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TACTICAL PLANNING

Characteristics & Performance Chart

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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

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20 SEPTEMBER 1943 WP-10-5-43-600

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Characteristics & Performance Chart

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17570
X-35533
17585
BOMBERS

CARGO

FIGHTERS

SEPTEMBER 1943 WP-10-5-43-600

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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 balance 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, ENGINEERING DIVISION

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DEFINITIONSCHARACTERISTICS

SUPERCHARGER: "TURBO" INDICATES EXHAUST DRIVEN TURBINE WITH SINGLE SPEED INTEGRAL DIFFUSER.

BHP/ALT.: BRAKE HORSEPOWER PER ENGINE AND CRITICAL ALTITUDE WITH RAM.

T: MAXIMUM POWER FOR TAKE-OFF

M: MAXIMUM POWER FOR COMBAT AT ALTITUDE SHOWN (usually limited to 15 min. duration)

C: MAXIMUM POWER FOR UNLIMITED 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.

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 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: 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 (Performance with War Emergency ratings are not shown in this issue)

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 UNLIMITED OPERATION WITH LEAN MIXTURE SETTING.

LONG RANGE: PRACTICAL MAXIMUM RANGE FOR PLANNING PURPOSES UNDER ALL CONDITIONS SET FORTH.

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MODEL & BLOCK-NO.	ARMAMENT			BOMBS		MAX. LOAD LB.	FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE		
B-17P-80 -1 to -27 incl.	1-.30 2-.50 2-.50 2-.50 2-.50	500 300 400 575 500	a NOSE - FLEX. SIDE WAIST-PL. UPPER TURRET LOWER TURRET TAIL TURRET	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	12600 9600	2550
B-17P-80 -30 to -50 incl.	NONE 1 2 2 2 2	NONE 275 300 400 575 500	NOSE - FLEX. b RADIO COMPART. SIDE WAIST-PL. UPPER TURRET LOWER TURRET TAIL TURRET	AS ABOVE	2-1000 2-2000 2-1600 2-1000	12600 17600	AS ABOVE
B-17P-80 -55 to -60 incl. & 1st.30 (-85)	2 2 1 2 2	300 300 275 400 575 500	NOSE - FLEX. SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL TURRET	A S A B O V E			Wing tip fuel tanks on (-80) & subseqt.
B-17P-80 Last 70 (-85) to -150 incl.	3 2 1 2 2	.50 AS ABOVE	AS ABOVE	A S A B O V E	AS ABOVE EXCEPT THAT EXTERNAL BOMB RACKS DELETED AFTER 15th. (-95)		3630
B-17G-80 Block numbers not assigned at this time	2 2 1 2 2	400 300 275 400 575 500	CHIN TURRET SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL TURRET	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	12600 9600	AS ABOVE

NOTES: a NOSE GUN DELETED AFTER 1st. (-20)
b RADIO COMPARTMENT GUN ADDED AFTER 16th. (-30) * SEE PAGE OPPOSITE

MODEL & BLOCK-NO.	ARMAMENT			BOMBS		MAX. LOAD LB.	FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE		
B-17P-8L -1 to 1st.13 (-10) incl.	1-.30 2-.50 2-.50 2-.50 2-.50	500 300 400 575 500	a NOSE - FLEX. SIDE WAIST-PL. UPPER TURRET LOWER TURRET TAIL TURRET	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	12600 9600	2550
B-17P-8L Last 12 (-10) to (-20) incl.	2 2 1 2 2	300 300 275 400 575 500	NOSE - FLEX. SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL TURRET	AS ABOVE EXCEPT PROVISIONS (only) FOR EXTERNAL BOMB RACKS ON (-20) & SUBSEQUENT			AS ABOVE
B-17P-8L -25 to 1st.21 (-35) incl.		A S A B O V E	A S A B O V E	A S A B O V E			3630
B-17P-8L Last 19 (-35) to (-65) incl.	3 2 1 2 2	.50 AS ABOVE	AS ABOVE	A S A B O V E			AS ABOVE
B-17G-8L -1 to -15 incl.	2 2 2 2 2	400 300 275 400 575 500	CHIN TURRET SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL TURRET	A S A B O V E			AS ABOVE

NOTES: a NO NOSE GUN ON 1st.13 (-10).
b 8-1600 LB. BOMBS ADDED TO (-10) ONLY. * SEE PAGE OPPOSITE

MODEL & BLOCK-NO.	ARMAMENT			BOMBS		MAX. LOAD LB.	FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE		
B-17P-8E -1 to -10 incl.	1-.30 2-.50 2-.50 2-.50 2-.50	(300 rds.) 300 400 575 500	NOSE GUN IN 1st.7 AIRPLANES. NO NOSE GUN IN NEXT 33 (thru -10). NO RADIO COMP. GUN UNTIL (-15). OTHER ARMAMENT AS BELOW.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	12600 9600	2550
B-17P-8E -15 & -20	2 2 1 2 2	300 300 275 400 575 500	NOSE - FLEX. SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL TURRET	AS ABOVE EXCEPT THAT LAST 31 (-20) HAVE EXTERNAL BOMB RACKS			AS ABOVE
B-17P-8E -25 & -30		A S A B O V E	A S A B O V E	A S A B O V E	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	2-1000 2-2000 2-1600 2-1000	12600 17600 Wing tip fuel tanks on (-30) & subseqt.
B-17P-8E -35 to -50 incl.	3 2 1 2 2	.50 AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	NONE	12600 9600 3630
B-17P-8E -1 to -10 & sub.	2 2 2 2 2	400 300 275 400 575 500	CHIN TURRET SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL TURRET	A S A B O V E			AS ABOVE

NOTES: a 8-1600 LB. BOMBS ADDED TO (-10) ONLY.
b EXTERNAL BOMB RACKS DELETED ON LAST 4 (-30). * SEE PAGE OPPOSITE

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 1
DATE 20 SEPT 1943

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY			MAX. LOAD LB.
B-17 E	WEIGHT B-1820-65 TURBO HAMILTON STD. 11'6" H.A. - 3 H.P. HYDROMATIC	T 1200/S L M 1200/25000 C 1000/25000	S 103'10" L 73'10" H 19'3" T 21'2" W 1120 SQ. FT.	B 35000 C 52000 R 55000 W 64000 ^a	9	MAIN - WINGS BOMB BAY	6-1730 2x 395 2520 TOT.	1-30 2-50 2-50 2-50	500 200 400 500 500	NOSE - FLEX. SIDE WAIST-PL. UPPER TURRET LOWER TURRET TAIL - FLEX.	2-2000 1-1000 8- 500 11- 250 20- 100	NONE	4000	STD. 24V AN/ARR-1 RC - 103	TECHNICAL ORDER 01-208P-1.	
B-17 F	WEIGHT B-1820-97 TURBO HAMILTON STD. 11'6" H.A. - 3 H.P. HYDROMATIC	T AS ABOVE M AS ABOVE C AS ABOVE	S 103'10" L 74'9" H 19'1" T 21'2" W 1120 SQ. FT.	B 36000 C 55000 R 56000 W 64000 ^a	9	MAIN - WINGS BOMB BAY	6-1730 2x 410 2550 TOT.	3-30 2-50 2-50	300 300 275 400 575 500	NOSE - FLEX. SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL	2-2000 6-1600 6-1000 12- 500 16- 250 21- 100	2-4000 2-2000 2-1600 2-1000	6-1600 2-4000 17600	STD. 24V	* EARLY MODELS HAD SAME ARMAMENT AS B-17E AND NO EXTERNAL BOMB RACKS; THESE PROGRESSIVE CHANGES WERE MADE. CURRENT PRODUCTION ARTICLES ARE SHOWN. CERTAIN BLOCK NUMBERS ONLY HAVE INSTALLATIONS FOR EXTERNAL BOMBS.	
B-17 F & G (WITH WING TIP TANKS)	AS ABOVE	AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B (38000) ^a C 55000 R 56000 W 64000 ^a	9	MAIN - WINGS WING TIPS BOMB BAY	6-1730 2x 540 2x 410 3630 TOT.	2-30 1-50 2-50	400 300 275 400 575 500	CHIN TURRET SIDE WAIST-PL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL	AS ABOVE	NONE	19600 9600	AS ABOVE	* CHIN TURRET INSTALLED ON B-17G SERIES ONLY. ** A FEW B-17F'S WITH WING TIP TANKS HAD PROVISIONS FOR EXTERNAL BOMBS.	
			S L H T W	B C R W												^a LIMITED TO 64,000 LB. BY FLYING CHARACTERISTICS.

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 LB.	TO CLEAR 50 FT. DIST. FT.	LAND. DIST. FT.	LANDING SPEED MPH	T.O. DIST. FT.	LAND. DIST. FT.	STD. ALT. FT.	MIL. POWER HIGH SPEED MPH	RATE OF CLIMB FT./MIN.	MAX. CONTIN. POWER HIGH SPEED MPH	RATE OF CLIMB FT./MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT. RANGE MILES		MAX. CRUISE POWER AT 25000 FT. RANGE MILES	LONG RANGE AT 10000 FT. RANGE MILES					
B-17 E	SUBSTANTIALLY SAME AS B-17 F				30000	297	500	285	150	61.0	55500	NONE	2520	1250	5.5	1350	5.6	1850	9.0	1900	8.7	2750	18.0	
B-17 F	40000	-	3900	90	2000	30000	298	500	285	350	12.0	56900	NONE	2550	1250	5.5	1100	5.6	1850	9.1	1950	8.9	2600	17.2
B-17 F & G (WITH WING TIP TANKS)	50000	4750	5200	100	2700	50000	299	500	280	550	31.0	50900	NONE	1730	900	3.9	950	4.0	1300	6.6	1350	6.3	1800	11.1
	55000	3950	5200	100	3050	50000	288	950	272	650	22.5	56900	6000	1730	850	3.7	900	3.8	1200	6.1	1250	5.9	1700	10.5
	56000	4100	5200	105	3150	50000	288	950	272	650	22.5	56900	6000	1730	850	3.7	900	3.8	1200	6.1	1250	5.9	1700	10.5
	57000	4300	5200	105	3150	50000	288	950	272	650	22.5	56900	6000	1730	850	3.7	900	3.8	1200	6.1	1250	5.9	1700	10.5
	64000	6100	5200	105	3150	50000	288	950	272	650	22.5	56900	6000	1730	850	3.7	900	3.8	1200	6.1	1250	5.9	1700	10.5

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

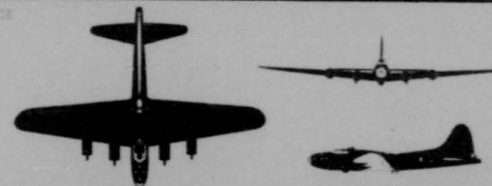
SCR-211 FREQUENCY METER
SCR-2590 RADIO COMPASS
SCR-2748 COMMAND SET (or SCR-522)
SCR-287A LIAISON SET
SCR-535 RECEIVER (or SCR-595 or SCR-695)
SCR-578 EMERGENCY TRANSMITTER
RC - 103 BLIND LANDING (Provisions only)
RC - 32 FILTER EQUIPMENT (or RC-196)
RC - 36 INTERPHONE AMPLIFIER
RC - 43B MARKER BEACON

(B) FUELERS ARE VOLUNTARILY SUBJECT TO RESERVE AFTER FLIGHT CHECK

(B) MAXIMUM FERRY RANGE (3900 MI.) MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION 3 QT. TO 3 GAL./ HOUR DEPENDING ON TIME SINCE OVERHAUL.

(C) MAXIMUM INTERNAL CAPACITY SEEN IN BOMB BAY (12500 TOT.) TO 6-15000 LB. BOMBS (3600 TOT.) OR IN INTERCHANGIBLE BOMB BAY (12500 TOT.) WITH 2-4000 LB. EXTERNAL BOMBS (8000 TOT.) BOMB TOTAL IS REDUCED FROM 20000 LB. TO 17600 LB.

