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EE-393

TACTICAL PLANNING

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Characteristics & Performance Chart

BOMBER

CARGO

FIGHTER

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PUBLISHED BY AUTHORITY OF THE COMMANDING GENERAL,
ARMY AIR FORCES, BY THE CHIEF, ENGINEERING DIVISION,
MATERIEL COMMAND, WRIGHT FIELD, DAYTON, OHIO

1- JUNE -1944

WF-5-27-44-725

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FOREWORD

This chart replaces the Monthly Chart of Airplane Characteristics and Performance EE-306-1, "Production". The latter was frequently misinterpreted and therefore general distribution was discontinued on directive from higher authority. This issue covers typical models now in theater operation and the list will be increased from month to month as rapidly as the data can be compiled.

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.

WARNING

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

Performance is based on the requirements of AAF Spec. 40107B, "Pilots' Handbooks, Flight Operation Instructions", which sets forth specific allowances for practical service operation. Take-off and landing distances are 125% of optimum 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, "Recommended Limit" and "War Maximum" weights are based on limiting applied positive maneuver factors of 2.67G and 2.00G respectively unless otherwise specified. Time to climb is minimum within published engine limits. In future issues speed and climb with "Military Power" will be replaced with "War Emergency" when applicable. 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 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 allowance for wind, assured reserve, combat nor formation flight.

PREPARED BY TECHNICAL DATA LABORATORY OF THE ENGINEERING DIVISION

THIS REPORT SUPERSEDES PREVIOUS EE-393 PUBLICATIONS; SUPERSEDED PUBLICATIONS, IF NO LONGER OFFICIALLY REQUIRED, WILL BE DESTROYED IN THE MANNER PRESCRIBED IN PARAGRAPH 23, A.R. 380-5, DATED 28 SEPT. 1943.

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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: MAXIMUM 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: Max. cruise power is the maximum power for unlimited operation with lean mixture.

SIZE: APPROX. 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.

R: RECOMMENDED LIMIT ON GROSS WEIGHT WHICH WILL ALLOW A LIMIT APPLIED POSITIVE MANEUVER FACTOR OF AT LEAST 2.67g.

W: WAR MAX. WEIGHT FOR SPECIAL MISSIONS ONLY.

FUEL: STANDARD FUEL TANKAGE AND CAPACITIES.

ARMAMENT: RESUME' OF INFORMATION IN THE "ARMAMENT & BOMB INSTALLATIONS" (CHART EE-306A)

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 GR. WT.

RADIO: RESUME' OF TYPICAL MODELS INSTALLED.

PERFORMANCE

RED PRINT: PRELIMINARY ESTIMATES OR CALCULATED DATA

TAKE-OFF & LANDING: (AT 3000' RUNWAY ALT.) VALUES ARE AT LEAST 125% OF OPTIMUM

GROSS WEIGHT: TO CLEAR 50': ARBITRARY VALUES FOR REFERENCE ONLY DISTANCES REPRESENTATIVE OF MINIMUM AIRPORT REQUIREMENTS.

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)

MAX. CONTINUOUS: FOR UNLIMITED PERIODS OF OPERATION INCLUDING EMERGENCY HIGH-SPEED CRUISING.

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 I.

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.

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DATE DATA TO WHICH APPLICABLE

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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-80 (-1 thru -27)	1-.30 2-.50 2-.50 2-.50	500 a 300 400 500	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-80 (-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-80 -55 thru 1st.30 (-85)	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.	A S	A B O V E		2550 (-55 thru 1st.73-80 3630 (Last 27 -80 & SUB.
B-17F-80 Last 70 (-85) thru -130	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.	AS ABOVE EXCEPT THAT EXTERNAL BOMB RACES DELETED AFTER 15th. (-95)			3630
B-17G-80 (-1 thru -110)	2) 1) 2) 2) 2) 2)	300 o 365 300 500 d 400 500 565	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	PROVISION FOR RACES	9600	AS ABOVE

NOTES: a NOSE GUN DELETED ON LAST 35 (-27). d EARLY B-17G MODELS CARRY 300 RDS./GUN.
b RADIO COMPART. GUN ADDED AFTER 16th. (-30).
c CHEEK GUNS ADDED AT MOD. CENTER. x EXTERNAL

DOUGLAS (LONG BEACH) "DL"

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 RACES 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 RACES	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 -40)	2) 1) 2) 2) 2) 2)	300 o 365 300 500 d 400 500 565	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW-BALL TRR. TAIL...FLEX.MT.	AS ABOVE	A B O V E	AS ABOVE	AS ABOVE

NOTES: a NO NOSE GUN ON 1st.13(-10) d EARLY B-17G MODELS CARRY 300 RDS./GUN.
b NOT CARRIED ON -1 & -5.
c CHEEK GUNS ADDED AT MOD. CENTER. x EXTERNAL

VEBA (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.) IN 1st. 12 AIRPLANES. NOSE GUN DELETED ON NEXT 28 THRU (-10). NO RADIO COMPARTMENT GUN UNTIL LAST 11 (-15). OTHER ARMAMENT	NOSE GUN	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)	300 300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW-BALL TRR. TAIL...FLEX.MT.	AS ABOVE	EXTERNAL RACES ON Last 31 (-20) & SUB.	AS ABOVE	AS ABOVE
B-17F-VE (-25 & -30)	A S	A B O V E	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) 2)	300 300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW-BALL TRR. TAIL...FLEX.MT.	AS ABOVE	NONE	9600	3630
B-17G-VE (-1 thru -90)	2) 1) 2) 2) 2) 2)	300 o 365 300 500 d 400 500 565	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW-BALL TRR. TAIL...FLEX.MT.	AS ABOVE	PROVISION FOR RACES	AS ABOVE	AS ABOVE

NOTES: a NOT ON B-17F-1 & -5. d EARLY B-17G MODELS CARRIED 300 RDS./GUN.
b EXTERNAL BOMB RACES DELETED ON LAST 4(-30).
c CHEEK GUNS ADDED AT MOD. CENTER. x EXTERNAL

GENERAL NOTE:

LATEST INVESTIGATION SHOWS THAT 8-1600 LB.
ARMOR PIERCING BOMBS MAY BE CARRIED, BUT
BOMB RAIL LOAD FACTORS AND CLEARANCES ARE
REDUCED AND MANEUVERING OF AIRPLANE MUST
BE LIMITED ACCORDINGLY.

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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 R-RECD 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	
B-17F	4	WRIGHT R-1820-97 TURBO HAMILTON STD. 11"7" DIA. - 3BL. F.F. HYDRA-MATIC	T 1200/5 L M 1200/27000 C 1000/30000	S 103'9" L 74'9" H 19'1" T 21'2" W 1120 SQ.'	B 36000 C 55000 R 56000 W 61000	9	MAIN - WINGS BOMB BAY	6-1730 2x 510 2550 TOT	2) 2) 1) 2) 2) 2)	300 300 300 400 500 565	NOSE - FLEX. SIDE WAIST-FL. RADIO COMPART. UPPER TURRET LOW BALL TURRET TAIL - FLEX. MT.	2-2000 C 6-1600 6-1000 12- 500 16- 250 21- 100	2-1000 2-2000 2-1600 2-1000	C 6-1600 b 2-1000 17600	SEE NOTE (B)	FOR DETAILED ARMAMENT AND BOMB INSTALLATIONS SEE PAGE OPPOSITE. TECHNICAL ORDER 01-202P-1. (1 OCT. 1943) b EXTERNAL BOMBS ON SOME MODELS ONLY.
B-17F (WITH WING TIP TANKS)	4	AS ABOVE	AS ABOVE	AS ABOVE	B 38000 C 55000 R 56000 W 61000A	9	MAIN - WINGS WING TIPS BOMB BAY	6-1730 2x 510 3630 TOT	3) 2) 1) 2) 2) 2)	300 300 300 400 500 565	RUSE - FLEX. SIDE WAIST-FL. RADIO COMPART. UPPER TURRET LOW BALL TURRET TAIL - FLEX. MT.	A S	A B O V E	AS ABOVE	AS ABOVE	A S A O V E A - SEE FOOTNOTE (A)
B-17G	4	AS ABOVE	AS ABOVE (SEE *)	AS ABOVE	B 38000 C 55000 R 56000 W 61000A	9	AS ABOVE EXCEPT PROVISIONS ONLY FOR THE BOMB BAY TANKS	6-1730 2x 510 3630 TOT	3) 2) 1) 2) 2) 2)	300 300 300 400 500 565	DEERE - FLEX. UPPER TURRET SIDE WAIST-FL. RADIO COMPART. UPPER TURRET LOW BALL TURRET TAIL - FLEX. MT.	AS ABOVE	PROV. FOR EXTERNAL RACKS	AS ABOVE	NOTE (B) plus RC-103	TECHNICAL ORDER 01-202P-1. (1 OCT. 1943) * LATEST B-17G'S HAVE NEW TYPE SUPERCHARGER (B-22) GIVING INCREASED ALTITUDE PERFORMANCE. * LATER MODELS HAVE 500 RDS./GUN; EARLY MODELS 300 RDS./GUN. * LENGTH DECREASED 5" ON LATER MODELS TO 71'4".

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 AT 10,000 FT.		MAX. CRUISE POWER AT 10,000 FT.			LONG RANGE AT 10,000 FT.					
		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.	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	40000 50000 55000 56000	- - 3950 4100	3900 4750 5200 -	90 100 104 105	- 2000 3050 -	2000 2700 3050 -	55000	30000 25000 20000 15000 10000 5000	298 299 288 274 263 252	400 725 850 950 1050 1125	285 274 266 255 245 236	225 150 250 275 215 140	52.0 36.2 25.7 17.3 10.2 4.9	65500 59500 63500 59000 55500	NONE NONE 4000 6000 6000	2550 1730 1730	1250 900 850	5.5 3.9 3.7	1100 950 900	5.6 4.0 3.8	1850 1300 1200	9.1 6.6 6.1	1950 1350 1250	8.9 6.3 5.9	2500 1800 1700	17.2 11.1 10.5	
B-17F (WITH WING TIP TANKS)	40000 50000 55000 56000 57000 61000	- - 3950 4100 4300 5100	3900 4750 5200 -	90 100 104 105	- 2000 3050 -	2000 2700 3050 -	55000	A S A B O V E	A S A B O V E	A S A B O V E	A S A B O V E	A S A B O V E	A S A B O V E	65500 59500 63500 59000 55500	NONE NONE 4000 6000 6000	3630 2810 2810 2810 2810	- 1100 1100 850 1100	- 6.1 6.1 3.7 6.0	- 1550 1550 900 1500	- 6.2 6.2 3.8 6.0	- 2050 2050 1200 2000	- 10.1 10.1 6.1 10.0	- 2150 2100 1250 -	- 9.9 9.9 5.9 -	- 2800 2700 1700 2500	21.2 17.4 17.4 10.5 17.3	* MAX. FERRY RANGE MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION 3 qt. to 3 gal./hr. DEPENDING ON TIME SINCE OVERHAUL. LONG RANGE VALUES BASED ON CONSTANT M.P.H. ** PERFORMANCE DATA ABOVE 55000 LB. NOT YET AVAILABLE. SEE NOTE (A). * PERFORMANCE DATA NOT AVAILABLE WITH TYPE B-22 SUPERCHARGER.

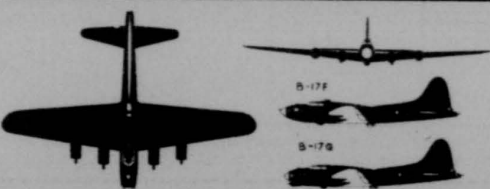
- NOTES: (B)
- SCR-211 FREQUENCY METER
 - SCR-2696 RADIO COMPASS
 - SCR-271M COMMAND SET
 - SCR-287A LIAISON SET
 - SCR-695 SET (or SCR-995)
 - SCR-578 EMERGENCY TRANSMITTER
 - RC - 32 FILTER EQUIPMENT (or RC-198)
 - RC - 36 INTERPHONE AMPLIFIER
 - RC - 43B MARKER BRACK
 - RC - 103 BLIND LANDING (Provisions only)
 - SCR-522 COMMAND SET

RED FIGURES ARE PRELIMINARY, SUBJECT TO REVISION AFTER FLIGHT CHECK

* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY

(A) THERMISTERS INDICATE LOADINGS IN EXCESS OF 5000 LB. ARE BEING USED WITH INCREASE IN AMMUNITION & HEAVIER BOMB-FUEL COMBINATIONS THAN LISTED UNDER "RANGE & ENDURANCE". DETAILS & RESULTANT PERFORMANCE ARE UNDER INVESTIGATION.

(C) LATEST INVESTIGATION SHOWS THAT 6x1600 LB. ARMOR PIERCING BOMBS MAY BE CARRIED, BUT BOMB RAIL LOAD FACTORS AND CLEARANCES ARE REDUCED & MANEUVERING OF AIRPLANE MUST BE LIMITED ACCORDINGLY.



B-17

"FORTRESS"

MANUFACTURED BY BOEING - DOUGLAS - VEGA

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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 NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
B-24D-CO D thru 1st.94(-15)	1) 2) .50 2)	200 400 400	NOSE.....FLEX. UPPER TURRET TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	2364
B-24D-CO Last 36(-15) thru -20	1) 2) .50 2)	200 400 100 400	NOSE.....FLEX. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	A S	A B O V E		2364 Last 36(-15) 3614 -20 & sub.
B-24D-CO -25 thru 1st.25(-14)	3) 2) .50 2) 1) 2)	100 250 400 100 400	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-CO Last 9(-14) thru -170	3) 2) .50 2) 2)	100 250 400 508 400	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24J-CO (-1 thru -299)	2) 2) .50 2) 2)	400 250 400 508 400	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE

NOTES: a NOT ON B-24D-25.

CONSOLIDATED (FT. WORTH) "CF"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
B-24D-CF (-1 & -5)	3) 2) .50 1) 2)	100 250 400 100 400	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24D-CF (-10 thru -20)	A S	A B O V E		4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	AS ABOVE
B-24J-CF (-1 thru -60) B-24E-CF (-1 thru -15)	2) 2) .50 2) 2)	400 250 400 508 400	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E (SEE a)		AS ABOVE
B-24H-CF (-20 thru -30)	2) 2) .50 2) 2)	400 508 400 508 400	NOSE TURRET S.WAIST-46 MT. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24J-CF (-401 to -)	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-24H-20 HAS PROVISIONS FOR ONLY 250 RDS. PER GUN AT SIDE WAIST POSITION.

DOUGLAS (TULSA) "DT" and FORD (WILLOW RUN) "FO"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
B-24H-DT (-1 thru -15) (DOUGLAS)	2) 2) .50 2) 2)	400 250 400 508 400	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-FO (-1 thru -15) (FORD)	A S	A B O V E		A S	A B O V E		AS ABOVE
B-24H-DT & FO (-20 thru -30)	2) 2) .50 2) 2)	400 508 b 400 508 400	NOSE TURRET S.WAIST-46 MT. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24J-DT & FO (-1)	A	S	A	B	O	V	E

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

NORTH AMERICAN (DALLAS) "NT"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
B-24G-NT (-1 thru -15)	3) 2) .50 2) 2)	230 TOT. 250 400 508 a 400	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24J-NT (-1 thru -5)	2) 2) .50 2) 2)	400 250 400 508 400	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-24G-NT (-10 thru -15)	A S	A B O V E		4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	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.

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CONSOLIDATED (SAN DIEGO) "CO"

LOCATION & TYPE	BOMBS			FUEL U.S. GAL. (MAXIMUM)
	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
.....FLEX. TURRET	1-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	2364
.....FLEX. TURRETFLEX. TURRET	A S	A B O V E		2364 Last 36(-15) 3614 -20 & sub.
.....FLEX. WAIST-FL TURRETFLEX. TURRET	1-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614
.....FLEX. WAIST-FL TURRET BALL TRR. TURRET	A S	A B O V E		AS ABOVE
TURRET WAIST-FL TURRET BALL TRR. TURRET	A S	A B O V E		AS ABOVE

CONSOLIDATED (FT. WORTH) "CP"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER. GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
B-21D-CF (-1 & -5)	3) 2) 2) .50 1) 2)	100 250 400 100 400	NOSE.....FLEX. SIDE WAIST-FL. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	1-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-21D-CF (-10 thru -20)	A S	A B O V E		1-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	AS ABOVE
B-21J-CF (-1 thru -60)	2) 2) 2) .50 2)	400 250 400 508	NOSE TURRET SIDE WAIST-FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E (SEE a)		AS ABOVE
B-21H-CF (-1 thru -15)	2) 2) 2) .50 2) 2)	400 500 400 508 400	NOSE TURRET S.WAIST-K6 MT. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-21J-CF (-101 to -)	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-21H-20 HAS PROVISIONS FOR ONLY 250 RDS. PER GUN AT SIDE WAIST POSITION.

FORD (WILLOW RUN) "FC"

LOCATION & TYPE	BOMBS			FUEL U.S. GAL. (MAXIMUM)
	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
TURRET WAIST-FL TURRET BALL TRR. TURRET	1-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614
A	A S	A B O V E		AS ABOVE
TURRET ST-K6 MT. TURRET BALL TRR. TURRET	A S	A B O V E		AS ABOVE
A	B	O	V	E

PLANES RECEIVE NEW B-21J DESIGNATIONS
PILOT & M-9 BOMB SIGHT REPLACE A-5
S-1 BOMB SIGHT.

BOMBS STARTS ON 2101st.FORD KNOCK-DOWN SET.
ONLY 250 RDS. PER GUN AT SIDE WAIST POSITION.

NORTH AMERICAN (DALLAS) "NT"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER. GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
B-21G-NT	3) 2) 2) .50 2) 2)	230 TOT. 250 400 508 400	NOSE.....FLEX. SIDE WAIST-FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	1-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-21G-NT (-1 thru -5)	2) 2) 2) .50 2) 2)	400 250 400 508 400	NOSE TURRET SIDE WAIST-FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	A S	A B O V E		AS ABOVE
B-21G-NT (-10 thru -15)	A S	A B O V E		1-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	AS ABOVE
B-21J-NT (-1 & -5)	A	S	A	B	O	V	E

NOTES: a LOWER BALL TURRET ON 5th. & SUBSEQUENT; NO TUNNEL GUN ON 1st. & ARTICLES.

