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EE-393

42584

TACTICAL PLANNING

Characteristics & Performance Chart

*918
95
Airplane*
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

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943

PRACTICAL PLANNING

Characteristics & Performance Chart

9570
airplanes
BOMBERS

CARGO

FIGHTERS

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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 time to time 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. DOES NOT INCLUDE PROTRUDING GUNS.
LENGTH: MAXIMUM IN THREE POINT POSITION.
HEIGHT: STANDARD AERODYNAMIC SURFACE AREA.
WING 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
 (At 3000 ft.)
GROSS WEIGHT: ARBITRARY VALUES FOR REFERENCE ONLY
 TO CLEAR 50': 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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BOEING

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17P-BO -1 to -27 incl.	1-.30 2-.50 2-.50 2-.50	500 300 400 575 500	a NOSE.....PLEX. SIDE WAIST-PL. U. TURRET...A1 L. TURRET...A2 TAIL.....PLEX.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17P-BO -30 to -50 incl.	NONE 1) 2) 2) 2)	NONE 275 300 400 575 500	b NOSE.....PLEX. RADIO COMPART. SIDE WAIST-PL. U. TURRET...A1 L. TURRET...A2 TAIL.....PLEX.	AS ABOVE	2-4000 2-2000 2-1600 2-1000	6-1600 2-4000	AS ABOVE
B-17P-BO -55 to -60 incl. slst.30 (-85)	2) 1) 2) 2) 2)	300 275 300 400 575 500	AS ABOVE	A S A B O V E	A S A B O V E		WING TIP FUEL TANK ON (-80) & SUBSQNT.
B-17P-BO last 70 (-85) to -130 incl.	2) 2) 2) 2)	300 275 300 400	AS ABOVE	AS ABOVE EXCEPT THAT EXTERNAL BOMB RACKS DELETED AFTER 15th. (-95)			3630
B-17G-BO -1 to -60 incl.	2) a 1) 2) 2) 2)	400 275 300 400 575 500	CHIN TURRET...A16 RADIO COMPART. SIDE WAIST-PL. U. TURRET...A1 L. TURRET...A2 TAIL.....PLEX.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE (PROV. ONLY)	9600	AS ABOVE

NOTES: a NOSE GUN DELETED AFTER 1st. (-20)
b RADIO COMPARTMENT GUN ADDED AFTER 16th. (-30)
c 2 (50 CAL.) NOSE GUNS BEING ADDED AT MOD. CENTERS

DOUGLAS (LONG BEACH)

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17P-DL -1 to 1st. 13 (-10) incl.	1-.30 2-.50 2-.50 2-.50	500 300 400 575 500	a NOSE.....PLEX. SIDE WAIST-PL. U. TURRET...A1 L. TURRET...A2 TAIL.....PLEX.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17P-DL Last 12 (-10) to (-20) incl.	2) 1) 2) 2) 2)	300 275 300 400 575 500	b NOSE.....PLEX. RADIO COMPART. SIDE WAIST-PL. U. TURRET...A1 L. TURRET...A2 TAIL.....PLEX.	AS ABOVE	EXCEPT PROVISIONS (only) FOR EXTERNAL BOMB RACKS ON (-20) & SUBSEQUENT		AS ABOVE
B-17P-DL -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-DL Last 19 (-35) to (-65) incl.	3) 1) 2) 2) 2)	.50	A S A B O V E	A S A B O V E			AS ABOVE
B-17G-DL -1 to -40 incl.	2) c 1) 2) 2) 2)	400 275 300 400 575 500	CHIN TURRET...A16 RADIO COMPART. SIDE WAIST-PL. U. TURRET...A1A L. TURRET...A2 TAIL.....PLEX.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	AS ABOVE

NOTES: a NO NOSE GUN ON 1st. 13 (-10).
b 6-1600 LB. BOMBS ADDED TO (-10) ONLY.
c 2 (50 CAL.) NOSE GUNS BEING ADDED AT MOD. CENTERS.