MANUFACTURED BY BOEING - DOUGLAS - VEGA



B-17
"FLYING
FORTRESS"

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MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX LOAD LB	
B-24-D-20 8 to lat. 34 (-15) incl.	1 2 2	200 .50 400	NOSE - FLEX. UPPER TURRET TAIL TURRET	4-2000 5-1000 12- 500 12- 250 20- 100		NONE 6000	2544
B-24-D-20 Last 36 (-15) & -20	1 2 2	200 .50 400	NOSE - FLEX. UPPER TURRET TAIL TURRET		A S	A B O V E	3614
B-24-D-20 -25 to lat. 36 (-14) incl.	3 2 2 1	100 250 .50 400	NOSE - FLEX. SIDE WAIST-M. UPPER TURRET TURREL - FLEX. TAIL TURRET	4-2000 5-1600 5-1000 12- 500 12- 250 20- 100		NONE 12800	AS ABOVE
B-24-D-20 Last 9 (-14) to -170 incl.	3 2 2 2	100 250 .50 400	NOSE - FLEX. SIDE WAIST-M. UPPER TURRET UPPER TURRET TAIL TURRET		A S	A B O V E	AS ABOVE
B-24-D-20 -1 to -55 incl. & subsequent.	2 2 2 2	400 250 .50 400	NOSE TURRET SIDE WAIST-M. UPPER TURRET LOWER TURRET TAIL TURRET			AS ABOVE EXCEPT THAT EXTERNAL BOMB CAPS TO BE TAKEN ON LATER WORKS	AS ABOVE

NOTES: * 5-1600 LB. BOMBS NOT IN (-25) ONLY.

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX LOAD LB	
B-24-D-CP -1 to -20 incl.	3 2 2 1	100 250 .50 400	NOSE - FLEX. SIDE WAIST-M. UPPER TURRET TURREL - FLEX. TAIL TURRET	4-2000 5-1000 12- 500 12- 250 20- 100		NONE 8000	3614
B-24-D-CP -1 to -15 & SUB.	2 2 2 2	400 250 .50 400	NOSE TURRET SIDE WAIST-M. UPPER TURRET LOWER TURRET TAIL TURRET		A S	A B O V E	AS ABOVE
B-24-D-CP -10 to -25 incl.	3 2 2 1	100 250 .50 400	NOSE - FLEX. SIDE WAIST-M. UPPER TURRET TURREL - FLEX. TAIL TURRET	4-2000 5-1600 5-1000 12- 500 12- 250 20- 100		NONE 12800	AS ABOVE
B-24-D-CP Block numbers not assigned yet	2 2 2 2	400 250 .50 400	NOSE TURRET SIDE WAIST-M. UPPER TURRET LOWER TURRET TAIL TURRET		A S	A B O V E	AS ABOVE

NOTES:

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX LOAD LB	
B-24-D-17 (-1)	1 2 2	500 .50 400	NOSE - FLEX. UPPER TURRET TAIL TURRET	4-2000 5-1600 5-1000 12- 500 12- 250 20- 100		NONE 12800	2514
B-24-D-17 -5 to -25 incl.	3 2 2 1	100 250 .50 400	NOSE - FLEX. SIDE WAIST-M. UPPER TURRET TURREL - FLEX. TAIL TURRET		A S	A B O V E	3614
B-24-D-17 -1 & subsequent	2 2 2 2	400 250 .50 400	NOSE TURRET SIDE WAIST-M. UPPER TURRET LOWER TURRET TAIL TURRET		A S	A B O V E	AS ABOVE

NOTES:

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX LOAD LB	
B-24-D-17 (-1)	1 2 2	500 .50 400	NOSE - FLEX. UPPER TURRET TAIL TURRET	4-2000 5-1600 5-1000 12- 500 12- 250 20- 100		NONE 12800	2544
B-24-D-17 (-5)	2 2 2 1	500 250 .50 400	NOSE - FLEX. SIDE WAIST-M. UPPER TURRET TURREL - FLEX. TAIL TURRET		A S	A B O V E	AS ABOVE
B-24-D-17 -10 to -25 incl.	3 2 2 1	100 250 .50 400	NOSE - FLEX. SIDE WAIST-M. UPPER TURRET TURREL - FLEX. TAIL TURRET		A S	A B O V E	3614
B-24-D-17 -1 to -5 & SUB.	2 2 2 2	400 250 .50 400	NOSE TURRET SIDE WAIST-M. UPPER TURRET LOWER TURRET TAIL TURRET			AS ABOVE EXCEPT THAT EXTERNAL BOMB CAPS TO BE TAKEN ON (-5) & SUBSEQ.	AS ABOVE

NOTES: * 750 TOTAL BOMBS COMPRISED OF 400 & 500 BOMBS RESPECTIVELY PER GUN.
b CAPACITY FOR SUGGESTED LINKS & CASES LIMITS NOSE & TAIL TURRETS TO 400 RDS./GUN.

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX LOAD LB	
B-24-D-17 (-1)	3 2 2 2	250 250 .50 400	NOSE - FLEX. SIDE WAIST-M. UPPER TURRET LOWER TURRET TAIL TURRET	4-2000 5-1600 5-1000 12- 500 12- 250 20- 100		TENTATIVE 12800	3614
B-24-D-17 -5 to -20 incl.	2 2 2 2	600 250 .50 400	NOSE TURRET SIDE WAIST-M. UPPER TURRET LOWER TURRET TAIL TURRET		A S	A B O V E	AS ABOVE

NOTES: * 3 NOSE TURRETS IN LAT. 25 - LOWER TURRET IN 200- & SUBSEQUENT.
b LOWER TAIL TURRET IN 50- & SUBSEQUENT; NO TURRET GUN IN 14- & 15-
c CAPACITY FOR SUGGESTED LINKS & CASES LIMITS NOSE & TAIL TURRETS TO 400 RDS./GUN.

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DATE 20 SEPT. 1945

CONFIDENTIAL 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-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 (SEE NOTE "A")
B-24 D & E	PRATT-WHITNEY R-1830-13 TURBO HAMILTON STD. 12' DIA. - 3BL. F.P., HYDRA-MATIC	T 1200/8 S L M 1200/25000 C 1100/25000	S 110'0" L 66'4" H 18'0" T 25'8" W 104'8 SQ. FT.	B 34500 C 56000 R 56000 W 64000	8	MAIN - WINGS BOMB BAY	12 - 2364 2 x 400 3164 TOT.	3 2 2 1 2	100 250 400 100 400	NOSE - FLEX. SIDE WAIST-PL. UPPER TURRET TUNNEL - FLEX. TAIL TURRET	1-2000 6-1600 6-1000 12-500 12-250 20-100	NONE	12500	STD. 24V *AN/ARR-1 *RC - 103	TECHNICAL ORDER 01-580-1. * INSTALLED IN SOME MODELS.	
B-24 D & E	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	8	MAIN - WINGS BOMB BAY	12 - 2364 2 x 400 3164 TOT.	3 2 2 1 2	100 250 400 100 400	NOSE - FLEX. SIDE WAIST-PL. UPPER TURRET LOWER BALL TER TAIL TURRET	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	
B-24 D-E-G-H-J (WITH WING TIP TANKS)	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	8	MAIN - WINGS BOMB BAY WING TIPS	12 - 2364 2 x 400 2 x 225 3614 TOT.	2 2 2 2 2	400 250 400 400 400	NOSE TURRET SIDE WAIST-PL. UPPER TURRET LOWER BALL TER TAIL TURRET	AS ABOVE	**	AS ABOVE	REFERENCE AND RADIO NOTE AS ABOVE. ** EXTERNAL BOMBS TENTATIVE INSTALLATION ON B-24D-5-70 ONLY. (2-4000# BOMBS MAX.)		
															* RESTRICTED TO 64,000 LB. BY FLYING CHARACTERISTICS.	

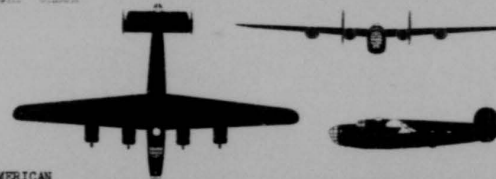
COLUMN — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

MODEL & BLOCK NO.	TAKE OFF & LANDING						HIGH SPEED & CLIMB						RANGE & ENDURANCE										REMARKS ON PERFORMANCE		
	HARD SURFACE - NO WIND						AT NORMAL COMBAT WEIGHT						STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE												
	TO CLEAR 50		GROUND-RUN		LANDING SPEED		WEIGHT	STD. ALT.	MIL. POWER			MAX. CONTIN. POWER			TAKE OFF WEIGHT	BOMBS CARGO-PASS.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT.		MAX. CRUISE POWER AT 25000 FT.		LONG RANGE AT 10000 FT.			
T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.	FT.			FT.	M.P.H.	FT./MIN.	M.P.H.	FT./MIN.	MIN.				LB.	LB.	U.S. GAL.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE
B-24 D & E	40000	-	3300	90	-	2800	30000	-	600	-	500	34.0	53000	NONE	2364	900	4.0	1000	3.9	1850	9.5	1950	8.9	2350	15.0
	54000	1250	3900	103	2950	3150	25000	303	1050	277	850	26.8													
	56000	1750	3900	105	3250	3550	20000	290	1100	281	900	20.9	58000	5000	2364	850	3.8	950	3.7	1700	8.8	1800	8.2	2200	14.2
	59000	5600	-	-	3850	-	15000	277	1150	272	950	15.3													
	59000	5600	-	-	3850	-	10000	263	1200	259	1000	9.0													
	60000	6000	-	-	4200	-	5000	252	1200	246	1000	4.2													
B-24 D-E-G-H-J (WITH WING TIP TANKS)	40000	-	3300	90	-	2800	30000	-	600	-	500	34.0	63500	NONE	3614	-	-	-	-	-	-	-	-	3300	20.3
	56000	1750	3900	105	3250	3550	25000	303	1050	277	850	26.8	60500	NONE	3164	1200	5.1	1300	5.1	2400	12.1	2500	11.5	3100	20.3
	59000	5600	-	-	3850	-	20000	290	1100	281	900	20.9	61000	3000	2814	1050	4.6	1150	4.6	2050	10.9	2200	10.4	2700	18.4
	60000	6000	-	-	4200	-	15000	277	1150	272	950	15.3	60000	5000	2364	850	3.8	950	3.7	1700	8.8	1800	8.2	2200	14.2
	62000	6800	-	-	4900	-	10000	263	1200	259	1000	9.0													
	64000	7250	-	-	5000	-	5000	252	1200	246	1000	4.2													

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-2690 RADIO COMPASS
 - SCR-271N COMMAND SET (or SCR-522)
 - SCR-287A LIAISON SET
 - SCR-535 RECEIVER (or SCR-995 or SCR-695)
 - SCR-578 EMERGENCY TRANSMITTER
 - RC - 103 BLIND LANDING (Provisions only)
 - RC - 32 FILTER EQUIPMENT (or RC-198)
 - RC - 36 INTERPHONE AMPLIFIER
 - RC - 43B MARKER BEACON

(B) MAXIMUM FERRY RANGE (3900 MI) MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION 3 QT. TO 3 GAL./ HOUR DEPENDING ON TIME SINCE OVERHAUL.



