGS FUSELAGE	2-200 2-200 8-100 1604 TOT.	5	0	N	E	CABIN-MAIN TROOPS LITTERS ATTENDANTS	10000 27 18 2	10000 6500 4900	SCR-271A, 211, 281, 51A, 191, 196, 197, AN/AP-1, AN/AP-11, AN/AP-12, AN/AP-13	TECHNICAL ORDER 01-460A-1. (REV. 5 SEPT. 1944) (c) INCLUDES 1000 LB. MISC. EQUIPMENT. * MAX. RADIO COMBINATION LISTED. NOTE: C-47 & C-53 SERIES SIMILAR EXCEPT FOR LARGE CARGO DOOR ON C-47 & (28) PLACES IN C-53
C-47B-2K -1 to -20 C-47B-2L -1	R-1850-90C 2 SPIND HAMILTON STD. 11'7" DIA. - 3 BL. P.F., HYDROMATIC	T 1200/5 L M 1200/5000 C 1100/6000 1000/13000	S 95'0" L 65'9" H 16'11" T 18'6" W 987 sq. ft.	B 18150 C 26000 W 36500A	4	A B A B O V E S	A B A B O V E S	5	0	N	E	A B A B O V E S	A B O V E S		TECHNICAL ORDER 01-460B-1. (20 NOV. 1944)	
C-62-FA NT	PRATT-WHITEY R-2900-22C INTERNAL SUPER. HAMILTON STD. 15'2" DIA. - 3 BL. P.F., HYDROMATIC	T 2100/5 L M 2100/1000 1600/16000 C 1700/7000 1150/1500	S 106'0" L 75'10" H 28'2" T 28'0" W 1100 sq. ft.	B 29500 C 47000 W -	5	MAIN-WINGS AUX.-WINGS	4-3100 2-304 3164 TOT.	5	0	N	E	CABIN-MAIN TROOPS PARACANE LITTERS ATTENDANTS	19400 42 25000 32 4	19400 12600 8000	SCR-271A, 211, 281, 51A, 191, 196, 197, AN/AP-1, AN/AP-11, AN/AP-12, AN/AP-13	PRELIMINARY MGR. DATA

COLUMN --- 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE
	GROSS WEIGHT LB.	TO CLEAR 50' T.O. DIST.		LANDING SPEED MPH	GROUND-RUN DIST.		WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO PASS. LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE			
		FT.	FT.		FT.	FT.			MPH	MPH	MPH	MPH				MPH	MPH	MPH	MPH	MPH	MPH	MPH	
C-46A-1 to -55 (20) C-46A-1, -5, -40 (24) C-46A-1, -40 (28) C-46B-1 to -20 (20) C-46E-1 (28)	24000 35000 42000 46000 50000	- 1750 2350 2900 3500	2250 2100 2550 2700 -	82 84 94 77 -	1800 1550 1700 1850 -	46000	20000 15000 10000 5000 S L	260 269 264 262 245	530 780 900 1100 1300	257 304 256 255 240	600 550 750 900 0	25.4 15.6 11.6 5.5 0.0	50000 42000 42000 50000 10000	2000 1600 6000 5000 10000	2200 1100 1050 1050	1600 1400 750 700	6.2 3.8 2.8 2.7	- - - -	2600 1100 1200 1100	11.7 6.1 5.3 5.3	- - - -	2950 1900 1350 1200	14.3 9.0 6.4 5.1
C-47A to -90 (81) C-47A to -90 (84) C-53C & D (81)	20000 21000 25000 29000 31000	- 2000 2500 3200 3700	2000 2200 2650 -	70 74 76 -	1200 1150 1600 -	26000	20000 15000 10000 5000 S L	SAME AS FOR MIL. COMB. DURS POWER	201 217 219 203	360 630 900 1250 1020	25.7 15.6 10.0 5.0 0.0	29000 26000 29000 29000 31000	1600 2000 3000 304 7000	1800 1000 804 804	1200 900 700 575 -	5.9 4.3 5.0 4.8 -	AS ABOVE	2675 1950 1500 1200 1075	14.4 10.7 8.9 6.7 5.5	AS ABOVE	3175 2000 1450 1100	21.8 13.8 9.2 6.1	
C-47B-2K -1 to -20 C-47B-2L -1	20000 21000 25000 29000 31000	- 2050 2500 3250 3750	2000 2200 2650 -	70 74 76 -	1250 1150 1700 -	26000	20000 15000 10000 5000 S L	- - - - -	203 229 221 219 203	500 780 900 1250 1020	25.4 15.6 10.0 5.0 0.0	29000 26000 29000 29000 31000	1600 1100 3000 304 7000	1800 1000 804 804	1200 900 700 575 -	5.9 4.3 5.0 4.8 -	AS ABOVE	2675 1950 1500 1200 1075	14.4 10.7 8.9 6.7 5.5	AS ABOVE	3175 2000 1450 1100	21.8 13.8 9.2 6.1	
C-62-FA NT	30000 35000 42000 50000	2050 3000 4250	1100 1200 1400 -	83 85 91 -	1850 2050 2350 -	21000	20000 15000 10000 5000 S L	259 265 260 255 236	900 900 900 1010	225 360 510 45 212	39.0 21.4 10.9 4.5 0.0	50000 42000 50000 50000 50000	3000 2500 10000 1926 19400	3124 1825 950 466 150	1825 950 466 150	8.6 4.4 4.6 0.8	AS ABOVE	3150 1900 1700 225	18.8 10.2 9.5 1.4	AS ABOVE	2750 2150 1775 250	22.5 12.7 10.8 1.6	ALL PERFORMANCE IS PRELIMINARY MGR. ESTIMATES. (NO T.O. DATA)

NOTES:



RED FIGURES ARE PRELIMINARY.
SUBJECT TO REVISION AFTER FLIGHT CHECK.
(A) PERMISSIBLE ONLY WITH ALL WING TANKS FULL.
* MILITARY POWER FOR 5 MINUTES.

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL		
C-54A-DO -1 & -5 C-54A-DC -1 to -15 INCL.	PRATT-WHITEY R-2000-7 2 SPEED HAMILTON STD. 13" DIA. - 3BL. E.F., HYDRA-MATIC	T 1350/8 L M 1350/4000 C 1015/9000 240/13500	S 117' 6" L 93' 10" H 27' 6" T 21' 8" W 160 SQ. FT.	B 37000 C 30000 A 25000	6	1 INB. - WINGS 2 x 120 4 x 150 3600 TOT.	2 x 190 2 x 510 2 x 120 2 x 150 3700 TOT.	2	0	N E	CABIN COMP. 18000 BULLY-PORT 11800 BULLY-AFT 2100 BARRAGE 1500 TROOPS **50	21200 12000	SCR-211 57* & 69* RC-36, 103, 105, 108, AR/ARN-7 RC-656	TECHNICAL ORDER 01-40NM-1. (REV. 15 JAN. 1945) * MISC. RADIO CARRIED; MAX. COMBINATION SHOWN. ** 50 TROOPS WITH FUSELAGE TANKS (3620 GAL.) 50 TROOPS WITHOUT FUSELAGE TANKS (1820 GAL.)	
C-54B-DO -1 to -20 INCL. C-54B-DC -	AS ABOVE	AS ABOVE	AS ABOVE	B 37000 C 75000 A 75000	6	1 INB. - WINGS 2 x 190 2 x 510 2 x 120 2 x 150 3700 TOT.	2 x 190 2 x 510 2 x 120 2 x 150 3700 TOT.	N	0	N E	CABIN COMP. 27100 BULLY-PORT 18000 BULLY-AFT 2100 BARRAGE 1500 TROOPS *10 LITTERS *20 ATTACHMENTS	25000 11800 9800	AS ABOVE MN-26 & APN-4	TECHNICAL ORDER 01-40NS-1. (REV. 10 JAN. 1945) * 41 TROOPS or 26 LITTERS WITH FUSELAGE TANKS (3740 GAL.) 49 TROOPS or 36 LITTERS WITHOUT FUSELAGE TANKS (2812 GAL.) ** 20 TROOPS - 10 STANES HAVE REDUCED LITTER CAPACITY.	
C-54C-1 to -15 (DO) C-54C-1 to -15 (DC) C-54C-1 (DC) & (DO) C-54C-1 (DO)	PRATT-WHITEY R-2000-11 2 SPEED HAMILTON STD. 13" DIA. - 3BL. E.F., HYDRA-MATIC	T 1100/8 L M 1100/7000 C 1100/7000	AS ABOVE	B 36700 C 73000 A 73000	6	1 INB. - WINGS 2 x 190 2 x 510 2 x 120 2 x 150 3520 TOT.	2 x 500 2 x 350 2 x 120 2 x 190 3520 TOT.				TROOPS BULLY-PORT 15000 BULLY-AFT 2100 BARRAGE 1500	11200		TECHNICAL ORDER 01-40NS-1. (REV. 10 JAN. 1945) (1) DATA SHOWN FOR C-54C AIRPLANE. (2) C-54C LANDING, FUEL & INSTALLATIONS SIMILAR TO C-54B. (3) C-54C-1(S) SIMILAR TO C-54C EXCEPT FOR R-2000-11 ENGINE WITH RATINGS SAME AS R-2000-7 ENGINE.	
C-69-L0 -1, -5, -10*	WRIGHT R-3350-35 SINGLE or 2 SPEED HAMILTON STD. 16" DIA. - 5 BL. E.F., HYDRA-MATIC	T 2150/8 L M 2135/6500* C 2025/6500*	S 103' 0" L 81' 2" H 33' 8" T 28' 0" W 165 SQ. FT.	B 50500 C 28000 A 25000	9	WINGS 2 x 1500 2 x 210 1816 TOT.	2 x 1500 2 x 210 1816 TOT.			E	PASSENGER MISC. *60 26000	11600 21000		C-69-L0-L has 15 PASSENGER SEATS; OTHERS HAVE 60.	
C-87-CF	PRATT-WHITEY R-1330-13 or -65 TURBO HAMILTON STD. 11" DIA. - 3BL. E.F., HYDRA-MATIC	T 1200/8 L M 1200/25500 C 1100/27000	S 110' 0" L 66' 4" H 18' 0" T 25' 8" W 101 1/2 SQ. FT.	B 31250 C 50000 A 50000	5	1 INB. - WINGS 2 x 190 2 x 510 6-150 2814 TOT.	12-2364 6-150 2814 TOT.	1-150	500	TAIL-PL. (ONLY CARRIED ON 10 MODELS DESIGNATED C-87B)	PASSENGER MISC. 20 8000	12000 10000	SCR-274A, 269, 287, 57* & 69* RC-36, RC-43.	TECHNICAL ORDER 01-50A-1. (REV. 10 JAN. 1945)	

MODEL & BLOCK NO.	TAKE OFF & LANDING				HIGH SPEED & CLIMB				RANGE & ENDURANCE										REMARKS ON PERFORMANCE				
	HARD SURFACE - NO WIND				AT NORMAL COMBAT WEIGHT				STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE														
	GROSS WEIGHT LB.	TO CLEAR 50 FT. DIST.		LANDING SPEED MPH	GROSS WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO PASS. LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE					
		T.O. FT.	LAND. FT.				HIGH SPEED FT/Min	RATE OF CLIMB FT/Min	HIGH SPEED FT/Min	RATE OF CLIMB FT/Min				TIME TO CLIMB MIN.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.		AT 10000 FT.	AT 25000 FT.	RANGE MILES	ENDUR. HOURS
C-54A-DO -1 & -5 C-54A-DC -1 to -15 INCL.	40000 45000 50000 55000 60000 65000	1500 1850 2300 3200 4100	2500 2500 2750 3150 3500	80 80 85 90 95	1300 1500 1600 1750 1900	20000 15000 10000 5000 S L	- - - 272 260	- - - 1150 1150	269 278 276 260 265	125 800 1000 16.0 14.4	62000 69000 79000 86000 93000	9000 8500 8000 7500 7000	3620 2720 1420 2000 2000	1775 1275 1025 825 625	0.0 5.0 5.3 5.3	ABOVE PRAC-TICAL CRUISE TIMING CEILING	3500 2600 1550 1500	14.2 10.1 6.3 6.3	ABOVE PRAC-TICAL CRUISE TIMING CEILING	4000 2800 1850 1750	22.0 14.9 10.3 9.0		
C-54B-DO -1 to -20 INCL. C-54B-DC -	40000 50000 55000 60000 65000 70000	1850 2300 3200 4100 5000	2500 2750 3150 3500	80 85 90 95	1250 1600 1750 1900	20000 15000 10000 5000 S L	- - - 270 275	- - - 685 700	260 265 277 255 255	143.0 15.0 25.0 14.1 7.1	65500 80000 90000 100000 110000	8000 8000 8000 8000 8000	3740 2840 2000 2000 2000	1775 1325 950 925 875	6.9 5.1 3.7 3.6 3.6	AS ABOVE	3550 2650 1750 1700 1600	15.0 9.4 7.2 7.1 7.0	AS ABOVE	4125 2925 2100 1875 1675	21.0 14.0 9.8 9.3 8.0		
C-54C-1 to -15 (DO) C-54C-1 to -15 (DC) C-54C-1 (DC) & (DO) C-54C-1 (DO)	40000 50000 55000 60000 65000 70000	2000 2650 3350 4300 5200	2500 2750 3150 3500	80 85 90 95	1100 1300 1350 1450	20000 15000 10000 5000 S L	- - - 270 275	- - - 685 700	260 265 277 255 255	143.0 15.0 25.0 14.1 7.1	62000 69000 79000 86000 93000	9000 8500 8000 7500 7000	3520 2840 2000 2000 2000	1625 1125 800 775 750	6.2 4.4 3.1 3.1 3.1	AS ABOVE	2975 2075 1125 1100 1325	12.7 9.1 6.6 6.1 6.2	AS ABOVE	3800 2475 1800 1625 1400	19.9 12.6 9.5 8.2 6.9		
C-69-L0 -1, -5, -10*	62000 68000 75000 82000 86000 90000	1850 2250 2750 3255 3750 4500	2500 2810 3200 3600 4175	80 90 92 92 92	1600 1590 1675	20000 15000 10000 5000 S L	308 317 321 322 298	- - - 1875 1770	303 312 318 315 291	14.0 13.3 7.2 11.2 0.0	82000 90000 96700	8000 8000 14000	1810 1750 3178	1775 1425 1125	0.0 0.0 3.0	- - -	2750 2700 1725	9.5 9.4 6.1	- - -	4200 3700 2550	17.1 17.6 11.2	ALL PERFORMANCE SHOWN WITH SINGLE SPEED SUPERCHARGER.	
C-87-CF	37000 42000 50000 55000 60000	3000 3500 3950 4300 4750	3000 3200 3500 3950	85 90 100 105 110	2650 2800 3300 3950	30000 25000 20000 15000 10000 5000	306 293 280 266 255	1050 1100 1150 1200 1200	300 287 275 262 249	26.8 20.9 15.3 9.0 4.2	52900 56000 56000 56000 60000	8000 8000 8000 8000 8000	2814 3100 2814 2564 2564	1250 1225 1000 975	4.4 4.4 3.0 3.0 3.0	1375 1325 1075 1025	4.4 4.4 3.0 3.0	2200 2100 1875 1550	9.2 9.0 7.2 6.7	2025 2000 1625 1500	6.0 6.0 5.0 5.3	3525 3175 2500 2450	16.0 15.0 12.0 12.2


NOTES:
(A) FIGURES APPLICABLE ONLY WITH ALL MAIN WING TANKS FULL.
RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.
* MILITARY POWER AVAILABLE FOR 5 MINUTES.