VEGA

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL (MAXIMUM) U.S. GAL.
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17P-VE -1 to -10 incl.	1-.30 CAL. (300 REG.)	NOSE GUN IN 1st. 47 AIRPLACES. NO NOSE GUN IN NEXT 33 (thru -10). NO RADIO COMP. GUN UNTIL (-15). OTHER ARMAMENT SAME AS BELOW.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550	
B-17P-VE -15 & -20	2) 1) 2) 2) 2)	300 275 300 400 575 500	a NOSE.....PLEX. RADIO COMPART. SIDE WAIST-PL. U. TURRET...A1 L. TURRET...A2 TAIL.....PLEX.	AS ABOVE EXCEPT THAT LAST 31 (-20) ONLY HAVE EXTERNAL BOMB RACKS.			AS ABOVE
B-17P-VE -25 & -30	A S	A B O V E	AS ABOVE	2-4000 2-2000 2-1600 2-1000	6-1600 2-4000	17600	WING TIP FUEL TANK ON (-30) & SUBSEQUENT
B-17P-VE -35 to -50 incl.	3) 1) 2) 2) 2)	.50	A S A B O V E	AS ABOVE	NONE	9600	3630
B-17G-VE -1 to -40 incl.	2) c 1) 2) 2) 2)	400 275 300 400 575 500	CHIN TURRET...A16 RADIO COMPART. SIDE WAIST-PL. U. TURRET...A1A L. TURRET...A2 TAIL.....PLEX.	AS ABOVE	(PROV. ONLY)	AS ABOVE	AS ABOVE

NOTES: a 6-1600 LB. BOMBS ADDED TO (-10) ONLY.
b EXTERNAL BOMB RACKS DELETED ON LAST 11 (-30).
c 2 (50 CAL.) NOSE GUNS BEING ADDED AT MOD. CENTERS

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CONSOLIDATED (SAN DIEGO)

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-24D-00 D to 1st. 94 (-15) incl.	1) 200 2) .50 2) 400		NOSE.....P.L.E.L. U.TURBENT...A38 TAIL TURBENT-A6	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	2364
B-24D-00 Last 36 (-15) & (-20)	1) 200 2) .50 2) 400		NOSE.....P.L.E.L. U.TURBENT...A38 TUNNEL...P.L.E.L. TAIL TURBENT-A6	A S	A B O V E		3614
B-24D-00 -25 to 1st. 26 (-140) incl.	3) 100 2) 250 2) .50 1) 400 2) 400		NOSE.....P.L.E.L. SIDE WAIST...P.L. U.TURBENT...A38 TUNNEL...P.L.E.L. L.TURBENT...A13 TAIL TURBENT-A6	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	AS ABOVE
B-24D-00 Last 9 (-140) to (-170) incl.	3) 100 2) 250 2) .50 2) 400 2) 400		NOSE.....P.L.E.L. SIDE WAIST...P.L. U.TURBENT...A38 L.TURBENT...A13 TAIL TURBENT-A6	A S	A B O V E		AS ABOVE
B-24D-00 -1 to -25 incl. & SUBSEQUENT	2) 400 2) 250 2) .50 2) 400 2) 400		NOSE TURBENT-A16 SIDE WAIST...P.L. U.TURBENT...A38 L.TURBENT...A13 TAIL TURBENT-A6	A S	A B O V E		AS ABOVE

NOTES: * 8-1600 LB. BOMBS NOT ON (-25) ONLY.

CONSOLIDATED (FT. WORTH)

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-24D-00 -1 & -5	3) 100 2) 250 2) .50 1) 400 2) 400		NOSE.....P.L.E.L. SIDE WAIST...P.L. U.TURBENT...A38 TUNNEL...P.L.E.L. TAIL TURBENT-A6	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24D-00 -10 to -20 incl.	A S		A B O V E				AS ABOVE
B-24D-00 -1 to -15 & SUBQ.	2) 400 2) 250 2) .50 2) 400 2) 400		NOSE TURBENT-A16 SIDE WAIST...P.L. U.TURBENT...A38 L.TURBENT...A13 TAIL TURBENT-A6	* A S	A B O V E		AS ABOVE
B-24D-00 -10 to -25 incl.	3) 100 2) 250 2) .50 1) 400 2) 400		NOSE.....P.L.E.L. SIDE WAIST...P.L. U.TURBENT...A38 TUNNEL...P.L.E.L. TAIL TURBENT-A6	* A S	A B O V E		AS ABOVE
B-24D-00 -1 & SUBSEQUENT	2) 400 2) 250 2) .50 2) 400 2) 400		NOSE TURBENT-A16 SIDE WAIST...P.L. U.TURBENT...A38 L.TURBENT...A13 TAIL TURBENT-A6	* A S	A B O V E		AS ABOVE

NOTES: * SUBSEQUENT B-24's, B's & B's HAVE B-10 SHACKLES FOR 8-1600 LB. BOMBS STARTING ON 2101st. PER B-24-0000 SET.