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
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PAGE 7 AS OF: DATE 26 MAY 1944																
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 R-RECD LIM W-WAR MAX	TANK TYPE OR LOCATION		NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & PER GUN CALIBER	RDS LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE		
B-24D	4	PRATT-WHITNEY R-1830-13 TURBO HAMILTON STD. 11'7" DIA. - 3EL. F.F. HYDRAMATIC	T 1200/S L M 1200/25000 C 1100/25000	S 110'0" L 66'4" H 18'0" T 25'8" W 106.8 SQ. FT.	B 34500 C 56000 R 56000 W 64000	8	MAIN - WINGS	12-2364	3) 100 2) 250 2) 100 2) 100	NOSE - FLEX. SIDE WAIST-FL. UPPER TURRET TUNNEL - FLEX. TAIL TURRET	L-2000 8-1600 8-1000 12-500 12-250 20-100	NONE	12500	SEE NOTE (B)	TECHNICAL ORDER 01-522-1 (10 NOV. 1943)	
B-24D (WITH BOMB BAY TANKS)	4	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	8	MAIN - WINGS BOMB BAY	12-2364 2x 100 3164 TOT	3) 100 2) 250 2) 100 2) 100	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-24D (WITH WING TIP TANKS)	4	AS ABOVE EXCEPT R-1830-65 ENGINE IN LIEU OF-13 ON B-24D-20-CF & B-24D-135-00 thru -170-00.	1200/S L 1200/26500 1100/27000	AS ABOVE	B 36500 C 56000 R 56000 W 64000A	8	MAIN - WINGS BOMB BAY WING TIPS	12-2364 2x 100 2x 225 3614 TOT	A S A B O V E	A S A B O V E	A S	A B O V E	AS ABOVE	A S A B O V E	(A) SEE FOOT NOTE "A"	
B-24G,H&J	4	AS ABOVE EXCEPT R-1830-65 ENGINE IN LIEU OF-13 ON B-24G-5-WT & subser B-24G-5-CF & subser B-24J SERIES.	AS ABOVE (SEE e)	S 110'0" L 67'2" H 18'0" T 25'8" W 106.8 SQ. FT.	B 37500 C 56000 R 56000 W 64000A	8	A S A B O V E	2) 100 2) 250 2) 100 2) 100	NOSE TURRET *SIDE WAIST-FL. UPPER TURRET LOW BALL TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-522-1 (REV. 15 MAY 1944) * LATEST B-24J MODELS HAVE NEW TYPE SUPERCHARGER (B-22) GIVING INCREASED ALTITUDE PERFORMANCE. b BEING INCREASED TO 500 RDS: NO EFFECTIVE POINT YET. c FIVE EXTERNAL BOMB RACKS BEING INSTALLED AT MOD. CENTERS. * (K-5) MOUNT AT SIDE WAIST POS. ON B-20 SUBSER. (CF, DT & FC)	

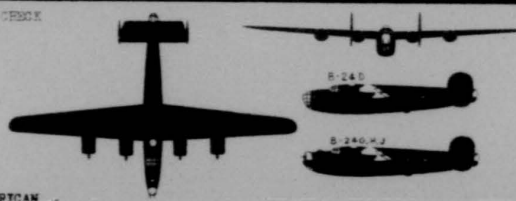
MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE				
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH	GROUND-RUN		STD. ALT. FT.	MIL. POWER			MAX. CONTIN. POWER			TAKE OFF WEIGHT LB.	BOMBS RANGE 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.	T.O. DIST. FT.		LAND. DIST. FT.	WEIGHT LB.	HIGH SPEED FT./MIN.	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		RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS				RANGE MILES	ENDUR. HOURS									
B-24D	40000	-	3300	90	-	2800	30000	278	550	278	900	45.0	53000	NONE	2364	900	4.0	1000	3.9	1850	9.5	1950	8.9	2350	15.0		
B-24D (WITH BOMB BAY TANKS)	40000	-	3300	90	-	2800	25000	303	900	297	700	30.2	53000	NONE	2364	900	4.0	1000	3.9	1850	9.5	1950	8.9	2350	15.0		
B-24D (WITH WING TIP TANKS)	40000	-	3300	90	-	2800	20000	290	1000	284	800	22.0	58000	5000	2364	850	3.8	950	3.7	1700	8.8	1800	8.2	2200	14.2		
B-24G,H&J	40000	-	3300	90	-	2800	30000	278	500	278	900	45.0	63500	NONE	3614	-	-	-	-	-	-	-	-	-	-	-	*MAX. FERRY RANGE MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION. OIL CONSUMPTION 3 QT. TO 3 GAL./HR. DEPENDING ON TIME SINCE OVERHAUL.

- NOTES: (B) 24 VOLT RADIO SYSTEM
- SCR-211 FREQUENCY METER
 - SCR-2690 RADIO COMPASS
 - SCR-274a COMMAND SET
 - SCR-287A LIAISON SET
 - SCR-595 SET (or SCR-995)
 - SCR-578 EMERGENCY TRANSMITTER
 - RC - 32 FILTER EQUIPMENT (or RC-198)
 - RC - 36 INTERPHONE AMPLIFIER
 - RC - 128 MARKER BEACON
 - RC - 103 BLIND LANDING (Provisions only)
 - AN/APC-1 (Installed in some models)

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

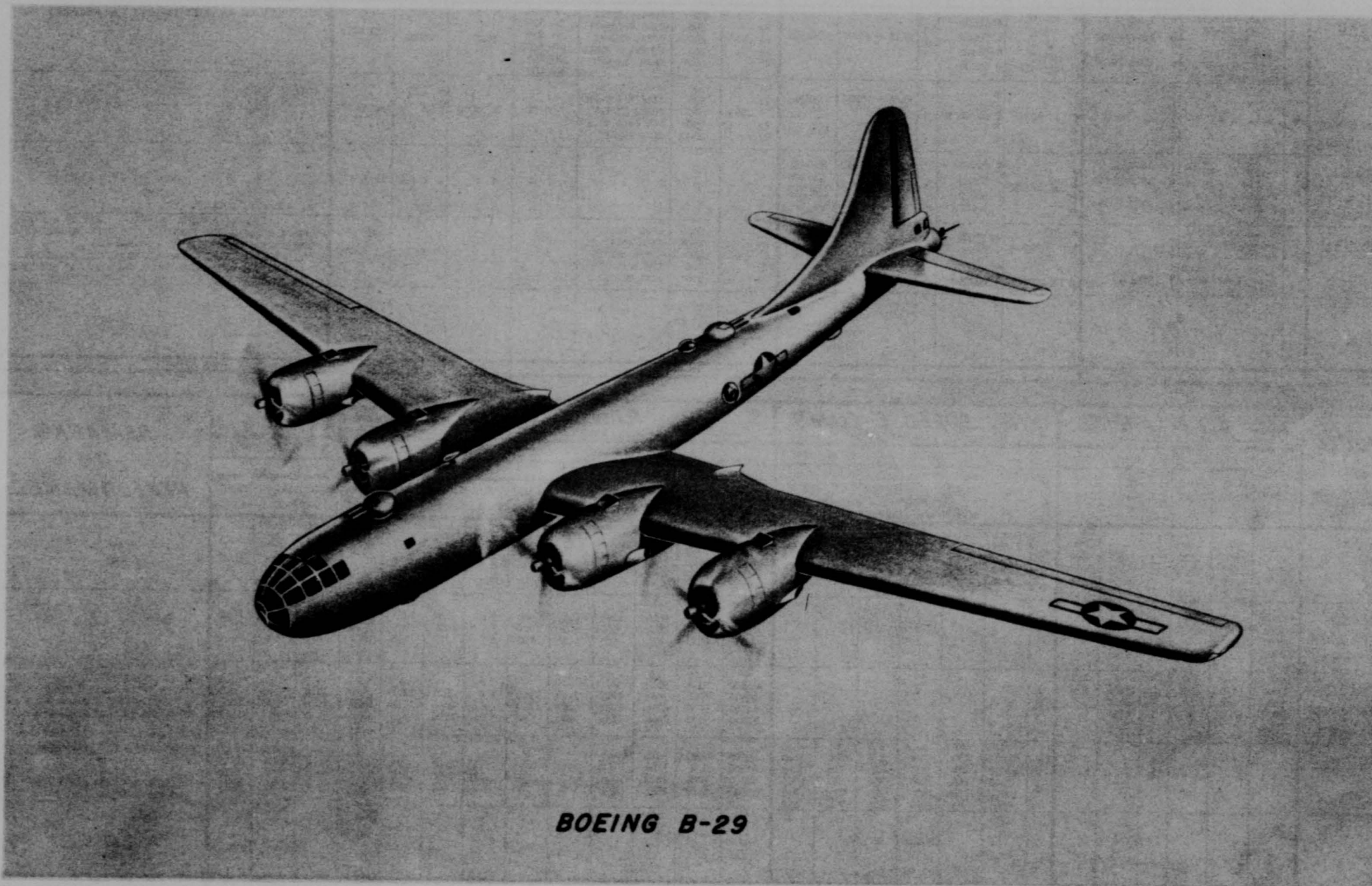
(A) THEATER REPORTS INDICATE LOADINGS IN EXCESS OF 65000 LB. ARE BEING USED WITH INCREASE IN AMMUNITION & HEAVIER BOMB-FUEL COMBINATIONS THAN LISTED UNDER "RANGE & ENDURANCE". DETAILS & RESULTANT PERFORMANCE ARE UNDER INVESTIGATION.



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART															PAGE 9
CONFIDENTIAL															AS OF:
															DATE 26 MAY 1944
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 R-RECD 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	EXTERNAL NO & SIZE		MAX. LOAD LB.
B-29-BW -1 TO -25 INCL B-29A-BN B-29-BA -1 & -5	4	WRIGHT R-3350-23 TURBO HAMILTON STD. 16" DIA. - LBL. F.P., HYDRAMATIC	T 2200/3 L M 2200/25000 C 2000/25000	S 141'3" L 99'0" H 27'9" T 31'6" W 1739 SQ. FT.	B 71000 C 105000 R 120000 W 152000	10	OUTBD. -WINGS 11-2735 INBD. -WINGS 8-2675 BOMB BAY 1x 640 8168 TOT	1-20MM 2) 2) 2) 2) 2)	100 1000 1000 1000 1000	TAIL-M2, TYPE B UPPER REAR TR. 12-1500 UPPER REAR TR. 12-1500 LOWER REAR TR. 12-1000 LOWER REAR TR. 12-1000 TAIL-POWER MT.	1-4000 5-2000 12-1500 12-1000 40-500	NONE	20000 SEE (A)	SEE NOTE (B)	TECHNICAL ORDER 01-CUEJ-1 (25 JAN. 1944) F-40-103 NOT ON B-29-1-EW. 8- OUTBOARD TREAD-31'6" ; INBOARD TREAD-25'8".

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 MPH	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			MAX. CRUISE POWER			LONG 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.				RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS		RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS		
	B-29-BW -1 TO -25 INCL B-29A-BN B-29-BA -1 & -5	90000	3150	3500	100	3000	3000	105000	30000	500	740	310	10.0	120000	NONE	6886	1000	6.0	3000	6.5	3000		15.0	2000	10.9	1200	31.0	* MOST OF FLIGHT REQUIRES THAT MAX. CRUISE POWER BE EXCEEDED SLIGHTLY BY USING AUTO. RICH MIXTURE.
	105000	1500	1100	110	3100	3000		20000	310	740	290	29.0																
	120000	6100	-	120	1700	-		15000	310	1040	300	15.0	120000	9000	5608	1000	5.5	1600	5.5	2200	13.3	2200	8.1	3300	16.0			
								10000	310	1160	300	16.0		(SEE NOTE A)														
								5000	310	1250	270	5.0																

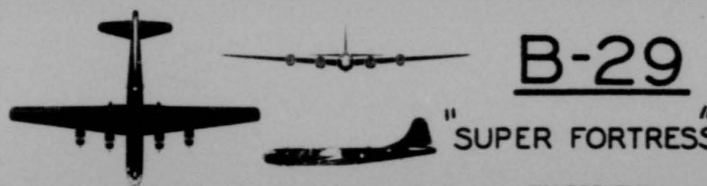
NOTES: (A)

INCREASE IN BASIC WEIGHT PROHIBITS USE OF MORE THAN 2 OF THE 4 BOMB BAY TANKS OR MORE THAN 9000 LB. BOMBS WITH FULL MAIN FUEL WITHOUT EXCEEDING RECOMMENDED LIMIT OF 120000 LB. WEIGHT. 20000 LB. MAX. BOMB LOAD POSSIBLE WITH PARTIALLY FILLED MAIN FUEL TANKS ONLY.

MANUFACTURED BY : (BOEING (WICHITA) "BW"
(BOEING (RENTON) "BN"
(BELL (ATLANTA) "BA")

RED FIGURES AND PARENTHESIS: SUBJECT TO REVISION AFTER FLIGHT CHECK

(B)
AN-7400-0
SC-2890
SC-43190
SC-103
AN-7400-5
SC-30
SC-800
SC-475
SC-715
AN-7400-15
DAVIN
AN-7400-1
AN-7400-1
PROVISIONS FOR
AN-7400-2
SC-522
ELECTRIC SET
COMPASS FOR AN-7400-7)
WAKEB REASON
GLIDE PATH RECEIVER
LOCALIZER RECEIVER
INTERPHONE FOR AN-7400-2)
IFF
EMERGENCY TRANSMITTER
HIGH ALTITUDE ALTIMETER
HIGH ALTITUDE RADAR
SCM
STATIC DISCHARGER
IN ADAPTER (SOME PLANES ONLY)
LORAN
VME (SOME PLANES ONLY)



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AS OF:
DATE 26 MAY 1944

TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFGR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC	COMBAT CREW	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX LOAD LB.		TYPE
		SUPERCHARGER PROP MFGR. TYPE	T-TAKE-OFF M-MILITARY C-CONTINUOUS	L-LENGTH H-HEIGHT T-TREAD W-WING AREA	C-COMBAT R-RECD LIM W-WAR MAX							NO & SIZE OR STATION	NO & SIZE OR CAPACITY			
B-32-CF	4	WRIGHT R-3350-23 TURBO CURTISS 16"8"DIA.-LBL. CONST.SPD.-ELECT.	T 2200/3 L M 2200/30000 C 2000/32300	S 135' 0" L 82' 11" H 28' 0" T 28' 0" W 1122 SQ. FT.	B 62670 C 100000 R 102800 W 123250	8	INNER (CENTER) OUTER (INNER) OUTER (CENTER) (SEE F) 5226 TOT.	2) 2) 2) 2)	365 400 550 1000	NOSE TURRET FRONT TOP TRR. REAR TOP TRR. LOW BALL TRR. TAIL TURRET	4-1000 8-2000 8-1600 16-1000 40-500	NONE	20000	SCR-274N, 211, 259, 287, 522, 595 & 718, RC-36, 103, 195 & 198	(MANUFACTURER'S PRELIMINARY ESTIMATES) 365 RDS./GUN (NORMAL); SPACE PROVISIONS FOR 600 RDS./GUN MAXIMUM WING TANK CAPACITY-5226 GAL; OVERLOAD CON- DITIONS WITH 8226 GAL. ASSUMES 3000 GAL. CARRIED IN FUS. RADIO LISTED FOR EXP. PLANES & FIRST FEW PROD. ARTICLES.	
			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											

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														
	GROSS WEIGHT	TO CLEAR 50 FT. DIST.	LAND. DIST.	LANDING SPEED	T.O. DIST.	LAND. DIST.	WEIGHT	STD. ALT.	MIL. POWER	MAX. CONTIN. POWER	TAKE OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL	MAX. CONTINUOUS POWER			MAX. CRUISE POWER		LONG RANGE				
LB	FT	FT	MPH	FT	FT	LB	FT	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.	RANGE	ENDUR.	RANGE	ENDUR.			
B-32-CF																							

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:

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



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MANUFACTURED BY CONSOLIDATED-VULTEE (Ft. Worth) "CF"

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NORTH AMERICAN (INGLEWOOD) "NA"
(KANSAS CITY) "NC"

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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-25C-NA (-1 thru -20)	1)	300	NOSE...FLEX.	1-2000	1-2000 T	3-1000	1599 (B-25C)
B-25D-NC (-1 thru -15)*	1) 2)	300 200	NOSE...FIXED UPPER TURRET	3-1000 6- 500	b 6- 325 8- 250	8- 250 x 5000	1644 (B-25D)
B-25C-NA (-25)	AS ABOVE EXCEPT NO LOWER TURRET			1-2000	1-2000 T	2-1600	1524 (B-25C)
B-25D-NC (-20 thru -35)	ON 210(D-20), -25, -30 & -35.			2-1600 3-1000 6- 500 8- 250 12- 100	6- 325 8- 250 8- 100	8- 250 x 5200	1649 (B-25D)
B-25G-NA (-1 thru -10)	1-75MM 2-.50 2-.50 2-.50	21 100 200 200 c	NOSE CANNON M1 NOSE...FIXED UPPER TURRET LOWER TURRET	A S	A B O V E		1649
B-25H-NA (-1 thru -10)	1-75MM 4-.50 4-.50 2-.50 2-.50	21 100 100 d 200 500	NOSE CAN. T1361 NOSE...FIXED NOSE...PACKAGE UPPER TURRET SIDE WAIST FL. TAIL...POWER MT.	1-2000 2-1600 3-1000 6- 500 8- 250 12- 100	1-2000 T	3200	1624
B-25J-NC (-1 thru -20)	1) 2) 2) 2)	100 300 200 600	NOSE...PACKAGE NOSE...FIXED NOSE...FIXED SIDE WAIST FL. UPPER TURRET TAIL...POWER MT.	A S	A B O V E		AS ABOVE

NOTES: *B-25C-1 & D-1 ARMAMENT SAME AS B-25C & D. c NO LOWER TURRET ON 78(G-5) & -10.
T TORPEDO a NO LOWER TURRET ON 80(B-25D-15) ONLY. d SOME B-25H-1'S HAVE ONLY
x EXTERNAL b NOT CARRIED ON 1st.157(B-25C-1). 2 NOSE PACKAGE GUNS.

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AS OF:
DATE 26 MAY 1944

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	NO. TANKS & CAPACITY	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE		
B-25C & D (NA & NC)	WRIGHT R-2600-13 2 SPD. SUPERCH. HAMILTON STD. 12"7" DIA. - 3BL. P.P. HYDROMATIC	T 1700/S L M 1700/4500 C 1500/6700 W 1350/33500	S 67'6" L 52' H 15'9" T 19'4" W 610 sq. ft.	B 20500 C 29500 R 33500 W 35000B	5	MAIN - WINGS MAIN - WINGS BOMB BAY	2 x 184 2 x 151 1 x 585	1-30 2-50 2-50	600 1400 350	NOSE - FLEX. UPPER TURRET LOWER TURRET	1-2000 2-1000 6- 500 8- 250 12- 100	NONE	3000	SEE (A)	TECHNICAL ORDER 01-600B-1. (1 MAY 1943) f-FUEL CAPACITY OF LAST 102 (B-25C's) SAME AS BELOW. g-LENGTH OF B-25C SERIES IS 55'
B-25C-NA -1 TO -25 INCL. B-25D-NC -1 TO -35 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	B 22000 C 33500 R 33500 W 35000B	5	MAIN - WINGS MAIN - WINGS SIDE WAIST BOMB BAY	2 x 184 2 x 151 6 - 30L 1 x 125 1 x 585	1) 1) 2) 2)	300 300 400 350	NOSE - FLEX. NOSE - FIXED UPPER TURRET LOWER TURRET (On some models)	1-2000 2-1600 3-1000 6- 500 8- 250 12- 100	(SEE C) 1-2000 T 3- 325 8- 250 8- 100	2-1600 3- 250	AS ABOVE	TECHNICAL ORDER SAME AS ABOVE a-B-25C-1 & D-1 ARMAMENT SAME AS B-25C & D. b-CARRIED ON LATER MODELS ONLY. f-B-25C-25 & D-20 THROUGH -35 FUEL CAPACITY SAME AS BELOW: 1-125 GAL. SIDE WAIST TANK ON B-25D SERIES ONLY.
B-25G-NA -1 TO -10 INCL.	AS ABOVE	AS ABOVE	S 67'6" L 51' H 15'9" T 19'4" W 610 sq. ft.	B 21700 C 33500 R 33500 W 35000B	4	MAIN - WINGS MAIN - WINGS AUX. - WINGS SIDE WAIST BOMB BAY	2 x 184 2 x 151 6 - 30L 1 x 125 2 - 550	1-75MM 2) 2) 2)	21 400 400 350	NOSE CANNON-M4 NOSE - FIXED UPPER TURRET LOWER TURRET (On some models)	A S	A B O V E	AS ABOVE	TECHNICAL ORDER 01-600C-1. (REV. 10 DEC. 1943) f-BOMB BAY FUEL CAPACITY CONSISTS OF 1-215 GAL. SELF SEALING REMOVABLE TANK & 1-335 GAL. METAL DROPPABLE TANK; 1-585 GAL. METAL TANK IS INTERCHANGEABLE.	
B-25H-NA -1 TO -10 INCL.	WRIGHT R-2600-13 or -29 2 SPD. SUPERCH. HAMILTON STD. 12"7" DIA. - 3BL. P.P. HYDROMATIC	AS ABOVE	AS ABOVE	B 22000 C 33500 R 33500 W 35000B	5	MAIN - WINGS MAIN - WINGS AUX. - WINGS SIDE WAIST BOMB BAY	2 x 184 2 x 151 6 - 30L 1 x 125 2 - 550	1-75MM 4) 4) 2)	21 400 400 200	NOSE CANNON-M4 NOSE - FIXED PORE - PACKAGE SIDE WAIST-FL. UPPER TURRET LOWER TURRET TAIL-POWER MT.	AS ABOVE	1-2000 T (SEE C)	3200	SCR-271A SCR-269G SCR-287 SCR-282 SCR-578 SCR-575 RC - 36	TECHNICAL ORDER 01-600D-1. (15 OCT. 1943) a-SOME B-25H-1's CARRY ONLY 2 NOSE PACKAGE GUNS. f-BOMB BAY FUEL NOTE SAME AS FOR B-25G SHOWN ABOVE.
B-25J-NC -1, -5	AS ABOVE	AS ABOVE	S 67'6" L 52' H 15'9" T 19'4" W 610 sq. ft.	B 21100 C 33500 R 33500 W 35000B	6	AS ABOVE	AS ABOVE	1) 2) 4) 2) 2)	300 300 400 200 400	NOSE - FLEX. NOSE - FIXED PORE - PACKAGE SIDE WAIST-FL. UPPER TURRET TAIL-POWER MT.	A S	A B O V E	SCR-271A SCR-269G SCR-287 SCR-282 SCR-572 SCR-575 RC - 103 RC-36 147B	TECHNICAL ORDER 01-600E-1. (20 DEC. 1943)	