C-54 "SKYMASTER"



C-69 "CONSTELLATION"



C-87 "LIBERATOR EXPRESS"

MANUFACTURED BY DUGLASS (SANTA MONICA) "DO" & (CHICAGO) "DC"; LOCKHEED (BURBANK) "LO"; CONSOLIDATED "CP" (FT. WORTH)

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.			RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA		B-BASIC C-COMBAT W-WEIGHT	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION		EXTERNAL NO. & SIZE OR CAPACITY		MAX. LOAD LB.	TYPE
			T-TAKE-OFF M-MILITARY C-CONTINUOUS	M-MILITARY C-CONTINUOUS									NO. & SIZE	NO. & SIZE				
P-38F-LO	2	ALLISON V-1710-L9 A-53 TURBO CURTISS 11'6" DIA. - 38L. E.P. ELECTRIC	T 1225/8 L M 1150/27000 C 1000/27000	S 52' 0" L 37' 10" H 12' 10" T 16' 6" W 52' 0"	B 13000 C 15300 W -	1	MAIN - WINGS RES. - WINGS	2 x 90 2 x 50 300 TOT.	1-203M. L-50	150 500 (MAX.)	NOSE-TYPE M1 NOSE-FIXED	NONE	NONE	NONE	SCR-522	TECHNICAL ORDER 01-75-1. (REV. 30 SEPT. 1944) * LIMITED TO 1150 HP. BECAUSE OF INADEQUATE COOLING.		
P-38F-LO -1 TO -15 INCL.	2	AS ABOVE	AS ABOVE	AS ABOVE	B 13600 C 15900 W -	1	MAIN-WINGS RES.-WINGS DRCP.-EXTER.	2 x 90 2 x 50 2 x 75 2 x 150 600 TOT.	A S	A B C V E	NONE	NONE	2-1000 2-500 2-325 2-250 2-100	2000	SCR-522 SCR-510	REFERENCE AS ABOVE * SPACE ONLY		
P-38G-LO -1 TO -15 INCL.	2	ALLISON V-1710-51 A-55 TURBO CURTISS 11'6" DIA. - 38L. E.P. ELECTRIC	T 1225/8 L M 1150/27000 C 1100/27000	AS ABOVE	B 13500 C 15800 W -	1	AS ABOVE EXCEPT THAT LAST P-38G-10'S ARE SAME AS BELOW	200	A S	A B C V E	AS ABOVE EXCEPT LAST 200 P-38G-10'S ONLY ARE SAME AS BELOW	NONE	NONE	NONE	SCR-515 SCR-522 SCR-695	REFERENCE AS ABOVE * LIMITED TO 1150 HP. BECAUSE OF INADEQUATE COOLING. * SPACE ONLY		
P-38H-LO -1 & -5	2	ALLISON V-1710-59 A-91 TURBO CURTISS 11'6" DIA. - 38L. E.P. ELECTRIC	T 1125/8 L M 1125/25000 C 1100/27000	AS ABOVE	B 13700 C 16300 W -	1	MAIN-WINGS RES.-WINGS DRCP.-EXTER.	2 x 90 2 x 60 2 x 75 2 x 150 2 x 100 900 TOT.	1-203M. L-50	150 500 (MAX.)	NOSE-AM-MTC NOSE - FIXED	NONE	2-1500 2-1000 2-500 2-325 2-250 2-100	3200	SCR-515 SCR-522 SCR-695	TECHNICAL ORDER 01-75-1. (REV. 15 FEB. 1945) * LIMITED TO 1210 HP. BECAUSE OF INADEQUATE COOLING. * SPACE ONLY		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE			
	GROSS WEIGHT LB.	TO CLEAR 50' GROUND-RUN		LANDING SPEED MPH	T.O. DIST. FT.	LAND. DIST. FT.	WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO-PASS. LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
		T.O. DIST. FT.	LAND. DIST. FT.						HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.				AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	RANGE MILES	ENDUR. HOURS	RANGE MILES		ENDUR. HOURS	RANGE MILES	ENDUR. HOURS
		FT.	FT.						MPH	FT/MIN.	MPH	FT/MIN.				MILES	HOURS	MILES	HOURS	MILES	HOURS	MILES		HOURS	MILES	HOURS
P-38F-LO	13500 15000 15800	- 2150 2300	2750 2960 -	85 90 -	- 1280 1380	1150 1580 -	13500 15000 15800	25000 20000 15000 5000	390 380 365 355	2100 2300 2500 2900	380 365 355 340	11.0 8.0 6.0 4.0	15800 17000 18000	NONE NONE 300	300	400	1.2	425	1.2	700	2.4	675	2.2	900	4.1	
P-38F-LO -1 TO -15 INCL.	13500 15000 15500 17500 18900	- 2150 2270 3040 4000	2750 2960 3050 3350 -	85 90 91 97 -	- 1280 1620 1930 2100	1150 1580 1800 -	13500 15000 17000 18900	25000 20000 15000 5000	390 380 375 351 347	2100 2300 2450 2600 2800	380 367 354 340 327	12.0 8.8 6.0 4.0 1.8	19900 18000 15900 17000 18000	NONE NONE 300 300 300	900 600 500 300 300	1170 600 400 300 375	3.9 2.6 1.2 1.2 1.2	1600 650 400 395 375	3.8 2.6 1.2 1.2 1.2	2070 1100 700 675 625	8.1 5.5 2.5 2.5 2.5	1900 1300 630 540 520	7.1 4.5 2.0 2.0 1.8	2270 1750 900 850 500	11.2 8.2 4.1 3.9 3.7	
P-38G-LO -1 TO -15 INCL.	13500 15000 15500 17500 18900	- 2150 2270 3040 4000	2750 2960 3050 3350 -	85 90 91 97 -	- 1280 1620 1930 2100	1150 1580 1800 -	13500 15000 17000 18900	25000 20000 15000 5000	390 380 375 351 347	2100 2300 2450 2600 2800	380 367 354 340 327	11.5 8.5 5.9 3.7 1.8	19300 17800 15800 16200 17800	NONE NONE 300 300 300	900 600 300 300 300	1000 700 340 300 310	3.3 2.2 1.0 1.0 1.0	1100 750 350 320 310	3.4 2.2 1.0 1.0 1.0	- - - - -	- - - - -	1780 1200 570 510 480	6.2 4.0 1.8 1.7 1.6	2200 1670 655 760 740	10.8 7.9 3.9 3.5 3.5	
P-38H-LO -1 & -5	13600 15500 17500 19500 20500	- 2000 2600 3500 4000	2750 3050 3500 -	86 93 100 -	- 1200 1600 2000 2300	1150 1650 2000 -	13500 15000 17000 19500	25000 20000 15000 5000	390 380 357 340 342	2500 2650 3200 3400 3500	380 370 353 336 318	6.0 6.9 9.0 5.0 2.0	20300 18300 16300 18300 19500	NONE NONE 300 300 300	900 600 300 300 300	1180 625 350 325 300	4.3 2.1 1.3 1.2 1.2	1150 690 375 325 300	3.5 2.0 1.2 1.2 1.2	1560 1000 650 575 550	5.9 3.7 2.5 2.5 2.1	1960 1000 650 550 525	5.4 3.5 2.2 2.1 2.0	2200 1560 850 750 700	10.2 7.2 4.2 3.5 3.4	NO WAR EMERGENCY POWER AVAILABLE BECAUSE OF INADEQUATE COOLING

NOTES:

ALL FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK
* MILITARY POWER AVAILABLE FOR 15 MINUTES.



P-38
"LIGHTNING"

MANUFACTURED BY LOCKHEED (Fairbank) "LO"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 29
AS OF:
28 April 1945

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	ENGINE MFR. MODEL	PROP MFR. TYPE	B.H.P./ALT.	S-SPAN			B-BASIC	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION			EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.
P-38 J-LO -5 & -10	ALLISON V-1710-89 & -91 TURBO CURTISS 11'6" DIA. - 3 BL. P.F., ELECTRIC	T 1425/S L M 1425/26500 C 1100/32500	S 52' 0" L 37' 10" H 12' 10" T 16' 6" W 328 SQ. FT.	B 13700 C 16450 A - W -	1	MAIN - WINGS RES. - WINGS DROPP. - EXTER.	2x 90 2x 60 2x 75 or 2x 150 or 2x 165 or 2x 300 1010 TOT	1-20MM 4-.50	150 500 (MAX.)	NOSE-AN-M2" NOSE - FIXED	NOSE	2-1600 2-1000 2- 500 2- 325 2- 250 2- 100	3200	SCR-515 HM-65 SCR-522 SCR-695	TECHNICAL ORDER 01-75-1. (REV. 15 FEB. 1945) * LEAD OIL ** DUNE TREATING		
P-38 J-LO -5 TO -25 INCL. [L.E. TANKS]	AS ABOVE	T 1425/S L M 1425/26500 C 1100/32500	AS ABOVE	B 14100 C 17500 A - W -	1	MAIN - WINGS RES. - WINGS L.E. - WINGS DROPP. - EXTER. (SEE #)	2x 90 2x 60 2x 75 2x 75 or 150 or 165 or 300 1010 TOT	A	S	A	B	O	V	E	REFERENCE AS ABOVE * IF THE 2-55 GAL. LEADING EDGE WING TANKS ARE INSTALLED AT FACTORY, MOD. CENTER or FURNISHED TO SERVICE IN KITS, WE WAR EMERGENCY RATING.		
P-38 L-LO -1 & -5 P-38 L-VN -5	ALLISON V-1710-111 & -113 TURBO CURTISS 11'6" DIA. - 3 BL. P.F., ELECTRIC	T 1425/S L M 1425/26500 C 1100/32500	AS ABOVE	B AS ABOVE C AS ABOVE A - W -	1	A S A B O V E	A S A B O V E	1-20MM 4-.50 10-5" ZERO LENGTH RAIL ROCKETS	150 500 (MAX.)	NOSE-AN-M2" NOSE - FIXED	A S A B O V E	A S A B O V E	AS ABOVE PLUS AN/APS-13	REFERENCE AS ABOVE * INCREASED HP. RATING IS ANTICIPATED. * ROCKETS INSTALLED ON P-38L-5 MODELS ONLY, WE WAR EMERGENCY RATING.			
COLUMN		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE								REMARKS					
	TO CLEAR 50'		GROUND-RUN		LANDING SPEED	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
	T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				RANGE	ENDUR.	RANGE	ENDUR.	RANGE		ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.
P-38 J-LO -5 & -10	1500	1900	3050	105	1050	1650	30000	113	1250	405	1700	395	#	10.5	20950	NONE	900	1000	1000	1000	1000	1000	1000	1000	1000	P-38 SERIES HAVE INCREASED DRAG DUE TO EXTERNAL COSE TYPE COOLERS. PERFORMANCE VALUES ARE SHOWN WITH-OUT EXTERNAL TANKS.
P-38 J-LO -5 TO -25 INCL. [L.E. TANKS]	16500	2100	3200	108	1150	1750	25000	120	2665	406	2700	360	#	8.0	19050	NONE	630	750	1000	1000	1000	1000	1000	1000	1000	
P-38 L-LO -1 & -5 P-38 L-VN -5	17500	2200	3150	109	1100	1700	30000	105	1625	375	1750	358	#	12.0	20200	NONE	740	830	1000	1000	1000	1000	1000	1000	1000	AS ABOVE
	19500	2750	3550	116	1500	1900	20000	108	2190	378	2100	353	#	6.2	16450	NONE	300	345	1000	1000	1000	1000	1000	1000	1000	
	19600	3400	3750	121	1850	2000	15000	395	3550	365	3100	273	#	4.5	16450	2000	300	300	1000	1000	1000	1000	1000	1000	1000	
	20500	4300	-	-	2850	-	10000	380	3620	365	3300	340	#	2.9	19650	3200	300	250	1000	1000	1000	1000	1000	1000	1000	
	21600	6500	-	-	3350	-	5000	363	3262	350	2900	321	#	1.5	19650	3200	300	250	1000	1000	1000	1000	1000	1000	1000	
	17500	2800	3100	111	1300	1850	25000	111	2115	398	2300	374	#	7.0	20200	NONE	740	830	1000	1000	1000	1000	1000	1000	1000	
	19500	3400	3750	121	1850	2000	15000	403	2925	385	2600	341	#	7.0	17500	NONE	410	460	1000	1000	1000	1000	1000	1000	1000	
	20700	4200	-	-	2850	-	10000	377	3525	361	3100	335	#	4.0	19500	2000	410	435	1000	1000	1000	1000	1000	1000	1000	
	21600	6500	-	-	3350	-	5000	366	3670	366	3200	317	#	2.0	20700	3200	410	460	1000	1000	1000	1000	1000	1000	1000	

NOTES:

ALL FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK
MILITARY POWER AVAILABLE FOR 15 MINUTES



P-38
"LIGHTNING"

MANUFACTURED BY WALTER (Nashville) "VN"; LOCKHEED (Burbank) "LO"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																			
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS		RADIO	REMARKS & REFERENCE				
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.				S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE			INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE
			T-TAKE-OFF M-MILITARY C-CONTINUOUS	M-MILITARY C-CONTINUOUS															
P-39D-BE	1	ALLISON V-1710-35 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. CONST. SPD. ELECT.	T 1150/S L M 1150/12000 C 1000/10800	S 34' 0" L 30' 2" H 11' 10" T 11' 4" W 213 sq. ft.	B 6300 C 7650 W 9200	1	WING TOTALS PROP.-BELLY 12-120 1 x 75 or 1 x 156 or 1 x 175 295 TOT.	4-.30 2-.50 1-37MM	*1000 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE ML	NONE	1-500 1-325 1-250 1-100	500	SCR-283	TECHNICAL ORDER 01-110FB-1. (REV. 20 SEPT. 1944)				
P-39D-BE -1	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE	4-.30 2-.50 1-20MM	*1000 200 60	WING - FIXED NOSE - FIXED PROP. - TYPE ML	AS ABOVE	AS ABOVE	AS ABOVE	SCR-274 OF SCR-522A & SCR-695	TECHNICAL ORDER 01-110FE-1. (REV. 30 OCT. 1944)				
P-39D-BE -2	1	ALLISON V-1710-63 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. CONST. SPD. ELECT.	T 1325/S L M 1150/12000 C 1000/10800	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE				
P-39F-BE	1	ALLISON V-1710-35 SINGLE SPEED AERO PRODUCTS 10'5" DIA. - 3BL. CONST. SPD. HYD.	T 1150/S L M 1150/12000 C 1000/10800	AS ABOVE	AS ABOVE	1	AS ABOVE	4-.30 2-.50 1-37MM	*1000 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE ML	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110FB-1. (REV. 20 SEPT. 1944)				
P-39K-BE -1	1	ALLISON V-1710-63 SINGLE SPEED AERO PRODUCTS 10'5" DIA. - 3BL. CONST. SPD. HYD.	T 1325/S L M 1150/12000 C 1000/10800	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110FG-1. (REV. 30 OCT. 1944)				

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE						
	GROSS WEIGHT LB.	TO CLEAR 50 DIST.		LANDING SPEED MPH	GROUND-RUN DIST.		WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO #/ASL	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE									
		T.O.	LAND.		T.O.	LAND.			HIGH	RATE	HIGH	RATE				AT 10,000 FT.	AT 25,000 FT.	AT 10,000 FT.	AT 25,000 FT.	RANGE	ENDUR.	RANGE		ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	
		FT.	FT.		FT.	FT.			MPH	FT/MIN.	MPH	FT/MIN.				MPH	MPH	MPH	MPH	MILES	HOURS	MILES		HOURS	MILES	HOURS	MILES	HOURS	MILES
P-39D-BE	6700 7500 7800 8150 8850	- 2800 2100 3120 1500	1850 2050 2100 2200 -	82 86 88 91 -	1100 1300 1350 1100 -	7650	25000 20000 15000 10000 5000	324 316 360 355 335	750 1350 2000 2450 2050	310 332 343 346 323	14.0 9.1 6.1 3.9 1.9	8850 8800 8150 7650 8150	NONE NONE NONE NONE 500	295 276 195 120 120	550 525 400 275 225	2.0 1.8 1.4 0.8 0.8	- - - 450 -	- - - 1.5 -	- - - 350 250	- - - 1.4 1.4	- - - -	- - - -	1100 1050 800 600 450	5.6 5.3 4.2 2.6 2.3	ALL PERFORMANCE ESTIMATED				
P-39D-BE -1		AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE		AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	
P-39D-BE -2	6700 7600 7800 8150 8850	- 2500 2100 3000 1200	1850 2050 2100 2200 -	82 86 88 91 -	1100 1300 1350 1100 -																								
P-39F-BE		SIMILAR TO P-39D																											
P-39K-BE -1		SIMILAR TO P-39D-2																											

NOTES:

RANDOM P-39 MODELS MODIFIED FOR AIR/GROUND SUPPORT BY INSTALLATION OF CAMERAS, BELLY ARMOR, ETC.
* 1000 RDS./GUN MAX. FOR GROUND STRAPPING; 300 RDS./GUN NORMAL.