DOUGLAS (TULSA)

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-24D-00 (-1)	1) 200 2) .50 2) 400		NOSE.....P.L.E.L. U.TURBENT...A38 TAIL TURBENT-A6	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	2814
B-24D-00 -10 to -25 incl.	3) 100 2) 250 2) .50 1) 400 2) 400		NOSE.....P.L.E.L. SIDE WAIST...P.L. U.TURBENT...A38 TUNNEL...P.L.E.L. TAIL TURBENT-A6	A S	A B O V E		3614
B-24D-00 -1 to -10 & SUBQ.	2) 400 2) 250 2) .50 2) 400 2) 400		NOSE TURBENT-A16 SIDE WAIST...P.L. U.TURBENT...A38 L.TURBENT...A13 TAIL TURBENT-A6	* A S	A B O V E		AS ABOVE

NOTES: * B-10 SHACKLES FOR 8-1600 LB. BOMBS STARTS ON 2101 st. PER B-24-0000 SET.

FORD

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-24D-00 (-1)	1) 200 2) .50 2) 400		NOSE.....P.L.E.L. U.TURBENT...A38 TAIL TURBENT-A6	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	2364
B-24D-00 (-5)	1) 200 2) .50 2) 400		NOSE.....P.L.E.L. SIDE WAIST...P.L. U.TURBENT...A38 TUNNEL...P.L.E.L. TAIL TURBENT-A6	A S	A B O V E		AS ABOVE
B-24D-00 -10 to -25 incl.	3) 100 2) 250 2) .50 1) 400 2) 400		NOSE.....P.L.E.L. SIDE WAIST...P.L. U.TURBENT...A38 TUNNEL...P.L.E.L. TAIL TURBENT-A6	A S	A B O V E		3614
B-24D-00 -1, -5 & SUBSQ.	2) 400 2) 250 2) .50 2) 400 2) 400		NOSE TURBENT-A16 SIDE WAIST...P.L. U.TURBENT...A38 L.TURBENT...A13 TAIL TURBENT-A6	A S	A B O V E		AS ABOVE

NOTES: * B-10 SHACKLES FOR 8-1600 LB. BOMBS STARTS ON 2101 st. PER B-24-0000 SET.

NORTH AMERICAN (DALLAS)

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-24D-00 (0)	3) 250 TOT. 2) 250 2) .50 2) 400 2) 400		NOSE.....P.L.E.L. SIDE WAIST...P.L. U.TURBENT...A38 L.TURBENT...A13 TAIL TURBENT-A6	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24D-00 -1 & -5	2) 400 2) 250 2) .50 2) 400 2) 400		NOSE TURBENT-A16 SIDE WAIST...P.L. U.TURBENT...A38 L.TURBENT...A13 TAIL TURBENT-A6	A S	A B O V E		AS ABOVE
B-24D-00 -10 to -20 incl.	A S		A B O V E				AS ABOVE

NOTES: * LOWER BALL TURBENT ON 54a. & SUBSEQUENT; NO TUNNEL ON 1st. & 2nd. ARTICLES.