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 FT. DIST.		LANDING SPEED MPH	GROUND-RUN		WEIGHT LB.	STD. ALT. FT.	MIL. POWER MPH	RATE OF CLIMB FT/MIN	MAX. CONTIN. POWER MPH	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL US. GAL.	MAX. CONTINUOUS POWER			MAX. CRUISE POWER			LONG RANGE		
		FT.	FT.		FT.	FT.										FT.	FT.	FT.	FT.	FT.	FT.	FT.		FT.
B-25C & D (NA & NC)	25000 30000 32000 34000	- 3800 4700 5500	3300 3650 3900 -	99 108 112 -	1950 1800 2000 -	20000 15000 10000 5000 S L	267 286 284 283 264	- - - - -	262 283 279 276 260	100 500 820 8	32.1 11.5 8.0 3.5 0.0	34900 34000 33200 32000 35200	NONE NONE 97L 2000 T 5200	162L 1599 97L 97L 97L	1255 1599 97L 2000 T 5200	950 700 650 600	3.9 2.9 2.9 2.9	- - - - -	1475 1050 950 875	2.0 5.9 4.6 4.5	- - - -	1850 1700 1250 1125	10.3 8.1 8.2 8.9	
B-25C-NA -1 TO -25 INCL. B-25D-NC -1 TO -35 INCL.	32000 33200 34000 34600 35200	4700 5200 5500 5900 6000	3900 4000 4100 -	112 114 116 -	3700 2050 2100 -	20000 15000 10000 5000 S L	265 284 283 282 264	- - - -	260 280 276 274 257	350 350 650 8	21.3 11.6 5.0 0.0	34900 34000 33200 32000 35200	NONE NONE 97L 2000 T 5200	162L 1599 97L 97L 97L	1255 1599 97L 2000 T 5200	950 700 650 600	3.9 2.9 2.9 2.9	- - - -	1475 1050 950 875	2.0 5.9 4.6 4.5	- - - -	1850 1700 1250 1125	10.3 8.1 8.2 8.9	* FOR SPECIAL FERRYING USE 1x125 GAL. SIDE WAIST FUEL TANK.
B-25G-NA -1 TO -10 INCL.	32000 33700 34000 34600 35200	4700 5350 5450 5800 -	3950 4050 4100 -	112 115 116 -	3700 2050 2100 -	20000 15000 10000 5000 S L	261 278 275 285 266	- - -	277 274 270 276 257	350 650 8	21.3 11.6 5.0 0.0	34900 34000 33700 32000 35000	NONE NONE 2000 2000 T 5200	162L 152L 900 925 97L	1255 152L 900 925 97L	950 700 650 600	3.9 3.7 3.7 3.0	- - -	1475 1050 950 875	2.0 5.9 4.6 4.5	- - -	1850 1700 1250 1125	10.3 8.1 8.2 8.9	* INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. BOMBS ONLY or 1x2000# TORP. * FOR SPECIAL FERRYING USE 1x125 GAL. SIDE WAIST FUEL TANK.
B-25H-NA -1 TO -10 INCL.	32000 33200 33700 34000 34600	4700 5150 5350 5450 5800	3950 4000 4050 4100 -	112 114 115 116 -	3700 2050 2100 -	20000 15000 10000 5000 S L	262 277 275 285 266	- -	253 275 270 276 257	350 650 8	21.3 11.6 5.0 0.0	34900 34000 33700 32000 35000	NONE NONE 2000 2000 T 5200	162L 152L 900 925 97L	1255 152L 900 925 97L	950 700 650 600	3.9 3.7 3.7 3.0	- -	1475 1050 950 875	2.0 5.9 4.6 4.5	- -	1850 1700 1250 1125	10.3 8.1 8.2 8.9	* INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. BOMBS ONLY or 1x2000# TORP. * STRIP TO 35000 LB. LIMITING WEIGHT; 162L GAL. CONDITION INCLUDES 2x50 GAL. WAIST TANKS FOR SPECIAL FERRY.
B-25J-NC -1, -5	32000 33700 34000 34600 35200	4700 5350 5450 5800 -	3950 4050 4100 -	112 115 116 -	3700 2050 2100 -	20000 15000 10000 5000 S L	261 277 275 285 266	- -	277 274 270 276 257	350 650 8	21.3 11.6 5.0 0.0	34900 34000 33700 32000 35000	NONE NONE 2000 2000 T 5200	162L 152L 900 925 97L	1255 152L 900 925 97L	950 700 650 600	3.9 3.7 3.7 3.0	- -	1475 1050 950 875	2.0 5.9 4.6 4.5	- -	1850 1700 1250 1125	10.3 8.1 8.2 8.9	* INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. BOMBS ONLY or 1x2000# TORP. * 162L GAL. CONDITION INCLUDES 2x50 GAL. WAIST TANKS FOR SPECIAL FERRY.

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: (A)

24 VOLT RADIO SYSTEM
SCR-211 FREQUENCY METER
SCR-269G RADIO COMPASS
SCR-271A 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 - 12B MARKER BEACON
RC - 103 BLIND LANDING (Provisions only)
RC - 196 CONTACTOR UNIT
RC - 36 INTERPHONE AMPLIFIER

THESE FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECKS
* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.
(B) LIMITED TO 35000 LB. BY FLYING CHARACTERISTICS.
(C) TORPAGES BEING USED IN LIMITED QUANTITIES ONLY.



B-25
"MITCHELL"

MANUFACTURED BY NORTH AMERICAN (Inglewood) "NA" & NORTH AMERICAN (Kansas City) "NC"

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MARTIN (BALTIMORE) "MA"
(CHESA) "M"

MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER. GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD LB.	
B-26B-MA (B thru -4)	1-.30 1-.30 2-.50 2-.50	600 600 1500 400	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 1-20000†	1162
B-26B-MA (-10 thru -20) B-26C-MA -5 thru 1st.75(-30)	1) 1) 2) 2) 2)	200 270 240 250 800 400	NOSE...FLEX. NOSE...FLEX. SIDE WAIST-FL. U.FUS.-PACKAGE L.FUS.-PACKAGE *TAIL-POWER MT. UPPER TURRET	A S	A B O V E		1962
B-26B-MA -25 thru 1st. 150 (-50) B-26C-MA Last 125(-30)	A S	A B O V E		2-2000 2-1600 4-1000 6- 500 10- 250 20- 100	AS ABOVE	AS ABOVE	1162
B-26B-MA Last 50(-50) & -55 B-26C-MA -2 & -6 B-26C-MA -45	1) 2) 2) 2) 2)	270 240 250 800 400	NOSE...FLEX. SIDE WAIST-FL. U.FUS.-PACKAGE L.FUS.-PACKAGE TAIL-POWER MT. UPPER TURRET	AS ABOVE EXCEPT THAT B-26C-1,-2 & -6 HAVE THE TORPEDO DELETED.			AS ABOVE
111(B-40):AT-23A 1st.109(B-45) " 3(C-25): AT-23B 71(C-30): AT-23B (C-35 & -40) AT-23B 1st.26(C-45) "	ALL GUNS & ARMAMENT ITEMS REMOVED FROM THESE MODELS: MODIFIED FOR TOW TARGET USE & DESIGNATED AT-23A & B.			N	O	N	1962 3(C-25) 1162 (Balance)

NOTES: †-TORPEDO * SIDE WAIST GUNS ADDED TO LAST 111(-4) ONLY.
* B-26B-10,-15 & C-5 HAVE SAME TAIL GUN INSTALLATION & RDS./GUN AS B-26B-MA.

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AS OF:
DATE 26 MAY 1944

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 R-RECD 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
B-26 B-MA B,-2,-3 & -4	2	FRATT-WHITNEY R-2800-5e 2 SPD. SUPERCH. CURTISS 13'6" DIA. - 4 BL. P.P. ELECTRIC	T 1850/3200 C 1500/1400 1500/13000	S 65'0" L 58'3" H 19'10" T 22'0" W 602 SQ. FT.	B 23500 C 35000 R 36500 W 36500	6	MAIN - WINGS AUX. - WINGS B. BAY - (FORE)	2 x 360 2 x 121 2 x 250 1162 TOT	1-.30 1-.30 2-.50 2-.50	600 600 1500 400 210	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	SEE (A) SEE (B)	TECHNICAL ORDER 01-358A-1. (5 MARCH 1943) a SIDE WAIST GUNS ADDED TO LAST 111(-1) ONLY. b B-26B-MA HAS -5 ENGINE; B-26B-2-MA HAS -11 ENGINE & B-26B-3 & -4 HAS -13 ENGINE.	
B-26 B-MA -10 TO -20 INCL B-26 C-MO -5 TO -25 INCL	2	FRATT-WHITNEY R-2800-13 2 SPD. SUPERCH. CURTISS 13'6" DIA. - 4 BL. P.P. ELECTRIC	T 1920/3200 C 1490/11300 1550/7100	S 71'0" L 58'3" H 21'6" T 22'0" W 659 SQ. FT.	B 25300W C 37000 R 37500 W 38200(C)	6	MAIN - WINGS AUX. - WINGS BOMB BAY - (FORE & REAR)	2 x 360 2 x 121 4 x 250 1962 TOT	1) 2) 2) 2)	270 210 250 200 400 300	NOSE - FIXED ROSE - FLEX. SIDE WAIST-FL. U. PUS. - PACKAGE L. PUS. - PACKAGE UPPER TURRET TAIL-POWER MT.	A S A B O V E	A S B O V E	AS ABOVE	TECHNICAL ORDER 01-358B-1. (25 DEC. 1943) a-B-26B-10,-15 & C-5 HAVE FLEX. TAIL MOUNT INSTEAD OF POWER MOUNT. & RDS./GUN SAME AS B-26B-2-MA. b-BASIC WEIGHT OF B-26B-15 IS 21,500 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 - (FORE ONLY)	2 x 360 2 x 121 2 x 250 1162 TOT	A S A B O V E	A S A B O V E	2-2000 2-1600 4-1000 b 6- 500 b10- 250 b20- 100	1-2000 (TORPEDO)	2-1600 1-2000T	NOTE (A) plus RC-103 & 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. c RC-103 & SCR-522 ADDED TO LATER MODELS ONLY.		
B-26 F-MA -1,-2 & -6 B-26 G-MA -1 (SEE a)	2	AS ABOVE	AS ABOVE	S 71'0" L 56'1" H 20'1" T 22'0" W 658 SQ. FT.	B 25300 C 37000 R 37500 W 38200(C)	6	MAIN - WINGS AUX. - WINGS BOMB BAY - (FORE ONLY)	2 x 360 2 x 120 2 x 250 1500 TOT	1) 2) 2) 2)	270 210 250 400 500	NOSE - FLEX. SIDE WAIST-FL. U. PUS. - PACKAGE L. PUS. - PACKAGE UPPER TURRET TAIL-POWER MT.	2-2000 2-1600 4-1000 6- 500 10- 250 20- 100	NONE	4000	AS ABOVE	TECHNICAL ORDER 01-358C-1. (15 FEB. 1944) a-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 LB.	TO CLEAR 50'		GROUND-RUN T.O. DIST. FT.	LAND. DIST. FT.	LANDING SPEED MPH	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	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.			
		FT.	FT.					MPH	FT./MIN.	MPH	FT./MIN.				MIN.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES		ENDUR. HOURS
B-26 B-MA B,-2,-3 & -4	21,000 28,000 32,000 35,000 36,000	- - 3250 4000 4300	2300 2900 3500 - -	110 120 130 - -	1600 2100 2600 - -	35000	20000 15000 10000 5000 S L	270 298 291 294 281	300 750 1000 1150 1500	265 600 288 283 265	200 14.0 900 3.4 0.0	26.5 11.0 7.7 3.4 0.0	31,000 35,000 36,000 35,000	NONE NONE 2000T 4000	1162 1162 1162 962 962	950 900 962 550	3.5 3.5 - - 2.2	- - - - -	- - - - -	- - - - -	2000 1950 1900 1250	11.0 10.7 10.5 7.0		
B-26 B-MA -10 TO -20 INCL B-26 C-MO -5 TO -25 INCL	21,000 28,000 32,000 35,000 36,000 38,200	- - 3050 3900 4100 5100	1950 2200 2100 - -	134 135 136 - -	900 1050 2000 - -	37000	20000 15000 10000 5000 S L	- 282 278 285 270	- - 1000 1300	- 273 271 269 250	- 320 550 1.1 0.0	- 28.6 11.2 4.1 0.0	38,200 37,800 38,200 36,300 38,100	NONE NONE 1500 2000T 4000	1162 1162 1162 962 962	1125 1000 1000 962 650	5.7 4.2 4.2 - 2.7	- - 1725 1700 1050	11.7 8.5 8.5 - 5.4	- - - - -	- - 1800 - 1075	14.7 10.2 10.2 - 6.0	* MUST BE STRIPPED TO 36200 LB.	
B-26 B-MA -25 TO -55 INCL B-26 C-MO -30 & -45 INCL	A S	A B O V E	A B O V E	A B O V E	A B O V E	37000	A S	A B O V E	A B O V E	A B O V E	A B O V E	A B O V E	37,800 31,100 36,300 38,100	NONE NONE 2000T 4000	1162 650 962 962	1000 650 962 650	4.2 2.6 - 2.7	- - 1725 1125 1050	8.5 5.4 - 5.4	- - - -	- - - -	1825 1250 - 1075	10.2 7.0 - 6.0	
B-26 F-MA -1,-2 & -6 B-26 G-MA -1	28,000 32,000 35,000 36,000 38,200	2350 2100 2100 1200 5350	2200 2400 2600 2650 2750	135 135 136 137 -	1500 2050 2550 2750 3350	37000	25000 20000 15000 10000 5000 S L	- - 280 273 282 275	- - 1120 1100	- - 271 268 267 253	- - 390 560 4.0 0.0	- - 24.0 11.2 4.0 0.0	38,000 36,200 36,200 38,200	NONE NONE 1500 4000	1090 1250 1000 1000	1090 875 675 675	4.3 3.6 2.7 2.8	- - 1775 1500 1175 1100	8.8 7.2 5.6 5.6	- - - -	- - 1300 1125	10.6 9.0 7.3 6.3	* MUST BE STRIPPED TO 36200 LB.	

NOTES: (A)

21 VOLT RADIO SYSTEM

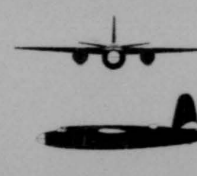
SCR-211 FREQUENCY METER
SCR-2690 RADIO COMPASS
SCR-271N COMMAND SET
SCR-287A LIAISON SET
SCR-535 SET (or SCR-995 or SCR-695)
SCR-578 EMERGENCY TRANSMITTER
RC - 32 FILTER EQUIPMENT (or RC-196)
RC - 36 INTERPHONE AMPLIFIER
RC - 43B MARKER BEACON

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

(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.

GENERAL NOTES: SOME MODELS MODIFIED FOR TOW TARGET USE BY REMOVAL OF GUNS AND ARMAMENT ITEMS; FOR DETAILS SEE PAGE OPPOSITE. THESE MODELS HAVE BEEN REDESIGNATED AT-23A & B.

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



B-26
"MARAUDER"

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AS OF:
DATE 26 MAY 1944

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 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 R-RECD 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-20B-DL	WRIGHT R-2600-11 2 SPD. SUPERCH. HAMILTON STD. 11'3" DIA. - 3 BL. P.P. HYDROMATIC	T 1600/3100 M 1600/3000 C 1350/5500 1275/12000	S 61'4" L 48'0" H 18'1" T 17' W 465 sq. ft.	B 15600 C 22000 R 25000 W 27000A	4	4	MAIN - WINGS FUSELAGE BOMB BAY	4 - 390 1 x 100 2 - 590 1080 TOT.	1-.30 2-.30 1-.50 2-.50	500 1000 200 200	TUNNEL - FLEX. L. & R. NACELLES REAR COCKPIT NOSE - FIXED	1-1000 1-500 4-250 10-100	(SEE C) 1-2000 T 2-500 4-250 4-100	1000	SCR-27LN SCR-535 MN-26C RC-36	TECHNICAL ORDER 01-LOAD-1. (1 DEC. 1942) * SOME MODELS ONLY.
A-20C-DO -I TO -10 INCL	AS ABOVE EXCEPT FOR CHANGE TO R-2600-23 ENGINE	T 1600/3100 M 1600/1000 C 1350/5000 1275/11500	S 61'4" L 47'4" H 18'1" T 17' W 465 sq. ft.	B 16300 C 23000 R 25200 W 27000A	4	4	INBD. WINGS OUTSD. WINGS FUS. (BOMB BAY) BOMB BAY (SEE B)	2 x 136 2 x 64 3 x 325 4 - 680 1080 TOT.	1) 2) .30 4) a	500	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	4-500 4-250 4-100	(SEE C) 1-2000 T	2000	AS ABOVE	TECHNICAL ORDER 01-LOAD-1. (10 FEB. 1942) * NO TORPEDO PROVISIONS ON A-20C-1. * FOR ALTERNATE INSTALLATIONS SEE EE-306-A.
A-20G-DO -I TO -15 INCL	AS ABOVE	AS ABOVE	S 61'4" L 48'0" H 17'7" T 17'0" W 465 sq. ft.	B 17200 C 24000 R 25200 W 27000A	3	3	AS ABOVE	AS ABOVE	1(.30 or .50) 500 500 350	500	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	4-500 4-250 4-100	(SEE C) 1-2000 T	2000	SCR-27LN SCR-535A SCR-595A MN-26Y RC-36 RC-32r19	TECHNICAL ORDER 01-40 (5 APRIL 1944) * ARMAMENT FOR A-20G-1 IS (2).50 CAL. FIXED NOSE GUNS OF 350 RDS. EACH & (4) 20MM NOSE CANNON, TYPE M2 OF 60 RDS. EACH; MAJORITY ALLOCATED TO FOREIGN POWER.
A-20G-DO -20 TO -45 INCL	AS ABOVE	AS ABOVE	S 61'4" L 48'0" H 17'7" T 17'0" W 465 sq. ft.	B 17700 C 25000 R 25000 W 27000A	3	3	INBD. WINGS OUTSD. WINGS FUS. (BOMB BAY) DRIP - EXT. (SEE B)	2 x 136 2 x 64 3 - 325 1 x 374 1099 TOT.	1) 2) .50 6)	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	4-500 4-250 4-100	(SEE C) * 1-2000 T 4-500 4-500 4-250 4-100	4000	SCR-27LN SCR-535A SCR-595A MN-26Y RC-36 RC-198 SCR-522	REFERENCE AS ABOVE * NO PROVISIONS FOR TORPEDO ON A-20G-40 & -45. * A-20G-45 HAS MN-26C INSTEAD OF MN-26Y. * SCR-522 INSTALLED ON THE -15'S ONLY.
A-20J-DO -I TO -20 INCL	AS ABOVE	AS ABOVE	S 61'4" L 48'0" H 17'7" T 17'0" W 465 sq. ft.	B 17800 C 25000 R 25000 W 27000A	4	4	AS ABOVE	AS ABOVE	1) 2) .50 2)	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	A S	A B O V E	4000	SCR-27LN SCR-535A MN-26C RC-36 RC-198 SCR-522	REFERENCE AS ABOVE * NO PROVISIONS FOR TORPEDO ON A-20J-15 & -20.