B-24
"LIBERATOR"

MANUFACTURED BY CONSOLIDATED - FORD - DOUGLAS - NORTH AMERICAN

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA			B-BASIC C-COMBAT 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			
B-29-1	4	WRIGHT R-3350-23 TURBO HAMILTON STD. 16" DIA. -4BL. F.F. HYDRA-MATIC	T 2200/S L M 2200/25000 C 2000/25000	S 141'3" L 99'0" H 27'9" T 31'6" W 1739 SQ'	B 71000 C 105000 R 120000	10	OUTBD.-WINGS INBD.-WINGS BOMB BAY	11- 2735 8- 2873 4x 640 8168 TOT.	1-20MM 2 2 2 2 2	± 60 500 500 500 500 1000	TAIL-M2, TYPE-82 UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL TURRET	1-1000 2-2000 12-1500 12-1000 10- 500 56- 250 80- 100	NONE	20000 ***	SCR-211, 259G, 271A, 287A, 578, & 695A, RC-36 & RC-138.	TECHNICAL ORDER 01-206J-1. * MAX. PROVISIONS 100 BOUNDS. * OUTBOARD TREAD - 31'6"; INBOARD TREAD - 25'6". ** DIE TO INCREASE OF ORIGINALLY PLANNED BASIC WEIGHT; COMBAT & RECOMMENDED WT. ARE BEING INCREASED. NO DATA. *** WITH PARTIALLY FILLED MAIN FUEL TANKS 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											

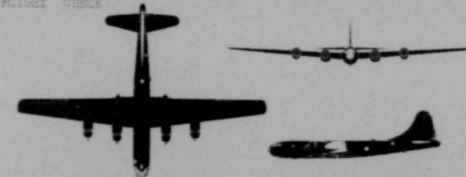
COLUMN — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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 ON PERFORMANCE			
	TO CLEAR 50'		GROUND-RUN		LANDING SPEED	T.O. DIST.	LAND. DIST.	WEIGHT	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.					STD. ALT.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED				RATE OF CLIMB	TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.		ENDUR.	RANGE	ENDUR.
B-29-1	90000	3150	3500	100	2800	3500	105000	30000	370	520	360	340	140.0	(SEE NOTE A)	6888	1800	6.8	3000	6.8	3500	15.2	3200	12.3	1300	21.9	* 1 ST. HALF OF FLIGHT REQUIRES THAT MAX. CRUISE POWER BE EXCEEDED SLIGHTLY WITH AUTO. RICH MIXTURE.
	105000	4500	4400	110	3190	3000	25000	360	740	347	550	29.0	120000	NONE	9000	1500	5.5	1500	5.5	2800	12.2	2700	9.6	3400	17.8	
	120000	6100	-	120	4300	-	20000	345	900	334	715	21.0	120000	9000	5608											
							15000	332	1040	320	850	15.0														
							10000	317	1160	307	970	10.0														
							5000	202	1250	203	1060	5.0														

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" 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. GROSS WT.

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK



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MANUFACTURED BY BOEING (WICHITA)

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MODEL & BLOCK NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO. GUNS & CALIBER	RDS. PER. GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	
<u>B-25C&D-NA</u>	1-.30 2-.50 2-.50	600 200 200	NOSE - FLEX. UPPER TURRET LOWER TURRET	1-2000 2-1000 6- 500 8- 250 12- 100	NONE	3000	a 1255
<u>B-25C-NA</u> *-1 to -20 incl.	1 1 .50	300 300	NOSE - FLEX. NOSE - FIXED	1-2000 3-1000 6- 500 8- 250 12- 100	1-2000 T 6- 325 8- 250 8- 100	3-1000 i 8- 250 x 5000	1555
<u>B-25D-NA</u> *-1 to -15 incl.	2 2	200 200	UPPER TURRET LOWER TURRET				
<u>B-25C-NA</u> (-25) <u>B-25D-NA</u> -20 to -30 incl.	A S	A B	O V E	1-2000 2-1600 3-1000 6- 500 8- 250 12- 100	AS ABOVE	2-1600 i 8- 250 x 5200	1510
<u>B-25G-NA</u> -1 to -10 incl.	1-75MM 2-.50 2-.50 2-.50	21 400 200 200	NOSE-TYPE M6 NOSE - FIXED UPPER TURRET LOWER TURRET	A S	A B O V E	AS ABOVE	AS ABOVE
<u>B-25H-NA</u> -1 to -10 incl.	1-75MM 4-.50 b 4-.50 2-.50 2-.50 2-.50	21 400 400 200 200 500	NOSE-TYPE T13 NOSE - FIXED NOSE-PKG. GUNS SIDE WAIST-FL. UPPER TURRET TAIL TURRET	AS ABOVE	NONE	3200	AS ABOVE

NOTES: * B-25C-1 & D-1 ARMAMENT SAME AS B-25C & D. T TORPEDO
a LAST 102 (B-25C) FUEL SAME AS B-25C-1. i INTERNAL
b B-25H-1 ONLY HAS 2-.50 CAL. NOSE GUNS INSTEAD OF 4. x EXTERNAL

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

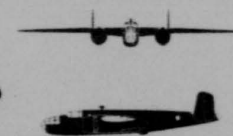
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MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS		RADIO	REMARKS & REFERENCE
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE		
B-25C & D	2	WRIGHT B-2600-13 2 SPD. SUPER. HAMILTON STD. 12 7/8" DIA. - 3 BL. P.F. HYDRA-MATIC	T 1700/1500 M 1700/12000 C 1500/6700 1350/15000	S 67'6" L 53' H 15'9" T 19'4" W 61.0 sq. ft.	B 20500 C 29500 R 33000 W 35000 a	5	MAIN - WING 2 x 184 MAIN - WING 2 x 151 AUX. - WING 6 - 300 BOMB BAY 1 x 585 1255 TOT.	1-30 2-50 2-50	600 200 200	NOSE - FLEX. UPPER TURRET LOWER TURRET	1-2000 2-1000 NOSE 6- 500 8- 250 12- 100	3000	STD. 21VA RC - 103 (PROV. ONLY)	TECHNICAL ORDER 01-60GB-1. * FUEL CAPACITY OF LAST 102 B-25C's SAME AS B-25C-1.	
B-25C -1 TO -25 INCL. B-25D -1 TO -30 INCL.	2	AS ABOVE	AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 22000 C 32000 R 33000 W 35000 a	5	MAIN - WING 2 x 184 MAIN - WING 2 x 151 AUX. - WING 6 - 300 BOMB BAY 1 x 585 1555 TOT.	1-30 1-50 2-50 2-50	300 300 200 200	NOSE - FLEX. NOSE - FIXED UPPER TURRET LOWER TURRET	1-2000 **2-1600 3-1000 6- 500 8- 250 12- 100	2-1600 8- 250 5200	AS ABOVE	REFERENCE AS ABOVE. * B-25C-25, B-25D-20, -25 & -30 FUEL CAPACITY SAME AS B-25G SERIES. *** B-25C-1 & D-1 SAME AS B-25C & D. ** CARRIED ON LATER MODELS ONLY. T-TORPEDO; DE-DEPTH BOMB; I-INTERNAL; E-EXTERNAL	
B-25G -1 TO -10 INCL.	2	AS ABOVE	AS ABOVE	S 67'6" L 51' H 15'9" T 19'4" W 61.0 sq. ft.	B AS ABOVE C (ESTIMATED) R W	5	MAIN - WING 2 x 184 MAIN - WING 2 x 151 AUX. - WING 6 - 300 BOMB BAY 2 - 540 1510 TOT.	1-75MM 2-50 2-50 2-50 2-50	21 400 200 200 500	NOSE-TYPE M6 NOSE - FIXED UPPER TURRET LOWER TURRET	A S	A B O V E	AS ABOVE	NO TECHNICAL ORDER TO DATE.	
B-25H -1,	2	AS ABOVE	AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B NO DATA C R W	5	AS ABOVE	1-75MM 4-50 2-50 2-50 2-50 2-50	21 400 200 200 200 500	NOSE-TYPE T13 NOSE - FIXED FORE-PRG. GUN SIDE WAIST-PL. UPPER TURRET TAIL TURRET	AS ABOVE	NONE	3200	AS ABOVE	A S A B O V E
															a LIMITED TO 35000 LB. BY FLYING CHARACTERISTICS.

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-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.				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		
B-25C & D	25000 30000 32000 34000	- 3600 1700 5500	3300 3650 3900 -	- 2950 3700 4400	1550 1800 2000 -	20000 15000 10000 5000 29500	267 286 284 283 265	850 1300 1500 1800 1600	262 283 279 276 260	725 1100 10.5 5.9 2.7	15.9 10.5 10.7 6.2 3.0	33000 32000 31000 31000 34000	NONE 3200 3000 2825 5200	1275 970 970 970 970	950 725 675 675 650	3.9 3.0 3.0 3.0 3.0	- - - - -	1475 1075 1000 1000 950	7.0 8.5 5.0 5.0 5.0	- - - - -	1850 1350 1250 1250 1175	10.3 7.2 7.5 7.5 7.2							
B-25C -1 TO -25 INCL. B-25D -1 TO -30 INCL.		A S	A B O V E			32000	20000 15000 10000 5000 S L	265 284 283 282 264	800 1225 1425 1700 1700	260 280 276 274 257	700 1050 1275 -	16.4 10.7 6.2 3.0 -	33000 32000 31000 31000 34000	NONE 3200 3000 2825 5200	1225 970 970 970 970	1225 725 675 675 650	4.9 3.0 3.0 3.0 3.0	- - - - -	1825 1075 1000 1000 950	8.5 5.0 5.0 5.0 5.0	- - - - -	2300 1350 1250 1250 1175	12.3 7.2 7.5 7.5 7.2						
B-25G -1 TO -10 INCL.		A S	A B O V E				A S	A B O V E																					
B-25H -1,		APPROXIMATELY AS ABOVE						APPROXIMATELY AS ABOVE								N O C O U N D A T A A V A I L A B L E													

NOTES: (A)

- 24 VOLT RADIO SYSTEM
- SCR-211 FREQUENCY METER
- SCR-269G RADIO COMPASS
- SCR-271B COMMAND SET (or SCR-522)
- SCR-287A LIAISON SET
- SCR-535 RECEIVER (or SCR-595 or SCR-695)
- SCR-578 EMERGENCY TRANSMITTER
- RC -196 CONTACTOR UNIT
- RC -103 BLEND LANDING (Provisions only)
- RC - 32 FILTER EQUIPMENT (or RC-196)
- RC - 36 INTERPHONE AMPLIFIER
- RC - 43B MARKER BEACON



B-25
"MITCHELL"

MANUFACTURED BY NORTH AMERICAN

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 5
DATE 20 SEPT. 1943

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.		TYPE (SEE NOTE) "A"
B-26	PRATT-WHITNEY R-2500-5 2 SPD. SUPER. CURTISS 13'6" DIA. - 3BL. P.P. HYDROMATIC	T 1850/8 L M 1850/2700 C 1500/7800 1150/13000	S 55' 0" L 58' 3" H 19' 10" T 22' 0" W 602 SQ. FT.	B 23300 C 35000 R 36500 W 36500	5	MAIN - WING AUX. - WING BOMB BAY - (PORE)	2 x 360 2 x 121 1 x 250 1212 TOT.	1-.30 1-.30 1-.50 2-.50	600 600 200 400	NOSE - FLEX. TUNNEL - FLEX. TAIL - FLEX. UPPER TURRET	2-2000 4-1000 8-500 16-250 30-100	NONE	4000	STD. 24V	TECHNICAL ORDER 01-359A-1.
B-26A	PRATT-WHITNEY R-2500-5 or -39 2 SPD. SUPER. CURTISS 13'6" DIA. - 3BL. P.P. HYDROMATIC	M AS ABOVE C	S L H T W AS ABOVE	B C R W AS ABOVE	5	MAIN - WING AUX. - WING BOMB BAY - (PORE)	2 x 360 2 x 121 2 x 250 1162 TOT.	AS ABOVE EXCEPT THAT TAIL GUN HAS 400 RDS.		A S	A B O V E	AS ABOVE		A S A B O V E	
B-26B	PRATT-WHITNEY R-2500-5 2 SPD. SUPER. CURTISS 13'6" DIA. - 3BL. P.P. HYDROMATIC	M AS ABOVE C	S L H T W AS ABOVE	B C R W AS ABOVE	5	AS ABOVE	AS ABOVE	1-.30 1-.30 2-.50 2-.50	600 600 1500 400	NOSE - FLEX. TUNNEL - FLEX. TAIL - FLEX. UPPER TURRET	2-2000 2-1600 4-1000 8-500 16-250 30-100	1-2000 (TORPED)	2-16001 1-2000 x 5200	AS ABOVE	A S A B O V E
B-26B -10 TO -20 INCL. B-26C -5 TO -25 INCL.	PRATT-WHITNEY R-2500-13 2 SPD. SUPER. CURTISS 13'6" DIA. - 3BL. P.P. HYDROMATIC	T 2000/8 S L M 2000/1500 C 1500/13500 1150/11000	S 71' 0" L 58' 3" H 21' 6" T 22' 0" W 659 SQ. FT.	B 25300 ** C 37000 R 37500 W 38200 ***	5	MAIN - WING AUX. - WING BOMB BAY - (PORE & REAR)	2 x 360 2 x 121 4 x 250 1962 TOT.	1-.30 1-.30 1-.50 2-.50	200 270 240 250 200 400 500	NOSE - FIXED NOSE - FLEX. SIDE WAIST-PL. U.P.S. - PACKAGE L.P.S. - PACKAGE UPPER TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	REFERENCE AS ABOVE * 1162 GAL. MAX. FUEL WITH 2000 LB. TORPED. ** B-26B-15 IS 500 LB. LIGHTER THAN B-26B-10. *** LIMITED TO 38200 LB. BY FLYING CHARACTERISTICS.	
B-26B -25 TO -75 INCL. B-26C -30 TO -40 INCL.	AS ABOVE	M AS ABOVE C	S L H T W AS ABOVE	B C R W AS ABOVE	5	MAIN - WING AUX. - WING BOMB BAY - (PORE ONLY)	2 x 360 2 x 121 * 2 x 250 1162 TOT.	A S A B O V E		2-2000 2-1600 4-1000 * 6-500 * 10-250 * 20-100	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE * REAR BOMB BAY DELETED.	