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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.	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 (SEE NOTE "A")
		SUPERCHARGER PROP. MFR. TYPE	T-TAKE-OFF M-MILITARY C-CONTINUOUS	L-LENGTH H-HEIGHT T-TREAD W-WING AREA			C-COMBAT R-REC'D LIM W-WAR MAX						NO. & SIZE OR STATION			NO. & SIZE OR CAPACITY		
B-24D&E	4	PRATT-WHITE R-1830-13 TURBO HAMILTON STD. 11" DIA. - 3 BL. P.F., HYDRA-MATIC	T 1200/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 31500 C 56000 R 56000 W 64000*	8	MAIN - WINGS	12-2364	3 1 2	100 250 400 400	NOSE - MEX. SIDE WAIST-PL. UPPER TURRET TUNNEL - MEX. TAIL TURRET	1-2000 8-1600 8-1000 12-500 12-250 20-100	NONE	12800	STD. 2LV *AN/ARR-1 *RC-103	TECHNICAL ORDER 01-580-1. * INSTALLED IN SOME MODELS.		
B-24D&E	4	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	8	MAIN - WINGS BOMB BAY	12-2364 2x 400 3164 TOT.	3 1 2	100 250 400 400	NOSE - MEX. SIDE WAIST-PL. UPPER TURRET LOWER BALL TER TAIL TURRET	A S	A B O V E	AS ABOVE	AS ABOVE	A S A B O V E		
B-24D&E (WITH WING TIP TANKS)	4	AS ABOVE EXCEPT R-1830-65 ENGINES IN LINE OF -43 ON B-24D-135 to -130 incl. (20)	AS ABOVE	AS ABOVE	AS ABOVE	8	MAIN - WINGS BOMB BAY WING TIPS	12-2364 2x 400 2x 250 3614 TOT.	A S	A B O V E	A S	A B O V E	AS ABOVE	AS ABOVE	AS ABOVE	A S A B O V E		
B-24GH&J	4	AS ABOVE EXCEPT R-1830-65 ENGINES IN LINE OF -43 ON B-24G-5 to -20 incl. (87) & B-24H-5 (12)	AS ABOVE	AS ABOVE	AS ABOVE	5	AS ABOVE (SEE NOTE C)	12-2364	3 1 2	100 250 400 400	NOSE TURRET SIDE WAIST-PL. UPPER TURRET LOWER BALL TER TAIL TURRET	A S	A B O V E	AS ABOVE	AS ABOVE	A S A B O V E * FEW EXTERNAL BOMB RACKS BEING INSTALLED AT MOD. CENTERS * LIMITED TO 64000 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.		U 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.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS		RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	
B-24D&E	40000 54000 56000 59000	- 1230 1230 1230	3300 3300 3300	90 103 103	- 3950 3950	- 1200 1200	56000	30000 25000 20000 15000 10000 5000	303 290 277 265 252	1050 1100 1150 1200 1200	297 281 272 259 246	850 900 950 1000 1000	26.8 20.9 15.3 9.0 4.2	53000 58000	NONE 5000	2364 2364	900 850	4.0 3.8	1000 950	3.9 3.7	1850 1700	8.8 8.8	1950 1800	6.9 6.2	2350 2200	15.0 14.2		
B-24D&E	40000 54000 59000 60000	- 1230 1230 1230	3300 3300 3300	90 103 103	- 3950 3950	- 1200 1200	56000	A S	A B O V E	A S	A B O V E	A S	A B O V E	58500 53000 58000	NONE NONE 5000	3164 2364 2364	1200 900 850	5.1 4.0 3.8	1300 1000 950	5.1 3.9 3.7	2400 1850 1700	12.1 9.5 8.8	2500 1950 1800	11.5 8.9 8.2	3100 2350 2200	20.3 15.0 14.2		
B-24D&E (WITH WING TIP TANKS)	40000 56000 59000 60000 62000 64000	- 1230 1230 1230 1230 1230	3300 3300 3300 3300 3300	90 103 103 103 103	- 3950 3950 3950 3950 3950	- 1200 1200 1200 1200 1200	56000	A S	A B O V E	A S	A B O V E	A S	A B O V E	63500 60500 61000 60000	NONE NONE 3000 5000	3614 3164 2814 2364	- 1200 1050 850	- 5.1 4.6 3.8	- 1300 1150 950	- 5.1 4.6 3.7	- 2400 2050 1700	- 12.1 10.4 8.8	- 2500 2200 1800	- 11.5 10.4 8.2	- 3100 2700 2200	- 20.3 18.4 14.2	MAX. FERRY RANGE (10000) MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION 34T. TO 3 GAL. PER HOUR DEPENDING ON TIME SINCE OVERHAUL.	
B-24GH&J																												PERFORMANCE NOT LISTED IN TECHNICAL ORDER 01-580-1.

NOTES: (A)

24 VOLT RADIO SYSTEM

SCR-211 FREQUENCY METER
SCR-2690 RADIO COMPASS
SCR-2715 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-198)
RC - 36 INTERPHONE AMPLIFIER
RC - 138 MAPPER BRACON

(C) A FEW APPLIANCES ARE INSTALLED WITH 1 (400 GAL.) BOMB BAY TANK ONLY AND 3 BARRAGE RACKS.