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK
MILITARY POWER AVAILABLE FOR 15 MINUTES



P-39
"AIRACOBRA"

MANUFACTURED BY BELL (Buffalo) "HE"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART															PAGE 31
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT		BOMBS-CARGO-PASS		RADIO	REMARKS & REFERENCE	
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION			EXTERNAL NO. & SIZE OR CAPACITY
P-39L-BE -1	ALLISON V-1710-63 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. CONST. SPD. W/ECTS	T 1325/8 L M 1150/12000 C 1000/10600	S 34' 0" L 30' 2" H 11' 10" T 11' 4" W 213 SQ. F	B 6500 C 7900	1	WING TOTALS 12-120 DROPP.-BELLY 1x75 or 1x156 or 1x175 295 TOT.	4-.50 *1000 1-37MM 30	WING - FIXED NOSE - FIXED PROP. - TYPE M1	NONE	1-500 1-325 1-250 1-100	500	SCR-274M or SCR-522A & SCR-695	TECHNICAL ORDER 01-110FG-1. (REV. 30 OCT. 1944)		
P-39M-BE -1	ALLISON V-1710-83 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. CONST. SPD. W/ECTS	T 1200/8 L M 1125/15500 C 1000/11000	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110FG-1. (REV. 30 JULY 1943)		
P-39N-BE -O TO -5 INCL.	ALLISON V-1710-85 (A) SINGLE SPEED AERO PRODUCTS 11'7" DIA. - 3BL. CONST. SPD. W/ECTS	AS ABOVE	AS ABOVE	AS ABOVE	1	WING TOTALS 8 - 87 DROPP.-BELLY 1x75 or 1x156 or 1x175 262 TOT.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110FG-1. (REV. 25 OCT. 1944) * SCR-695 REPLACES SCR-535A ON P-39N-5 ONLY. ** 1st. 166 P-39N-0 BUILT-IN FUEL 120 GAL. KITS AVAILABLE IN SERVICE TO INCREASE FUEL OF ALL N'S TO 120 GAL.		
P-39Q-BE -1 TO -15 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE EXCEPT: BUILT-IN FUEL** P-39Q-1.....87 GAL P-39Q-5.....110 GAL P-39Q-10 & -15...120 GAL	2-.50 300 200 1-37MM 30	WING - FIXED NOSE - FIXED PROP. - TYPE M1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110FG-1. (20 MARCH 1944) ** KITS AVAILABLE IN SERVICE TO INCREASE BUILT-IN FUEL OF P-39Q-1 & -5 TO 120 GAL.		
P-39Q-BE -20 TO -30 INCL.	ALLISON V-1710-85 (A) SINGLE SPEED AERO PRODUCTS	AS ABOVE	AS ABOVE	AS ABOVE	1	WING TOTALS 12-120 DROPP.-BELLY 1x75 or 1x156 or 1x175 295 TOT.	2-.50 200 1-37MM 30	NOSE - FIXED PROP. - TYPE M1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE * P-39Q-20 HAS 3 BLADED PROPELLER; 11'7" DIA. P-39Q-30 HAS 3 BLADED PROPELLER; 11'0" DIA. P-39Q-21 & -25 HAS 3 BLADED PROPELLER; 11'7" DIA.		

MODEL & BLOCK NO.	TAKE OFF & LANDING				HIGH SPEED & CLIMB				RANGE & ENDURANCE										REMARKS ON PERFORMANCE							
	HARD SURFACE - NO WIND				AT NORMAL COMBAT WEIGHT				STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE																	
	GROSS WEIGHT LB.	TO CLEAR 50 FT. DIST. FT.	LAND. DIST. FT.	LANDING SPEED MPH	T.O. DIST. FT.	LAND. DIST. FT.	WEIGHT LB.	STD. ALT. FT.	MIL. POWER HP	HIGH SPEED RATE OF CLIMB FT/MIN.	MAX. CONTIN. POWER HP	HIGH SPEED RATE OF CLIMB FT/MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT. RANGE ENDUR. MILES HOURS	MAX. CRUISE POWER AT 25000 FT. RANGE ENDUR. MILES HOURS		LONG RANGE AT 10000 FT. RANGE ENDUR. MILES HOURS						
P-39L-BE -1	7000	-	1950	84	1150	1300	7000	25000	323	650	309	14.9	9100	NONE	495	-	-	-	-	1075	5.4					
P-39M-BE -1	7000	-	1950	84	1150	1300	7000	25000	357	1200	343	12.8	8400	NONE	400	1.4	550	2.2	305	2.2	-	-	750	3.8		
P-39N-BE -O TO -5 INCL.	6800	-	1850	83	1150	1300	7600	25000	368	1175	350	11.9	8750	NONE	252	1.8	850	3.2	-	-	-	-	975	4.9	RANGE AND ENDURANCE OF 1st. 166 P-39N-0 ARTICLES SHOWN AS P-39Q-10 thru -40 LISTED BELOW.	
P-39Q-BE -1 TO -15 INCL.	7900	3100	2100	89	2100	1650	7000	20000	347	1900	342	6.6	8000	NONE	162	1.3	525	2.0	325	2.2	-	-	625	3.0		
P-39Q-BE -1 TO -15 INCL.	8100	3050	2150	91	2000	1600	7000	15000	376	2150	366	6.1	7550	NONE	87	1.5	300	0.9	300	1.0	-	-	350	4.5	SEE NOTE (B) BELOW.	
P-39Q-BE -1 TO -15 INCL.	8700	3600	-	-	2350	-	7000	10000	357	2600	345	4.0	8050	NONE	87	1.5	225	0.9	225	1.0	-	-	275	1.4		
P-39Q-BE -1 TO -15 INCL.	8800	3700	-	-	2400	-	7000	5000	330	2600	322	2.1	8900	NONE	255	525	1.9	900	3.3	-	-	-	-	1075	5.5	
P-39Q-BE -1 TO -15 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	SEE NOTE (B) BELOW.
P-39Q-BE -10 TO -30 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	NOTE: PRELIMINARY TESTS OF P-39Q-21 & -25 SHW THAT 4 BLADED PROPELLER MATERIALLY IMPROVES DIRECTIONAL STABILITY, BUT NOT PERFORMANCE. SEE NOTE (B) BELOW.

NOTES:

RANDOM P-39 MODELS MODIFIED FOR AIR/GROUND SUPPORT BY INSTALLATION OF CAMERAS, BELLY ARMOR, ETC.
* 1000 RES./GUN MAX. W.P. GROUND STRAPPING: 300 RES./GUN NORMAL.
ATTENTION: KITS AVAILABLE IN SERVICE TO INCREASE BUILT-IN FUEL CAPACITY OF ALL P-39 & P-39N MODELS TO 120 GAL. PERFORMANCE WILL BE SAME AS SHOWN FOR P-39Q-10 THRU -30 MODELS.

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.
* MILITARY POWER AVAILABLE FOR 15 MINUTES.
(A) ARRANGEMENTS ARE BEING MADE TO INSTALL CONVENTIONAL QUADRANT IN P-39Q-10 THRU P-39Q-30 ON AIRPLANE ALLOCATED TO AAF.
P-39Q-10 THRU P-39Q-30 HAVE AN AUTOMATIC SPEED-BOOST CONTROL.
(B) RANGES SHOWN WERE ESTIMATED FOR CONVENTIONAL TYPE AIRPLANES; AIRPLANES EQUIPPED WITH AUTOMATIC SPEED-BOOST CONTROL PROBABLY WILL NOT ATTAIN MAXIMUM RANGES AS SHOWN.



P-39
"AIRACOBRA"

MANUFACTURED BY BELL (Buffalo) "RE"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	PAGE 32 AS OF: 23 FEB. 1945	
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE			
	ENGINE MFG. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY		MAX. LOAD LB.	TYPE		
P-40E&E-1 -CU	1	ALLISON W-1710-39 SINGLE SPEED CURTISS 11'0" DIA. - 3EL. CONST. SPD. BLADES	T 1150/8 L M 1150/11700 C 1000/10800	S 37'4" L 31'9" H 12'4" T 8'2" W 236 sq. ft.	B 6900 C 8400 W -	1	REAR - WING FRONT - WING FUSELAGE DROPP. - BELLY	1 x 52 1 x 35 1 x 62 1 x 52	6-.50	251 (average)	WING - FIXED	NONE	1-500 & * 2-100 or * 6- 20. 1-325 1-250 1-100	700	SCR-285 or SCR-274B	TECHNICAL ORDER 01-9527-1. (REV. 10 SEPT. 1944) * NO EXTERNAL WING BOMBS ON EARLY MODELS. * WITHOUT RAM.		
P-40F-CU -1 TO -20 INCL.	1	PACKARD W-1650-1 SINGLE STG. - 2 SPD CURTISS 11'0" DIA. - 3EL. CONST. SPD. BLADES	T 1300/8 L M 1240/11500 C 1080/9500	S 37'4" L 33'4" H 12'4" T 8'2" W 236 sq. ft.	B 7000 C 8500 W -	1	REAR - WING FRONT - WING FUSELAGE DROPP. - BELLY	1 x 54 1 x 37 1 x 66 1 x 52, 75 150 or 170 327 TOT.	A 5	A B O V E		A S	A B O V E	AS ABOVE	SCR-274B or SCR-522A & SCR-695	TECHNICAL ORDER 01-2508-1 (20 SEPT. 1944) REVISED * P-40F-1 LENGTH SAME AS P-40E. ALL SUBSEQUENT MODELS HAVE EXTENDED FUSELAGE.		
P-40K-CU -1 TO -15 INCL.	1	ALLISON W-1710-73 SINGLE SPEED CURTISS 11'0" DIA. - 3EL. CONST. SPD. BLADES	T 1325/8 L M 1150/11800 C 1000/11000	AS ABOVE	B 6950 C 8400 W -	1	AS ABOVE	AS ABOVE	A 5	A B O V E		A S	A B O V E	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-2508-1 (15 OCT. 1944) REV. * P-40K-1 & -5 LENGTH SAME AS P-40E. ALL SUBSEQUENT MODELS HAVE EXTENDED FUSELAGE. * WITHOUT RAM.		
P-40L-CU -1 TO -20 INCL.	1	PACKARD W-1650-1 SINGLE STG. - 2 SPD CURTISS 11'0" DIA. - 3EL. CONST. SPD. BLADES	T 1300/8 L M 1240/11500 C 1080/9500	AS ABOVE	B 7000 C 8500 W -	1	REAR - WING FUSELAGE DROPP. - BELLY	1 x 54 1 x 66 1 x 52, 75 150 or 170 291 TOT.	4-.50	201 (average)	WING - FIXED	A S	A B O V E	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-2508-1 (REV. 20 SEPT. 1944) * P-40L-1 FUEL AND ARMAMENT SAME AS P-40E SERIES.		
P-40M-CU -1 TO -10 INCL.	1	ALLISON W-1710-81 SINGLE SPEED CURTISS 11'0" DIA. - 3EL. CONST. SPD. BLADES	T 1200/8 L M 1125/11700 C 1000/16400	AS ABOVE	B 6950 C 8400 W -	1	REAR - WING FRONT - WING FUSELAGE DROPP. - BELLY	1 x 54 1 x 37 1 x 66 1 x 52, 75 150 or 170 327 TOT.	6-.50	251 (average)	WING - FIXED	A S	A B O V E	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-2508-1. (REV. 15 OCT. 1944)		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT					RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE		
	GROSS WEIGHT LB.	TO CLEAR 50'		GROUND-RUN		STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS-CARGO-PASS. LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10,000 FT.		MAX. CRUISE POWER AT 10,000 FT.		LONG RANGE AT 10,000 FT.					
		T.O. DIST. FT.	LAND. DIST. FT.	LANDING SPEED M.P.H.	T.O. DIST. FT.		LAND. DIST. FT.	HIGH SPEED M.P.H.	RATE OF CLIMB FT./MIN.	HIGH SPEED M.P.H.				RATE OF CLIMB FT./MIN.	TIME TO CLIMB MIN.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES		ENDUR. HOURS	RANGE MILES
P-40E&E-1 -CU	7900 8100 8400 8700 9100	- 2500 3125 3400 4300	1590 1700 1750 -	84 87 90 -	950 1090 1100 -	25000 20000 15000 10000 5000	- 330 362 346 320	- 980 1150 2170 2100	265 300 312 313 296	520 # # # #	18.2 11.5 7.6 4.8 2.4	9100 8700 9200	NONE NONE NONE	201 116 116	425 385 300	1.5 1.3 1.1	- - -	675 525 450	2.7 2.0 1.9	- - -	850 490 575	4.1 3.0 2.8	
P-40F-CU -1 TO -20 INCL.	7500 8850 9200 9350 9550 10000	- 3700 4150 4400 4700 5750	1700 1900 2450 2550 2700 3100	81 85 86 87 88	1050 1250 1300 1350 1400 -	25000 20000 15000 10000 5000	350 364 352 340 320	1000 1100 1260 2210 2160	- 300 332 320 300	500 1000 1500 # #	18.3 11.6 7.6 4.5 2.4	10000 9350 9200 8850 9550	NONE NONE NONE NONE NONE	327 232 209 157 157	- 550 475 375 385	- 1.8 1.5 1.2 1.2	- 550 700 625 350	- 2.1 1.8 1.6 1.6	- 800 700 600 500	- 3.1 2.7 2.0 2.0	- - - -	1500 1000 875 700 600	7.2 4.5 4.0 2.8 2.9
P-40K-CU -1 TO -15 INCL.	7500 8800 9150 9300 9500 10000	- 2950 3150 3200 3350 -	1700 1950 2000 2050 2100 -	81 84 85 86 87	1050 1300 1350 1400 -	25000 20000 15000 10000 5000	- 330 362 342 320	265 1100 1650 2000 2100	350 300 312 313 296	18.5 11.2 7.5 4.9 2.4	10000 9300 9150 8800 9500	NONE NONE NONE NONE NONE	327 232 209 157 157	- 500 400 350 300	- 1.7 1.4 1.1 1.1	- - - -	900 750 600 550	3.5 3.1 2.2 2.2	- - - -	1100 1000 900 700 600	6.3 5.0 4.3 3.1 3.0		
P-40L-CU -1 TO -20 INCL.	7500 8400 8800 9300 10000	- 2350 2650 3150 4000	1700 1850 1950 2000 -	81 85 86 87	1050 1200 1300 1350 -	25000 20000 15000 10000 5000	353 360 361 346 328	850 1500 2025 2180 2070	330 335 338 320 308	14.7 10.2 7.2 4.5 2.4	10000 9300 8800 8600 9300	NONE NONE NONE NONE NONE	327 291 195 120 157	650 450 325 275 300	2.3 1.6 1.0 0.8 1.0	- 750 475 300 250	- 2.6 1.6 1.2 1.2	- 900 600 425 350	5.0 3.8 2.3 1.4 2.1	- - - -	1200 800 500 425	7.2 5.6 3.7 2.0 3.1	
P-40M-CU -1 TO -10 INCL.	7500 8400 8800 9300 10000	- 2350 2650 3150 4000	1700 1850 1950 2000 -	81 85 86 87	1050 1200 1300 1350 -	25000 20000 15000 10000 5000	353 360 361 346 328	850 1500 2025 2180 2070	330 335 338 320 308	14.7 10.2 7.2 4.5 2.4	10000 9300 8800 8600 9300	NONE NONE NONE NONE NONE	327 291 195 120 157	650 450 325 275 300	2.3 1.6 1.0 0.8 1.0	- 750 475 300 250	- 2.6 1.6 1.2 1.2	- 900 600 425 350	5.0 3.8 2.3 1.4 2.1	- - - -	1150 1000 700 575	7.6 5.0 3.3 3.1	

NOTES:

RED FIGURES ARE PRELIMINARY, SUBJECT TO REVISION AFTER FLIGHT CHECK
 * MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.
 # MILITARY POWER AVAILABLE FOR 15 MINUTES.