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE			
	GROSS WEIGHT LB.	TO CLEAR 50' DIST.		LANDING SPEED MPH	GROUND-RUN DIST.		STD. ALT. FT.	MIL. POWER MPH	RATE OF CLIMB FT/MIN.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER			MAX. CRUISE POWER			LONG RANGE				
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	T.O. DIST. FT.										AT 10000 FT. MILES	ENDUR. HOURS	AT 25000 FT. MILES	ENDUR. HOURS	AT 10000 FT. MILES	ENDUR. HOURS	AT 25000 FT. MILES		ENDUR. HOURS	RANGE MILES	ENDUR. HOURS
		B-26	24000 28000 32000 35000 36000		- - 3250 4000 4300	2300 2900 3500 -										110 120 130 -	1600 2100 2350 -	35000 15000 10000 5000 S L	280 306 297 300 281	300 750 1000 1150 1500	275 302 294 288 265	200 600 900 -		25.5 11.0 7.7 3.4 -	32500 35000	NONE 4000
B-26A		A S	A B O V E		35000	A S	A B O V E					34000 35500 35000	NONE 1500 4000	1162 1162 962	950 900 550	3.5 3.5 2.2	- -	1300 1250 750	5.8 5.8 3.6	- -	- -	2000 1950 1250	11.0 10.7 7.0			
B-26B		A S	A B O V E		35000	A S	A B O V E					34000 35500 36000 37000	NONE 1500 2000 T 4000	1162 1162 962 962	950 900 900 550	3.5 3.5 3.5 2.2	- -	1300 1250 1250 750	5.8 5.8 5.8 3.6	- -	- -	2000 1950 1900 1250	11.0 10.7 10.5 7.0			
B-26B -10 TO -20 INCL. B-26C -5 TO -25 INCL.	24000 28000 32000 35000 36000 38200	- - 3250 4000 4300 5000	3200 3500 -	115 125 -	2150 2500 -	37000 15000 10000 5000 S L	281 305 305 305 300	- 850 1000 1100 1200	276 299 295 295 281	- 700 900 -	- 17.0 10.0 7.5 -	* 38200 36000 37500 38000 37000	NONE 1500 2000 T 4000	1962 1162 1162 962 962	1200 900 850 850 500	4.8 3.5 3.5 3.5 2.2	- -	1700 1250 1200 1200 700	8.1 5.8 5.8 5.8 3.6	- -	- -	2500 1950 1900 1850 1200	15.3 10.7 10.4 10.2 7.0			
B-26B -25 TO -75 INCL. B-26C -30 TO -40 INCL.		A S	A B O V E		37000	A S	A B O V E					36000 37500 38000 37000	NONE 1500 2000 T 4000	1162 1162 1162 962	900 850 850 500	3.5 3.5 3.5 2.2	- -	1250 1200 1200 700	5.8 5.8 5.8 3.6	- -	- -	1950 1900 1850 1200	10.7 10.4 10.2 7.0			

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 RECEIVER (or SCR-995 or SCR-695)
SCR-578 EMERGENCY TRANSMITTER
RC - 32 FILTER EQUIPMENT (or RC-198)
RC - 36 INTERPHONE AMPLIFIER
RC - 43B MARKER BEACON

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK



B-26
"MARAUDER"

MANUFACTURED BY MARTIN

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
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DATE 20 SEPT 1975																
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-20 B	2	WEIGHT R-2600-11 2 SPD. SUPER. HAMILTON STD. 11 1/2" HLA. - 3BL. P.P. HYDROMATIC	T 1600/ S L M 1600/ 3000 C 1350/ 5500 1275/12000	S 61' 1/4" L 128' 0" H 18' 1" T 17' 0" W 166 sq. ft.	B 15600 C 22000 R 25000 W 27000*	3	MAIN - WING FUSELAGE 1 x 100 BOMB BAY 2 - 590	1 - 390 2 - 30 1 - 50 2 - 50	500 1000 200 200	TUNNEL - FLEX. L.A.R. NACELLE REAR COCKPIT NOSE - FIXED	1-1000 1- 500 1- 250 10- 100	1-2000 T 2- 500 1- 250 1- 100	2000	SCR-27LW SCR-535 MN - 26Y RC - 51	TECHNICAL ORDER 01-LOAD-1. * SOME MODELS ONLY T-TORPEDO * CRITICAL FLIGHT CHARACTERISTICS RESULT ABOVE 27000 LB.	
A-20 C -1 TO -10 INCL.	2	WEIGHT R-2600-23 2 SPD. SUPER. HAMILTON STD. 11 1/2" HLA. - 3BL. P.P. HYDROMATIC	T 1600/ S L M 1600/ 1000 C 1350/ 5000 1275/11500	S AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 16300 C 23000 R 25200 W 27000*	3	INBD.-WINGS 2 x 136 OUTBD.-WINGS 2 x 64 MIS. (BOMB BAY) 2 x 70 BOMB BAY 1 - 680	2 x 136 2 x 64 2 x 70 1 - 680	500 EA.	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	1-500 1-250 1-100	1-2000 T*	2000	AS ABOVE	TECHNICAL ORDER 01-LOAD-1. * TORPEDO ON A-20C-5 & -10 ONLY. ** CAL. 50 GUN ALTERNATE. * CRITICAL FLIGHT CHARACTERISTICS RESULT ABOVE 27000 LB.	
A-20 G-1	2	AS ABOVE	AS ABOVE	AS ABOVE	B 17200 C 24000 R 25200 W 27000*	2	AS ABOVE	1-.50 1-.50 2-.50 1-20MM	500 500 350 60	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED NOSE - TYPE M2	AS	AS ABOVE		SCR-27LW SCR-535A SCR-695A MN - 26Y RC - 36 RC-32 or 196	TECHNICAL ORDER 01-LOAD-1. * CAL. 50 GUN ALTERNATE. * CRITICAL FLIGHT CHARACTERISTICS RESULT ABOVE 27000 LB.	
A-20 G -1 TO -15 INCL.	2	AS ABOVE	AS ABOVE	AS ABOVE	B AS ABOVE C AS ABOVE R AS ABOVE W AS ABOVE	2	AS ABOVE	1-.50 1-.50 6-.50	500 500 350	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	AS	AS ABOVE		AS ABOVE	AS ABOVE	
A-20 G -20 & -25	2	AS ABOVE	AS ABOVE	AS ABOVE	B 17700 C 26000 R 26000 W 27000*	2	INBD.-WINGS 2 x 136 OUTBD.-WINGS 2 x 64 MIS. (BOMB BAY) 3 - 325 BOMB BAY 1 x 360	2 x 136 2 x 64 3 - 325 1 x 360	1 2 2 6	400 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	AS ABOVE	1-2000 T 1- 500 1- 250 1- 100	1000 1-500 X 1-500 X	SCR-27LW SCR-535 SCR-695A MN - 26Y RC - 36 or RC - 196	REFERENCE AS ABOVE * A-20G-25 MODEL ONLY. * CRITICAL FLIGHT CHARACTERISTICS RESULT ABOVE 27000 LB. T - TORPEDO; I-INTERNAL; X-EXTERNAL.

MODEL & BLOCK NO.	TAKE OFF & LANDING				HIGH SPEED & CLIMB						RANGE & ENDURANCE										REMARKS ON PERFORMANCE				
	HARD SURFACE - NO WIND				AT NORMAL COMBAT WEIGHT						STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE														
	GROSS WEIGHT LB.	TO CLEAR 50 FT. DIST.	LAND. DIST. FT.	LANDING SPEED MPH	WEIGHT LB.	STD. ALT. FT.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX CONTINUOUS POWER AT 10000 FT. RANGE MILES	MAX CRUISE POWER AT 25000 FT. ENDUR. HOURS	LONG RANGE AT 10000 FT. RANGE MILES	ENDUR. HOURS							
A-20 B	17000 19000 22000 24000 27000	- 2800 4000 4900 6500	2700 3000 3000 3000 3000	95 95 95 95 95	25000 20000 15000 10000 5000 S L	2000 303 315 318 303 300	1900 1425 1430 1425 1425 1425	900 1127 1127 997 907 887	900 1275 1275 1025 907 887	13.2 8.3 8.3 8.3 8.3 8.3	23600 22000	NONE 2000	1080 490	850 300	3-3 1.4	1150 500	4-9 2.1	1500 600	7.0 2.7	- -	- -	2100 900	13.4 6.0		
A-20 C -1 TO -10 INCL.	18000 20000 23000 25000 27000	- 3200 4400 5300 6500	2800 3100 3100 3100 3100	95 95 95 95 95	25000 20000 15000 10000 5000 S L	2000 302 317 319 306 300	1900 1320 1320 1320 1320 1320	900 1120 1120 997 907 887	900 1200 1200 1025 907 887	13.2 8.7 8.7 8.3 8.3 8.3	24500 23200	NONE 2000	1080 540	875 425	3-3 1.8	- -	1500 700	6-6 3.1	- -	- -	- -	2300 850	12.0 4.5		
A-20 G-1	19000 21000 24000 25000 27000	- 3600 4900 5900 6500	2700 2900 3000 3000 3000	95 95 95 95 95	25000 20000 15000 10000 5000 S L	2000 302 317 319 306 300	1900 1320 1320 1320 1320 1320	900 1120 1120 997 907 887	900 1130 1130 1025 907 887	13.2 8.2 8.2 8.3 8.3 8.3	25300 24000 24000	NONE 2000 2000 (Torpedo)	1080 540 540	975 450 425	3-5 1.7 1.7	1650 750 650	6-8 3.1 3.0	1700 800 700	7-3 2.1 2.1	3000 900 900	2.1 2.1 2.1	2500 1100 950	12.1 6.0 5.7		
A-20 G -1 TO -15 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	
A-20 G -20 & -25	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	26000	25000 20000 15000 10000 5000 S L	258 271 311 317 309 302	- 600 1125 1500 1750 1900	219 226 307 375 399 385	- 16.7 10.1 6.1 2.8 -	- - - - - -	26200 26000 26000 26000	NONE 2000 2000 4000	1105 725 725 400	900 625 575 300	3-5 2.3 2.3 1.2	- 950 325 425	- 4.3 4.3 2.0	1625 1075 975 525	7-3 L-5 L-5 2.5	- 1250 -	- 5.7 -	2000 1300 1175 680	11.2 6.6 6.7 3.3	T - TORPEDO REPLACES INTERNAL BOMBS WHEN CARRIED.