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		GROUND-RUN		WEIGHT	STD. ALT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE					
	GROSS WEIGHT	T.O. DIST.	LAND. DIST.	LANDING SPEED	T.O. DIST.	LAND. DIST.			FT.	FT.	FT.	FT.				FT.	FT.	FT.	FT.	FT.	FT.	FT.		FT.	FT.
A-20B-DL	17000	2800	2700	95	2050	1500	25000	280	370	277	390	25.6	23800	NONE	1080	850	3.3	1150	4.9	1500	7.0	-	-	2100	13.4
A-20C-DO -I TO -10 INCL	19000	3200	2800	95	2350	1750	25000	302	390	298	375	13.3	21500	NONE	1080	875	3.3	-	1500	6.5	-	-	2300	12.0	
A-20G-DO -I TO -15 INCL	19000	3600	2900	102	2650	1750	25000	302	390	298	375	13.3	23200	2000	540	350	1.5	-	675	3.1	-	-	1000	6.5	
A-20G-DO -20 TO -45 INCL	19000	3600	2900	102	2650	1750	25000	302	390	298	375	13.3	25300	NONE	1080	775	3.5	1650	6.5	1700	7.3	2000	9.1	2300	12.4
A-20J-DO -I TO -20 INCL	19000	3600	2900	102	2650	1750	25000	302	390	298	375	13.3	24000	2000	540	350	1.7	750	3.1	800	3.4	900	4.1	1100	6.0
A-20J-DO -I TO -20 INCL	19000	3600	2900	102	2650	1750	25000	302	390	298	375	13.3	24000	2000	540	350	1.7	690	3.0	700	3.3	-	-	950	5.7
A-20J-DO -I TO -20 INCL	19000	3600	2900	102	2650	1750	25000	302	390	298	375	13.3	26200	NONE	1099	900	3.5	-	1425	7.3	-	-	2000	11.2	
A-20J-DO -I TO -20 INCL	19000	3600	2900	102	2650	1750	25000	302	390	298	375	13.3	26000	2000	725	625	2.3	*980	*4.3	1075	4.2	*1250	*5.7	1300	6.6
A-20J-DO -I TO -20 INCL	19000	3600	2900	102	2650	1750	25000	302	390	298	375	13.3	26000	2000	725	575	2.3	*925	*4.3	975	4.5	*550	*2.5	1175	6.7
A-20J-DO -I TO -20 INCL	19000	3600	2900	102	2650	1750	25000	302	390	298	375	13.3	26000	4000	400	300	1.2	*485	*2.0	525	2.3	-	-	650	3.3

NOTES: (A) CRITICAL FLIGHT CHARACTERISTICS RESULT ABOVE 27000 LB. (B) FUSELAGE TANKS ARE CARRIED IN BOMB BAYS WITHOUT AFFECTING BOMB LOAD CAPACITY. (C) PROVISIONS ONLY FOR TORPEDO; A-20 SERIES NOT BEING USED FOR TORPEDO MISSIONS AS PER MILITARY REQUIREMENTS POLICY NO. 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.
TORPEDO (REPLACES INTERNAL BOMBS WHEN CARRIED)
X EXTERNAL

A-20
"HAVOC"

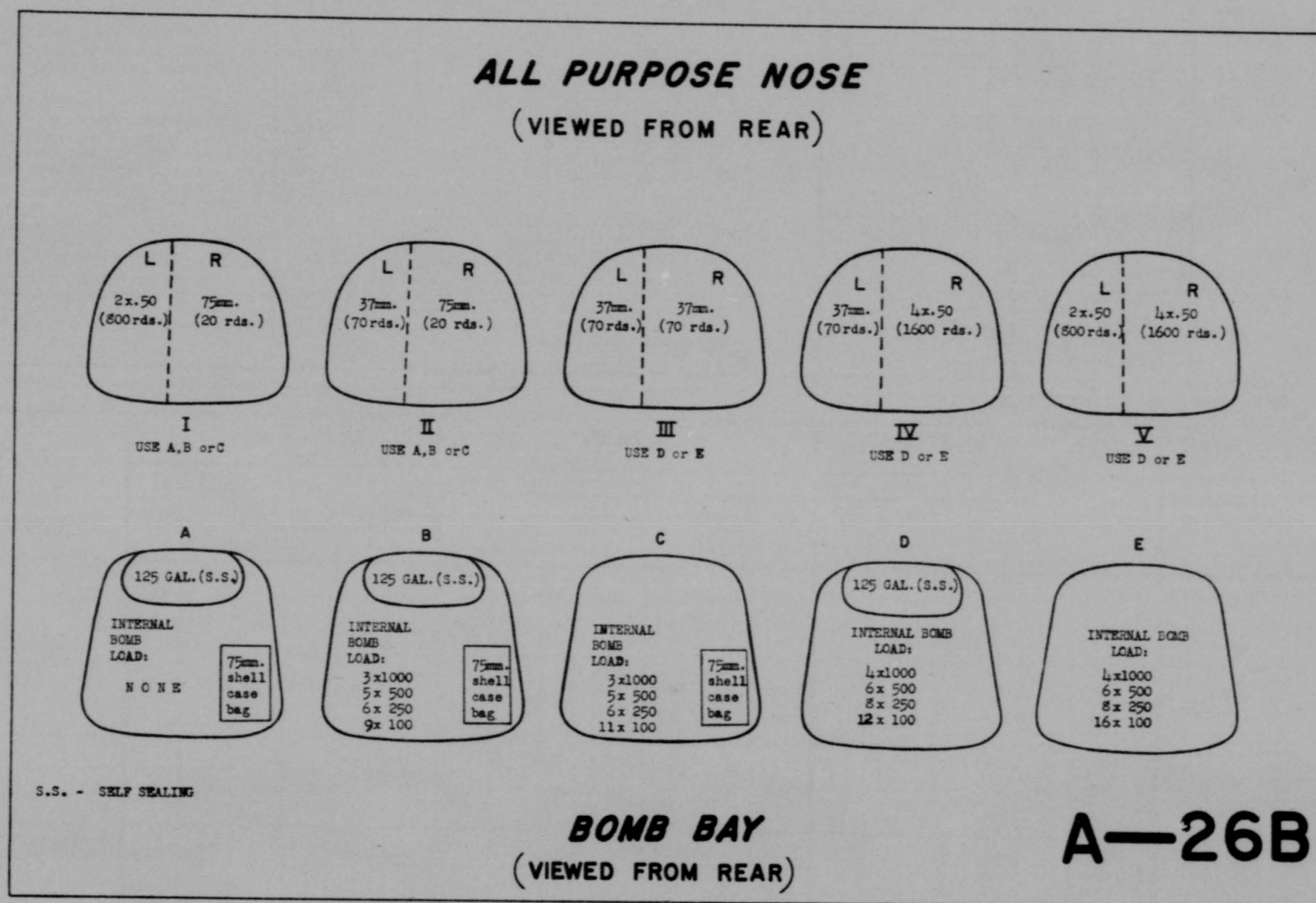
MANUFACTURED BY DOUGLAS (SANTA MONICA) "DO"
(LONG BEACH) "DL"

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PAGE 19
AS OF
DATE 26 MAY 1944

TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		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 R-RECD LIM W-WAR MAX	COMBAT CREW	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY US GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE OR STATION	EXTERNAL NO & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE		
A-26B (DL) DT -1 & -5	PRATT-WHITNEY R-2500-27 SINGLE ST.-25PD. HAMILTON STD. 12'7" DIA.-3BL. F.F., HYDROMATIC	T 2000/ S L M 2000/ 1500 C 1600/ 13500 1450/ 14000	S 70' L 49'11" H 18'6" T 19'6" W 540 Sq. ft.	B 21100 C 35000 R 35000 W 37000	2 3 0	MAIN - WINGS AUX. - WINGS BOMB BAY (SS) B. BAY (FERRY) 1500 TOT.	2 x 300 2 x 100 1 x 125 1 x 675	1-750E 2-.50 2-.50	20 500 500	*NOSE CAN, T13E1 UPPER TURRET LOWER TURRET WINGS-PACKAGE (ALTERNATE INSTALLATION - SEE A)	b 4-1000 b 6- 500 b 8- 250 b 16- 100	b 2-2000T 4- 500 4- 250 4- 100	4-1000 4- 500x b 6000	SCR-271M SCR-595 MN-26C RC-36	a PARTS WILL BE PROCURED FOR SERVICE INSTALLATION OF ALL-PURPOSE NOSE AS SHOWN ON PAGE OPPOSITE. b SEE PAGE OPPOSITE FOR BOMB LOAD CARRIED WITH 75MM. GUN. c NORMAL CREW (2); CREW (3) WITH 75MM. CANNON. f NO SELF SEALING BOMB BAY TANK ON A-26B-1-DL ONLY. g TECHNICAL ORDER OI-LMAJ-1. (10 NOV. 1943) h SEE PAGE OPPOSITE FOR ALL-PURPOSE NOSE INSTALLATIONS.	
A-26B (DL) DT -10 & -15	AS ABOVE	AS ABOVE	AS ABOVE	B 23600 C 35000 R 35000 W 37000	2	AS ABOVE		6-.50 2-.50 2-.50	400 500 500	*NOSE UPPER TURRET LOWER TURRET WINGS-PACKAGE (ALTERNATE INSTALLATION - SEE A)	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE		

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'		GROUND-RUN		WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER			TAKE OFF WEIGHT LB.	BOMBS CARGO LBS.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER			LONG RANGE			
		T.O. DIST. FT.	LAND. DIST. FT.	LANDING SPEED MPH.	T.O. DIST. FT.			LAND. DIST. FT.	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.	AT 10000 FT.
A-26B (DL) DT -1 & -5	25000 29000 32000 33000 34000 36000	- 2900 3700 4000 4300 4850	- 2950 3200 3250 -	96 104 109 111 -	1750 2000 2150 2250 -	35000	20000 15000 10000 5000 S L	329 341 337 345 325	250 720 1010 1540 2050	326 333 327 319 299	100 15.3 7.0 2.7 0.0	35000 31400 31400 31600 32500	NONE NONE 3000 800 (8) WING TANK	1600 925 925 800 925	- - 770 610 660	- 2.5 2.5 2.2 2.3	- 1160 1030 850 -	4.2 4.0 3.4 -	1560 1500 1270 1080	6.7 6.9 5.9 5.0	- - - -	3110 1830 1630 1360 1560	16.1 9.5 8.3 6.0 8.0	* STRIPPED TO 35000 LB. FOR FERRYING. NOTE: WHEN 3 EXTERNAL WING PACKAGE GUNS ARE CARRIED HIGH SPEED WILL BE DECREASED APPROX. 15 MPH. AND RATE OF CLIMB 100 FT./MIN.
A-26B (DL) DT -10 & -15	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	35000	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)

8 REMOVABLE .50 CAL. PACKAGE GUNS MAY BE MOUNTED ON WING BOMB RACKS IN PLACE OF BOMBS.

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

T-TORPEDO
X-EXTERNAL



A-26

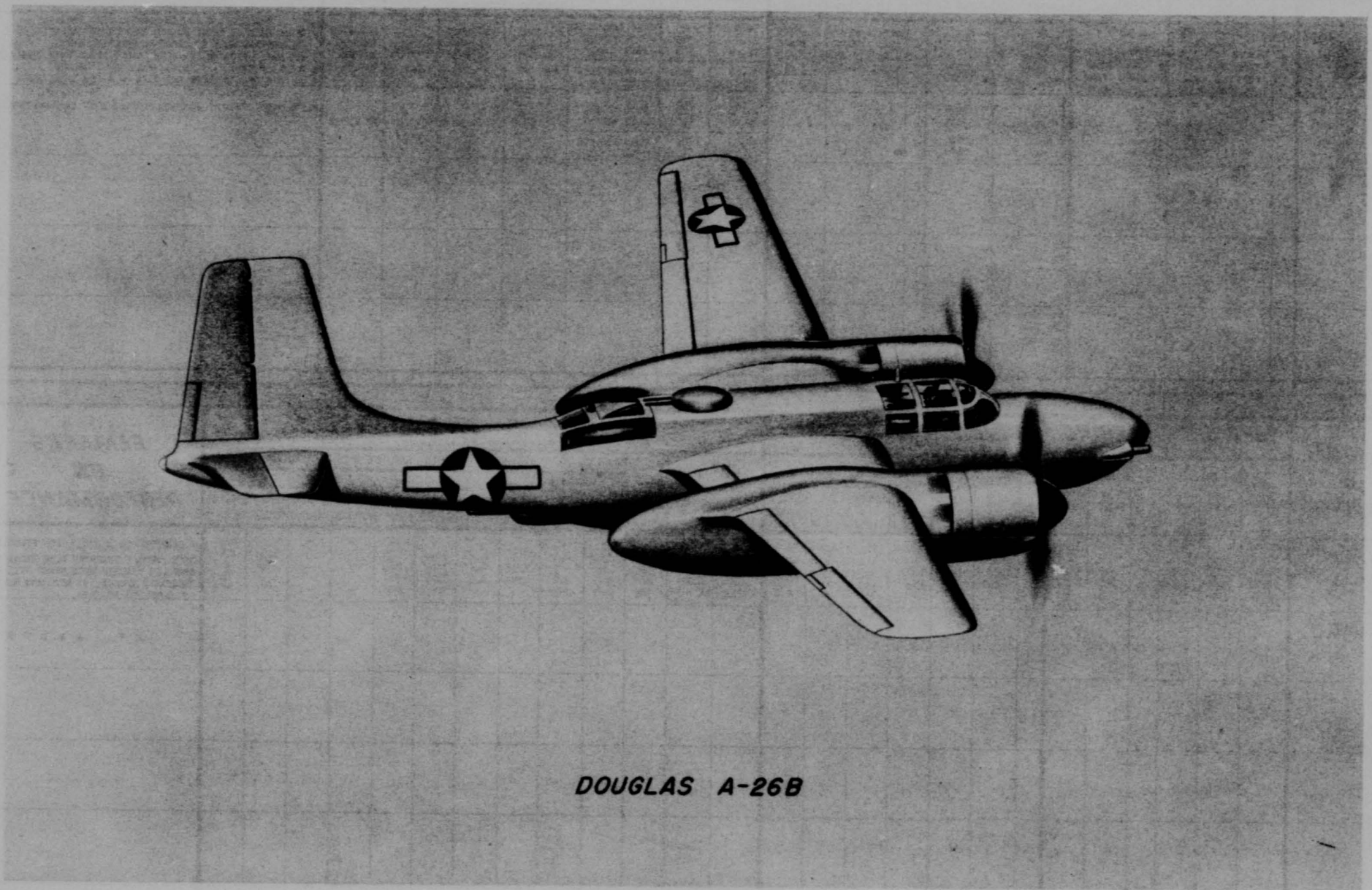
"INVADER"

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

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DOUGLAS A-26B

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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
	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 R-RECD 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 STATION	EXTERNAL NO. & SIZE CAPACITY	MAX. LOAD LB.	TYPE	
A-36A-NA	1	ALLISON V-1710-27 SINGLE SPEED CURTISS 10'9" DIA. - 3 BL. CONST. SPD. ELECT.	T 1325/5100 M 1500/2500 C 1100/6600	S 37' 0" L 32' 3" H 12' 2" T 11' 10" W 233 SQ. FT.	B 7100 C 10000 R 10700	1	MAIN - WING EXT. - WINGS	2 x 90 2 x 75 2 x 150 180 TOT.	2 x .50 4 x .50	200 200	HOSE - FIXED WING - FIXED	NONE	2-500 2-250	1000	SCR-271M SCR-535 SCR-595**	TECHNICAL ORDER 01-60HB-1. (10 JULY 1943) ** WAR EMERGENCY RATING. ** LAST 399 ONLY.
			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 ON PERFORMANCE			
	TO CLEAR 50'		LANDING SPEED MPH	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		MAX. CRUISE POWER		LONG RANGE					
	T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.		WEIGHT LB.	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.	RANGE MILES		ENDUR. HOURS	RANGE MILES	ENDUR. HOURS
A-36A-NA	9000 10000 11000	2800 3400 4100	3000 3500	2050 2600 3200	2100 2400	20000 15000 10000 5000 S L	288 295 305 310 295	500 1025 1525 2075 2200	277 285 293 293 275	300 # # # #	16.6 9.1 5.1 2.4 0.0	11000 10000 9000 10000	NONE NONE NONE 1000	180 330 180 180	1100 1000 550 500	5.6 3.8 2.0 2.0	- - - -	- - - -	- - - -	- - - -	- - - -	2100 1500 850 800	10.4 7.7 3.9 3.7	* WITH 2-500 LB. EXTERNAL BOMBS.

NOTES:

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

MILITARY POWER AVAILABLE FOR 15 MINUTES.



A-36
"MUSTANG"

MANUFACTURED BY NORTH AMERICAN (Ingleswood) "NA"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	PAGE 22
CONFIDENTIAL																	AS OF:
																	DATE: 26 MAY 1944
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 R-RECD 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.		RADIO TYPE	
C-46A-CU -1 TO -45 INCL. C-46A-CK -1 & 5	2	PRATT-WHITNEY R-2800-51 2 SPEED CURTISS 13'6" DIA. - 48L. E.P. ELECTRIC 1150/13000	T 2000/ S L	S 108'0" L 76'4" H 22'0" T 26'0" W 1360 SQ. FT.	B 3200 C 46000 R 46000 W 56000A	3	WING-PANELS FUSELAGE	6-1100 8 x 100 2200 TOT.	N	0	N E	FORE-BELLY AFT-BELLY MAIN-CABIN TROOPS	5700 1800 10000 or 50	15000	SCR-211 269, 271, 287, 518, 578 & 695 RC-36, 43, 103 & 158 AN-ARR-1	TECHNICAL ORDER 01-251A-1. (15 APR. 1944) * EARLY MODELS HAVE HAMILTON STD., 38 LADE, HYDROMATIC, 15'1" DIA. PROPELLER. * MISC. RADIO CARRIED: MAX. COMBINATION SHOWN. NOTE: EARLY MODELS LIMITED TO 40000 LB. GROSS WEIGHT & HAVE SMALL CARGO DOOR.	
C-47-DL C-47A TO -90-DL C-47A TO -25-DK C-53 C&D-DL	2	PRATT-WHITNEY R-1830-92 INTEGRAL SUPER. HAMILTON STD. 11'7" DIA. - 38L. E.P. HYDROMATIC	T 1200/ S L	S 95'0" L 64'6" H 17'0" T 18'6" W 987 SQ. FT.	B 18000 C 26000 R 29000 W 36500A	3	MAIN-WINGS AUX. - WINGS FUSELAGE	2 x 202 2 x 200 8 x 100 1604 TOT.	N	0	N E	CARGO or TROOPS or LITTERS	6000 27 18	6000 NCR 10000 MAX 11000 MAX	SCR-211, 269, 271, 287, 518, 578 & 695 RC-36, 43, 103, 158 AN-ARR-1	TECHNICAL ORDER 01-40MC-1. (REV. 15 DEC. 1943) * MISC. RADIO CARRIED: MAX. COMBINATION SHOWN. (AN/APN-2 ON SOME MODELS). C-47, C-53 & C-53C: INSTALLED WITH 12 VOLT RADIO SYSTEM; OTHERS WITH 24 VOLT RADIO SYSTEM. NOTE: C-47 & C-53 SERIES SIMILAR EXCEPT FOR LARGE CARGO DOOR ON C-47. THE C-53 CARRIES 24 PERSONNEL.	
C-60A-LO ATO -5	2	RIGHT R-1820-87 2 SPEED HAMILTON STD. 10'6" DIA. - 38L. E.P. HYDROMATIC	T 1200/ S L	S 65'8" L 49'10" H 12'0" T 15'4" W 551 SQ. FT.	B 13000 C 21500 R 21500 W 25000	3	FRONT-WINGS REAR - WINGS AUX. - CABIN	2 x 150 2 x 172 3 x 134 1046 TOT.	N	0	N E	BELLY CABIN or PARATROOPS	3400 6600 or 18	8500	SCR-211, 269, 271, 287, 518, 578 & 695 RC-36, 43, 103, 158 AN-ARR-1	TECHNICAL ORDER 01-75CE-1. (10 MARCH 1943) * MISC. RADIO CARRIED: MAX. COMBINATION SHOWN. EARLY MODELS CARRY SCR-535 IN PLACE OF SCR-695. * 1200 LB. BALLAST REQUIRED IN NOSE TO BALANCE PARATROOPS.	