P-40
"WARHAWK"

MANUFACTURED BY CURTISS (Buffalo) "CU"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	PAGE 33 AS OF: 23 FEB. 1945
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT A-REC-THIN W-WAR MAX.			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY		MAX. LOAD LB.	TYPE	
P-40N-CU -1	ALLISON V-1710-81 SINGLE SPEED CURTISS 11'0" DIA. - 3 BL. CONST. SPD. BELT	1200/SL 1125/17300 1000/16400	S 37'4" L 33'4" H 12'4" T 8'2" W 236 sq. ft.	B 6400 C 7725 A-11000 W -	1	REAR - WING FUSLAGE DROPPING - BELLY 1 x 54 1 x 68 1 x 75, 150 or 170 300 TOT.	4-.50	201 (average)	WING - FIXED	NONE	1-500 & 2-100 or 6-20. 1-225 1-250 1-100	300	SCR-274N or SCR-522A & SCR-695	TECHNICAL ORDER 01-250N-1. (15 JAN. 1945) * PROVISIONS FOR RACES ONLY.			
P-40N-CU -5 TO -15 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	B 6700 C 8400 A-11500 W -	1	REAR - WING FRONT - WING FUSLAGE DROPPING - BELLY 1 x 54 1 x 37 1 x 70 1 x 75, 150 or 2-225 511 TOT.	6-.50	281 (average)	WING - FIXED	NONE	1-500 & 2-500 or 2-100 or 6-20. 1-225 1-250 1-100	1500	AS ABOVE	REFERENCE AS ABOVE * PROVISIONS FOR 2-225 GAL. FERRYING TANKS or 2-500 LB. or 2-100 LB. EXTERNAL WING BOMBS IN ADDITION TO 1-500 LB. BOMB IN PLACE OF BELLY TANK. SPACE ONLY FOR 6-20 LB. BOMBS.			
P-40N-CU -20 THRU -30	ALLISON V-1710-99 SINGLE SPEED CURTISS 11'0" DIA. - 3 BL. CONST. SPD. BELT	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AND NOTE AS ABOVE. * FIRST 1272 AIRPLANES OF P-40N-20 SERIES DO NOT HAVE MODIFIER ON AUTOMATIC SPEED-BOOST CONTROL; REMAINDER -20 & ALL -20 INCORPORATE A MANIFOLD PRESS. MODIFIER. * STARTING WITH -35 AUTOMATIC SPEED BOOST CONTROL IS BEING DISCONTINUED.			
P-40N-CU -35	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-250N-1. (15 JAN. 1945)			
P-40N-CU -40	ALLISON V-1710-115 SINGLE SPEED CURTISS 11'0" DIA. - 3 BL. CONST. SPD. BELT	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-250N-1. (15 JAN. 1945)			
COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE				
	TO CLEAR 50		LANDING SPEED M.P.H.	GROUND-RUN		STD. ALT. FT.	MIL. POWER HIGH SPEED M.P.H.	MAX. CONTIN. POWER RATE OF CLIMB FT./MIN.	HIGH SPEED RATE OF CLIMB FT./MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO #&#.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE									
	T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.									AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	RANGE	ENDUR.	RANGE		ENDUR.	RANGE	ENDUR.	RANGE
P-40N-CU -1	7000 7725 8250 8425 8850	- 2150 2950 3100 3500	1650 1750 1850 1950	92 96 105 110	1000 1100 1100 1150	25000 20000 15000 10000 5000	332 346 348 351 313	1225 1250 1200 2525 2425	313 390 333 315 277	12.4 9.1 6.7 4.1 2.1	8850 8250 7725 8225	NONE NONE 7725 900	292 197 122 122	600 380 230 210	2.0 1.4 0.8 0.8	- 500 290 260	- 1.9 1.1 1.1	1050 760 430 420	4.4 3.2 1.7 1.8	- - - -	1250 850 520 480	6.7 3.4 2.5 2.3					
P-40N-CU -5 TO -15 INCL.	7000 8400 8900 9100 9500 11400	- 2700 3550 3800 4700	1650 1850 1900 1900	92 100 109 109	1600 1800 1200 1250	25000 20000 15000 10000 5000	325 340 343 325 308	900 1550 2130 2230 2120	306 325 328 310 291	13.0 8.5 6.0 4.7 2.4	11400 9500 8900 8400 8900	NONE NONE NONE NONE 900	611 331 236 161 161	1250 675 470 320 300	4.4 2.3 1.6 1.1 1.1	- - 600 400 370	- - 2.3 1.4 1.4	2250 1250 930 600 590	9.8 5.4 3.9 2.3 2.5	- - - - -	2500 1550 1080 750 -	14.1 7.6 5.1 3.5 -	NO RANGE DATA WITH 1500 LB. BOMBS. PERFORMANCE DATA WITH EXTERNAL WING AND BELLY RACES.				
P-40N-CU -20 THRU -30	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	RANGE FOR MAX. CONTINUOUS AND MAX. CRUISE POWER APPLIC. AS ABOVE. LONG RANGE CONDITIONS SHOWN ABOVE MAY NOT BE ATTAINED ON SOME AIRPLANES BECAUSE OF PRESENT SET UP OF AUTOMATIC SPEED-BOOST CONTROL.				AS ABOVE	NO RANGE DATA AVAILABLE.								
P-40N-CU -35, -40	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

NOTES:

RED FIGURES ARE PRELIMINARY, SUBJECT TO REVISION AFTER FLIGHT CHECK

* MILITARY POWER AVAILABLE FOR 15 MINUTES



P-40
"WARHAWK"

MANUFACTURED BY CURTISS (Buffalo) "CO"

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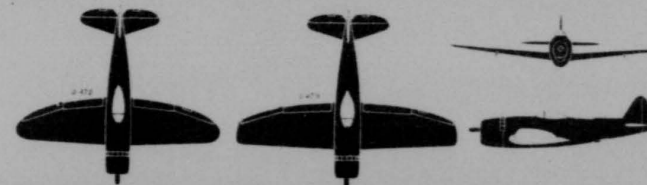
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.			SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT A-RECOMB W-WAR MAX	TANK TYPE OR LOCATION		NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE OR STATION	EXTERNAL NO & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE	
P-47D-RE -27	1	PRATT-WHITNEY R-2800-59 TURBO HAMILTON STD. 13'0" DIA. - 4 BL. CONST. SPD. HYDR.	T 2000/5 L M 2000/33000 C 2535/27000 1625/30000	S 40'9" L 36'1" H 14'7" T 15'6" W 300 sq. ft.	B 10700 C 11600 A 17500	1	MAIN - FUS. AUX. - FUS. DROPP. BELLY EXT. - WINGS & BELLY	1x270 1x100 1x 75 or 1x110 2x150 & 1x110	6) or 8)	267 NO. 485 MAX.	WING-FIXED	NONE	2-1000 or 3- 500 or 3- 250 or 3- 100	2500	SCR-274W or SCR-522A & SCR-695 & AN/APS-13	TECHNICAL ORDER 01-6550-1a (REV. 5 MARCH 1945) * WAR EMERGENCY RATING. * THEATER MODIFICATION.
P-47D-RE -28&-30 P-47D-RA -28&-35	1	PRATT-WHITNEY R-2800-59 TURBO CURTISS 13'0" DIA. - 4 BL. CONST. SPD. HYDR.	T AS ABOVE M AS ABOVE C AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 10600 C 11500 A 17500	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE.
P-47M-I-RE	1	PRATT-WHITNEY R-2800-57 TURBO CURTISS 13' DIA. - 4 BL. CONST. SPD. ELECT.	T 2100/5 L M 2100/38750 C 2800/32500 1700/42000	S 40'9" L 36'1" H 14'9" T 15'6" W 300 sq. ft.	B 11100 C 11700	1	MAIN - FUS. AUX. - FUS. DROPP. BELLY	1 x 270 1 x 100 1 x 110	6) or 8)	267 NO. 500 MAX.	WING-FIXED	NONE	1-500 or 1-250 or 1-100	500	AS ABOVE	* WAR EMERGENCY RATING.
P-47N-RE -1, -5	1	AS ABOVE	T AS ABOVE M AS ABOVE C AS ABOVE	S 42'7" L 35'5" H 14'9" T 18'6" W 322 sq. ft.	B 11640 C 12700	1	MAIN - FUS. AUX. - FUS. DROPP. BELLY EXT. - WINGS & BELLY	1 x 270 1 x 100 1 x 110 2 x 150 or 1 x 110	6) or 8)	267 NO. 500 MAX.	WING-FIXED	NONE	2-1000 or 3- 500 or 3- 325 or 3- 250 or 3- 100	2500	SCR-522A SCR-695 AN/APS-13 AN/ARA-8	TECHNICAL ORDER 01-6550-1. (15 JAN. 1945) (P) P-47M-5-RE & SUBSEQUENT MODELS HAVE FOLLOWING ZERO LENGTH RAIL ROCKET INSTALLATIONS ADDED: (6) WITH BOMBS or DROPP. FUEL TANKS, or (10) WITHOUT BOMBS or DROPP. FUEL TANKS. * THEATER MODIFICATION.

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS					
	GROSS WEIGHT	TO CLEAR 50 FT.		LANDING SPEED	GROUND-RUN		STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
		T.O. DIST.	LAND. DIST.		T.O. DIST.	LAND. DIST.		FT.	MPH	FT/MIN	MPH	FT/MIN	MPH				FT/MIN	MIN	MIN	MIN	MIN	MIN		MIN	MIN	MIN	MIN	MIN
		LB	FT		FT	FT		FT	MPH	FT/MIN	MPH	FT/MIN	MPH				FT/MIN	MIN	MIN	MIN	MIN	MIN		MIN	MIN	MIN	MIN	MIN
P-47D-RE -27	12000 13500 14500 15500 16500 17500	- 3300 4100 4900 5700 6500	2500 2500 2700 2700 2700 2700	100 100 105 105 105 110	1500 1700 1800	0097 0097 0097 0097 0097 0097	30000 25000 20000 15000 10000 5000	433 436 424 427 389 300	1575 2270 2650 2870 3060 370	1825 1825 2125 2325 2525 3125	1825 1825 2125 2325 2525 3125	1825 1825 2125 2325 2525 3125	11.0 11.0 11.0 11.0 11.0 11.0	17500 16700 15400 15100 14600 11200	NONE NONE NONE NONE NONE NONE	750 670 620 645 570 370	850 850 850 850 850 850	2.9 2.9 2.9 2.9 2.9 2.9	825 825 825 825 825 825	2.4 2.4 2.4 2.4 2.4 2.4	950 950 950 950 950 950	3.7 3.7 3.7 3.7 3.7 3.7	960 960 960 960 960 960	3.4 3.4 3.4 3.4 3.4 3.4	1525 1525 1525 1525 1525 1525	7.9 7.9 7.9 7.9 7.9 7.9	NO RANGE WITH BOMB LOAD AVAILABLE. PERFORMANCE SHOWN WITHOUT EXTERNAL BOMB.	
P-47D-RE -28&-30 P-47D-RA -28&-35						0097	30000 25000 20000 15000 10000 5000	428 428 415 398 382 363	1175 2230 2650 2870 3060 370	1825 1825 2125 2325 2525 3125	1825 1825 2125 2325 2525 3125	1825 1825 2125 2325 2525 3125	11.0 11.0 11.0 11.0 11.0 11.0	17100 16600 15300 15000 14500 11500	NONE NONE NONE NONE NONE NONE	750 670 620 645 570 370											AS ABOVE	
P-47M-I-RE						0097	30000 25000 20000 15000 10000 5000	433 433 424 427 389 300	1575 2270 2650 2870 3060 370	1825 1825 2125 2325 2525 3125	1825 1825 2125 2325 2525 3125	1825 1825 2125 2325 2525 3125	11.0 11.0 11.0 11.0 11.0 11.0	17100 16700 15400 15100 14600 11200	NONE NONE NONE NONE NONE NONE	750 670 620 645 570 370											AS ABOVE	
P-47N-RE -1, -5	12300 16300 18000 20000	- 4250 5900 8500	3500 4150 4150 4150	115 125 125 125	2150 2750 2750 2750	0097	30000 25000 20000 15000 10000 5000	433 433 424 427 389 300	1575 2270 2650 2870 3060 370	1825 1825 2125 2325 2525 3125	1825 1825 2125 2325 2525 3125	1825 1825 2125 2325 2525 3125	11.0 11.7 11.7 11.7	20660 19370 16700 17800 16800	NONE NONE NONE 1000 2000	1156 996 556 556 556	1280 1550 1550 1550 1550	3.7 3.7 3.7 3.7 3.7	1550 1550 1550 1550 1550	4.9 4.9 4.9 4.9 4.9	2350 2300 2300 2300 2300	9.6 9.4 9.4 9.4 9.4						

NOTES:

RED FIGURES ARE PRELIMINARY. ALL FIGURES ARE APPROXIMATE.



P-47
THUNDERBOLT

MANUFACTURED BY REPUBLIC (Farmingdale) "RE" & REPUBLIC (Evansville) "RA".