NOTES: (A) FUSELAGE TANKS IN A-20C AND SUBSEQUENT MODELS ARE CARRIED IN BOMB BAYS WITHOUT AFFECTING BOMB LOAD CAPACITY. (B) FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.



A-20
"HAVOC"

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PAGE 7																
DATE 20 SEPT. 1943																
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		
A-36A	1	ALLISON V-1710-87 SINGLE SPEED CURTISS 10'9" DIA. -3BL. E.F. ELECTROMATIC	T 1325/S L M * 1325/5400 * 1500/2500 C 1100/6600	S 37' 0" L 32' 3" H 11'11" T 11'10" W 233 sq. ft.	B 7100 C 10000 R 10700 W -	1	MAIN - WING EXT. - WINGS	2 x 90 2 x 75 or 2 x 150 1280 TOT.	2-.50 4-.50	200 200	NOSE - FIXED WING - FIXED	NONE	2-500 2-250	1000	SCR-27LN SCR-535 SCR-995**	TECHNICAL ORDER 01-602B-1. * WAR EMERGENCY RATINGS. ** LAST 359 ONLY.

MODEL & BLOCK NO.	TAKE OFF & LANDING						HIGH SPEED & CLIMB						RANGE & ENDURANCE										REMARKS ON PERFORMANCE	
	HARD SURFACE - NO WIND						AT NORMAL COMBAT WEIGHT						STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE											
	TO CLEAR 50'		GROUND-RUN		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			
	T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.						HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				TIME TO CLIMB	RANGE	ENDUR.	RANGE	ENDUR.	RANGE		ENDUR.
A-36A	9000	2800	3000	-	2050	2100	20000	288	500	277	300	16.6	11000	NONE	1280	1400	5.6	-	-	-	-	2100	10.4	* MILITARY POWER AVAILABLE FOR 15 MINUTES. ** WITH 2-500 LB. EXTERNAL BOMBS.
	10000	3400	3500	-	2500	2400	15000	295	1025	285	725	9.1	10000	NONE	350	1000	3.8	-	-	-	-	1500	7.7	
	11000	4100	-	-	3200	-	10000	305	1525	293	1175	5.1	9000	NONE	180	550	2.0	-	-	-	-	850	3.9	
							5000	310	2075	293	1475	2.4	10000	1000	180	500	2.0	-	-	-	-	800	3.7	
							10000	295	2200	275	1550	-												

NOTES:

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK



A-36
"INVADER"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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DATE 20 SEPT. 1943

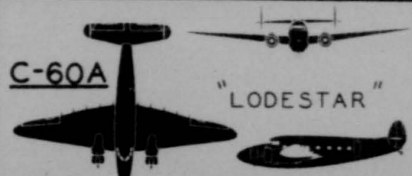
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA			B-BASIC C-COMBAT R-RECD LIM W-WAR 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.
C-46A -1 TO -20 INCL.	2	PRATT-WHITNEY R-2800-51 2 SPEED CURTISS 13'6" DIA. - 4 BL. F.F., HYDROMATIC	T 2000/ S L M 2000/ 1500 C 1600/ 5700	S 108'0" L 76'4" H 22'0" T 25'0" W 1360 SQ. FT.	B 32400 C 46000 R 46000 W 56000 A	3	WING-PANELS PUSHLAGE	6 - 1100 8 x 100 2200 TOT.	N O N E	E	FORE-BELLY APT -BELLY MAIN-CABIN TROOPS	3700 1800 10000 or 50	15000	SCR-211, 269, 271A, 287, 518, 578 & 695. RC-36, 43, 103 & 108. AN/ARR-1	TECHNICAL ORDER 01-251A-1. (REVISION IN PROGRESS) * EARLY MODELS HAVE HAMILTON STD. 3BLAIRE, HYDROMATIC, 15'1" DIA. PROPELLER. ** MISC. RADIO CARRIED. MAX. COMBINATION SHOWN. NOTE: EARLY MODELS LIMITED TO 10000# GROSS WEIGHT & HAVE SMALL CARGO DOOR.		
C-47 & A C-53, C & D	2	PRATT-WHITNEY R-1830-92 INTEGRAL SUPER. HAMILTON STD. 11'7" DIA. - 3 BL. F.F., HYDROMATIC	T 1200/ S L M - C 1050/ 7000	S 95'0" L 64'6" H 17'0" T 18'6" W 987 SQ. FT.	B 18000 C 26000 R 29000 W 36500 A	3	MAIN - WING AUX. - WING PUSHLAGE	2 x 202 2 x 200 8 x 100 1604 TOT.	N O N E	E	CARGO or TROOPS or LITTERS	6000 27 12 11000 MAX. 11000 MAX.	6000 HOR. 5000 VERT. 105,128. AN/ARR-1	SCR-211, 269, 271A, 287, 518, 578 & 695. RC-36, 43, 103 & 108. AN/ARR-1	TECHNICAL ORDER 01-400-1. * MISC. RADIO CARRIED; MAX. COMBINATION SHOWN. (AN/APN-2 ON SOME MODELS) C-47, C-53 & C-53C INSTALLED WITH 12VOLT SYSTEM; OTHERS WITH 24 VOLT SYSTEM. NOTE: C-47 & C-53 SERIES SIMILAR EXCEPT FOR LARGE CARGO DOOR ON C-47. THE C-53 CARRIES 24 PASSENGERS.		
C-54A	4	PRATT-WHITNEY R-2000-3 or -7 2 SPEED HAMILTON STD. 13'1" DIA. - 3 BL. F.F., HYDROMATIC	T 1290/ S L M 1290/ 3000 C 1015/ 9000	S 117' 6" L 93'10" H 27' 6" T 24' 8" W 1460 SQ. FT.	B 37000 C 58000 R 58600 W 76000 A	6	INBD. - WING OUTBD. - WING PUSHLAGE	2 x 508 2 x 435 4 x 464 3742 TOT.	N O N E	E	FORE-BELLY APT -BELLY FORE-CARGO APT -CARGO TROOPS	1800 2100 2100 11900	25000	SCR-211, 269, 271A, 287, 518, 595, 695. RC-32, 36, 43, 103.	TECHNICAL ORDER 01-400-1. * MISC. RADIO CARRIED. MAX. COMBINATION SHOWN. NOTE: 30 TROOPS WITH PUSHLAGE TANKS (3742 GAL.) 50 TROOPS WITHOUT PUSHLAGE TANKS (1886 GAL.)		
C-60A -1 & -5	2	WRIGHT R-1820-27 2 SPEED HAMILTON STD. 10'6" DIA. - 3 BL. F.F., HYDROMATIC	T 1200/ S L M 1200/ 5700 C 1000/ 8400	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 - WING REAR - WING AUX. - WING	2 x 150 2 x 172 3 x 134 1046 TOT.	N O N E	E	BELLY CABIN or PARATROOPS	3400 6600 or 18	2500	SCR-211, 269, 271A, 287, 518, 595. RC-32, 36, 43, 103.	TECHNICAL ORDER 01-750B-1. * MISC. RADIO CARRIED; MAX. COMBINATION SHOWN. EARLIER MODELS CARRY SCR-535 IN PLACE OF SCR-695. ** 1200 LB. BALLAST REQUIRED IN NOSE TO BALANCE PARATROOPS.		

NOTE: (A) PERMISSIBLE ONLY WITH ALL WING TANKS FULL

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT					RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE					
	GROSS WEIGHT LB.	TO CLEAR 50' DIST.		LANDING SPEED MPH	GROUND-RUN DIST.		WEIGHT LB.	STD. ALT. FT.	MIL. POWER			TAKE OFF WEIGHT LB.	BOMBS-CARGO-PASS. LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
		FT.	FT.		FT.	FT.			FT.	FT.	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.	AT 25000 FT.
C-46A -1 TO -20 INCL.	34000 39000 45000 50000	1500 1700 1950 2200	1500 1700 1950 2200	1100 1150 1200 1250	1150 1200 1250 1300	14000 16000 18000 20000	20000 15000 10000 5000 S L	2000 1500 1000 500 S L	x x x x	530 780 900 1100 1300	- - - - -	400 650 750 900 900	28.4 18.6 11.6 5.5 -	51000 46000 46000 51000	2000 3000 5000 10000	2200 1400 1050 1050	LIMITED TO MAX. CRUISE ONLY	ABOVE CRUISE-ING CEILING; ALSO NO OXYGEN	2700 1800 1350 1100	15.0 10.0 7.5 5.5	ABOVE CRUISE-ING CEILING; ALSO NO OXYGEN	3000 2000 1500 1200	20.0 13.5 10.0 7.5	NOTE: x HIGH SPEED IN PRELIMINARY TEST - 264 MPH AT 13000 FT. ALTITUDE & 38200 LB. GROSS WT.	
C-47 & A C-53, C & D	21000 23000 26000 29000	1650 1850 2100 2400	2100 2300 2600 3000	66 69 73 79	900 1150 1500 1600	1300 1400 1600 2000	20000 15000 10000 5000 S L	2000 220 217 202 187	225 200 800 202 1200	201 180 217 202 187	180 150 720 920 -	37.0 20.0 11.0 5.0 -	29000 26000 29000	NONE 2000 6000**	1600 1000 800	1500 950 750	7.6 4.7 3.7	AS ABOVE	2300 1150 1100	13.0 7.9 6.2	AS ABOVE	3100 2050 1550	19.3 12.7 10.0	* MAX. PERMISSIBLE LEVEL FLIGHT SPEED FOR 29000 LB. ** 6000 LB. CARGO or 28 TROOPS.	
C-54A	45000 55000 59000 62500 65000	1750 2800 3300 3850 4350	2900 3400 3900 4400 4900	80 90 99 108 117	1000 1600 1850 2150 2350	1800 2200 2600 3000 3500	20000 15000 10000 5000 S L	20000 15000 10000 5000 S L	- - - 272 260	- - - 1150 1150	269 278 276 360 245	425 800 1000 1100 1050	24.4 16.0 9.4 4.4 -	62500 65000 99000 65000	NONE 8000* 8000* 11000**	3742 2814 1856 1856	EXCEEDS SPEED LIMITS	AS ABOVE	3400 2500 1600 1550	16.2 12.0 7.7 7.7	AS ABOVE	4100 2900 1900 1800	26.0 17.1 11.7 10.2	* 8000 LB. CARGO or 30 TROOPS & 2000 LB. EQUIPMENT. ** 11000 LB. CARGO or 50 TROOPS & 4000 LB. EQUIPMENT.	
C-60A -1 & -5	11000 17500 18500 21500 23000	1400 1800 2050 2850 3300	2150 2600 2700 3500 3900	61 68 70 77 84	600 1000 1150 1600 1900	1700 2100 2200 2600 3000	20000 15000 10000 5000 S L	20000 15000 10000 5000 S L	259 269 260 255 234	650 1300 1400 1600 1600	255 262 255 247 235	500 1000 1200 1100 -	19.0 11.0 7.0 3.0 -	21500 23000	1150 **5000	1046 644	1000 600	4.5 2.7	AS ABOVE	1150 850	7.0 4.3	AS ABOVE	2500 1200	11.4 7.7	* SPEED RESTRICTED IN LEVEL FLIGHT. ** 5000 LB. CARGO or 18 PARATROOPS & 1200 LB. BALLAST IN NOSE.