B-24
"LIBERATOR"

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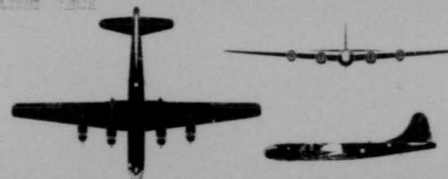
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
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PAGE 3																	
DATE 20 NOV 1943																	
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		COMBAT CREW	FUEL		ARMAMENT			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	MAX. LOAD LB.	TYPE		
B-29-BW -1 & -5	4	WRIGHT R-3350-23 TURBO HAMILTON STD. 16 1/2" DIA. - LBL. F.P. HYDRA-MATIC	T 2200/S L M 2200/25000 C 2000/25000	S 111'3" L 99'0" H 27'10" T * 31'6" W 1739 SQ'	B 71000 C 105000 R 120000 W - **	10	OUTBD. -WINGS INBD. -WINGS BOMB BAY	11 - 2735 8 - 2873 4 x 640 8168 TOT.	1-20MM 2 500 2 .50 2 500 2 1000	± 60 500 500 500 1000	TAIL-M2, TYPE UPPER REAR TRR UPPER REAR TRR LOWER REAR TRR TAIL TURST	L-1000 E-2000 12-1600 12-1000 L0-500 56-250 80-100	NONE	20000 ***	SCR-211, 2690, 2714, 287A, 576, & 895A RC-36, 15B & RC-102	TECHNICAL ORDER 01-20EJ-1. * MAX. PROVISIONS 100 ROUNDS. x PROVISIONS ON B-29-5 only. * OUTBOARD TREAD - 31'6"; INBOARD TREAD - 25'8". ** DUE 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												
			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	GROUND-RUN		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.		WEIGHT	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 10000 FT.					
B-29-BW -1 & -5	90000 105000 120000	3150 4500 6100	3500 4100 -	100 110 120	2200 3150 4300	2500 3000 -	105000	30000 25000 20000 15000 10000 5000	372 360 345 332 317 303	520 740 900 1040 1150 1250	360 347 334 320 307 292	340 550 715 850 970 1060	40.0 29.0 21.0 15.0 10.0 5.0	120000 120000	(SEE NOTE A) NONE 9000	6888 6888 5608	1800 1500	6.8 5.5	2000 1600	6.8 5.5	3500 2900	15.2 12.2	2900 2200	10.9 8.1	1200 3300	21.5 16.9	* 1 ST. HALF OF FLIGHT REQUIRES THAT MAX. CRUISE POWER BE EXCEEDED SLIGHTLY WITH AUTO. RICH MIXTURE.

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.

SEE WEIGHT AND PERFORMANCE CHART IN DRAWING AFTER PLANNED FLIGHT



B-29

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NORTH AMERICAN (INGLEWOOD ~
KANSAS CITY)

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-25C & D-NA (C & D)	1-.30 2-.50 2-.50	600 200 200	NOSE..... FLEX U. TURRET...A4 L. TURRET...A5	1-2000 2-1000 6- 500 8- 250 12- 100	NONE	3000	a 1255
B-25C-NA *-1 to -20 incl. B-25D-NA *-1 to -15 incl.	1) 1) .50 2) 2)	300 300 200 200	NOSE..... FLEX NOSE..... FIXED U. TURRET...A4 & 9 L. TURRET...A5 & 10	1-2000 3-1000 6- 500 8- 250 12- 100	1-2000 T 6- 325 8- 250 8- 100	3-1000 x 8- 250 5000	(B-25C) 1555 1680 (B-25D)
B-25C-NA (-25) B-25D-NA & NC -20 to -35 incl.	AS ABOVE EXCEPT ON 210 (D-20), D-25, D-30 & D-35.	NO LOWER TURRET		1-2000 2-1600 3-1000 6- 500 8- 250 12- 100	AS ABOVE	2-1600 x 8- 250 5200	(B-25C) 1510 1635 (B-25D)
B-25G-NA -1 to -10 incl.	1-75MM 2-.50 2-.50 2-.50	21 400 200 200	NOSE...M4(M6) NOSE...FIXED U. TURRET...A9 L. TURRET...A10	A S	A B O V E		1635
B-25H-NA -1 to -10 incl.	1-75MM 4-.50 4-.50 2-.50 2-.50 2-.50	21 400 400 200 200 500	NOSE..... T13E1 NOSE..... FIXED e NOSE... PACKAGE U. TURRET...A9B SIDE WAIST-PL. TAIL..... FLEX.	AS ABOVE	NONE	3200	1610