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	PAGE 36 AS OF: 28 Feb. 1945
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T-TAKE-OFF WAR EMERGENCY M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAX.	TANK TYPE OR LOCATION		NO. TANKS & CAPACITY US GAL.	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	TYPE		
P-51A-NA -1 TO -10 INCL.	1	ALLISON V-1710-S1 SINGLE SPEED CURTISS 10"9" DIA. - 3 BL. CONST. SPD. ELECT.	T 1200/8 L M 1125/18000 C 1000/17500	S 37' 0" L 32' 3" H 12' 2" T 11' 10" W 233 Sq. ft.	B 6550 C 8600	1	MAIN-R. WING MAIN-L. WING EXT. - WINGS	1 x 90 1 x 90 2 x 75 2 x 150 480 TOT.	2) .50 280	350	OUTRD. - WINGS *INBD. - WINGS	NONE	2-500 2-325 2-250 2-100	1000	SCR-522 SCR-695 SCR-274N SCR-515**	TECHNICAL ORDER 01-60J-1. (REV. 30 SEPT. 1944) * PROVISIONS ONLY. ** SPACE ONLY.	
P-51B-NA -14-5 P-51C-NT -1	1	PACARD V-1650-3 2 SPEED - 2 STAGE HAMILTON STD. 11"2" DIA. - 4 BL. CONST. SPD. ELECT.	T 1100/8 L M 1225/16800 C 1150/19800 M 1150/19800 C 1120/20500 M 1150/21000 C 967/21000	S 37' 0" L 32' 3" H 13' 8" T 11' 10" W 233 Sq. ft.	B 7450 C 9800	1	MAIN-R. WING MAIN-L. WING DROPP. - WINGS	1 x 92 1 x 92 2 x 75 2 x 110 2 x 150 480 TOT.	A S	A B O V E	NONE	2-1000 2-500 2-325 2-250 2-100	2000	SCR-274N SCR-522A & SCR-695	TECHNICAL ORDER 01-60J-1. (REV. 5 JAN. 1945) (f) KITS AVAILABLE FOR 1x85 GAL. FUSELAGE TANK; WHEN INSTALLED THESE MODELS WILL BE SAME AS ONES LISTED BELOW.		
P-51B-NA -7-10 P-51C-NT -3	1	AS ABOVE	AS ABOVE	AS ABOVE	B 7450 C 9800	1	MAIN-R. WING MAIN-L. WING FUSELAGE DROPP. - WINGS	1 x 92 1 x 92 1 x 85 2 x 75 2 x 110 2 x 150 560 TOT.	A	S	A	B	O	V	E	SCR-522 SCR-274N or SCR-274NA MH-26C COMBINATION	TECHNICAL ORDER 01-60J-1. (REV. 5 JAN. 1945) NOTE: LAST(500) P-51B-5 MODELS BECOME B-7 UPON ADDITION OF 1x85 GAL. FUSELAGE TANK. P-51C-3's ARE MODIFIED P-51C-1's.
P-51B-NA -15 P-51C-NT -5 & -10	1	PACARD V-1650-7 2 SPEED - 2 STAGE HAMILTON STD. 11"2" DIA. - 4 BL. CONST. SPD. HYDRO	T 1150/8 L M 1695/10300 C 1190/21000 M 1150/21000 C 1260/25000 M 1150/21000 C 980/21000	S 37' 0" L 32' 3" H 13' 8" T 11' 10" W 233 Sq. ft.	B 7450 C 9800	1	MAIN-R. WING MAIN-L. WING FUSELAGE DROPP. - WINGS	1 x 92 1 x 92 1 x 85 2 x 75 2 x 110 2 x 150 560 TOT.	A	S	A	B	O	V	E	SCR-522 SCR-274N or SCR-274NA MH-26C COMBINATION	TECHNICAL ORDER 01-60J-1. (REV. 5 JAN. 1945) (f) SOME P-51C-5-NT MODELS FOR RECONNAISSANCE WILL NOT CARRY 1x85 GAL. FUSELAGE TANK.

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT					RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS				
	GROSS WEIGHT LB.	TO CLEAR 50' T.O. DIST. FT.		L.O. LANDING SPEED MPH	GROUND RUN T.O. DIST. FT.		STD. ALT. FT.	WAR EMERG. HIGH SPEED MPH		MIL. POWER RATE OF CLIMB FT/MIN.		MAX. CONTIN. POWER HIGH SPEED MPH		TAKE OFF WEIGHT LB.	BOMBS LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER			LONG RANGE			
		AT 10000 FT.	AT 25000 FT.		AT 10000 FT.	AT 25000 FT.		AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.				AT 10000 FT.	AT 25000 FT.							
		RANGE MILES	ENDUR. HOURS		RANGE MILES	ENDUR. HOURS		RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS				RANGE MILES	ENDUR. HOURS							
P-51A-NA -1 TO -10 INCL.	8000 9000 10000 11000	- 3050 3250 3500	2150 2750 3000 3250	100 103 106 110	1550 1850 2100 2350	25000 20000 15000 10000 5000	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	11.7 9.1 6.6 4.4 2.2	12.7 9.1 6.6 4.4 2.2	11200 9600 8600 9100 9600	NONE NONE NONE 500 180	1155 725 425 180 180	1155 725 425 180 180	5.7 2.4 1.5 1.3 1.3	- - - - -	2000 1250 750 725 710	7.5 4.8 2.5 2.5 2.5	- - - - -	2550 1525 1000 950 910	10.3 7.1 4.3 4.2 4.1	PERFORMANCE WITH RADAR REMOVAL OF RADAR IN- CREASES HIGH SPEED APPROX. 10% & RATE OF CLIMB 50% TO 100% PER MINUTE.	
P-51B & C (V-1650-3)	8500 9000 9500 10000 11000	- 2200 2300 2500 3000	2000 2100 2200 2300 3000	100 100 100 100 100	1200 1300 1400 1500 1800	30000 25000 20000 15000 10000 5000	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	11.0 8.9 7.0 5.3 3.6 1.8	11.0 8.9 7.0 5.3 3.6 1.8	11200 10700 10200 9600 10200 11200	NONE NONE NONE 1000 1000 2000	1280 1040 850 465 465 435	1280 1040 850 465 465 435	4.0 3.3 2.7 1.5 1.4 1.4	1500 1180 975 550 545 470	4.4 3.4 2.8 1.6 1.6 1.5	- - - - - -	1780 1710 1710 690 590 710	5.2 7.0 5.9 1.8 1.8 2.9	2070 1680 1440 810 775 695	8.3 7.0 5.9 3.2 3.2 2.8	AS ABOVE
P-51B & C (V-1650-7)	8500 9000 9500 10000 11000	- 2200 2300 2500 3000	2000 2100 2200 2300 3000	100 100 100 100 100	1200 1300 1400 1500 1800	30000 25000 20000 15000 10000 5000	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	11.2 8.4 6.5 4.7 3.0 1.5	11.2 8.4 6.5 4.7 3.0 1.5	11200 10700 10200 9600 10200 11200	NONE NONE NONE 1000 1000 2000	1280 1210 1010 575 530 515	1280 1210 1010 575 530 515	4.6 3.7 3.1 1.6 1.6 1.6	1660 1350 1110 630 570 525	4.5 3.8 3.1 2.5 1.6 1.6	- - - - - -	1780 1710 1710 690 590 710	5.2 7.0 5.9 1.8 1.8 2.9	2070 1680 1440 810 775 695	8.3 7.0 5.9 3.2 3.2 2.8	AS ABOVE
P-51B & C (V-1650-3)	8500 9000 9500 10000 11000	- 2200 2300 2500 3000	2000 2100 2200 2300 3000	100 100 100 100 100	1200 1300 1400 1500 1800	30000 25000 20000 15000 10000 5000	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	12.1 9.6 7.4 5.6 3.8 1.9	12.1 9.6 7.4 5.6 3.8 1.9	11200 11300 10800 9800 10800 11800	NONE NONE NONE NONE 1000 2000	1520 1270 1100 745 695 665	1520 1270 1100 745 695 665	4.7 4.0 3.4 2.2 2.2 2.2	1880 1440 1240 815 730 725	4.7 3.1 2.2 1.6 1.6 1.6	- - - - - -	2200 2070 1840 1115 1050 905	9.0 8.5 7.7 5.1 4.9 4.3	AS ABOVE		
P-51B & C (V-1650-7)	8500 9000 9500 10000 11000	- 2200 2300 2500 3000	2000 2100 2200 2300 3000	100 100 100 100 100	1200 1300 1400 1500 1800	30000 25000 20000 15000 10000 5000	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	1100 1100 1100 1100 1100	11.8 9.0 6.9 4.9 3.1 1.6	11.8 9.0 6.9 4.9 3.1 1.6	11200 11300 10800 9800 10800 11800	NONE NONE NONE NONE 1000 2000	1750 1500 1280 870 790 730	1750 1500 1280 870 790 730	5.4 4.6 3.9 2.4 2.4 2.4	1950 1650 1435 955 870 850	5.4 4.6 3.5 2.4 2.4 2.4	- - - - - -	2100 2080 1850 1150 1080 905	6.1 8.5 7.7 4.8 4.8 4.3	AS ABOVE		

NOTES:

1. ALL FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.
2. MILITARY POWER AVAILABLE FOR 15 MINUTES.



P-51
"MUSTANG"

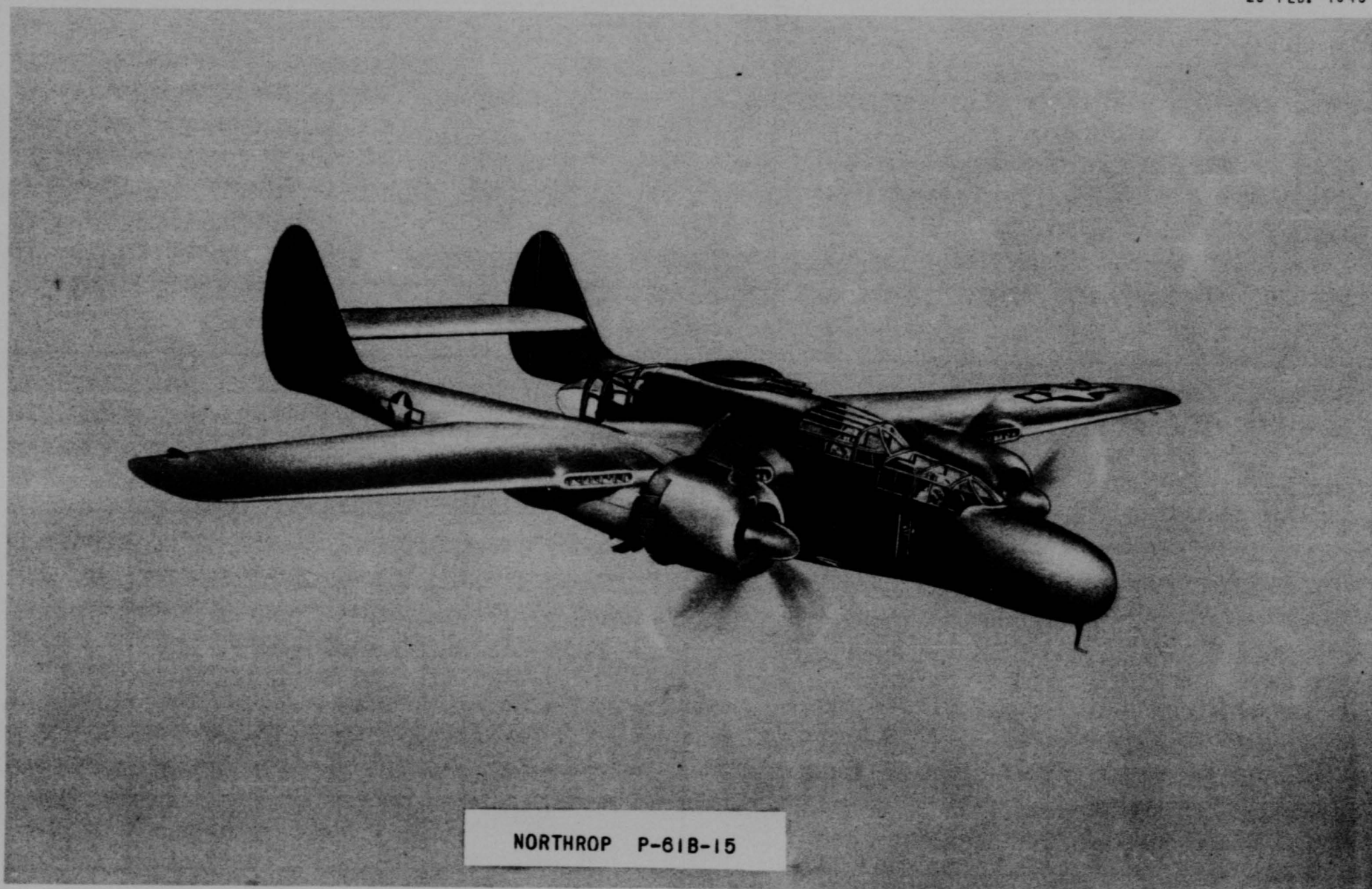
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PAGE 38
AS OF:
23 FEB. 1945



NORTHROP P-61B-15

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.		NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE		
P-61A-NO -1	PRATT-WHITEY R-2800-16 2 SPD.-2 STG. CURTISS 12'2" DIA.-4 BL. P.P. ELECTRIC	1850/8 L 2000/2300 1760/16600 1600/21600 1600/8200 1650/7500 1550/22500	56'	22300	INRD.-WING 2 x 115 2 x 200 650 TOT.	2	2	4-20mm 4-50	200	FORE-FUSELAGE UPPER TURRET	N O N N		AS ABOVE	SCR-722(2) SCR-695 SCR-720 SCR-725 458 DETRO. NO-76 WE-56*	TECHNICAL ORDER 01-157B-1 (10 FEB. 1945) UPPER TURRET ON 1st.(37) P-61A-1's ONLY. CREW OF (3) FOR WEIRLS WITH TOP TURRET. TREATY MODIFICATION.	
P-61A-NO -5,-10 & -11 P-61B-NO -1,-2,-5,-6,-11	PRATT-WHITEY R-2800-16 2 SPD.-2 STG. CURTISS 12'2" DIA.-4 BL. P.P. ELECTRIC	AS ABOVE PLUS THREE MAX. INRD. RATINGS 2250/1500 2050/13000 1925/75500	AS ABOVE	22300	INRD.-WING 2 x 115 2 x 200 2x165 or 2x310* 1250 TOT.	2		4-20mm	200	FORE-FUSELAGE	NONE	3200	AS ABOVE PLUS AM/AFB-15 & SCR-718 OF AM/AFB-1	TECHNICAL ORDER 01-157B-1 (10 FEB. 1945) TWO EXTERNAL WING TANKS or 2-1500 LB. BOMBS CAN BE CARRIED ON P-61A-11; P-61B-2,-6 & -11 ONLY. THE 310 GAL. EXTERNAL FUEL TANKS ARE PRESSURIZED.		
P-61B-NO -10	AS ABOVE	AS ABOVE	AS ABOVE	22300	INRD.-WING 2 x 115 2 x 200 2x165 or 2x310 1870 TOT.	2		AS ABOVE	AS ABOVE	FORE-FUSELAGE	NONE	6400	AS ABOVE	TECHNICAL ORDER 01-157B-1 (10 FEB. 1945) FOUR EXTERNAL WING TANKS or 4-1500 LB. BOMBS CAN BE CARRIED. THE 310 GAL. EXTERNAL FUEL TANKS ARE PRESSURIZED.		
P-61B-NO -15,-16,-20	AS ABOVE	AS ABOVE	AS ABOVE	22300	AS ABOVE EXCEPT P-61B-16 CARRIES ONLY (2) EXTERNAL WING TANKS	3		4-20mm 4-50	200	FORE-FUSELAGE UPPER TURRET	AS ABOVE EXCEPT P-61B-16 HAS ONLY (2) EXTERNAL BOMB STATIONS.		AS ABOVE PLUS AM/ARM-7	TECHNICAL ORDER 01-157B-1 (10 FEB. 1945) P-61B-20 HAS NEW G.S. TURRET & FIRE CONTROL SYSTEM.		