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		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		MAX. CRUISE POWER		LONG RANGE						
		T.O. DIST. FT.	LAND. DIST. FT.	LANDING SPEED MPH	T.O. DIST. FT.			LAND. DIST. FT.	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
C-46A-CU -1 TO -45 INCL. C-46A-CK -1 & 5	31000 39000 46000 50000	- 2050 2700 3500	2250 2150 2650 -	82 88 95 -	- 1150 2000 2700	1200 1100 1600 -	46000	20000 15000 10000 5000 S L	257 254 254 252 245	530 780 900 1100 1300	257 254 256 255 246	400 650 750 900 900	28.4 18.6 11.6 5.5 0.0	51000 47000 47000 51000	2000 4000 6000 10000	2200 1100 850 750 1050	1600 1400 1400 750 700	6.8 4.2 3.1 3.0	- - - -	2600 1100 1200 1100	12.9 6.7 5.9 5.9	- - - -	2950 1900 1350 1200	15.8 10.0 7.1 6.7	
C-47-DL C-47A TO -90-DL C-47A TO -25-DK C-53 C&D-DL	21000 23000 26000 29000	1850 2100 2400 3200	2100 2300 2600 -	66 69 73 -	- 1150 1550 2000	1300 1100 1600 -	26000	20000 15000 10000 5000 S L	NO MILITARY POWER RATINGS	201 217 217* 202* 187*	180 150 720 920 0.0	37.0 20.0 11.0 5.0 0.0	29000 26000 29000	NONE 2000* 6000*	1604 1000 804	1500 950 750	7.6 4.7 3.7	ABOVE PRAC- TICAL CRUIS- ING CEILING	2300 1150 1100	13.0 7.9 6.2	ABOVE PRAC- TICAL CRUIS- ING CEILING	3100 2050 1550	19.3 12.7 10.0	* MAX. PERMISSIBLE LEVEL FLIGHT SPEED FOR 29000 LB. ** 6000 LB. CARGO OR 27 TROOPS.	
C-60A-LO ATO -5	11000 17500 18500 21500 23000	- 1800 2050 2850 3300	2150 2600 2700 -	61 68 70 -	- 1000 1150 1600 1900	1700 2100 2200 -	21500	20000 15000 10000 5000 S L	259 259 260 255 236*	650 1300 1400 1600 1600	500 252 255 247 235	19.0 11.0 7.0 3.0 0.0	21500 23000	1150 5000*	1046 644	1000 600	4.5 2.7	AS ABOVE	1150 850	7.0 4.3	AS ABOVE	2300 1200	11.4 7.7	* SPEED RESTRICTED IN LEVEL FLIGHT. ** 5000 LB. CARGO or 18 PARATROOPS & 1200 LB. BALLAST IN NOSE.	

NOTES:
(A) PERMISSIBLE ONLY WITH ALL WING TANKS FULL.
RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.



C-46A
"COMMANDO"



C-47A
"SKYTRAIN"



C-60A
"LODESTAR"

MANUFACTURED BY CURTISS (Buffalo) "CU"; DOUGLAS (Long Beach) "DL" & DOUGLAS (Oklahoma) "DK"; LOCKHEED (Burbank) "LO"

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PAGE 23
AS OF
DATE 26 MAY 1944

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 R-RECD 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.	
C-54A-DO -1 & -5 C-54A-DC -1 TO -15 INCL.	PRATT-WHITNEY R-2000-3 or -7 2 SPEED HAMILTON STD. 13'1" DIA. - 3 BL. F.P., HYDROMATIC	T 1290/3000 M 1290/3000 C 1015/9000 940/13200 940/13200	S 117' 6" L 93' 10" H 27' 6" T 24' 8" W 1460 SQ.	B 37000 C 58000 R 58600 W 76000A	6		INBD. - WINGS OUTED. - WINGS FUELSAGE	2x 508 2x 435 4x 464 3742 TOT.	N	0	N	E	FORE-BELLY APT -BELLY FORE-CARGO APT -CARGO TROOPS	1800 2100 24000 14900 30 or 50	25000	SCR-211, 269, 274B, 287, 278, 595/595. RC-36, 43, 103, 108.	TECHNICAL ORDER 01-4088-1. (REV. 10 AUG. 1943) * MISC. RADIO CARRIED: MAX. COMBINATION SHOWN. NOTE: 30 TROOPS WITH FUELSAGE TANKS (3742 GAL.) 50 TROOPS WITHOUT FUELSAGE TANKS (1886 GAL.)
C-69-LO	WRIGHT R-3350-35 SINGLE or 2 SPEED HAMILTON STD. 15'6" DIA. - 3 BL. F.P., HYDROMATIC	T 2200/7300 M 2200/7300 C 2000/7800	S 123' 0" L 95' 12" H 23' 8" T 28' 0" W 1650 SQ.	B 50500 C - R 75600 W 92000			9		WINGS WINGS	2x 819 2x 1582 4816 TOT.	N	0	N	E	60 PASS- ENGERS	NONE	32000
C-87-CF	PRATT-WHITNEY R-1830-13 TURBO HAMILTON STD. 11'7" DIA. - 3 BL. F.P., HYDROMATIC	T 1200/5 L M 1200/26500 C 1100/27000	S 110' 0" L 66' 4" H 18' 0" T 25' 8" W 1042 SQ.	B 34250 C 56000 R 56000 W 62000	5				INBD. - WINGS OUTED. - WINGS	12- 2364 6- 1550 2814 TOT.	1-50 (ON SOME MODELS ONLY)	500	TAIL - FLEX.	CHAIRS OR LITTERS & BENCH	20 or 7 & 11	4400 NWR. 10000 MAX.	SCR-271A, 269, 287, 578 & 695 RC-36, RC-13
			S L H T W	B C R W			S L H T W	B C R W									


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. FT.		LANDING SPEED MPH	GROUND-RUN T.O. 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					
		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	ENDUR.	RANGE	ENDUR.	RANGE		ENDUR.	RANGE	ENDUR.
		MILES	HOURS					MILES	HOURS	MILES	HOURS	MILES				HOURS	MILES	HOURS	MILES	HOURS	MILES		HOURS	MILES	HOURS
C-54A-DO -1 & -5 C-54A-DC -1 TO -15 INCL.	45000 55000 59000 62500 65000	- 2800 3300 3850 4350	2900 3400 - - -	80 90 - - -	1800 2300 - - -	56000 15000 10000 5000 S L	- - - 272 260	- - - 1150 1150	269 800 276 260 260	425 16.0 1000 1100 1050	21.4 16.0 9.4 4.4 0.0	62500 65000 59000 65000	NONE * 8000 * 8000 * 4000	3742 2814 1886 1886	EXCEEDS SPEED LIMITS	ABOVE FRACTI- ONAL CRUIS- ING CEILING	3400 2500 1600 1550	16.2 12.0 7.7 7.7	ABOVE FRACTI- ONAL CRUIS- ING CEILING	4100 2900 1900 1800	26.0 17.1 11.7 10.2	* 8000 LB. CARGO or 30 TROOPS & 2000 LB. EQUIPMENT. ** 4000 LB. CARGO or 50 TROOPS & 4000 LB. EQUIPMENT.			
C-69-LO	58500 62000 67000 75000 82000	- 2050 2500 3100 3750	2650 3150 3400 - -	100 105 110 - -	1400 1450 1350 - -	72000 20000 15000 10000 5000 S L	- - - 330 314	- - - 2260 2480	269 300 315 325 307	14.0 9.0 5.0 2.0 0.0	82000 75000 82000	NONE 12000 18400	4800 1630 1630	- - -	- - -	2800 875 850	11.3 3.4 3.4	- - -	4550 1250 1200	23.8 6.9 6.4					
C-87-CF	40000 50000 56000 60000	- 3500 4750 6000	3300 3900 4250 -	90 100 105 -	2800 3300 3550 -	56000 30000 25000 20000 15000 10000 5000	302 317 301 287 273 254	600 1050 1100 1150 1200 1200	355 850 900 950 1000 950	34.0 26.8 20.9 15.3 9.0 4.2	52900 56000 56000 60000	NONE 3100 3100 9800	2814 1805 2364 2364	1215 4.6 1205 4.6 1000 3.8 975 3.7	1385 4.6 1375 4.6 1135 3.8 1100 3.6	2635 11.7 11.4 9.4 8.9	2835 11.0 2750 10.8 2235 8.9 2165 8.8	3000 2850 2350 2300	16.2 15.5 12.5 11.7						


NOTES:
(A) PERMISSIBLE ONLY WITH ALL WING TANKS FULL.
RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.



C-54A "SKYMASTER"



C-69 "CONSTELLATION"



C-87 "LIBERATOR"

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

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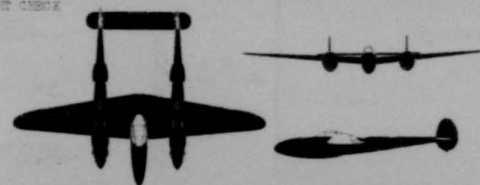
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.	S-SPAN	B-BASIC	TANK TYPE OR LOCATION		NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	TYPE		
		T-TAKE-OFF M-MILITARY C-CONTINUOUS	L-LENGTH H-HEIGHT T-TREAD W-WING AREA	C-COMBAT R-RECD. LIM. W-WAR MAX.							NO. & SIZE OR STATION	NO. & SIZE OR CAPACITY				
P-38F-LO	2	ALLISON V-1710-43 & -53 TURBO CURTISS 11'6" DIA. - 3BL. F.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 328 SQ. FT.	B 13000 C 15300 R 20000 W -	1	MAIN - WINGS RES. - WINGS	2 x 90 2 x 60 300 TOT.	1-20MM. 4-.50	150 500 (MAX.)	NOSE-TYPE M1 NOSE-FIXED	NONE	NONE	SCR-183 or SCR-274N	TECHNICAL ORDER 01-75FB-1. (REV. 15 JAN. 1943) * 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 R 20000 W -	1	MAIN-WINGS RES.-WINGS DRCP.-EXTER.	2 x 90 2 x 60 2 x 75 or 2 x 150 600 TOT.	A S	A B O V E	NONE	2-1000 2-500 2-325 2-250 2-100	2000	SCR-274N* SCR-515** SCR-522 SCR-535	REFERENCE AS ABOVE * PROVISIONS ONLY. ** SPACE ONLY.	
P-38G-LO -1 TO -15 INCL.	2	ALLISON V-1710-51 & -55 TURBO CURTISS 11'6" DIA. - 3BL. F.P., ELECTRIC	T 1225/8 L M 1150/27000 C 1100/24000	AS ABOVE	B 13500 C 15800 R 20000 W -	1	AS ABOVE EXCEPT THAT LAST 200 P-38G-10'S ARE SAME AS BELOW	2 x 90 2 x 60 2 x 75 or 2 x 150 600 TOT.	A S	A B O V E	AS ABOVE EXCEPT LAST 200 P-38G-10'S ONLY ARE SAME AS BELOW	NONE	2-1000 2-500 2-325 2-250 2-100	3200	SCR-274N* SCR-515** SCR-522 SCR-535 SCR-695***	REFERENCE AS ABOVE * LIMITED TO 1150 HP. BECAUSE OF INADEQUATE COOLING. * PROVISIONS ONLY. ** SPACE ONLY. *** LAST 179 P-38G-10'S ONLY.
P-38H-LO -1 & -5	2	ALLISON V-1710-89 & -91 TURBO CURTISS 11'6" DIA. - 3BL. F.P., ELECTRIC	T 1425/8 L M 1425/25000 C 1100/25000	AS ABOVE	B 13700 C 16300 R 21000 W -	1	MAIN-WINGS RES.-WINGS DRCP.-EXTER.	2 x 90 2 x 60 2 x 75 or 2 x 150 600 TOT.	1-20MM. 4-.50	150 500 (MAX.)	NOSE-AN-M2" NOSE - FIXED	NONE	2-1600 2-1000 2-500 2-325 2-250 2-100	3200	SCR-274N* SCR-515** SCR-522 SCR-695	TECHNICAL ORDER 01-75FF-1. (25 SEPT. 1943) * LIMITED TO 1240 HP. BECAUSE OF INADEQUATE COOLING. * PROVISIONS ONLY. ** 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		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.	T.O. DIST. FT.	LAND. DIST. FT.			HIGH SPEED	RATE OF CLIMB FT/MIN.	HIGH SPEED	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.					
		FT.	FT.	FT.	FT.			M.P.H.	FT/MIN.	M.P.H.	FT/MIN.				MIN.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES		ENDUR. HOURS	RANGE MILES	ENDUR. HOURS
P-38F-LO	13500	-	2750	85	-	1150	25000	390	2100	360	#	11.0	15800	NONE	300	400	1.3	425	1.3	700	2.7	675	2.4	900	4.5	
P-38F-LO -1 TO -15 INCL.	13500	-	2750	85	-	1150	25000	395	2100	360	#	12.0	19900	NONE	900	1375	5.0	1150	5.0	2050	9.3	2050	8.6	3300	9.9	
P-38G-LO -1 TO -15 INCL.	15500	2150	2980	90	1280	1580	20000	390	2300	367	#	8.8	18000	NONE	600	800	2.9	850	2.9	1400	6.1	1125	5.4	1750	9.1	
P-38H-LO -1 & -5	13600	-	2750	86	-	1150	25000	402	1700	390	#	9.7	20300	NONE	900	1300	5.0	1350	5.0	1050	9.3	1350	8.6	2200	10.0	NO WAR EMERGENCY POWER AVAILABLE BECAUSE OF INADEQUATE COOLING

NOTES:

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



P-38
"LIGHTNING"

MANUFACTURED BY LOCKHEED (Burbank) "LO"

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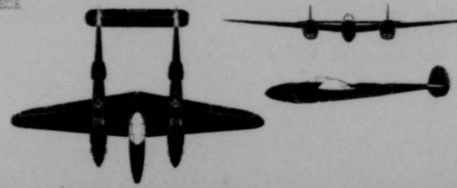
TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
CONFIDENTIAL																	
PAGE 25 AS OF: DATE 26 MAY 1944																	
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER 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 R-RECD 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
P-38J-LO -5 & -10	2	ALLISON V-1710-89 & -91 TURBO CURTISS 11'6" DIA. - 3BL. F.F., ELECTRIC	T 1125/5 L M 1125/26500 C 1100/32500	S 52' 0" L 37' 10" H 12' 10" T 16' 6" W 328 sq. ft.	B 13700 C 16150 R 21000 W -	1	MAIN - WINGS RES. - WINGS DROP. - EXTER.	2x 90 2x 60 2x 75 or 2x 150 or 2x 165 or 2x 300	1-20MM 1-50 (MAX.)	150 500	NOSE - AN M2 "C" NOSE - FIXED	NONE	2-1600 2-1000 2- 500 2- 325 2- 250 2- 100	3200	SCR-27LN* SCR-515** SCR-522 SCR-695	TECHNICAL ORDER 01-75FF-1. (25 SEPT. 1943) * PROVISIONS ONLY. ** SPACE PROVIDED.	
P-38J-LO -5 TO -25 INCL. [L.E. TANKS]	2	AS ABOVE	T 1125/5 L M 1600/26500 C 1100/32500	AS ABOVE	B 11100 C 17600 R 22000 W -	1	MAIN - WINGS RES. - WINGS L.E. - WINGS DROP. - EXTER. (SEE f)	2x 90 2x 60 2x 75 or 150 or 165 or 300 102L TOT	A S A B O V E	A S A B O V E	A S A B O V E	A S A B O V E	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE f THE 2-62 GAL. LEADING EDGE WING TANKS ARE INSTALLED AT FACTORY, MOD. CENTER or FURNISHED TO SERVICE IN KITS. WAS WAR EMERGENCY RATING.		
			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												
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					
	TO CLEAR 50'			GROUND-RUN			WEIGHT	STD. ALT.	WAR EMERG. HIGH SPEED	MIL. POWER RATE OF CLIMB	MAX. CONTIN. POWER HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
	GROSS WEIGHT	T.O. DIST.	LAND. DIST.	LANDING SPEED	T.O. DIST.	LAND. DIST.											AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.		RANGE	ENDUR.	RANGE	ENDUR.	RANGE
P-38J-LO -5 & -10	13700 15500 16500 18500 19600 20500	1650 1900 2100 2750 3400	2750 3050 3200 3550 3750	100 105 108 116 121	900 1050 1150 1500 1850	1150 1650 1750	16150	30000 25000 20000 15000 10000 5000	113 120 148 395 380 363	1830 2665 3190 3550 3820 3260	113 120 148 395 380 363	2050 2500 2875 3090 3250 3125	377 341 368 353 340 323	10.3 8.0 6.2 4.5 2.9 1.6	20950 19050 16150 18150 19650	NONE NONE NONE 2000 3200	900 650 500 300 300	1000 750 325 300 290	3.8 2.6 1.1 1.1 1.1	1000 775 390 300 275	3.8 2.5 1.1 1.1 1.1	1700 1250 600 525 500	6.7 4.5 2.3 2.2 2.0	1750 1300 600 525 500	6.9 4.6 2.2 2.0 1.9	2100 1675 800 700 650	12.0 9.2 4.5 3.7 3.6	P-38J SERIES HAVE INCREASED DRAG DUE TO EXTERNAL CORE TYPE COOLERS. PERFORMANCE VALUES ARE SHOWN WITH-OUT EXTERNAL RACKS.
P-38J-LO -5 TO -25 INCL. [L.E. TANKS]	11000 16000 17600 19600 20800 21700	1700 2000 2400 3400 4800	2800 3150 3400 3750	102 109 111 121	950 1100 1300 1850	1500 1700	17600	30000 25000 20000 15000 10000 5000	145 111 143 390 377 350	1625 2115 2925 3265 3525 3670	145 111 143 390 377 350	1750 2200 2550 2850 3125	390 378 359 348 336 317	11.3 8.8 6.7 4.9 3.2	21700 20500 17600 19600 20800	NONE NONE NONE 2000 3200	1021 754 625 421 421	1050 825 390 300 290	4.2 3.1 1.6 1.6 1.6	1070 900 475 300 275	4.2 3.1 1.6 1.6 1.6	1320 1360 800 710 685	7.7 5.2 3.1 3.0 2.9	1820 1460 800 735 705	7.6 5.4 3.1 2.7 2.7	2260 1910 1375 975 900	13.4 12.0 6.7 5.3 5.3	AS ABOVE

NOTES:

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

* MILITARY POWER AVAILABLE FOR 15 MINUTES



P-38
"LIGHTNING"