NOTES:

MANUFACTURERS
C-46A - CURTISS
C-47 & A - DOUGLAS
C-53, C & D - DOUGLAS
C-54A - DOUGLAS
C-60A - LOCKHEED



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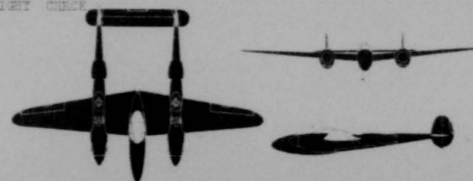
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	PAGE 9
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MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE	
	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 OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE		
P-38E	2	ALLISON V-1710-27 & 29 TURBO CURTISS 11'6" DIA. - 3BL. P.P. HYDROMATIC	T 1150/5 L M 1150/25000 C 1000/28000	S 52' 0" L 37' 10" H 12' 10" T 16' 6" W 328 SQ. FT.	B 12700 C 15000 R 20000 W -	1	MAIN - WING RES. - WING	2 x 90 2 x 60 300 TOT.	1-20MM L-50	150 500 (MAX.)	NOSE - TYPE M1 NOSE - FLEXED	NO BOMBS CARRIED	SCR-183	TECHNICAL ORDER 01-75PB-1.			
P-38F	2	ALLISON V-1710-49 & 53 TURBO CURTISS 11'6" DIA. - 3BL. P.P. HYDROMATIC	T 1225/5 L M 1225/21000 C 1000/27000	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 13000 C 15300 R 20000 W -	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	SCR-183 or SCR-271M	AS ABOVE			
P-38F -1 TO -15 INCL.	2	AS ABOVE	T AS ABOVE M AS ABOVE C AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 13600 C 15900 R 20000 W -	1	MAIN - WING RES. - WING DROPP. - EXT.	2 x 90 2 x 60 2 x 75or 2 x 150 600 TOT.	AS ABOVE	AS ABOVE	AS ABOVE	2-1000 2-500 2-325 2-250 2-100	SCR-271M SCR-515 SCR-522 SCR-535	REFERENCE AS ABOVE * PROVISIONS ONLY. ** SPACE ONLY.			
P-38G -1 TO -15 INCL.	2	ALLISON V-1710-51 & 55 TURBO CURTISS 11'6" DIA. - 3BL. P.P. HYDROMATIC	T 1225/5 L M 1225/21000 C 1100/24000	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 13500 C 15600 R 20000 W -	1	AS ABOVE EXCEPT THAT LAST P-38G-10'S 2-300 GAL. EXT. TANKS	200 CARRY	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE EXCEPT THAT P-38G-10'S ONLY, CARRY 2-1500 BOMBS ADDITIONAL	SCR-271M SCR-515 SCR-522 SCR-535 SCR-595	REFERENCE AS ABOVE * PROVISIONS ONLY. ** SPACE ONLY. *** LAST 179 P-38G-10'S ONLY.			
P-38H&J -1 & -5	2	ALLISON V-1710-89 & 91 TURBO CURTISS 11'6" DIA. - 3BL. P.P. HYDROMATIC	T 1125/5 L M 1125/25000 C 1100/25000	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 13700 C 16000 R 21000 W -	1	MAIN - WING RES. - WING DROPP. - EXT.	2 x 90 2 x 60 2 x 75or 2 x 150or 2 x 300 900 TOT.	AS ABOVE	AS ABOVE	AS ABOVE	2-1600 2-1000 2-500 2-325 2-250 2-100	SCR-271M SCR-515 SCR-522 SCR-535 SCR-595	TECHNICAL ORDER 01-75PP-1. * PROVISIONS ONLY. ** SPACE ONLY. ‡ LIMITED TO 12LOEP. BECAUSE OF INADEQUATE COOLING. (H) CORE TYPE INTERCOOLER INSTALLED IN P-38J-1 & -5.			
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.		LANDING SPEED M.P.H.	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 M.P.H.	RATE OF CLIMB FT./MIN.	HIGH SPEED M.P.H.	RATE OF CLIMB FT./MIN.				TIME TO CLIMB MIN.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.		AT 10000 FT.	AT 25000 FT.				
P-38E	13000 14500 15500	- 1950 2200	2650 1950 2200	83 88 -	1200 1550 -	15000	25000 20000 15000 10000 5000	390 380 365 355 340	2100 2300 2500 2700 2900	360 365 353 340 328	1500 1800 2100 -	11.0 8.0 6.0 4.0 2.0	15500	NONE	300	450	1.5	475	1.5	750	3.0	750	2.7	875	4.4		
P-38F	13500 15000 15800	- 2150 2300	2750 2980 -	85 90 -	1280 1580 1380	15500	SUBSTANTIALLY SAME AS P-38E					15800	NONE	300	400	1.3	425	1.3	700	2.7	675	2.4	900	4.5			
P-38F -1 TO -15 INCL.	13500 15000 15500 17500 19900	- 2150 2270 3040 4000	2750 2980 3050 3350 -	85 90 91 97 -	1280 1580 1360 1830 1800	15900	25000 20000 15000 10000 5000	395 390 376 351 347	2100 2300 2450 2600 2800	380 367 354 340 327	1600 1700 1950 -	12.0 8.8 6.0 4.0 1.8	19900 18000 15900 17000 18000	NONE NONE NONE 1000 2000	900 600 300 300 300	1375 800 400 385 375	5.0 2.9 1.3 1.3 1.3	1150 850 400 675 625	5.0 2.9 1.3 1.3 1.3	2050 1400 700 675 625	9.3 6.1 2.7 2.8 2.8	2050 1425 685 650 600	8.6 5.4 2.4 2.4 2.3	2800 1750 900 850 800	9.9 9.1 4.5 4.3 4.1		
P-38G -1 TO -15 INCL.		SAME	AS	P-38F	P-15	15900	SUBSTANTIALLY SAME AS P-38F-15																				
P-38H&J -1 & -5	13600 15500 17500 19500 20300	- 2000 2600 3500 4000	2750 3050 3500 -	86 93 100 -	1200 1600 2000 2300	16000	25000 20000 15000 10000 5000	400 390 380 370 360	2700 2900 3000 3100 3200	375 360 345 330 315	1100 1500 1600 -	11.0 8.0 5.0 3.0 1.5	20300 18300 16300 18300 19500	NONE NONE NONE 300 3200	900 600 300 300 300	1300 750 350 325 300	5.0 2.9 1.3 1.3 1.3	1350 800 375 575 550	5.0 2.9 1.3 1.3 1.3	1950 1350 650 575 550	9.3 6.1 2.7 2.8 2.7	1950 1350 650 550 525	8.6 5.4 2.4 2.3 2.2	2200 1700 850 750 700	10.0 9.5 4.7 4.0 3.8		
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



P-38
"LIGHTNING"

MANUFACTURED BY LOCKHEED

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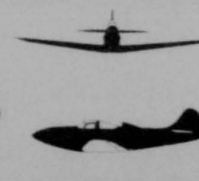
TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																			
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE			
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.				S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT 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
			T-TAKE-OFF	M-MILITARY															
P-39D	1	ALLISON W-1710-55 SINGLE SPEED CURTISS 10'5" DIA. - 38L. F.F. ELECTROMATIC	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	1	WING TOTALS PROP.-BELLY 12-120 1x 75 or 1x 156 or 1x 175 295 TOT.	4-.30 2-.50 1-37MM	*1000 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE ML	NONE	1-500 1-305 1-250 1-100	500	SCR-283	TECHNICAL ORDER 01-110PB-1.				
P-39D-1	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE	4-.30 2-.50 1-37MM	*1000 200 60	WING - FIXED NOSE - FIXED PROP. - TYPE ML	A S	A B O V E		SCR-271A or SCR-522A & SCR-535A	TECHNICAL ORDER 01-110PE-1.				
P-39D-2	1	ALLISON W-1710-65 SINGLE SPEED CURTISS 10'5" DIA. - 38L. F.F. ELECTROMATIC	T 1325/S L M 1150/12000 C 1000/10800	S L H T W	B C R W	1	AS ABOVE	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				
P-39F	1	ALLISON W-1710-55 SINGLE SPEED ARMO PRODUCTS 10'5" DIA. - 38L. F.F. HYDROMATIC	T 1150/S L M 1150/12000 C 1000/10800	S L H T W	B C R W	1	AS ABOVE	4-.30 2-.50 1-37MM	*1000 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE ML	A S	A B O V E		SCR-283	TECHNICAL ORDER 01-110PB-1.				
P-39K-1	1	ALLISON W-1710-65 SINGLE SPEED ARMO PRODUCTS 10'5" DIA. - 38L. F.F. HYDROMATIC	T 1325/S L M 1150/12000 C 1000/10800	S L H T W	B C R W	1	AS ABOVE	A S	A B O V E	A S	A B O V E	A S	A B O V E	SCR-271A or SCR-522A & SCR-535A	TECHNICAL ORDER 01-110PB-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 ON PERFORMANCE				
	GROSS WEIGHT LB.	TO CLEAR 50 FT.		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.				TIME TO CLIMB MIN.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	ENDUR. HOURS	ENDUR. MILES		ENDUR. HOURS	ENDUR. MILES		
		P-39D	6700		-	1250		80	-	1100	25000				320	750	310	1.0	6850	NONE	205	550		2.2	-	-	-
7600	2800	2050	86	1800	1300	20000	312	1350	330	0.1	6800	NONE	276	395	3.0	-	-	-	-	-	1050	5.9					
7800	3000	2100	88	2000	1280	15000	350	2000	315	0.1	8150	NONE	195	400	1.6	-	-	-	-	-	800	1.7					
8150	3200	2200	91	2050	1100	10000	355	2400	310	0.1	7650	NONE	120	275	0.9	450	1.7	350	1.5	-	600	2.9					
8850	3500	-	-	2600	-	5000	330	2950	300	0.1	8150	500	120	225	0.9	-	-	350	1.5	-	150	2.5					
P-39D-1		AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE		
P-39D-2	6700	-	1250	80	-	1100																		AS ABOVE			
7600	2800	2050	86	1800	1300																						
7800	3000	2100	88	2000	1280																						
8150	3200	2200	91	2050	1100																						
8850	3500	-	-	2600	-																						
P-39F		SIMILAR TO P-39D																							AS ABOVE		
P-39K-1		SIMILAR TO P-39D-2																							AS ABOVE		
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

NOTES:

- RANDEM P-39 MODELS MODIFIED FOR AIR/GROUND SUPPORT BY INSTALLATION OF CAMERAS, BELLY ARMOR, ETC.
 * 1000 RDS./MIN MAX. PER GROUND STRAPPING; 300 RDS./MIN NORMAL.
 † MILITARY POWER AVAILABLE FOR 15 MINUTES.