MODEL & BLOCK NO.	TAKE OFF & LANDING						HIGH SPEED & CLIMB						RANGE & ENDURANCE										REMARKS				
	HARD SURFACE - NO WIND						AT NORMAL COMBAT WEIGHT						STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE														
	GROSS WEIGHT LB.	TO CLEAR 50 FT. DIST. FT.	LAND. DIST. FT.	LANDING SPEED M.P.H.	T.O. DIST. FT.	LAND. DIST. FT.	WEIGHT LB.	STD. ALT. FT.	WAR EMERG. HIGH SPEED M.P.H.	MIL. POWER RATE OF CLIMB FT./MIN.	MIL. POWER HIGH SPEED M.P.H.	MAX. CONTIN. POWER RATE OF CLIMB FT./MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
P-61A-NO -1	24000	-	2050	-	-	1100	25000	356	1025	360	1025	360	11.0	27600	NONE	630	365	1.2	415	1.3	800	2.7	-	-	1010	4.5	ALL PERFORMANCE SHOWN WITHOUT DE-ICEES.
P-61A-NO -5,-10 & -11 P-61B-NO -1,-2,-5,-6,-11	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	25000	356	1025	360	1025	360	11.3	32400	NONE	1250	750	1.1	-	-	-	-	-	-	1900	4.6	AS ABOVE
P-61B-NO -10	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	25000	356	1025	360	1025	360	11.3	30400	NONE	960	560	1.8	620	1.8	-	-	-	-	1900	4.6	AS ABOVE
P-61B-NO -15,-16,-20	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	25000	356	1025	360	1025	360	11.3	28000	NONE	690	365	1.2	415	1.3	800	2.7	-	-	1010	4.5	AS ABOVE
							29700	352	830	356	800	357	-	36300	NONE	1870	-	-	-	-	-	-	-	-	-	-	AS ABOVE
							20000	366	1400	354	1300	352	12.0	34100	NONE	1250	-	-	-	-	-	-	-	-	-	-	AS ABOVE
							15000	362	1960	348	1570	340	8.6	32100	NONE	960	550	1.8	610	1.8	-	-	-	-	1350	5.9	AS ABOVE
							10000	352	2220	331	1680	318	5.6	29700	NONE	690	360	1.2	410	1.3	785	2.7	-	-	940	4.2	AS ABOVE
							5000	333	2260	322	1820	300	2.7	31700	2000	690	-	-	-	-	-	-	-	-	-	-	AS ABOVE
							S L	350	2550	316	2090	281	0.0	33700	4000	690	-	-	-	-	-	-	-	-	-	-	AS ABOVE

NOTES:

RED FIGURES ARE PRELIMINARY, SUBJECT TO REVISION AFTER FLIGHT CHECK.
* MILITARY POWER AVAILABLE FOR 15 MINUTES.



P-61

"BLACK WIDOW"

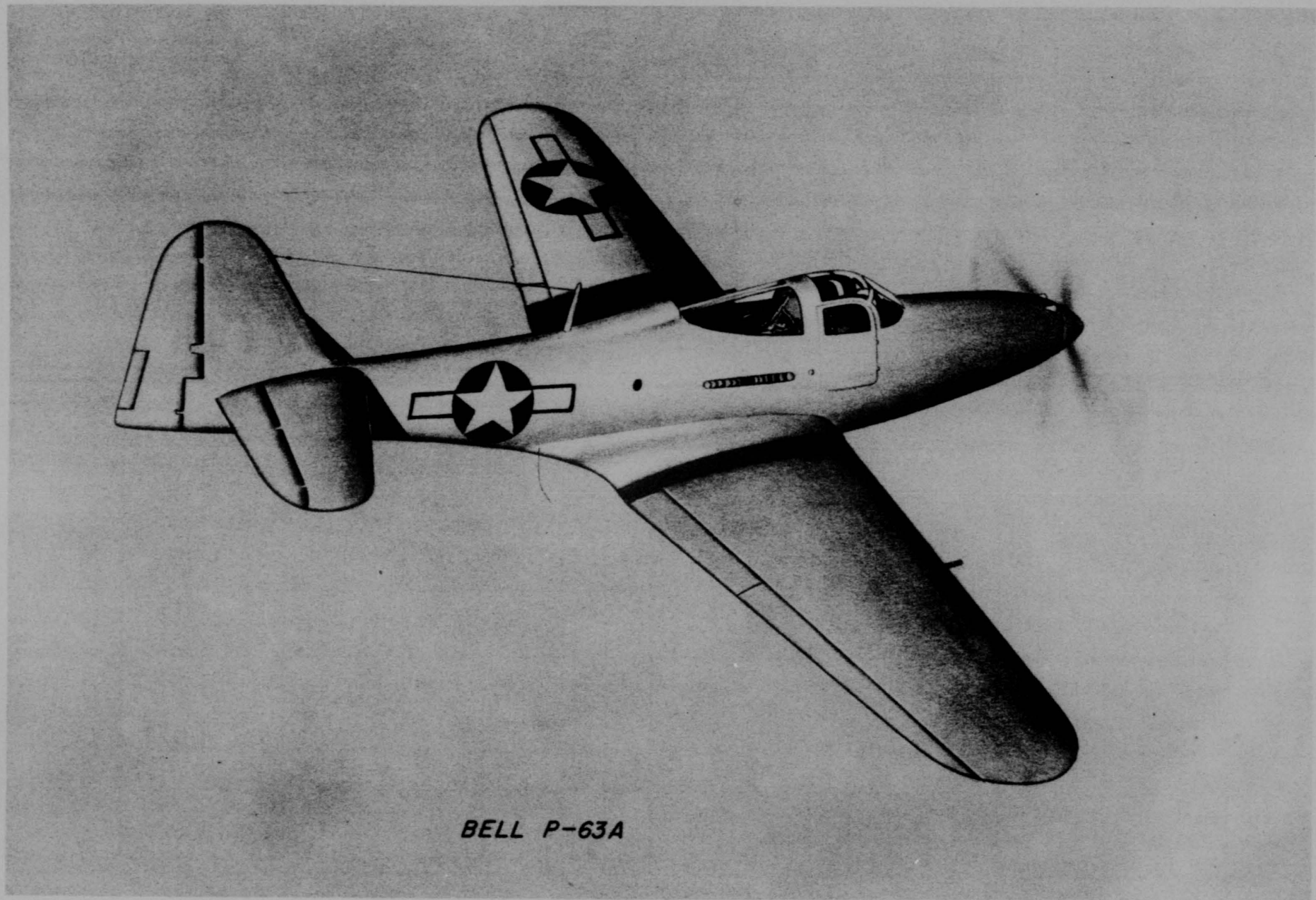
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PAGE 40
AS OF:
25 JAN. 1945



BELL P-63A

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA		B-BASIC C-COMBAT W-RECOIL W-WAR MAX.	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	TYPE	
			T-TAKE-OFF M-MILITARY C-CONTINUOUS									NO. & SIZE OR STATION	NO. & SIZE OR CAPACITY			
P-63A-BE -1 TO -7 INCL.	1	ALLISON V-1710-93 2 STAGE AEROPRODUCTS 11'7" DIA. - I.B.L. CONST. SPD. HYDR.	T 1325/8 L M 1150/24200 C 1000/20000	S 38'4" L 32'8" H 12'3" T 14'7" W 21'8" sq.	B 6925 C 8350 W -	1	MAIN - WINGS DROP. - BELLY & DROP. - WINGS (See f)	2 x 65 1 x 75 1 x 75 2 x 75 161 TOT.	1-37mm 2-.50 2-.50	30 250 200	PROP. - TYPE M4 WING - FIXED NOSE - FIXED	NONE	1-500f 1-325f 1-250f 1-100f	500 or 1500f	SCR-271E & BC-198 or SCR-502 & UTRULA 438 & SCR-995	TECHNICAL ORDER 01-110FP-1. (10 FEB. 1945) f EXTERNAL WING TANKS OF BOMBS ADDED TO P-63A-6 & SUBSEQ. NO WAR EMERGENCY RATING.
P-63A-BE -8, -9, -10	1	ALLISON V-1710-93 2 STAGE AEROPRODUCTS 11'7" DIA. - I.B.L. CONST. SPD. HYDR.	AS ABOVE	AS ABOVE	AS ABOVE	1	MAIN - WINGS DROP. - BELLY & DROP. - WINGS (See f)	2 x 65 1 x 64 1 x 75 2 x 75 161 TOT.	1-37mm (98*) 2-.50 2-.50	30 250 200	PROP. - TYPE M10 PROP. - TYPE M4 WING - FIXED NOSE - FIXED	NONE	3-500 3-325 3-250 3-100	1500	AS ABOVE	REFERENCE AS ABOVE f TYPE M10 CAMBER ON P-63A-9 & SUBSEQUENT MODELS. f PROVISIONS FOR 1204 GAL. SELF SEALING BELLY TANK.
P-63C-BE -1	1	ALLISON V-1710-117 2 STAGE AEROPRODUCTS 11'0" DIA. - I.B.L. CONST. SPD. HYDR.	T 1325/8 L M 1100/27000 C 1000/23000	S 38'4" L 32'8" H 12'3" T 14'7" W 21'8" sq.	B 7425 C 8200 W -	1	MAIN - WINGS DROP. - BELLY & DROP. - WINGS (See f)	2 x 65 1 x 75 1 x 75 2 x 75 161 TOT.	1-37mm 2-.50 2-.50	30 250 200	PROP. - TYPE M10 WING - FIXED NOSE - FIXED	A S	A B C D E	AS ABOVE	PLM AR/APS-15	TECHNICAL ORDER 01-110FQ-1. (BEING PRINTED) f PROVISIONS FOR 1204 GAL. SELF SEALING BELLY TANK. we) WAR EMERGENCY RATING: * 1500 HP. AT S.L. WITHOUT WATER IMJECTION; 1000 HP. AT S.L. WITH WATER IMJECT.
P-63E-BE -1	1	ALLISON V-1710-109 2 STAGE AEROPRODUCTS 11'6" DIA. - I.B.L. CONST. SPD. HYDR.	T 1425/8 L M 1500/28000 C 1050/24000	S 39'2" L 32'8" H 12'9" T 15'1" W 25'5" sq.	B 7300 C 8900 W -	1	MAIN - WINGS DROP. - BELLY & DROP. - WINGS (See f)	2 x 65 1 x 75 1 x 64 2 x 75 161 TOT.	AS ABOVE PLUS: (2) 3 1/2" 45-DUQUET ROCKET PROJECTORS UNDER WINGS.	AS ABOVE	AS ABOVE PLUS:	A S	A B C D E	AS ABOVE	SCR-271E SCR-995 AR/APS-15	TECHNICAL ORDER 01-110FP-1. (BEING PRINTED) ** ALL HP. RATINGS WITHOUT WATER IMJECTION. we) WAR EMERGENCY RATING.

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS						
	GROSS WEIGHT LB.	TO CLEAR 50' DIST.		LANDING SPEED MPH	GROUND-RUN		STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
		T.O. FT.	LAND. FT.		T.O. FT.	LAND. FT.		HIGH SPEED MPH	RATE OF CLIMB FT./MIN.	HIGH SPEED MPH	RATE OF CLIMB FT./MIN.	HIGH SPEED MPH	RATE OF CLIMB FT./MIN.				TIME TO CLIMB MIN.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.		AT 10000 FT.	AT 25000 FT.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS
P-63A-BE -1 TO -7 INCL.	7700 8300 9700 9500 10500	1700 2150 - - -	1800 - - - -	115 - - - -	1100 1300 1500 2000 2500	1150 - - - -	8350	30000 25000 20000 15000 10000 5000	372 421 398 367 373 356	1680 2380 3030 3920 3615 3282	362 461 568 672 555 422	1680 2380 3030 3920 3615 3282	350 505 370 395 335 315	10.1 7.6 7.6 4.2 2.8 1.4	10500 9500 8850 8350 8850	NONE NONE NONE NONE 500	451 301 201 126 126	420 420 375 390 330	2.9 1.9 1.1 1.1 1.1	- - - - -	- - - - -	- - - - -	- - - - -	2200 1800 1150 760 680	12.1 7.7 5.0 3.0 2.7	PERFORMANCE SHOWS WITHOUT EXTERNAL TANKS.		
P-63A-BE -8, -9, -10	A	A	A	A	A	A	8350	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AS ABOVE			
P-63C-BE -1	A	A	A	A	A	A	8800	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AS ABOVE			
P-63E-BE -1	7800 8900 9500 10100	- 1850 2150 2550	2200 2400 - -	117 129 - -	1150 1600 - -	1600 - -	8900	30000 25000 20000 15000 10000 5000	- - - - -	- - - - -	- - - - -	- - - - -	376 369 360 353 336	- - - - -	10100 9500 8900 8400	NONE NONE NONE 500	276 201 126 126	475 425 300 275	1.5 0.8 0.8 0.8	550 600 365 350	2.6 1.8 1.0 1.0	- - - -	- - - -	- - - -	- - - -	1280 1000 675 575	5.0 3.9 2.5 2.2	* MAX. CONTINUOUS POWER AT 10000 FT. EXCEEDS ALLOWABLE MAX. OF 250 I.A.S. WITH WING TANKS.