MANUFACTURED BY LOCKHEED (Burbank) "LO"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
CONFIDENTIAL																
PAGE 26																
AS OF: DATE 26 MAY 1944																
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 R-RECD 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	
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 R 9200 W -	1	WING TOTALS DROPP.-BELLY	12-120 1x75 or 1x156 or 1x175 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 01-110PB-1. (30 JUNE 1943)
P-39D-BE -1	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	4-.30 2-.50 1-20MM	*1000 200 60	WING - FIXED NOSE - FIXED PROP. - TYPE ML	AS	AS ABOVE		SCR-274L or SCR-522A & SCR-535A	TECHNICAL ORDER 01-110PB-1. (30 JUNE 1943)
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. ELECT.	T 1150/S L M 1150/12000 C 1000/10800	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	4-.30 2-.50 1-37MM	*1000 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE ML	AS	AS ABOVE		SCR-283	TECHNICAL ORDER 01-110PB-1. (30 JUNE 1943)
P-39K-BE -1	1	ALLISON V-1710-63 SINGLE SPEED AERO PRODUCTS 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		SCR-274L or SCR-522A & SCR-535A	TECHNICAL ORDER 01-110PB-1. (30 JUNE 1943)

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	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.		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 10000 FT.	
P-39D-BE	6700	-	1850	82	-	1100	7600	25000	324	750	310	11.0	8850	NONE	295	550	2.2	-	-	-	-	1100	6.2
	7600	2800	2050	86	1800	1300		20000	318	1350	332	9.1	8800	NONE	276	525	2.0	-	-	-	-	1050	5.9
	7800	3000	2100	88	2000	1350		15000	360	2000	343	6.1	8150	NONE	195	420	1.6	-	-	-	-	800	4.7
	8150	3400	2200	91	2250	1400		10000	355	2150	345	3.9	7650	NONE	120	275	0.9	450	1.7	350	1.5	600	2.9
	8850	4500	-	-	2800	-		5000	335	2550	323	1.9	8150	500	120	225	0.9	-	-	250	1.5	450	2.6
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
P-39D-BE -2		AS ABOVE	AS ABOVE		AS ABOVE			AS ABOVE	AS ABOVE	AS ABOVE			AS ABOVE		AS ABOVE		AS ABOVE		AS ABOVE				AS ABOVE
P-39F-BE		SIMILAR TO P-39D			AS ABOVE			AS ABOVE	AS ABOVE	AS ABOVE			AS ABOVE		AS ABOVE		AS ABOVE		AS ABOVE				AS ABOVE
P-39K-BE -1		SIMILAR TO P-39D-2			AS ABOVE			AS ABOVE	AS ABOVE	AS ABOVE			AS ABOVE		AS ABOVE		AS ABOVE		AS ABOVE				AS ABOVE

NOTES:

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

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PAGE 27
AS OF:
DATE 26 MAY 1964

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 R-RECD 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
P-39L-BE -1	1	ALLISON W-1710-63 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. CONST. SPD. HYDR.	T 1325/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 6500 C 7900 R 9200 W -	1	WING TOTALS 12-120 DROPP.-BELLY 1x75 or 1x156or 1x175 295 TOT.	4-.30 2-.50 1-37MM	*1000 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE M4	NONE	1-500 1-325 1-250 1-100	500	SCR-27LN or SCR-522A & SCR-535A	TECHNICAL ORDER 01-110PM-1. (30 JUNE 1945)			
P-39M-BE -1	1	ALLISON W-1710-83 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. CONST. SPD. HYDR.	T 1200/S 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	AS ABOVE	TECHNICAL ORDER 01-110PM-1. (30 JULY 1945)			
P-39N-BE -0 TO -5 INCL.	1	ALLISON W-1710-85 (A) SINGLE SPEED AERO PRODUCTS 11'7" DIA. - 3BL. CONST. SPD. HYDR.	AS ABOVE	AS ABOVE	AS ABOVE	1	WING TOTALS 8-87 DROPP.-BELLY 1x75 or 1x156or 1x175 262 TOT.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110PM-1. (10 AUG. 1945) * 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.	1	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 2-.50 1-37MM	300 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE M4	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110PM-1. (20 AUG. 1945) ** KITS AVAILABLE IN SERVICE TO INCREASE BUILT-IN FUEL OF P-39Q-1 & -5 TO 120 GAL.			
P-39Q-BE -20 TO -30 INCL.	1	ALLISON W-1710-85 (A) SINGLE SPEED AERO PRODUCTS CONST. SPD. HYDR.	AS ABOVE	AS ABOVE	AS ABOVE	1	WING TOTALS 12-120 DROPP.-BELLY 1x75 or 1x156or 1x175 295 TOT.	2-.50 1-37MM	200 30	NOSE - FIXED PROP. - TYPE M4	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 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			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.	RANGE	ENDUR.	RANGE	ENDUR.
P-39L-BE -1	7000 7400 7900 8400 9100	- 2600 3100 3750 5000	1950 2000 2100 - -	84 86 89 - -	1150 1200 1300 -	7900	25000 20000 15000 10000 5000	323 317 350 351 335	690 1250 1900 2350 2900	392 430 512 511 322	11.9 9.7 8.6 8.2 8.1	9100 8400 7900 8400	NONE NONE NONE NONE	295 195 120 120	500 100 750 200	2.0 1.6 0.9 0.9	850 550 425 375	3.5 2.4 1.5 1.2	- - - -	- - - -	1075 750 550 100	6.0 4.2 2.5 2.3			
P-39M-BE -1	7000 7400 7900 8400 9100	- 3100 3750 4600 5900	1950 2000 2100 - -	84 86 89 - -	1200 1300 1450 -	7900	25000 20000 15000 10000 5000	357 365 370 350 330	1200 1775 2400 2250 2050	313 352 357 337 320	12.8 9.5 7.1 4.9 2.5	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-39N-BE -0 TO -5 INCL. P-39Q-1BE	6800 7600 8100 8700 8800	- 2550 3050 3600 3700	1850 2050 2150 - -	83 88 91 - -	1100 1300 1400 -	7600	25000 20000 15000 10000 5000	368 375 376 357 330	1175 1825 2450 2600 2600	350 355 355 345 320	11.9 8.5 6.1 4.0 2.0	8750 8600 8050 7550 8050	NONE NONE NONE NONE	262 213 162 87 87	500 150 390 175 150	2.0 1.8 1.4 0.6 0.6	850 775 525 500 325	3.5 3.2 2.2 1.1 1.1	- - - -	- - - -	975 900 625 550 275	5.4 5.0 3.3 1.7 1.5	RANGE AND ENDURANCE OF 1st. 166 P-39N-0 ARTICLES SAME AS P-39Q-10 TO -30 LISTED BELOW.		
P-39Q-BE -5		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															NOTE: PRELIMINARY TESTS OF P-39Q-21 & -25 SHOW THAT 4 BLADED PROPELLER DOES NOT MATERIALLY EFFECT PERFORM. SEE NOTE (B) BELOW.

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

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK
MILITARY POWER AVAILABLE FOR 15 MINUTES
(A) A CHANGESETS ARE BEING MADE TO INSTALL CONVENTIONAL QUADRANT IN P-39Q-10 THRU P-39Q-30.
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) "BE"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																			
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS - CAPACITY		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 R-RECD 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		
P-40E & E-1 -CU	1	ALLISON V-1710-39 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	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 R 10000 W -	1	REAR - WING FRONT - WING FUSELAGE DROPPING - BELLY	1 x 52 1 x 35 1 x 62 1 x 52	6-.50	281 (average)	WING - FIXED	NONE	1-500 & 2-100 or 6-20. 1-325 1-250 1-100	700	SCR-283 or SCR-27LN	TECHNICAL ORDER 01-250P-1. (REV. 20 OCT. '43) * NO EXTERNAL WING BOMBS ON EARLY MODELS. * WITHOUT RAM.			
P-40F-CU -1 TO -20 INCL.	1	PACKARD V-1650-1 SINGLE STG. - 2 SPD CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1300/8 L M 1240/11500 C 1080/9500 1010/16000	S 37'4" L 33'4" H 12'4" T 8'2" W 236 SQ. FT.	B 7000 C 8500 R 10000 W -	1	REAR - WING FRONT - WING FUSELAGE DROPPING - BELLY	1 x 54 1 x 37 1 x 66 1 x 52, 75 150 or 170 327 TOT.	A S	A B O V E	WING - FIXED	A S	A B O V E	AS ABOVE	SCR-27LN or SCR-522A * SCR-535A or SCR-695	TECHNICAL ORDER 01-250C-1. (20 JUNE 1943) REVISED * P-40F-1 LENGTH SAME AS P-40E. ALL SUBSEQUENT MODELS HAVE EXTENDED FUSELAGE.			
P-40K-CU -1 TO -15 INCL.	1	ALLISON V-1710-73 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1325/8 L M 1150/11800 C 1000/11000	S AS ABOVE	B 6950 C 8400 R 10000 W -	1	AS ABOVE	AS ABOVE	A S	A B O V E	WING - FIXED	A S	A B O V E	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-250K-1. (25 MAY 1943) 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 V-1650-1 SINGLE STG. - 2 SPD CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1300/8 L M 1240/11500 C 1080/9500 1010/16000	S AS ABOVE	B 7000 C 8500 R 10000 W -	1	REAR - WING FUSELAGE DROPPING - BELLY	1 x 54 1 x 66 1 x 52, 75 150 or 170 327 TOT.	4-.50	201 (average)	WING - FIXED	A S	A B O V E	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-250L-1. (REV. 20 JUNE '43) * P-40L-1 FUEL AND ARMAMENT SAME AS P-40F SERIES.			
P-40M-CU -1 TO -10 INCL.	1	ALLISON V-1710-81 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1200/8 L M 1125/11700 C 1000/16400	S AS ABOVE	B 6950 C 8400 R 10000 W -	1	REAR - WING FRONT - WING FUSELAGE DROPPING - BELLY	1 x 54 1 x 37 1 x 66 1 x 52, 75 150 or 170 327 TOT.	6-.50	281 (average)	WING - FIXED	A S	A B O V E	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-250M-1. (REV. 25 MAY '43)			

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	TO CLEAR 50'		LANDING SPEED	GROUND-RUN		WEIGHT	STD. ALT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS	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.	RANGE	ENDUR.		RANGE	ENDUR.
P-40E & E-1 -CU	7500 8100 8400 8700 9100	- 2500 3125 3600 4300	1550 1700 1750 - -	84 87 90 - -	950 1600 1800 1950 2300	25000 20000 15000 10000 5000	- 330 362 345 335	- 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	201 119 119	425 325 300	1.7 1.2 1.2	- - -	- - -	675 525 450	3.0 2.2 2.1	- - -	- - -	850 650 575	4.5 3.3 3.1	
P-40F-CU -1 TO -20 INCL.	7500 8850 9200 9350 9550 10000	- 3700 4100 4400 4700 5000	1700 1900 2150 2550 2900 -	81 - - - -	1050 1250 1300 1350 1400 -	25000 20000 15000 10000 5000	350 364 352 340 320	1000 1100 1860 2210 2160	- 320 332 320 300	500 1000 1500 # #	18.3 11.6 7.6 4.5 2.4	10000 9350 9200 8850 9550	NONE NONE NONE NONE 700	327 232 209 157 157	- 550 475 375 325	- 2.0 1.7 1.3 1.3	- 2.3 2.0 1.8 1.8	- 800 700 600 500	3.4 3.0 2.2 2.2	- - - -	- - -	1500 1000 875 700 600	8.0 5.0 4.4 3.1 3.2		
P-40K-CU -1 TO -15 INCL.	7500 8800 9150 9300 9500 10000	- 2950 3150 3200 3350 -	1700 1950 2000 2050 2100 -	81 - - - -	1050 1300 1350 1400 -	25000 20000 15000 10000 5000	- 330 362 342 320	- 1100 1650 2000 2100	265 300 312 313 296	350 # # # #	18.5 11.2 7.5 4.9 2.4	10000 9300 9150 8800 9500	NONE NONE NONE NONE 700	327 232 209 157 157	- 500 400 350 300	- 1.9 1.6 1.2 1.2	- - - -	- 900 750 600 550	3.9 3.4 2.4 2.4	- - -	- - -	1100 1000 900 700 600	7.0 5.5 4.8 3.4 3.3		
P-40L-CU -1 TO -20 INCL.	SUBSTANTIALLY SAME AS P-40F						SUBSTANTIALLY SAME AS P-40F						10000 NONE 327 - - - - - 1500 8.0 9750 NONE 291 - - - - - 1200 6.2 9100 NONE 195 150 1.6 1.25 1.8 650 2.8 - - - 300 2.2 8600 NONE 120 275 0.9 300 1.3 125 1.6 - - - 300 2.2 9100 NONE 120 225 0.9 250 1.3 350 1.6 - - - 425 2.3										P-40L-1 ONLY SAME AS P-40F SERIES.		
P-40M-CU -1 TO -10 INCL.	7500 8400 8800 9300 10000	- 2950 3150 3200 3300	1700 1950 2000 2050 -	81 85 - -	1050 1200 1300 1350 -	25000 20000 15000 10000 5000	353 360 361 346 328	850 1500 2025 2180 2070	330 335 338 308 306	14.7 10.2 7.2 4.5 2.4	10000 9300 8800 9300	NONE NONE NONE 700	327 232 157 157	650 450 325 300	2.5 1.8 1.1 1.1	- 750 475 375	- 2.9 1.8 1.8	- 1200 900 600 475	5.6 4.2 2.5 2.3	- - -	- - -	1450 1000 700 575	6.4 5.6 3.7 3.3		

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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PAGE 29
AS OF:
DATE 26 MAY 1944

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 SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WINGAREA	B-BASIC C-COMBAT R-RECD LIM W-WAR MAX			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY US GAL.	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.		
P-40N-CU -1	ALLISON V-1710-81 SINGLE SPEED CURTISS 11'0" DIA. - 3 BL. CONST. SPD. ELECT	T 1200/8 L M 1125/17300 C 1000/16400	S 37'4" L 33'4" H 12'11" T 8'2" W 236 SQ. FT.	B 6400 C 7725 R 11000 W -	1	1	REAR - WING FRONT - WING MUSLAGE PROP. - BELLY PROP. - WING	1 x 54 1 x 68 1 x 37 1 x 70 1 x 75 1 x 75 1 x 225	4-.50	201 (average)	WING - FIXED	NONE	1-500 & 2-100 or 6-20. 1-325 1-250 1-100	500	SCR-274H or SCR-522A & SCR-695	TECHNICAL ORDER 01-250N-1 (REV. 10 OCT. 43) * PROVISIONS FOR RACKS ONLY.
P-40N-CU -5 TO -15 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	B 6700 C 8400 R 11500 W -	1	1	REAR - WING FRONT - WING MUSLAGE PROP. - BELLY PROP. - WING	1 x 54 1 x 37 1 x 70 1 x 75 1 x 225	6-.50	281 (average)	WING - FIXED	NONE	1-500 & 2-500 or 2-100 or 6-20. 1-325 1-250 1-100	150	SCR-274H or SCR-522A & SCR-695	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. ELECT	AS ABOVE	AS ABOVE	AS ABOVE	1	1	AS ABOVE	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 -30 INCORPORATE A MANIFOLD PRESS. MODIFIER.
P-40N-CU -35	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	1	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	* STARTING WITH -35 AUTOMATIC SPEED BOOST CONTROL IS BEING DISCONTINUED.
P-40N-CU -40	ALLISON V-1710-115 SINGLE SPEED CURTISS 11'0" DIA. - 3 BL. CONST. SPD. ELECT	AS ABOVE	AS ABOVE	AS ABOVE	1	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	

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 MPH	GROUND-RUN		STD. ALT.	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.		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.	RANGE	ENDUR.	RANGE	ENDUR.		RANGE	ENDUR.	
P-40N-CU -1	7000 7725 8250 8425 8850	- 2150 2950 3100 3500	1650 1750 1750 1850 -	92 96 105 -	1000 1100 1100 1150 -	7725	25000 20000 15000 10000 5000	332 346 348 331 313	1225 1850 2100 2525 2125	313 330 333 315 297	12.4 9.1 6.7 4.1 2.1	8850 8250 7725 8225	NONE NONE NONE 500	292 197 122 122	600 380 230 210	2.2 1.5 0.9 0.9	- - 290 260	1050 760 430 420	4.9 3.6 1.9 2.0	- - - -	- - - -	1250 850 520 480	7.4 3.8 2.8 2.5			
P-40N-CU -5 TO -15 INCL.	7000 8400 8900 9100 9500 11100	- 2700 3550 3800 -	1650 1850 1850 1900 -	92 100 109 -	1000 1200 1200 1250 -	8400	25000 20000 15000 10000 5000	325 340 343 325 308	900 1550 2130 2230 2120	306 325 328 310 291	13.0 8.8 6.0 4.7 2.4	11100 9500 8900 8400 8900	NONE NONE NONE NONE 500	611 331 236 161 161	1250 675 470 320 300	4.9 2.6 1.8 1.2 1.2	- - 600 400 370	2250 1250 930 600 590	10.9 6.0 4.3 2.6 2.8	- - - -	- - - -	2800 1550 1080 750	15.7 8.4 5.7 3.9	NO RANGE DATA WITH 1500 LB. BOMBS. PERFORMANCE DATA WITH EXTERNAL WING AND BELLY RACKS.		
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	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	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	

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



P-40
"WARHAWK"

MANUFACTURED BY CURTISS (Buffalo) "CU"

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PAGE 31
AS OF: 26 MAY 1944
DATE 26 MAY 1944

TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	FUEL	ARMAMENT			BOMBS-CARGO-PASSE		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-WINGAREA	B-BASIC C-COMBAT R-RECD.LIM. W-WAR MAX.	COMBAT CREW		NO.GUNS & RDS. PER GUN	LOCATION & TYPE	INTERNAL		MAX. LOAD LB.	TYPE		
									TANK TYPE OR LOCATION	NO.TANKS & CAPACITY U.S. GAL.				NO.&SIZE OR STATION
P-47C-RE -1 TO -3 P-47D RE & RA -1 TO -21 P-47G-CU -1 TO -16	SEE "A" R-2800-21, 59, -63 TURBO CURTISS 12" DIA. - 4 BL. CONST. SPD. ELECTR.	T 2000/S L M 2000/27000 W 2300/27000 C 1625/29000	S 40'9" L 36'1" H 14'2" T 15'6" W 300 SQ. FT.	B 10700 C 13500 R 15000 W -	1	MAIN - FUS. 1x205 AIM. - FUS. 1x100 DROPP. BELLY 1x 75 or or 110 or 200 EXT. - WINGS & BELLY 2x150 & 1x110 (SEE f) 750 TOT.	6) or .50 8)	267 NOR. 425 MAX.	WING - FIXED	NONE	b 1-500 or b 2-500 or b 3-500	1500	SCR-274M SCR-522A SCR-535A SCR-695	TECHNICAL ORDER 01-252C-1 (REV. 20 NOV. '43) ALL BUT EARLY P-47D'S HAVE B-7 SHACKLE FOR BELLY TANK OR BOMB; WING RACES FOR TANKS OR BOMBS. ONLY EARLY MODELS CARRY 200 GAL. DROPPABLE BELLY TANK. THE R-2800-21 ENGINE WILL HAVE WAR EMERGENCY RATING WHEN WATER INJECTION IS INSTALLED & REDESIGNATED (-65).
P-47D-RE -22	PRATT-WHITNEY R-2800-59 TURBO HAMILTON STD. 13" DIA. - 4 BL. CONST. SPD. HYDRO.	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE
P-47D-RA -23	PRATT-WHITNEY R-2800-59 TURBO CURTISS 13" DIA. - 4 BL. CONST. SPD. ELECTR.	AS ABOVE	AS ABOVE	B 10500 C 11000 R 17000 W -	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE FIRST MODEL EQUIPPED WITH BUBBLE CANOPY.
P-47D-RE -25	PRATT-WHITNEY R-2800-59 TURBO HAMILTON STD. 13" DIA. - 4 BL. CONST. SPD. HYDRO.	AS ABOVE	AS ABOVE	B 10700 C 11600 R 17500 W -	1	MAIN - FUS. 1x270 AIM. - FUS. 1x100 DROPP. BELLY 1x 75 or or 1x110. EXT. - WINGS & BELLY 2x150 & 1x110 750 TOT.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE
P-47D-RA -26	PRATT-WHITNEY R-2800-59 TURBO CURTISS 13" DIA. - 4 BL. CONST. SPD. ELECTR.	AS ABOVE	AS ABOVE	B 10600 C 11500 R 17500 W -	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE

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									
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH	GROUND-RUN		STD. ALT. FT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO PASSE 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 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	RANGE MILES	ENDUR. HOURS
		P-47C-RE -1 TO -3 P-47D RE & RA -1 TO -21 P-47G-CU -1 TO -16	11000 12500 13500 14000 15000		- 3100 3300 3400 3600	- 2800 2500 2600 -		98 100 104 106 -	1200 2000 2200 2300 -	1350 1500 1600 1700 -	30000 25000 20000 15000 10000 5000	433 421 406 390 372 353	1375 1825 2110 2400 2630 2750				120 116 100 88 80 75	364 375 365 350 335 320	800 15.0 11.0 7.2 4.3 2.2	16200 15600 14900 14300 14100 13500		NONE NONE NONE NONE NONE NONE	680 605 505 415 360 305	800 800 685 525 425 325	3.0 2.6 2.2 1.8 1.6 1.3	950 850 650 550 475 400	3.0 2.6 2.2 1.8 1.6 1.3	- - - - - -	- - - - - -	1185 1125 1035 925 835
P-47D-RE -22	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			
P-47D-RA -23	12000 13000 14000 15000 16000 17000	- 3100 3200 3300 3400 3500	- 2500 2600 2700 -	98 100 104 106 -	1200 2000 2200 2300 -	1350 1500 1600 1700 -	30000 25000 20000 15000 10000 5000	426 411 398 383 368 350	1600 2225 2525 2725 2860 2940	120 110 98 88 80 75	364 375 365 350 335 320	800 15.0 11.0 7.2 4.3 2.2	16200 16100 15100 14800 14600 14000	NONE NONE NONE NONE NONE NONE	680 605 505 415 360 305	800 800 685 525 425 325	3.0 2.6 2.2 1.8 1.6 1.3	950 850 650 550 475 400	3.0 2.6 2.2 1.8 1.6 1.3	- - - - - -	- - - - - -	1650 1450 1250 1100 950 800	8.8 7.8 5.8 5.3 4.8 4.2	AS ABOVE AS ABOVE AS ABOVE AS ABOVE AS ABOVE AS ABOVE						
P-47D-RE -25	12000 13500 14500 15500 16500 17500	- 3300 3600 3700 3800 4000	- 2500 2600 2700 -	98 100 104 106 -	1200 2000 2200 2300 -	1350 1500 1600 1700 -	30000 25000 20000 15000 10000 5000	429 419 406 392 375 357	1575 2150 2375 2475 2725 2725	120 110 98 88 80 75	364 375 365 350 335 320	800 15.0 11.0 7.2 4.3 2.2	16200 16700 15400 15100 14600	NONE NONE NONE NONE NONE	680 670 480 445 370	800 800 685 525 425 325	3.0 2.6 2.2 1.8 1.6 1.3	950 850 650 550 475 400	3.0 2.6 2.2 1.8 1.6 1.3	- - - - - -	- - - - - -	2100 1950 1800 1650 1500 1350	10.2 9.2 8.2 7.2 6.2 5.3	AS ABOVE AS ABOVE AS ABOVE AS ABOVE AS ABOVE AS ABOVE						
P-47D-RA -26	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 46 47

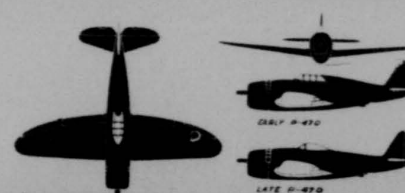
NOTES: (A) R-2800-21 (WATER INJECTION PROVISIONS; KITS AVAILABLE FOR INSTALLATION) (A) R-2800-52 (WATER INJECTION & NEW ELECTRICAL HARNESS) (A) R-2800-63 (WATER INJECTION)

USED ON: P-47C-RE (-1, -2 & -3) P-47D-RE (-1, -2, -3, -4 & -5) P-47D-RA (-6) P-47G-CU (-1, -5 & -10)

USED ON: P-47D-RE (-20, -21, -22 & -25) P-47D-RA (-20, -21, -23 & -26)

USED ON: P-47D-RE (-10, -11, -15 & -16) P-47D-RA (-11 & -15) P-47G-CU (-15 & -16)

MANUFACTURED BY REPUBLIC (Farmingdale) "RE"; (Evansville) "RA" & CURTISS (Buffalo) "CU"



P-47
THUNDERBOLT

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PAGE 32
AS OF:
DATE: 26 MAY 1944

TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		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 R-RECD 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		
P-51-NA -1 & -2	1	ALLISON V-1710-39 SINGLE SPEED CURTISS 10'9" DIA. - 3 BL. CONST. SPD. ELECTR.	T 1150/ S L M 1150/13750 C 1000/13750	S 37' 0" L 32' 3" H 12' 2" T 11' 10" W 233 sq. ft.	B 7050 C 8600 R 10500 W -	1	MAIN-R. WING 1 x 90 MAIN-L. WING 1 x 59 EXT.-L. WING 1 x 31 180 TOT.	4-.20MM	125	WING-TYPE M2	NONE	NONE	NO POBBS CARRIED	SCR-274N & SCR-535	TECHNICAL ORDER 01-6078-1. (10 JAN. 1943)	
P-51A-NA -1 TO -10 INCL.	1	ALLISON V-1710-61 SINGLE SPEED CURTISS 10'9" DIA. - 3 BL. CONST. SPD. ELECTR.	T 1200/ S L M 1125/18000 C 1000/17500	AS ABOVE	B 6850 C 8600 R 10500 W -	1	MAIN-R. WING 1 x 90 MAIN-L. WING 1 x 90 EXT.-WINGS 2 x 75 or 2 x 150 180 TOT.	2) .50	280 350	OUTBD.-WINGS INBD.-WINGS	NONE	2-500 2-325 2-250 2-100	1000	SCR-274N* SCR-535 SCR-515** SCR-522 SCR-695	TECHNICAL ORDER 01-6070-1. (25 OCT. 1943) * PROVISIONS ONLY ** SPACE PROVIDED	

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'		GROUND-RUN		WEIGHT	STD. ALT.	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.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED				RATE OF CLIMB	TIME TO CLIMB	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE		ENDUR.		
P-51-NA	7500	-	2600	88	-	1700	25000	337	800	315	300	16.0	8500	NONE	180	1135	4.1	-	-	2000	8.3	-	-	2350	11.4	PERFORMANCE SHOWN WITH WING RACES. REMOVAL OF WING RACES INCREASES HIGH SPEED APPROX. 12 MPH. & RATE OF CLIMB 50' TO 100'/MIN.
	8000	2600	2850	91	1600	1900	20000	367	1300	333	318	10.9								1250	5.3	-	-	1525	7.9	
	8500	3000	3100	94	1900	2100	15000	387	1600	352	308	7.6								750	2.8	-	-	1000	4.8	
	8600	3200	3250	-	2100	2250	10000	379	2000	352	308	5.0								725	2.8	-	-	950	4.7	
	9000	3100	-	-	2200	-	5000	357	2000	352	308	2.5								710	2.8	-	-	910	4.6	
P-51A-NA -1 TO -10 INCL.	8000	-	2150	100	-	1550	25000	375	1100	360	300	12.7	10600	NONE	180	1135	4.1	-	-	2000	8.3	-	-	2350	11.4	PERFORMANCE SHOWN WITH WING RACES. REMOVAL OF WING RACES INCREASES HIGH SPEED APPROX. 12 MPH. & RATE OF CLIMB 50' TO 100'/MIN.
	8600	2050	2750	103	1400	1850	20000	390	1650	375	300	9.1	9600	NONE	330	725	2.7	-	-	1250	5.3	-	-	1525	7.9	
	9100	2250	3000	106	1600	2100	15000	380	2300	365	300	6.6	8600	NONE	180	425	1.4	-	-	750	2.8	-	-	1000	4.8	
	9600	2500	3250	-	1800	2350	10000	360	2300	346	300	4.4	9100	500	180	415	1.4	-	-	725	2.8	-	-	950	4.7	
	10300	2900	-	-	2100	-	5000	340	2300	325	300	2.2	9600	1000	180	410	1.4	-	-	710	2.8	-	-	910	4.6	

NOTES:

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



P-51
"MUSTANG"

MANUFACTURED BY NORTH AMERICAN (Inglewood) "NA"

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PAGE 33
AS OF:
DATE 26 MAY 1944

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 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 R-RECD.LIM. W-WAR MAX.			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY US GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY			MAX. LOAD LB.
P-51B-NA -1A-5 P-51C-NT -1	PACKARD V-1650-3 2 SPEED-2 STAGE HAMILTON STD. 11'2" DIA. - 4 BL. CONST. SPD. HYDRO.	T 1100/8 L M 1150/19000 C 1120/20500 940/31000	S 37' 0" L 32' 3" H 13' 8" T 11' 10" W 233 sq. ft.	B 7300 C 9000 R 11000 W -	1	1	MAIN-R. WING MAIN-L. WING DROG.-WINGS SEE (r)	1 x 92 1 x 92 2 x 75 or 2 x 50 149 TOT.	2) 2) 2) 2)	.50 .50 .50 .50	280 350	OUTD.-WINGS INRD.-WINGS	NONE	2-500 2-325 2-250 2-100	1000	SCR-27LN SCR-522 or SCR-535A or SCR-695 TECHNICAL ORDER 01-60JD-1. (20 DEC. 1943) KIT AVAILABLE FOR 1205 GAL. FUELAGE TANK; WHEN INSTALLED THESE MODELS WILL BE SAME AS ONES LISTED BELOW. WAR EMERGENCY RATINGS: 1595/17000' & 1205/22500' (RESTRICTED TO MODELS EQUIPPED WITH KLG-RC5/3 or LODGE RS5/5 SPARK PLUGS.)
P-51B-NA -7A10 P-51C-NT -3	AS ABOVE	AS ABOVE	AS ABOVE	B 7390 C 9800 R 11800 W -	1	1	MAIN-R. WING MAIN-L. WING FUELAGE DROG.-WINGS SEE (r)	1 x 92 1 x 92 1 x 85 2 x 75 or 2 x 50 569 TOT.	2) 2) 2) 2)	.50 .50 .50 .50	270 270 380	OUTD.-WINGS CENTER-WINGS INRD.-WINGS	AS ABOVE	AS ABOVE	SCR-522 or SCR-27LN or SCR-27LN & MN-26C COMBINATION REFERENCE AS ABOVE NOTE: LAST 550 P-51B-5 MODELS BECOME B-7 UPON ADDITION OF 1205 GAL. FUELAGE TANK. P-51C-3 ARE MODIFIED P-51C-1's.	
P-51B-NA -15 P-51C-NT -5A-10	PACKARD V-1650-7 2 SPEED-2 STAGE HAMILTON STD. 11'2" DIA. - 4 BL. CONST. SPD. HYDRO.	T 1100/8 L M 1230/13600 C 1230/17000 1100/23000	AS ABOVE	AS ABOVE	1	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE WAR EMERGENCY RATINGS: 1200/11500' & 1530/24000' (RESTRICTED TO MODELS EQUIPPED WITH KLG-RC5/3 or LODGE RS5/5 SPARK PLUGS.) SOME P-51C-5-NT MODELS FOR RECONNAISSANCE WILL NOT CARRY 1205 GAL. FUELAGE TANK.	
P-51D-NA -5 P-51D-NT -5	AS ABOVE	AS ABOVE	AS ABOVE	B 7635 C 10100 R 11800 W -	1	1	MAIN-R. WING MAIN-L. WING FUELAGE DROG.-WINGS SEE (r)	1 x 92 1 x 92 1 x 85 2 x 75 149 TOT.	2) 2) 2) 2)	.50 .50 .50 .50	270 270 380 190 190	OUTD.-WINGS CENTER-WINGS INRD.-WINGS ALTERNATE INSTALLATION OUTD.-WINGS INRD.-WINGS	AS ABOVE	AS ABOVE	SCR-522 or PARTIAL SCR-27LN INSTALL. TECHNICAL ORDER 01-60JE-1.	

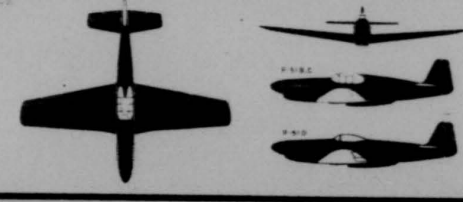
COLUMN — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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			
	TO CLEAR 50'		GROUND-RUN		WEIGHT	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				TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	ENDUR.		ENDUR.	ENDUR.	ENDUR.
P-51B & C (V-1650-3)	8000	-	2150	100	1150	30000	445	1760	130	1700	120	11.2	11000	NONE	494	1300	4.4	1775	5.6	1800	7.0	-	-	2250	11.1	NOTE: HIGH SPEED AND CLIMB SHOWN WITHOUT RACES DECREASE HIGH SPEED MPH. AND RATE OF CLIMB LESS THAN 1000'/MIN.
P-51B & C (V-1650-7)	8000	-	2150	100	1150	30000	445	1760	130	1700	120	11.2	11000	NONE	494	1300	4.3	1350	4.1	2000	8.0	-	-	2290	10.4	AS ABOVE
P-51B & C (V-1650-3)	8000	-	2150	100	1150	30000	445	1760	130	1700	120	11.5	11800	NONE	569	1275	5.1	1875	5.6	2200	8.7	-	-	2600	11.2	AS ABOVE
P-51B & C (V-1650-7)	8000	-	2150	100	1150	30000	445	1760	130	1700	120	11.5	11800	NONE	569	1275	5.1	1875	5.6	2200	8.7	-	-	2600	11.2	AS ABOVE
P-51D (V-1650-3)	8000	-	2150	100	1150	30000	445	1760	130	1700	120	13.1	11100	NONE	419	1050	3.7	1185	3.5	1675	6.8	-	-	1850	8.0	HIGH SPEED AND CLIMB SHOWN WITHOUT RACES. NEW TYPE BOMB RACES DECREASE HIGH SPEED MPH.
P-51D (V-1650-7)	8000	-	2150	100	1150	30000	445	1760	130	1700	120	13.1	11100	NONE	419	1050	3.7	1185	3.5	1675	6.8	-	-	1850	8.0	AS ABOVE

NOTES:

SEE V-WINGS AND FUEL TANKS; SUBJECT TO REVISION AFTER FLIGHT CHECKS
MILITARY POWER AVAILABLE FOR 15 MINUTES.

* FOR COMPARATIVE PURPOSES ONLY.



P-51
"MUSTANG"

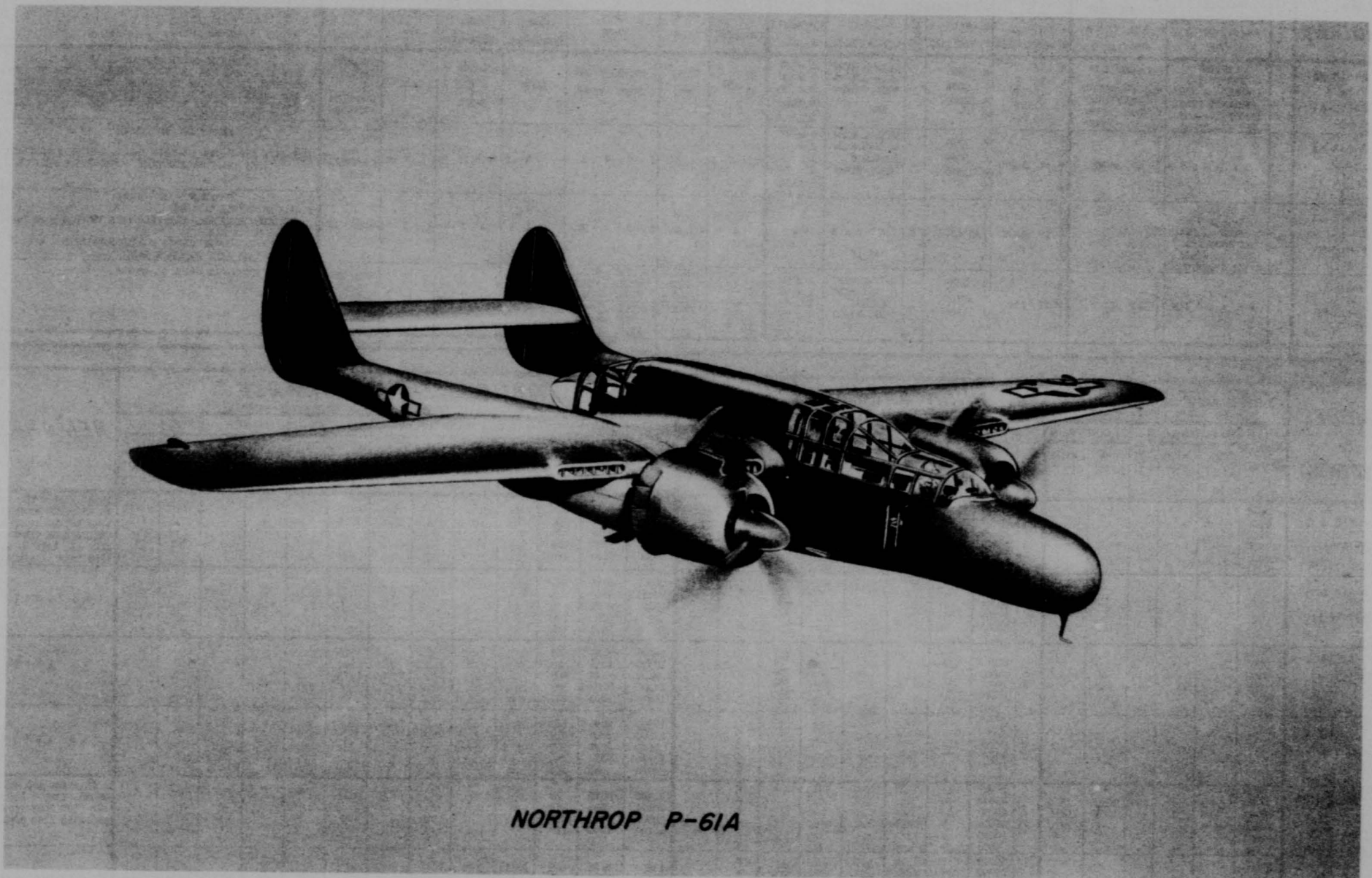
MANUFACTURED BY NORTH AMERICAN (Inglewood) "NA" & NORTH AMERICAN (Dallas) "NT"

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WITH REFERENCE TO THE INFORMATION

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NORTHROP P-61A

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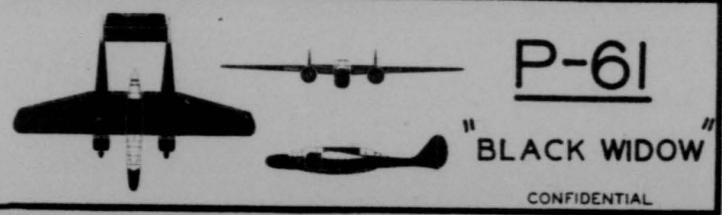
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AS OF:
DATE 28 MAY 1944

TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
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 R-RECD 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		
P-61A-NO -1&-5	PRATT-WHITNEY R-2800-10 2 SPD. - 2 STG. CURTISS 12'2" DIA. - 4 BL. F.F., ELECTRIC	T 2000/2000 (2000/14000) M 1800/15600 C 1650/20900 (1650/21700) 1950/22700	S 66' L 48'11" H 11' 2" T 17' 2" W 664 SQ. FT.	B 22500 C 28000	2 2 3 0	INBD.-WING OUTBD.-WING	2 x 115 2 x 200 630 Tot.	4-20mm 4-.50 a	200 560	FORE- FUSELAGE UPPER TURRET	N O N	E	SCR-582 SCR-595 SCR-720 SCR-722 INTR.#138 APW - 1 50 - 36	a - ON 1st 37 P-61A-1's ONLY. b - CREW OF 3 FOR MODELS WITH TOP TURRET. c - WATER INJECTION AND WAR EMERGENCY ON P-61A-5 AND SUBSEQUENT. EXACT RATINGS UNDETERMINED.		
P-61A-NO -10 & -15	PRATT-WHITNEY R-2800-65 2 SPD. - 2 STG. CURTISS 12'2" DIA. - 4 BL. F.F., ELECTRIC	T AS ABOVE M AS ABOVE C	S L H T W AS ABOVE	B C R W AS ABOVE	2	INBD.-WING OUTBD.-WING EXT.-WING (r)	2 x 115 2 x 200 2 x 165 960 Tot.	4-20mm	200	FORE-FUSELAGE	N O N	E	AS ABOVE	(f) EXTERNAL FUEL TANKS ON P-61A-15 ONLY.		
		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												

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

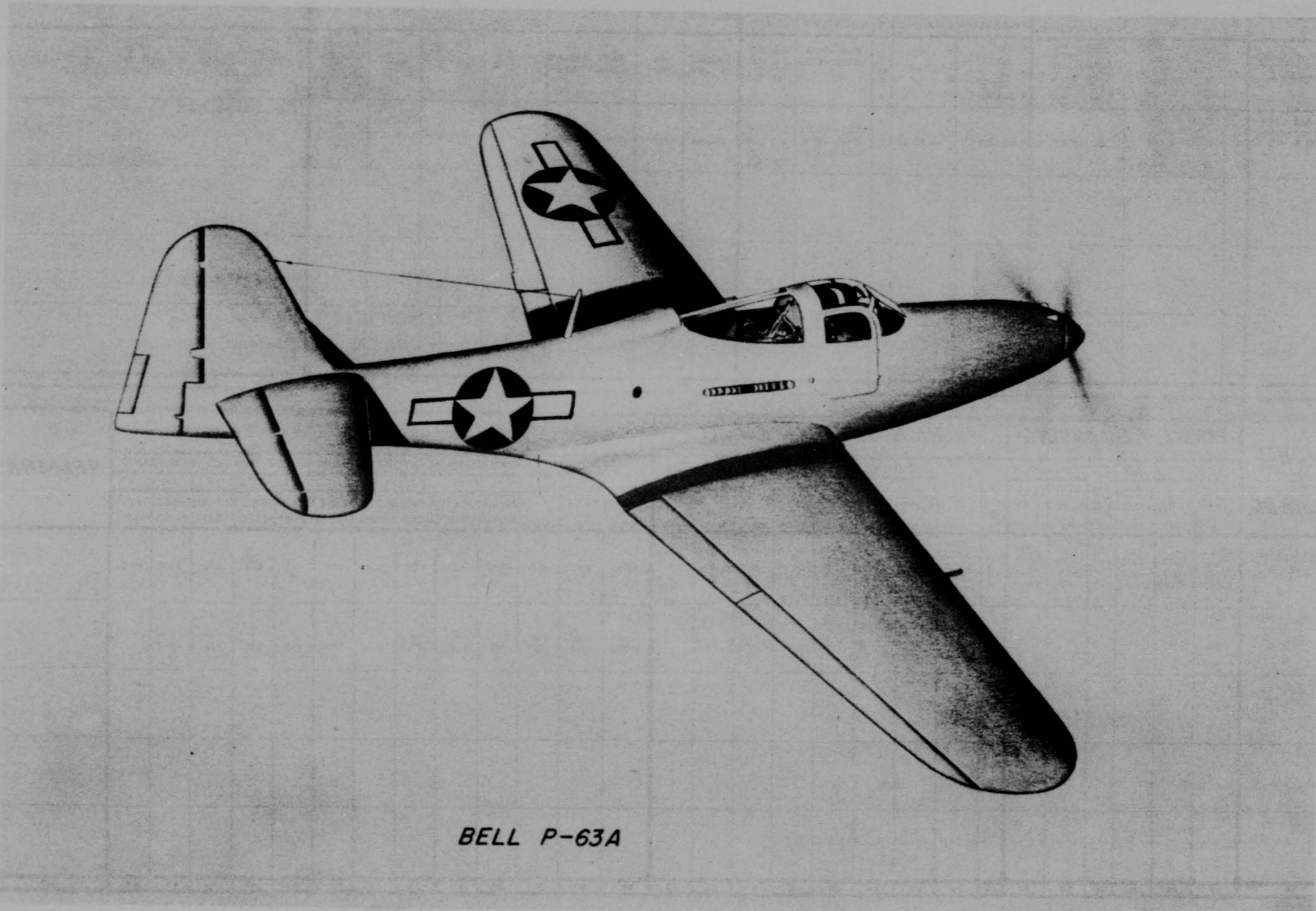
MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT										RANGE & ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS	
	GROSS WEIGHT LB.	TO CLEAR 50 FT.		LANDING SPEED M.P.H.	GROUND-RUN		STD. ALT. FT.	WAR EMERG.		MIL. 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.		WEIGHT LB.	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.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES		ENDUR. HOURS
P-61A-NO -1&-5	25000 27000 28000 29000	2250 2100 2150 2700	1950 2100 2150 -	- - - -	1350 1500 1600 1750	1350 1450 1500 -	25000 20000 15000 10000 5000 8.1	353 364 363 354 340 310	NO DATA	253 377 354 352 329	1700 1700 1900 2150 2250 2650	340 347 333 320 309 305	13.0 9.5 6.7 4.5 2.0 0.0	28000	NONE	630	330	1.2	385	1.4	600	2.5	520	2.4	1000	4.5
P-61A-NO -10 & -15		A S	A B O V E		A S	A B O V E	A S	A B O V E	A S	A B O V E			32500 28000	NONE NONE	960 630	- 330	- 1.2	- 385	- 1.4	- 600	- 2.5	- 520	- 2.4	2000 1000	9.2 4.5	

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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	
	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 R-RECD 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		
P-63A-BE -1 TO -7 INCL.	1	ALLISON V-1710-93 2 STAGE AERO PRODUCTS 11'7" DIA. - 4 BL. CONST. SPD., HYDRO.	T 1325 / S L M 1150 / 21200 W 1500 / S L C 1000 / 20000	S 38'4" L 32'8" H 12'3" T 14'7" W 218 SQ. FT	B 6925 C 8350 R 8900	1	MAIN - WINGS DROP. - BELLY OR DROP. - WINGS (SEE F)	2 x 68 1 x 64 (S.S.) 1 x 75 1 x 175 2 x 75 161 TOT	1-37mm 2-.50 2-.50	30 250 200	PROF. - TYPE M1 WING - FIXED NOSE - FIXED	NONE	1-500 1-325 1-250 1-100	500	SCR-27LR & EC-198 or SCR-522 & DETROLA # 136 & SCR-695	TECHNICAL ORDER 01-110FF-1. (20 JULY 1943) 1 x 64 GAL. SELF SEALING DROPPABLE BELLY TANK AND 2 x 75 GAL. DROPPABLE WING TANKS ADDED TO P-63A-6. WAR EMERGENCY RATING.	
P-63A-BE -8-9	1	ALLISON V-1710-93 2 STAGE AERO PRODUCTS 11'0" DIA. - 4 BL. CONST. SPD., HYDRO.	T M AS ABOVE C	S L H T W AS ABOVE	B C R W AS ABOVE	1	A S A B O V E		1-37mm 2-.50 2-.50	58* 30 250 200	PROF. - TYPE M1 PROF. - TYPE M1 WING - FIXED NOSE - FIXED	NONE	AS ABOVE	AS ABOVE	AS ABOVE	* TYPE M133 GUN ON -9.	
			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												
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'		LANDING SPEED	GROUND-RUN		WEIGHT	STD. ALT.	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.		T.O. DIST.	LAND. DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				TIME TO CLIMB	RANGE AT 10000 FT.	ENDUR. RANGE	RANGE AT 25000 FT.	ENDUR. RANGE	RANGE AT 10000 FT.	ENDUR. RANGE		RANGE AT 25000 FT.	ENDUR. RANGE	RANGE AT 10000 FT.	ENDUR. RANGE	
P-63A-BE -1 TO -7 INCL. [MILITARY POW.]	7700 8300 8700 9500 10500	1700 2110 2520 2900 3500	1800 - - - -	1070 1320 1520 2000 3100	1110 - - - -	8350	30000 25000 20000 15000 10000 5000	392 401 398 387 373 362	1680 2580 3030 3540 3690 3775	350 365 370 385 395 400	10.1 7.5 9.7 14.2 2.8 2.4	10550 9500 8850 8350 8850	NONE NONE NONE NONE 500	461 311 211 136 136	- 725 500 400 350	- 3.2 2.1 1.3 1.3	- 950 600 425 350	- 3.1 2.1 1.5 1.5	- 1100 700 570 450	- 4.9 3.2 2.1 2.0	- - - - -	2250 1100 950 700 600	15.3 7.5 4.6 3.2 3.0	PERFORMANCE VALUES WITHOUT EXTERNAL TANKS.				
P-63A-BE -1 TO -7 INCL. [WAR EMERG.]		A S	A B O V E			8350	30000 25000 20000 15000 10000 5000	392 401 398 387 373 362	1680 2580 3030 3540 3690 3775	350 365 370 385 395 400	AS ABOVE			A S		A B O V E										A S A B O V E		
P-63A-BE -8-9 [MILITARY POW.]		A S	A B O V E			8350	30000 25000 20000 15000 10000 5000	392 401 398 387 373 362	1680 2580 3030 3540 3690 3775	350 365 370 385 395 400	AS ABOVE			A S		A B O V E										A S A B O V E		
P-63A-BE -8-9 [WAR EMERG.]		A S	A B O V E			8350	30000 25000 20000 15000 10000 5000	392 401 398 387 373 362	1680 2580 3030 3540 3690 3775	350 365 370 385 395 400	AS ABOVE			A S		A B O V E										A S A B O V E		
NOTES:	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.

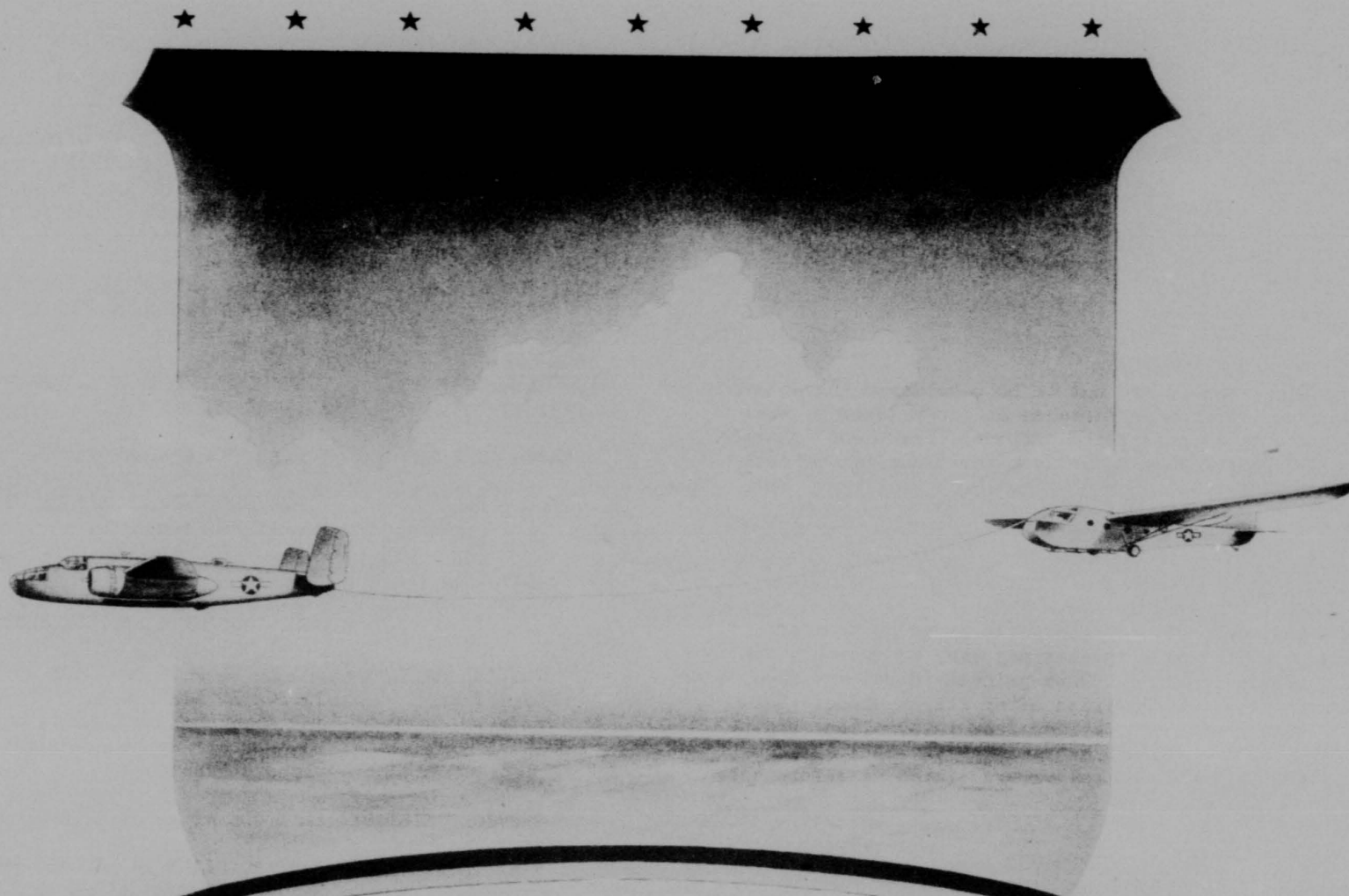


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**GLIDER AND
TOWPLANE SECTION**

1-JUNE-1944

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FOREWORDWARNING

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 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.

DEFINITIONSLOADING:

TYPICAL LOADINGS OF GLIDER AND TOWPLANE FOR TACTICAL MISSIONS.

Note:

Weight and fuel quantities shown apply to all performance values to the right on the same line.

MAX. TOW SPEED:

MAX. 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.

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 engines.

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.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

AS OF: 26 MAY 1944

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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 (AT CRUISING POWER) STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS
	GLIDERS		TOWPLANE				TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED (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.)	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
B-17F & (1) CG-4A	7500	3800	59100	NONE	2780	150	6150	110	4150	135	300	12000*	37	(990)	7.2	6.8	5000	1380	10.3	* LIMITED- NO OXYGEN IN GLIDER
														(980)	6.8	6.3	10000	1370	9.6	
B-17F & (2) CG-4A	7500	3800	52500	NONE	1700	150	6000	110	4100	135	300	11000	57	510	3.8	3.5	5000	720	5.5	
	7500	3800	59100	NONE	2780	150	6950	110	4700	135	240	8000	44	860	6.6	6.2	5000	1140	8.8	
B-24D & (1) CG-4A	7500	3800	52500	NONE	2344	150	4265	115	3475	140	530	12000*	24	(870)	6.3	5.3	5000	1360	9.7	* LIMITED- NO OXYGEN IN GLIDER
	7500	3800	53000	6000	2344	150	5075	115	4125	140	325	12000*	41	(830)	5.6	4.4	10000	1280	8.6	
B-25C & (1) CG-4A	7500	3800	30000	2000	972	150	5075	120	4175	140	390	12000*	38	540	3.8	3.4	5000	700	4.9	* LIMITED- NO OXYGEN IN GLIDER

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-143 dated 1 DEC. 1943.
- (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-4D TO BE SAME AS WITH CG-4A.

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B-BASIC C-COMBAT W-WAR MAX.		S- SPAN L- LENGTH H- HEIGHT T- TREAD W- WING AREA
B- (3700) (4500)	TYPICAL GLIDER CAPACITIES	
C- 7500	(a) TROOP CARRIER: CREW(2) & TROOPS(13).	
W- 9000	(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).	
	(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(18 RDS.)	
	S- 83'8"	
	L- 128'4"	
	H- 12'7"	
	T- 9'4"	
	W- 852 Sq. Ft.	

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

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AS OF:
26 MAY 1944

CARGO TOWPLANE AND CG-4A GLIDER

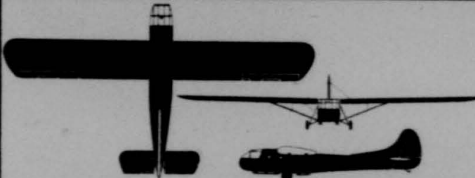
TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) SL-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE (AT CRUISING POWER) STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS
	GLIDERS		TOWPLANE				TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED (M.P.H.)	GROUND 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.)	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.)	
C-46A & (1)CG-4A	7500	3800	45000	3000	1400	150	5150	95	3500	125	275	10000	4.7	650	5.3	3.8	5000	950	7.8	BETTER PERFORMANCE EXPECTED UPON FURTHER FLIGHT TESTING.
C-46A & (2)CG-4A	7500	3800	45000	3000	1400	150	8300	95	5650	120	100	3000	3.0	410	3.6	2.7	1000	530	4.7	AS ABOVE
C-47, 47A & 53 (STD. BLADE PROPS.) & (1)CG-4A	7500	3800	26000	3000	804	150	4425	90	3000	120	275	11350	4.4	560	4.6	4.4	5000	830	6.8	
C-47, 47A & 53 (PADDLE BLADE PROPS.) & (1)CG-4A	7500	3800	26000	3000	804	150	4075	85	2825	105	425	12000*	3.0	610	5.7	4.7	5000	950	9.1	*LIMITED- NO OXYGEN IN GLIDER
	7500	3800	29000	6000	804	150	5625	85	3800	105	350	11800	4.2	570	5.0	4.4	5000	875	7.6	
	7500	3800	31000	8000	804	150	6175	90	4175	105	300	11300	5.3	510	4.1	3.8	5000	740	6.4	
C-47, 47A & 53 (PADDLE BLADE PROPS.) & (2)CG-4A	7500	3800	29000	6000	804	150	7250	85	4450	105	125	8000	5.7	395	3.7	3.3	2000	518	4.5	* TO 3000 FT. ALTITUDE
	7500	3800	31000	8000	804	150	8850	90	5550	105	80	-	3.8*	370	3.4	3.1	1000	470	4.4	
C-60A & (1)CG-4A	7500	3800	18500	NONE	644	150	4000	85	2750	120	550	12000*	3.7	580	4.7	4.0	5000	940	7.9	* LIMITED- NO OXYGEN IN GLIDER
	7500	3800	21500	3000	644	150	5425	85	3675	120	320	11500	4.8	410	3.4	2.8	5000	560	4.7	
C-60A & (2)CG-4A	4700	1000	18500	NONE	644	150	6000	85	4100	120	250	8000	4.0	360	2.8	2.5	5000	510	4.6	
	7500	3800	18500	NONE	644	150	7000	85	4500	120	200	7300	4.1	330	2.9	2.4	5000	475	4.0	

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-143 dated 1 DEC. 1943. RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.
 (2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

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

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- (3700 to 4500)	(a) TROOP CARRIER: CREW(2) & TROOPS(13).	S- 33'8"
C- 7500	(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).	L- 48'4"
W- 9000	(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(15 RES.)	H- 12'7"
		T- 9'4"
		W (Tact. gear) 852 SQ. FT.

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