RED FIGURES ARE PRELIMINARY. SUBJECT TO REVISION AFTER FLIGHT CHECK



P-39
"AIRACOBRA"

MANUFACTURED BY BELL

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
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PAGE 11																	
DATE 20 SEPT. 1943																	
MODEL & BLOCK NO.	NUMBER	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-BASE		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.
P-39L-1	1	ALLISON W-1710-63 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. F.F., HYDROMATIC	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 PROP.-BELLY 1 x 75 or 1 x 156 or 1 x 175 295 TOT.	4-30 2-50 1-37MM	*1000 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE W/L	NONE	1-500 1-325 1-250 1-100	500	SCR-27LN or SCR-522A & SCR-535A	TECHNICAL ORDER 01-110PG-1. * 1000 RDS./GUN MAX. FOR GROUND STRAPPING; 300 RDS. NORMAL		
P-39M-1	1	ALLISON W-1710-63 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. F.F., HYDROMATIC	T 1200/S L M 1125/15500 C 1000/11000	S AS ABOVE L AS ABOVE H AS ABOVE T W	B AS ABOVE C AS ABOVE R AS ABOVE W	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110PH-1.		
P-39N -0 TO -5 INCL.	1	ALLISON W-1710-65 SINGLE SPEED AERO PRO DUCTS 11'7" DIA. - 3BL. F.F., HYDROMATIC	T AS ABOVE M AS ABOVE C	S AS ABOVE L AS ABOVE H AS ABOVE T W	B 6400 C 7600 R 9200 W -	1	WING TOTALS 8-87 PROP.-BELLY 1 x 75 or 1 x 156 or 1 x 175 262 TOT.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	SCR-27LN or SCR-522A & SCR-535A SCR-695 * TECHNICAL ORDER 01-110PM-1. * SCR-695 REPLACES SCR-535A ON P-39N-5 ONLY. ** 1st. 166 P-39N-0 BUILT-IN FUEL 120 GAL.		
P-39Q -1 TO -15 INCL.	1	AS ABOVE	T AS ABOVE M AS ABOVE C	S AS ABOVE L AS ABOVE H AS ABOVE T W	B AS ABOVE C AS ABOVE R AS ABOVE W	1	AS ABOVE EXCEPT: BUILT-IN FUEL P-39Q-5 --- 110 GAL. P-39Q-10, -15=120 GAL.	2-50 2-50 1-37MM	* 250 200 30	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	SCR-27LN or SCR-522A & SCR-695 TECHNICAL ORDER 01-110PN-1. * GROUND CHARGE (300 ROUNDS PER GUN).		
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		STD. ALT. FT.	MIL. POWER HIGH M.P.H.	RATE OF CLIMB FT./MIN.	MAX. CONTIN. POWER HIGH M.P.H.	RATE OF CLIMB FT./MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE				
		T.O. DIST. FT.	LAND. DIST. FT.	LANDING SPEED M.P.H.	T.O. DIST. FT.										LAND. DIST. FT.	WEIGHT LB.	AT 10000 FT. RANGE MILES	AT 25000 FT. ENDUR. HOURS	AT 10000 FT. RANGE MILES	AT 25000 FT. ENDUR. HOURS	AT 10000 FT. RANGE MILES	AT 25000 FT. ENDUR. HOURS	
P-39L-1	7000 7400 7900 8400 9100	- 1950 2100 2750 3000	1950 2000 2100 2900 3600	84 86 89 96 -	1130 1230 1330 1430 -	7900	25000 20000 15000 10000 5000	850 517 340 251 230	1250 1250 1390 1390 1390	310 310 310 310 310	11.9 8.7 6.6 4.2 3.1	9100 8400 7900 8400	NONE NONE NONE NONE 500	295 195 120 120	250 250 250 250	1.5 1.5 1.5 1.5	300 300 300 300	1.0 1.0 1.0 1.0	300 300 300 300	1.7 1.7 1.7 1.7	ALL PERFORMANCE ESTIMATED		
P-39M-1	7000 7400 7900 8400 9100	- 1950 2100 2750 3000	1950 2000 2100 2900 3600	84 86 89 96 -	1130 1230 1330 1430 -	7900	25000 20000 15000 10000 5000	850 517 340 251 230	1250 1250 1390 1390 1390	310 310 310 310 310	11.9 8.7 6.6 4.2 3.1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE
P-39N -0 TO -5 INCL.	6800 7600 8100 8700 8800	- 1950 2050 2500 2700	1950 2050 2150 2900 3600	83 88 91 96 -	1100 1300 1400 1400 -	7600	25000 20000 15000 10000 5000	850 517 340 251 230	1175 1525 1450 1450 1450	350 325 325 340 300	11.9 8.5 6.1 4.0 2.0	8750 8600 8050 7550 8050	NONE NONE NONE NONE 500	262 213 162 87 87	500 450 350 175 150	2.0 1.8 1.1 0.6 0.6	350 300 250 300 300	1.5 1.5 1.5 1.0 1.0	300 300 300 300 300	1.7 1.7 1.7 1.7 1.7	SAVE AND ENLARGE OF 1st. 106 P-39N-0 BUILT-IN FUEL AS P-39N-10 & -15 LISTED ABOVE.		
P-39Q -1 & -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	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	PERFORMANCE OF P-39Q-10 MODEL. PERFORMANCE OF P-39Q-15 VARIANTS AT P-39N-10 & -15 LISTED ABOVE.	
P-39Q -10 & -15	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	ALL PERFORMANCE ESTIMATED	

NOTES:

RANDOM P-39 MODELS MODIFIED FOR AIR/GROUND SUPPORT BY INSTALLATION OF CAMERAS, BELLY ARMOR, ETC.
* MILITARY POWER AVAILABLE FOR 15 MINUTES.

SEE FIGURES AND PREDICAMENT SUBJECT TO REVISION AFTER FLIGHT CHECK



P-39
"AIRACOBRA"

MANUFACTURED BY BELL

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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DATE 20 SEPT. 1942

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 US 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	1	ALLISON V-1710-39 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. F.F. ELECTROMATIC	T 1150/ S 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 12000	1	REAR - WING FRONT - WING FUSELAGE PROP. - BELLY	1 x 52 1 x 37 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-274A	TECHNICAL ORDER OI-250P-1. * NO EXTERNAL WING BOMBS ON EARLY MODELS.
P-40F -1 TO -20 INCL.	1	PACKARD V-1650-1 SINGLE STG. - 2 SPD CURTISS 11'0" DIA. - 3BL. F.F. ELECTROMATIC	T 1300/ S L M 1220/11500 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 12000	1	REAR - WING FRONT - WING FUSELAGE PROP. - 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	A S	A B O V E	A S	A B O V E	SCR-274B or SCR-522A & SCR-535A	TECHNICAL ORDER OI-250P-1. * P-40F-1 LENGTH SAME AS P-40E. ALL SUBSEQUENT MODELS HAVE EXTENDED FUSELAGE.
P-40K -1 TO -15 INCL.	1	ALLISON V-1710-73 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. F.F. ELECTROMATIC	T 1325/ S L M 1150/11800 C 1000/11000	S L H AS ABOVE T W	B 6950 C 8400 R 10000 W 12000	1	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	TECHNICAL ORDER OI-250P-1. * P-40K-1 & -5 LENGTH SAME AS P-40E. ALL SUBSEQUENT MODELS HAVE EXTENDED FUSELAGE.	
P-40L -1 TO -20 INCL.	1	PACKARD V-1650-1 SINGLE STG. - 2 SPD CURTISS 11'0" DIA. - 3BL. F.F. ELECTROMATIC	T 1300/ S L M 1220/11900 C 1080/ 9500 1010/16000	S L H AS ABOVE T W	B 7000 C 8500 R 10000 W 12000	1	REAR - WING FUSELAGE PROP. - BELLY	1 x 54 1 x 66 1 x 52, 75 150 or 170 321 TOT.	4-.50	201 (average)	AS ABOVE	A S	A B O V E	AS ABOVE	TECHNICAL ORDER OI-250P-1. * P-40L-1 FUEL AND ARMAMENT SAME AS P-40F SERIES.	
P-40M -1 TO -10 INCL.	1	ALLISON V-1710-81 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. F.F. ELECTROMATIC	T 1200/ S L M 1125/11600 C 1000/13800	S L H AS ABOVE T W	B 6950 C 8400 R 10000 W 12000	1	REAR - WING FRONT - WING FUSELAGE PROP. - BELLY	1 x 54 1 x 37 1 x 66 1 x 52, 75 150 or 170 327 TOT.	6-.50	281 (average)	AS ABOVE	A S	A B O V E	AS ABOVE	TECHNICAL ORDER OI-250P-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 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.	LANDING SPEED MPH	T.O. DIST. FT.			LAND. DIST. FT.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	HIGH RATE 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						
P-40E & E-1	7500 8100 8400 8700 9100	- 2800 3125 3600 4300	1700 1500 1850 - -	81 84 85 - -	1050 1600 1800 1950 -	8400 8400 8400 8400 8400	25000 20000 15000 10000 5000	- 330 362 346 335	- 980 1650 2170 2100	265 300 312 313 296	500 # # # #	18.2 11.5 7.6 4.8 2.4	9100 8700 9200	NONE NONE 500	201 149 149	400 300 275	1.5 1.1 1.1	- 700 550 500	3.2 2.2 2.2	- - - - -	800 650 700 600	4.5 3.1 3.1 3.0	* MILITARY POWER FOR 15 MINUTES.	
P-40F -1 TO -20 INCL.	7500 8850 9200 9350 9550 10000	- 3700 4150 4400 4700 5750	1700 1900 2150 2550 2700 3100	81 - - - - -	1050 1250 1300 1350 1400 -	8500 8500 8500 8500 8500	25000 20000 15000 10000 5000	350 364 352 340 320	1000 1100 1860 2210 2160	500 320 332 320 300	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 1.2 1.3	- 550 575 425 350	2.3 2.0 1.8 1.8 1.8	800 700 600 500	3.4 3.0 2.2 2.2 2.2	- - - - -	1500 1000 875 700 600	8.0 5.0 4.4 3.1 3.2	* MILITARY POWER FOR 5 MINUTES ONLY.
P-40K -1 TO -15 INCL.	7500 8800 9150 9300 9500 10000	- 2950 3150 3200 3350 -	1700 1950 2000 2050 2100 -	81 - - - - -	1050 1300 1350 1400 -	8400 8400 8400 8400 8400	25000 20000 15000 10000 5000	- 330 362 346 335	- 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 1.2	- 900 750 600 550	3.9 3.4 2.4 2.4	- - - -	1400 1000 900 700 600	7.0 5.5 4.8 3.4 3.3	* MILITARY POWER AVAILABLE FOR 15 MINUTES.	
P-40L -1 TO -20 INCL.	7500 8400 8800 9300 9500 10000	SUBSTANTIALLY SAME AS P-40F		81 - - - -	1050 1200 1300 1350 -	8500 8500 8500 8500 8500	SUBSTANTIALLY SAME AS P-40F		500 300 320 320 300	18.5 11.2 7.5 4.9 2.4	10000 9750 9100 8600 9100	NONE NONE NONE NONE 700	327 291 195 120 120	- 450 275 225	- 1.6 0.9 0.9	- 425 300 250	1.8 1.3 1.3 1.3	650 425 350	2.8 1.6 1.6	- - - -	1500 1200 800 500 425	8.0 6.2 4.1 2.2 2.3	P-40L-1 ONLY SAME AS P-40F SERIES.	
P-40M -1 TO -10 INCL.	7500 8400 8800 9300 9500 10000	- 2350 2650 3150 4000 -	1700 1850 1950 2000 -	81 85 - - -	1050 1200 1300 1350 -	8400 8400 8400 8400 8400	25000 20000 15000 10000 5000	353 363 361 346 328	850 1500 2025 2150 2070	330 335 338 320 308	14.7 10.2 7.2 4.5 2.4	10000 9300 8800 9300	NONE NONE NONE 700	327 232 225 157	450 750 325 300	1.8 2.9 1.8 1.2	- 775 475 375	3.6 3.6 2.4 2.3	- - 550 -	1300 950 700 575	6.8 5.6 3.6 3.3	* MILITARY POWER AVAILABLE FOR 15 MINUTES.		