NOTES:

1. ALL FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK
 2. MILITARY POWER AVAILABLE FOR 15 MINUTES.



P-63

"KINGCOBRA"

MANUFACTURED BY BELL (Buffalo) "BE"

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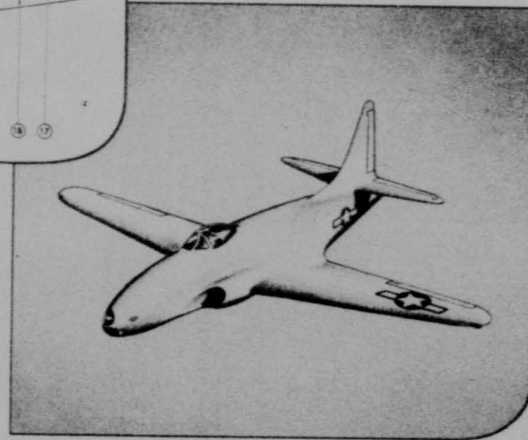
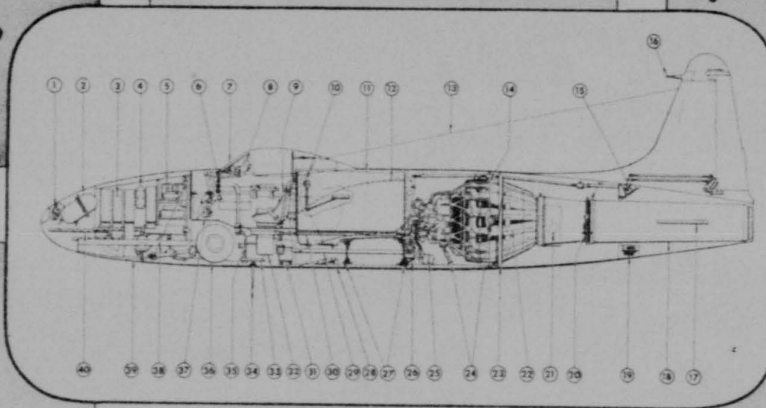
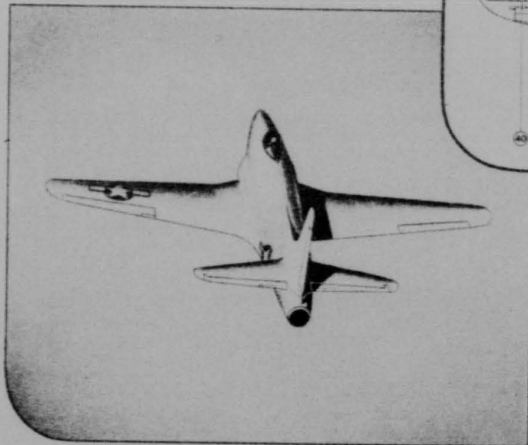
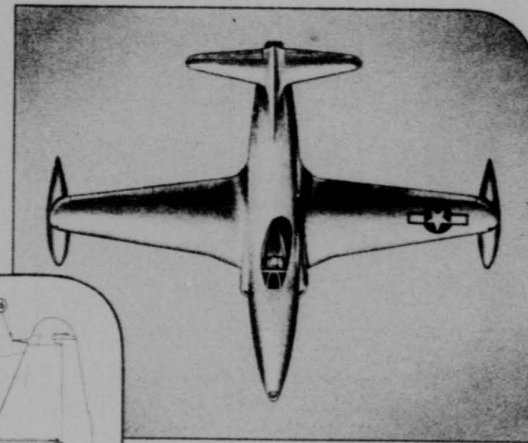
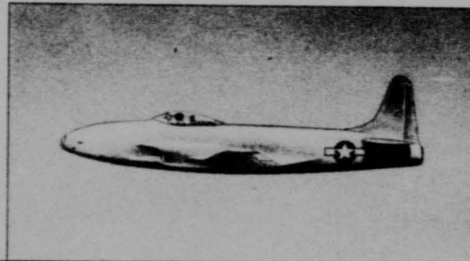
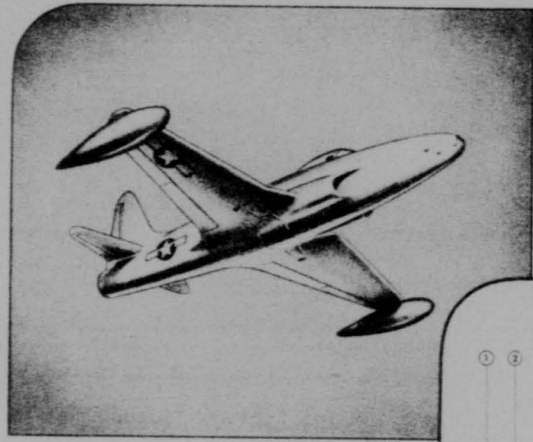
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Page 42
As of:
18 April 1945

LOCKHEED P-80A

Shooting Star



- | | |
|-----------------------------|----------------------------------|
| 1. Landing light | 21. Elevator tab motor |
| 2. Oxygen cylinder | 22. Engine |
| 3. Ammunition box | 23. Air intake seal |
| 4. Armament junction box | 24. Engine mounts |
| 5. Command radio | 25. Fuel filter |
| 6. Instrument panel | 26. Aileron booster |
| 7. Bullet-proof windshield | 27. Wing spars |
| 8. Gun sight | 28. Dive flaps |
| 9. Pilot's seat | 29. Aileron torque tube |
| 10. Fuel gauge transmitter | 30. Elevator push-pull tube |
| 11. Main fuel tank | 31. Identification radio |
| 12. Air intake duct | 32. Electrical junction box |
| 13. Command radio antenna | 33. Batteries |
| 14. Aft fuselage joint | 34. Identification radio antenna |
| 15. Elevator sprit | 35. Elevator-aileron control |
| 16. Air speed pilot | 36. Nose wheel |
| 17. Tail pipe support track | 37. Rudder pedals |
| 18. Tail pipe | 38. Nose section joint |
| 19. Remote compass | 39. Shell case ejection doors |
| 20. Tail pipe clamp | 40. Machine guns--50 cal. |

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE			SIZE	WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-ERGO-PASS		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL TYPE	% MAX. RPM T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WAR MAIL		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR STATION	MAX. LOAD LB.		TYPE
F-80A-10 -1	1	GENERAL ELECTRIC I-40-9 or -11 GAS TURBINE JET PROPULSION UNIT	T 100% R.P.M. M 100% R.P.M. C 96% R.P.M.	S 39' L 34'6" H 11'4" T 8'9" W 23'4" sq. ft.	B 8000 C 11700	1	FUELRAGE MAIN - WING L.E. & OUTDR. DRIP. - EXTER. SEE (f)	1 x 207 2 x 78 2 x 49 2 x 165 759 TOT.	6- .50	300	NOSE (ROCKETS WILL BE INSTALLED ON 100th. & SUBSEQUENT ARTICLES)	NONE	2-1000 2- 500 2- 250 2- 100	2000	AN/ARC-5, SCR-695, BC-1206	(f) USABLE FUEL IS APPROX. 310 GAL. (DROPPABLE EXTERNAL).
			T M C	S L H T W	B C R W											
			T M C	S L H T W	B C R W											
			T M C	S L H T W	B C R W											
			T M C	S L H T W	B C R W											
			T M C	S L H T W	B C R W											

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT								RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE								REMARKS		
	GROSS WEIGHT LB.	TO CLEAR 50 FT.		LANDING SPEED MPH	GROUND-RUN		STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS GROSS WT. LB.	TOTAL FUEL U.S. GAL.	MAX CONTINUOUS POWER				MAX. RANGE				
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.		HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.				TIME TO CLIMB MIN.	at 25000		at 35000		at 25000		at 35000	
F-80A-10 -1	8000 12000 11000	- 4585 6375	3925 4150 -	120 118 -	- 3800 5300	1400 2050 -	14000 35000 30000 25000 20000 15000 10000 5000 S L	492 498 508 521 533 542 548 554 558	1160 1650 2070 2450 2860 3270 3700 4130 4560	480 488 500 510 515 513 508 502 492	- # # # # # # # #	- 12.3 9.5 7.4 5.5 3.8 2.4 1.2 0.0	11000 11700	NONE NONE	759 449	975 555	1.9 1.0	1220 690	2.7 1.4	1100 625	2.7 1.5	1320 780	3.4 1.9		

NOTES:
(A) RANGE IS BASED ON 50 GAL. ALLOWANCE FOR TAKE AND TAKE-OFF.
CLIMB TO ALTITUDE AT 100% R.P.M. FOR ALLOWABLE TIME.

SEE FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.
MILITARY % R.P.M. AVAILABLE FOR 15 MINUTES.



P-80
"SHOOTING STAR"

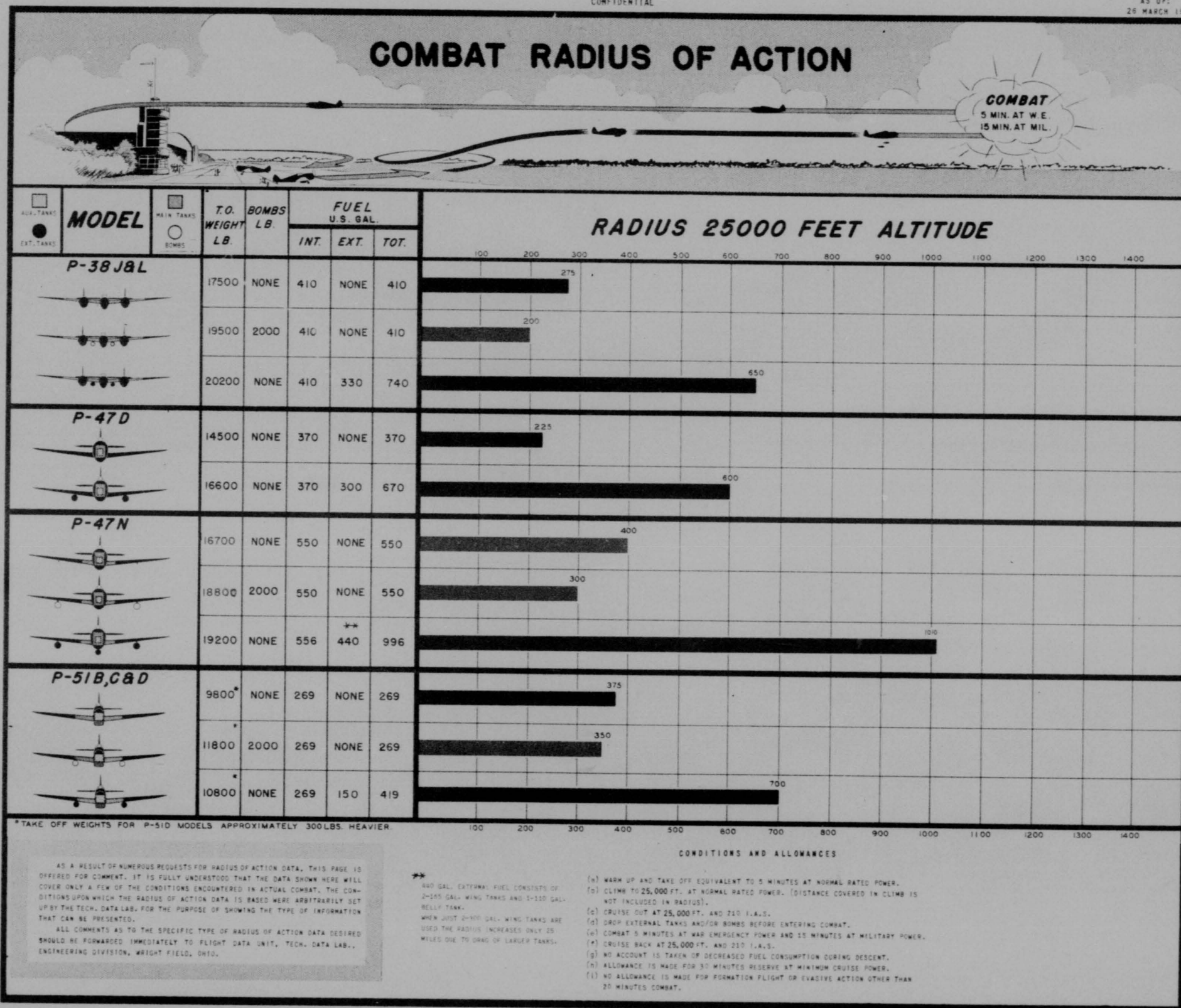
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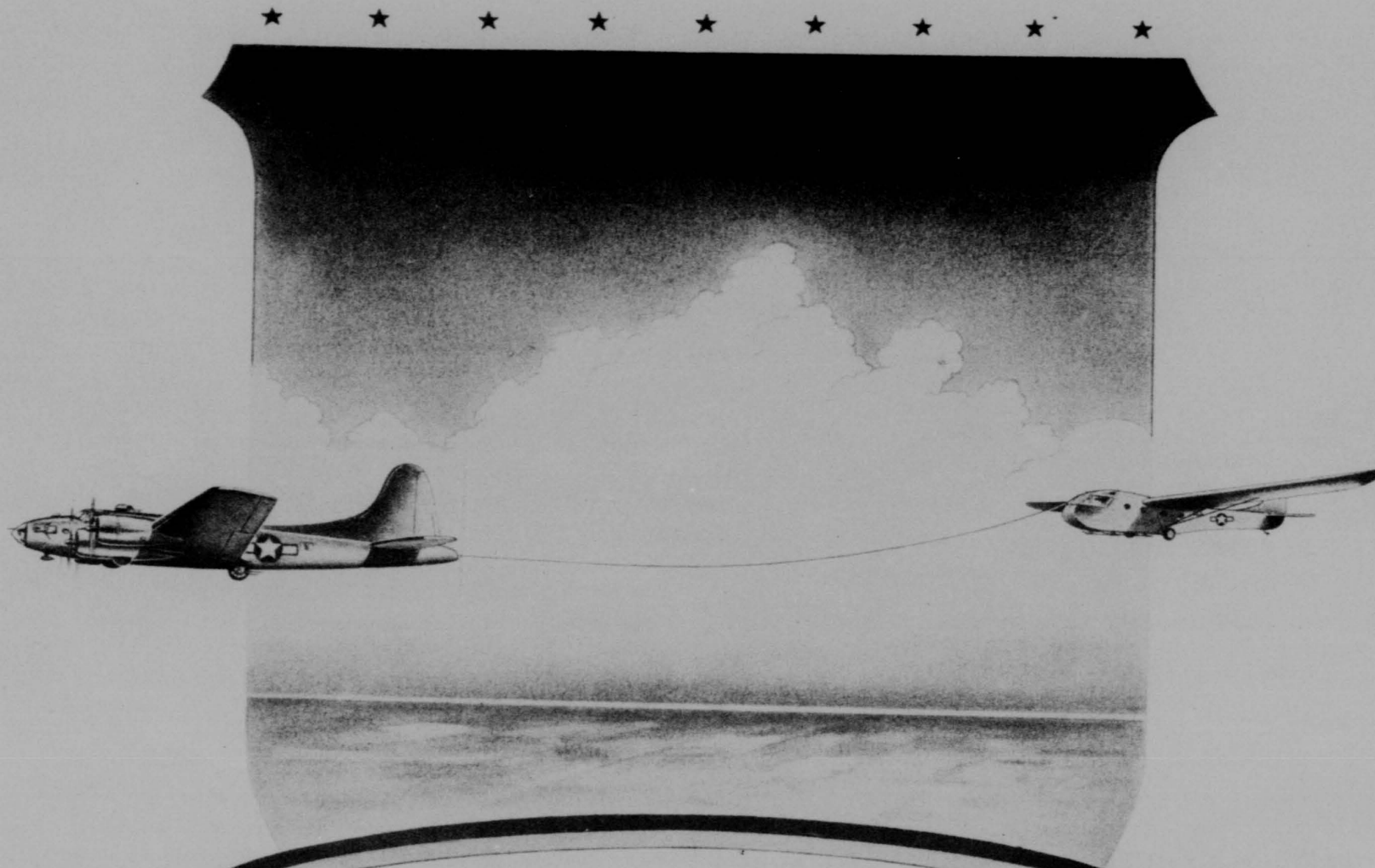
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**GLIDER AND
TOWPLANE SECTION**

MAY-1945

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PAGE 44
AS OF:
25 JAN. 1945

FOREWORD

WARNING

THESE CHARTS CONTAIN CONSERVATIVE AVERAGES FOR TACTICAL PLANNING AND ARE NOT SUITABLE FOR AERODYNAMIC ANALYSIS.

Data contained herein are not to be considered guaranteed performance nor optimum performance as established by test flight but are to be considered official "Practical" characteristics and performance to be used for planning purposes for the average pilot.

All data includes service allowances based on theater experience. Individual airplanes may vary appreciably due to age and service changes. Data printed in red are preliminary and subject to revision after flight check. Data printed in black have been derived from information obtained in flight but are not actual flight test results. For detailed planning see Technical Orders listed as references.

RANGE and ENDURANCE are based on the following assumptions:

- (a) Allowance for warm up, taxi, run up, take off, and landing. (equal to ten minutes at rated power.)
- (b) Allowances for fuel consumed in climb. Distance and time to climb are included in range and endurance.
- (c) Allowance for carrying bombs and droppable tanks entire flight.
- (d) Allowance of 10% net ideal range and endurance for miscellaneous differences in airplanes, equipment, pilot technique, atmospheric conditions other than wind, unusable fuel, weight and similar variables. (For example, range varies day and night due to fuel expansion prior to take off.)
- (e) Other than the above, no allowances for wind, assured reserve, combat, nor formation flight.

DEFINITIONS

LOADING:	Typical loadings of glider and towplane for tactical missions.
Note:	Weight and fuel quantities shown apply to all performances values to the right on the same line.
Max. tow speed:	Maximum permissible calibrated indicated air speed for towing glider at weight shown.
TAKE OFF: (To clear 50' object)	Distances representative of minimum airport requirements.
Take off speed:	Normal for average pilot. (Towplane I.A.S.)
Ground run:	Distances representative of minimum runway requirements.
CLIMB (I.A.S. for climb)	Minimum towplane indicated air speed for good control & satisfactory engine cooling.
Initial rate of climb:	Sea level rate of climb at minimum towplane indicated air speed.
Note:	For some combinations rate of climb tends to increase up to critical altitude of towplane.
Service ceiling:	Altitude at which rate of climb is 100'/min
Time to service ceiling:	Time to climb in minutes from sea level to service ceiling based on I.A.S. for climb.
RANGE & ENDURANCE:	(See discussion under foreword)
Radius of action:	Distance glider can be towed and released with towplane having enough fuel to return to base alone.
Time out:	Time from take off to release of glider, (At recommended cruising altitude).
Time back:	Time required for towplane to return to base alone at recommended cruising speed and altitude.
Max. range & endurance:	Practical maximum range which glider can be towed under conditions set forth and corresponding time required.

RED PRINT: Preliminary estimates or calculated data.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART																				PAGE 45 AS OF: 23 FEB. 1945
BOMBER TOWPLANE AND CG-4A GLIDER																				
TOWPLANE & GLIDER COMBINATION	LOADING					TAKE OFF (WITH GLIDER ATTACHED) S.L.-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE							REMARKS
	GLIDERS		TOWPLANE			MAX. TOW SPEED (M.P.H.)	TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S.	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN)	SERVICE CEILING (FT.)	TIME TO SERVICE CEIL. (MIN)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM. CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL)									RADIUS (MI.)	TIME OUT (HRS.)	TIME BACK (HRS.)		RANGE (MI.)	ENDUR. (HRS.)	
B-17F & (1) CG-4A	7500	3800	59100	NONE	2780	150	6100	110	4150	135	300	12000*	37	(990)	6.3	6.0	5000	1380	9.1	* LIMITED- NO OXYGEN IN GLIDER
														(980)	6.3	5.5	10000	1370	8.8	
B-17F & (2) CG-4A	7500	3800	52500	NONE	1700	150	6300	110	4200	135	300	11000	57	510	3.4	3.1	5000	720	4.8	NOTE: THE 59100 LB. LOADING WITH (2) GLIDERS IS FOR EMERGENCY RE- LEASE ONLY.
	7500	3800	59100	NONE	2780	150	7150	110	4700	135	240	8000	44	860	6.0	5.2	5000	1140	7.9	
B-24D & (1) CG-4A	7500	3800	52500	NONE	2344	150	4200	115	3450	140	530	12000*	24	(870)	5.7	4.7	5000	1360	8.8	* LIMITED- NO OXYGEN IN GLIDER
	7500	3800	59000	6000	2344	150	5050	115	4100	140	325	12000*	41	(850)	5.6	4.1	10000	1280	7.8	
B-25C & (1) CG-4A	7500	3800	30000	2000	972	150	5050	120	4450	140	390	12000*	38	540	3.4	3.0	5000	700	3.8	* LIMITED- NO OXYGEN IN GLIDER NOTE: LOADINGS SHOWN ARE FOR PRO- VISIONAL RELEASE ONLY.

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-143 dated 20 DEC. 1944.
(2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

RED FIGURES ARE PRELIMINARY. SUBJECT TO
REVISION AFTER FLIGHT CHECK.

TEMPORARY TOW RELEASE MECHANISM ON B-17F CAN BE
INSTALLED QUICKLY WITH NO STRUCTURAL MODIFICATIONS REQUIRED.

TOW PLANE PERFORMANCE WITH CG-4A TO
BE SAME AS WITH CG-1A.

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B-BASIC		S- SPAN
C-COMBAT		L- LENGTH
W-WAR MAX		H- HEIGHT
		T- TREAD
		W- WING AREA
B- (3700 to 4500)		S- 83'8"
C- 7500		L- 48'4"
W- 9000		H- 12'7"
		T- 9'4"
		W- (Tact. gear) 852 sq. ft.

TYPICAL GLIDER CAPACITIES

- (a) TROOP CARRIER: CREW(2) & TROOPS(13).
(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).
(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM.
HOWITZER(1) & 75MM. AMMUNITION(18 RES.)

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

PAGE 40
AS OF:
23 FEB. 1945

CARGO TOWPLANE AND CG-4A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) S.L.-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE STATUTE AIR MILES-NO WIND-NO RESERVE MAXIMUM						REMARKS
	GLIDERS		TOWPLANE				TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S. (M.P.H.)	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT/MIN)	SERVICE CEILING (FT.)	TIME TO SERVICE CEIL. (MIN)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM. CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)	MAX. TOW SPEED (M.P.H.)								RADIUS (MI.)	TIME OUT (HRS.)	TIME BACK (HRS.)		RANGE (MI.)	ENDUR. (HRS.)	
	(LB.)	(LB.)	(LB.)	(LB.)	(U.S. GAL.)	(M.P.H.)	(FT.)	I.A.S. (M.P.H.)	(FT.)	(M.P.H.)	(FT/MIN)	(FT.)	(MIN)	(MI.)	(HRS.)	(HRS.)	(FT.)	(MI.)	(HRS.)	
C-46A & (1)CG-4A	7500	3800	41000	NONE	1100	150	3400	85	2650	120	640	12000*	22	770	5.2	4.7	5000	1255	8.5	* LIMITED - NO OXYGEN IN GLIDER
	7500	3800	46000	5000	1100	150	4450	90	3350	120	490	12000*	30	715	5.3	4.3	5000	1115	8.2	
C-46A & (2)CG-4A	7500	3800	41000	NONE	1100	150	4700	85	3500	120	330	12000*	50	605	4.5	3.7	5000	850	6.3	* LIMITED - NO OXYGEN IN GLIDER. NOTE: THE 46000 LB. LOADING WITH (2) GLIDERS IS FOR EMERGENCY RELEASE ONLY.
	7500	3800	46000	5000	1100	150	6700	90	4750	120	240	8700	43	555	4.1	3.4	5000	755	5.7	
C-47, 47A & 53 (PADDLE BLADE PROPS) & (1)CG-4A	7500	3800	26000	3000	804	150	4600	80	3000	105	515	12000*	31	575	4.8	3.6	5000	955	7.9	* LIMITED - NO OXYGEN IN GLIDER.
	7500	3800	29000	6000	804	150	5350	85	3200	105	410	11300	37	545	4.6	3.4	5000	870	7.3	
	7500	3800	31000	8000	804	150	5900	85	3400	105	350	10400	39	520	4.4	3.1	5000	820	6.9	
C-47, 47A & 53 (PADDLE BLADE PROPS) & (1)CG-4A (TOWPLANE EQUIPPED WITH PARA-PACK RACKS)	7500	3800	26000	3000	804	150	4750	80	3100	105	465	11800	35	525	4.4	3.6	5000	870	7.3	
	7500	3800	29000	6000	804	150	6000	80	3350	105	370	10600	38	485	4.1	3.4	5000	830	6.9	
C-47, 47A & 53 (PADDLE BLADE PROPS) & (2)CG-4A	7500	3800	24200	1200	804	150	6250	80	3550	105	220	7800	46	450	4.0	2.8	2000	665	5.8	LOADINGS SHOWN ARE FOR EMERGENCY RELEASE ONLY.
	7500	3800	26000	3000	804	150	6900	80	3800	105	180	7300	50	435	3.8	2.7	2000	630	5.5	
C-60A & (1)CG-4A	7500	3800	18500	NONE	644	150	4900	85	2750	120	550	12000*	37	580	4.3	3.6	5000	940	8.7	* LIMITED - NO OXYGEN IN GLIDER.
	7500	3800	21500	3000	644	150	5550	85	3475	120	320	11500	46	410	3.1	2.5	5000	560	4.2	
C-60A & (2)CG-4A	4700	1000	18500	NONE	644	150	6200	85	4100	120	250	8000	40	360	2.7	2.2	5000	540	4.5	LOADINGS SHOWN ARE FOR EMERGENCY RELEASE ONLY.
	7500	3800	18500	NONE	644	150	7000	85	4500	120	200	7300	41	330	2.5	2.0	5000	475	3.6	

NOTES:

- REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-113 dated 20 DEC. 1944.
- ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.

TOW PLANE PERFORMANCE WITH CG-4A TO BE SAME AS WITH CG-4A

GLIDER CHARACTERISTICS

WEIGHT
B-BASIC
C-COMBAT
W-WAR MAX.



SIZE

S-SPAN
L-LENGTH
H-HEIGHT
T-TREAD
W-WING AREA

B- (3700 to 4500)
C- 7500
W- 9000

TYPICAL GLIDER CAPACITIES

- TROOP CARRIER: CREW(2) & TROOPS(13).
- CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).
- CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(12 RES.)

S- 83'8"
L- 48'4"
H- 12'7"
T- 9'4"
W- 852 SQ. FT.

WP-12-10-45-200

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

PAGE 46
AS OF:
23 FEB. 1946

CARGO TOWPLANE AND CG-13A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) SL-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS	
	GLIDERS			TOWPLANE			MAX. TOW SPEED (M.P.H.)	TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S. (M.P.H.)	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN.)	SERVICE CEILING (FT.)	TIME TO SERVICE CEIL. (MIN.)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM. CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)	RADIUS (MI.)									TIME OUT (HRS.)	TIME BACK (HRS.)	RANGE (MI.)		ENDUR. (HRS.)		
	(LB.)	(LB.)	(LB.)	(LB.)	(U.S. GAL.)	(M.P.H.)	(FT.)	I.A.S. (M.P.H.)	(FT.)	(M.P.H.)	(FT./MIN.)	(FT.)	(MIN.)	(MI.)	(HRS.)	(HRS.)	(FT.)	(MI.)	(HRS.)		
C-47, 47A & 53 PADDLE BLADE PROPS & (1) CG-13A	10000 15700 17700	1300 7000 9000	21200 21200 21200	1200 1200 1200	804 804 804	195 195 195	4550 5650 6300	85 90 90	3050 3550 3800	105 105 105	460 300 215	12000* 9500 8500	36 41 46	555 485 460	4.8 4.2 4.0	3.6 3.2 3.0	2000 2000 2000	855 725 675	7.4 6.3 5.9	* LIMITED - NO OXYGEN IN GLIDER. * LOADING OF 17700 LB. IS FOR EMERGENCY RELEASE ONLY.	
C-60A & (1) CG-13A	9500	800	18000	NONE	614	-		85	3350	120	400	12000*	39	420	3.1	2.6	5000	590	4.4	* LIMITED - NO OXYGEN IN GLIDER.	
C-46A & (1) CG-13A	10000 18900	1300 10200	41000 41000	NONE NONE	1100 1100	195 195	4400 5150	85 90	3200 3700	120 120	465 320	12000* 12000*	29 45	700 610	5.2 4.6	4.2 3.7	5000 5000	1095 895	8.1 6.7	* LIMITED - NO OXYGEN IN GLIDER.	

COLUMN — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

NOTES:

(1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-113 dated 20 DEC. 44

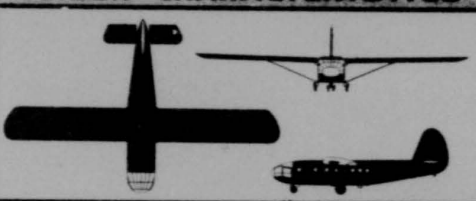
(2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

ATTENTION: WEIGHT OF GLIDER MAY BE LIMITED BY TOWPLANE PERFORMANCE; SEE T.O. 01-1-113 DEC. 1944 FOR ALLOWABLE GLIDER WEIGHT WITH CORRESPONDING TOWPLANE.

(A) TYPICAL GLIDER CONDITIONS

(a) JEEPS (2) & TROOPS (8) & CREW (2)
 (b) JEEP (1) & TROOPS (8) & CREW (2) & 75mm. HOWITZER (1) & AMMUNITION (156 HDS.)
 (c) TROOPS (8) & CREW (2) & 75mm. HOWITZER (2) & AMMUNITION (165 HDS.)
 (d) TROOPS (8) & CREW (2) & STD. 105mm. HOWITZER (1) (M-2) & AMMUNITION (65 HDS.)
 (e) TROOPS (10) & CREW (2) & AERIAL DELIVERY COFFINERS (4)
 (f) WEAPONS CARRIERS, 625, 1 1/2 TON (1) & CREW (2)
 (g) JEEP (1) & TROOPS (6) & CREW (2) & 105mm. HOWITZER (1) & AMMUNITION (27 HDS.)

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B - BASIC		S - SPAN
C - COMBAT		L - LENGTH
W - WAR MAX.		H - HEIGHT
		T - TREAD
		W - WING AREA
B - 8700	TYPICAL GLIDER CAPACITIES	
C - 18900	SEE NOTE "A" AT LEFT	
W - 18900	S - 85' 7"	L - 54' 3"
	H - 20' 3"	T - 9' 11"
	W - 873 sq. ft.	

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

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AS OF:
23 FEB, 1945

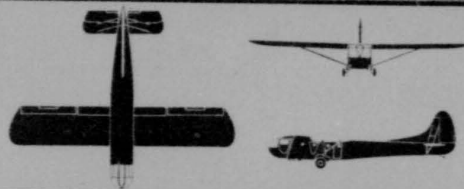
CARGO TOWPLANE AND CG-15A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) S.L.-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS	
	GLIDERS		TOWPLANE				MAX. TOW SPEED (M.P.H.)	TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED (I.A.S.)	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN.)	SERVICE CEILING (FT.)	TIME TO SERVICE CEIL. (MIN.)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM. CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)	RADIUS									TIME OUT (HRS.)	TIME BACK (HRS.)	RANGE		ENDUR.		
	(LB.)	(LB.)	(LB.)	(LB.)	(U.S. GAL.)	(M.P.H.)	(FT.)	(I.A.S.)	(FT.)	(M.P.H.)	(FT./MIN.)	(FT.)	(MIN.)	(MI.)	(HRS.)	(HRS.)	(FT.)	(MI.)	(HRS.)		
C-47 47A& 53 PADDLE BLADE PROPS & (1) CG-15A	8000	3950	26000	3000	804	180	4900	80	3150	105	485	*12000	37	555	4.4	3.8	5000	850	6.8		
	8000	3950	29000	6000	804	180	5600	85	3700	105	365	10500	45	520	4.2	3.5	5000	775	6.2		
	8000	3950	31000	8000	804	180	6200	85	4050	105	320	9500	45	490	3.9	3.3	5000	720	5.7		
C-46A & (1) CG-15A	8000	3950	41000	NONE	1100	180	3650	85	2850	120	620	12000*	25	755	5.3	4.6	5000	1215	8.4		
	8000	3950	45000	5000	1100	180	5050	90	3650	120	480	12000*	30	715	5.3	4.3	5000	1115	8.3		

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-143, DATED 20 DEC. 1944.
- (2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B - BASIC		S - SPAN
C - COMBAT		L - LENGTH
W - WAR MAX		H - HEIGHT
		T - TREAD
		W - WING AREA
TYPICAL GLIDER CAPACITIES		
B - 1050		S - 62'3"
C - 8000		L - 48'9"
W - 9000		H - 12'7"
		T - -
		W - 556 SQ. FT.

(a) TROOP CARRIER: CREW(2) & TROOPS(13).
(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).
(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(16 REG.)

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