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:

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



P-40
"WARHAWK"

MANUFACTURED BY CURTISS

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PAGE 13
DATE 20 SEPT. 1943

TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.				S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-RECD LIM W-WAR MAX	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY			MAX. LOAD LB.	TYPE
			T-TAKE-OFF M-MILITARY C-CONTINUOUS	M-1200/SL M-1125/11600 C-1000/13800														
P-40N-1	1	ALLISON V-1710-S1 SINGLE SPEED CURTISS 11'0" DIA. - 3 BL. P. P., ELECTROMATIC	M 1200/SL M 1125/11600 C 1000/13800	S 37'4" L 33'4" H 12'4" T 8'2" W 236 sq. ft.	B 6400 C 7725 R 11000	1	REAR - WING PUSHLAGE 1 x 54 1 x 66 DROPP.-BELLY 1x52.75, 150 or 175 290 TOT.	4-50	201 (average)	WING - FIXED	NONE	1-500 & 2-100 or 6- 20. 1-325 1-250 1-100	700	SCR-271A or SCR-522A & SCR-695	TECHNICAL ORDER 01-25CN-1.			
P-40N -5 TO -15 INCL.	1	AS ABOVE	AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 6700 C 8400 R 11500	1	REAR - WING FRONT - WING PUSHLAGE 1 x 54 1 x 37 1 x 66 DROPP.-BELLY 1x75, 150 or 2-225 * 507 TOT.	6-50	261 (average)	AS ABOVE	NONE	* 1-500 & * 2-500 or * 2-100 or * 6- 20. 1-325 1-250 1-100	1500	SCR-271A SCR-522A & SCR-535A SCR-695	REFERENCE AS ABOVE *PROVISIONS FOR 2-225 GAL. PERRYING 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			
				S L H T W	B C R W													
				S L H T W	B C R W													
				S L H T W	B C R W													
				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'		LANDING SPEED MPH	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 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.
		MILES	HOURS		MILES	HOURS			MILES	HOURS	MILES	HOURS				MILES	HOURS	MILES	HOURS	MILES	HOURS		MILES
P-40N-1	7000	-	1650	-	1000	25000	357	1225	335	12.4	8850	NONE	290	-	-	-	-	-	-	1500	4.5		
	7725	1800	1750	-	1100	20000	365	1450	344	9.1	8250	NONE	195	350	1.5	590	2.4	690	3.0	725	3.5	800	4.8
	8250	2250	1850	-	1300	15000	362	2100	345	6.7	7725	NONE	120	225	0.8	325	1.4	400	1.7	425	1.9	500	2.8
	8425	2400	1900	-	1400	10000	345	2525	327	4.1	7725	NONE	120	225	0.8	325	1.4	400	1.7	425	1.9	500	2.8
	8850	2750	-	-	1600	5000	325	2425	308	2.1	8425	700	120	200	0.8	275	1.4	390	1.7	390	1.9	480	2.6
P-40N -5 TO -15 INCL.	7000	-	1650	-	1000	25000	353	900	330	13.0	11400	NONE	607	-	-	-	-	-	-	2000	26.1		
	8400	2420	1900	-	1400	20000	363	1550	336	8.8	9500	NONE	327	-	-	-	-	-	-	-	-	-	
	8900	2750	-	-	1550	15000	361	2130	337	6.0	8900	NONE	232	-	-	-	-	-	-	-	-	-	
	9100	2950	-	-	1800	10000	346	2230	320	4.7	8400	NONE	157	-	-	-	-	-	-	-	-	-	
	9500	3150	-	-	2000	5000	325	2120	308	2.4	9100	700	157	-	-	-	-	-	-	-	-	-	
	11400	5150	-	-	3050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:

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



P-40
"WARHAWK"

MANUFACTURED BY CURTISS

CONFIDENTIAL

THIS PAGE IS UNCLASSIFIED

TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 14
DATE 20 SEPT. 1943

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-47D & G -I TO -10 INCL.	PRATT-WHITNEY R-2800-21 TURBO CURTISS 12" DIA. - LBL. MULTI-POS. - ELEC.	T 2000/SL M 2000/27000 C 1625/29000	S 40' 19" L 36' 11" H 14' 2" T 15' 6" W 300 sq. ft.	B 10700 C 13500 R 15000 W -	1	MAIN - FUSEL. 1 x 205 AUX. - FUSEL. 1 x 100 *PROP. - BELLY 1 x 200 (SEE REMARKS) 505 TOT.	6 or 8	.50	267	WING - FIXED	NONE	**	NONE	SCR-274N SCR-522A ^{OT} & SCR-535A SCR-695 ^{OT}	TECHNICAL ORDER 01-6580-1. * EARLY MODELS CARRY 1-200 GAL. DROPPABLE FUEL TANK. LATEST MODELS CARRY 1-75 GAL. BELLY TANK OR 2-150 GAL. EXTERNAL WING TANKS. ** SOME MODELS HAVE 8-7 SHACKLES FOR EXTERNAL BOMBS.
		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 LB.	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.	STD ALT FT.	HTGH SPEED MPH	RATE OF CLIMB FT/MIN.				HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	TIME TO CLIMB MIN.	AT 10000 FT. RANGE MILES	AT 10000 FT. ENDUR. HOURS	AT 25000 FT. RANGE MILES	AT 25000 FT. ENDUR. HOURS		AT 10000 FT. RANGE MILES	AT 10000 FT. ENDUR. HOURS	AT 25000 FT. RANGE MILES
P-47D & G -I TO -10 INCL.	11000 12500 13500 14000 15000	- 3100 3300 3400 3500	2200 2500 2600 2800 -	100 134 136 135 -	2000 2500 1700 1800 -	1200 1500 13500	30000 25000 20000 15000 10000 5000	420 416 400 384 368 352	- 1750 2150 2200 2300 2350	370 360 330 310 290 275	800 1100 1300 1500 -	20.0 15.0 11.0 7.2 4.3 2.2	15000 13500	NONE NONE	505 305	605 350	2.2 1.3	650 375	2.2 1.3	1100 650	4.3 2.5	1125 675	4.1 2.3	1475 875	5.2 3.9

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:

END FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK



P-47
"THUNDERBOLT"

MANUFACTURED BY REPUBLIC - CURTISS

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
CONFIDENTIAL																	
PAGE 15																	
DATE 20 SEPT. 1943																	
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		
P-51 -1 & -2	1	ALLISON V-1710-39 SINGLE SPEED CURTISS 10'9" DIA. -3BL. P.P., ELECTROMATIC	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 8800 R 10500 W -	1	MAIN-R. WING MAIN-L. WING RES.-L. WING	1 x 90 1 x 59 1 x 31	180 TOT.	4-20MM	125	WING - TYPE M2	NO BOMBS CARRIED	SCR-271M & SCR-535	TECHNICAL ORDER 01-60JB-1.		
P-51A -1 TO -10 INCL.	1	ALLISON V-1710-81 SINGLE SPEED CURTISS 10'9" DIA. -3BL. P.P., ELECTROMATIC	T 1200/S L M 1125/11600 C 1000/13800	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B 6850 C 8500 R 10500 W -	1	MAIN-R. WING MAIN-L. WING RES.-L. WING EXT. - WINGS	1 x 90 1 x 59 1 x 31 2 x 75	180 TOT.	2-.50 2-.50	280 350	OUTBL. -WINGS (FIXED)	NONE 2-500 2-325 2-250 2-100	SCR-271M SCR-535 SCR-515 SCR-522 SCR-625	TECHNICAL ORDER 01-60JC-1. * PROVISIONS ONLY. ** SPACE PROVIDED.		
P-51B -1 & -5 P-51C -1	1	PACKARD V-1650-3 2-SPERD HAMILTON STD. 11'2" DIA. -4BL. P.P., HYDROMATIC	T 1300/S L M 1520/13000 C 1300/21000 1210/16750 1080/27750	S 37'0" L 32'3" H 13'8" T 11'10" W 233 SQ. FT.	B 7300 C 9000 R 11000 W -	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-60JD-1. * MAX. THROUGHPUT RATINGS		
			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				
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH	GROUND-RUN		STD. ALT. FT.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN	HIGH SPEED MPH	RATE OF CLIMB FT/MIN	TIME TO CLIMB MIN.	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.										AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.		AT 25000 FT.	RANGE MILES	ENDUR. HOURS	RANGE MILES
P-51 -1 & -2	7500 8000 8500 8800 9000	- 2600 3000 3200 3400	- 2600 3100 3250 -	88 91 94 -	1700 1900 2100 2250 -	8500 8500 8500 8500 8500	25000 20000 15000 10000 5000	337 367 387 379 357	800 1300 1800 2000 2000	315 373 313 352 332	530 # # # #	18.0 10.9 7.6 5.0 2.5	8800 9600 8600 9100 9600	NONE NONE NONE 500 1000	180 330 180 180 180	1225 775 475 450 425	1.5 2.9 1.5 1.5 1.5	700 - - - 725	2.6 - - - 3.2	700 - - - -	2.7 - - - 3.2	- - - - -	- - - - -	1000 2200 1550 1000 900 800	4.5 10.3 7.6 5.0 4.3 4.0
P-51A -1 TO -10 INCL.	8000 8600 9100 9600 10300	- 3600 3850 3200 3550	- 3150 3100 - -	90 93 95 -	1800 2100 2100 - -	8500 8500 8500 8500 8500	25000 20000 15000 10000 5000	337 367 387 379 357	800 1300 1800 2000 2000	315 373 313 352 332	530 # # # #	18.0 10.9 7.6 5.0 2.5	10300 9600 8600 9100 9600	NONE NONE NONE 500 1000	180 330 180 180 180	1225 775 475 450 425	1.5 2.9 1.5 1.5 1.5	700 - - - 725	2.6 - - - 3.2	700 - - - -	2.7 - - - 3.2	- - - - -	- - - - -	2200 1550 1000 900 800	10.3 7.6 5.0 4.3 4.0
P-51B -1 & -5 P-51C -1	8000 9300 9800 10000 10300 11000	- 3100 2900 - - -	- 2700 2800 - -	90 93 95 -	1750 1800 1650 - -	9000 9000 9000 9000 9000	30000 25000 20000 15000 10000 5000	440 425 420 415 390 360	1950 3600 2700 3050 3300 3350	395 395 395 380 395 395	530 # # # # #	10.8 8.6 6.7 4.9 3.8 1.6	11000 10000 9300 9800 10300	NONE NONE NONE 500 1000	180 330 180 180 180	1300 875 525 485 475	1.6 3.2 1.7 1.7 1.7	1725 1125 650 600 585	5.6 3.8 1.9 2.0 2.0	1800 1200 750 650 635	7.0 5.0 2.8 2.5 2.6	- - - - -	- - - - -	3250 1775 775 900 825	11.1 8.4 5.0 4.7 4.3

NOTES:

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



P-51
"MUSTANG"

MANUFACTURED BY NORTH AMERICAN

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PAGE 16
DATE 20 SEP 1973

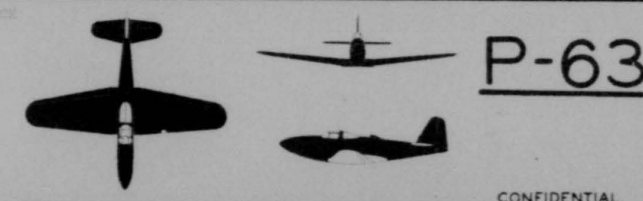
TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE
	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-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	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	TYPE		
P-63A -1 & -5	ALLISON V-1710-93 2 - STAGE AERO PRODUCTS 11.7" DIA. - LBL. P.P. HYDRA-MATIC	T 1325/8 L M 1150/24200 C 1000/20000	S 38'4" L 32'8" H 12'3" T 11'7" W 248 sq. ft.	B 6925 C 8350 R 8900	1	MAIN-WING PROP-BELLY	2 x 68 1 x 75 1 x 275 311 TOT.	1-37MM 2-.50 2-.50	30 250 200	PROP. - TYPE M4 WING - FIXED NOSE - FIXED	NONE	1-500 1-325 1-250 1-100	500	SCR-271A or SCR-522 SCR-695 RC-198 METROLA # 128	TECHNICAL CRIBS 01-110PW-1 * MIL. EMERGENCY BATTERY	
		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 LB.	TO CLEAR 50 FT.		LANDING SPEED MPH	GROUND-RUN		STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER			TAKE OFF WEIGHT LB.	BOMBS CARGO #	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE			
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.		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 ENDUR.	RANGE ENDUR.
P-63A -1 & -5	7500 7700 8000 8500 8700	- 1700 1860 2110 2520	1720 1800 1900 -	- 1070 1180 1320 1520	1080 1110 1190 -	30000 25000 20000 15000 10000 5000	8350	1200 1200 1200 1200 1200	1500 1500 1500 1500 1500	1500 1500 1500 1500 1500	11.5 11.5 11.5 11.5 11.5	9470 8800 8280 8050 8800	NONE NONE NONE NONE 500	311 211 136 100 136	800 800 800 800 800	3.2 2.1 1.8 1.5 1.8	- - - - -	1100 700 500 350 150	4.5 3.2 2.1 1.1 2.0	- - - - -	1100 900 700 500 500	7.5 4.8 3.2 2.2 3.0	* MILITARY POWER AVAILABLE FOR 15 MINUTES.

NOTES:

ALL FIGURES ARE PRELIMINARY, SUBJECT TO REVISION AFTER FLIGHT DATA



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