NOTES: * B-25C-1 & D-1 ARMAMENT SAME AS B-25C & D. o NOT ON 1st.157(C-1).
 x EXTERNAL a LAST 102(B-25C) FUEL SAME AS B-25C-1. d NO LOWER TURRET ON 78(G-5) & -10.
 T TORPEDO b LOWER TURRET NOT ON 80 (D-15) ONLY. e B-25H-1 HAS 2 PACKAGE GUNS INSTEAD 4

NORTH AMERICAN (KANSAS CITY)

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-25J-NC -1 & SUBSEQUENT	4) 1) 1) .50 2) 2)	400 300 300 200 200 600	NOSE... PACKAGE NOSE..... FLEX. NOSE..... FIXED SIDE WAIST-PL. U. TURRET...A9B TAIL..... FLEX.	1-2000 2-1600 3-1000 6- 500 8- 250 8- 100	1-2000 T 6- 325 8- 250 8- 100	2-1600 x 8- 250 5200	1635

NOTES: T TORPEDO
 x EXTERNAL

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
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PAGE 4																
DATE 20 NOV. 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-RECLIM 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.
B-25C & D	2	WEIGHT R-2600-13 2 SPD. SUPER. HAMILTON STD. 12"7" DIA.-3 BL. E.F. HYDRA-MATIC	T 1700/5 L M 1700/1500 C 1500/6700 1350/15000	S 67'6" L 53' H 15'9" T 19'4" W 61.0 SQ. F	B 20500 C 29500 R 33000 W 35000 a	5	MAIN - WING MAIN - WING BOMB BAY	2 x 184 2 x 151 1 x 585 1255 TOT.	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	STD. 24V	TECHNICAL ORDER 01-600B-1. * FUEL CAPACITY OF LAST 102 B-25C's SAME AS B-25C-1. ** B-25D LENGTH IS 52'10"
B-25C -1 TO -25 INCL. B-25D -1 TO -35 INCL.	2	AS ABOVE	AS ABOVE	S AS ABOVE L 53' H 15'9" T 19'4" W 61.0 SQ. F	B 22000 C 32000 R 33000 W 35000 a	5	MAIN - WING MAIN - WING AUX. - WING BOMB BAY (SEE NOTE-B)	2 x 184 2 x 151 6 - 300 1 x 585 1555 TOT.	1 1 2 2	300 300 200 200	NOSE - FLEX. NOSE - FIXED UPPER TURRET LOWER TURRET (Some only)	**2-1600 3-1000 6- 500 8- 250 12- 100	1-2000 T 6- 325 LB 8- 250 8- 100	2-1600 L 8- 250 x	AS ABOVE	REFERENCE AS ABOVE. * B-25C-25, B-25D-20, -25, 30 & 35 FUEL CAPACITY SAME AS B-25C SERIES. *** B-25C-1 & D-1 SAME AS B-25C & D. ** CARRIED ON LATER MODELS ONLY. T-TORPEDO; DE-DEPTH BOMB; I-INTERNAL; X-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. F	B AS ABOVE C AS ABOVE R AS ABOVE W AS ABOVE	5	MAIN - WING MAIN - WING AUX. - WING BOMB BAY (SEE NOTE-B)	2 x 184 2 x 151 6 - 300 2 - 540 1510 TOT.	1-75MM 2-.50 2-.50 2-.50	21 400 200 200	NOSE-TYPE M4 NOSE - FIXED UPPER TURRET * LOWER TURRET	A S	A B O V E	AS ABOVE	NO TECHNICAL ORDER TO DATE. * LOWER TURRET ON B-25G-1 & 222(B-25G-5) ONLY; NOSE ON B-25G-10.	
B-25H -1 & -5	2	AS ABOVE	AS ABOVE	S AS ABOVE L AS ABOVE H AS ABOVE T AS ABOVE W AS ABOVE	B AS ABOVE C AS ABOVE R AS ABOVE W AS ABOVE	5	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	NONE	3200	AS ABOVE	NO TECHNICAL ORDER TO DATE. * B-25H-5 CARRIES 2 ADDITIONAL NOSE PACKAGE GUNS; MAKING TOTAL OF 4 PACKAGE GUNS.
B-25J -1,	2	AS ABOVE	AS ABOVE	S 67'6" L 52' H 15'9" T 19'4" W 61.0 SQ. F	B AS ABOVE C AS ABOVE R AS ABOVE W AS ABOVE	5	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	NO TECHNICAL ORDER TO DATE.

a LIMITED TO 35000 LB. BY FLYING CHARACTERISTICS

MODEL & BLOCK NO.	TAKE OFF & LANDING				HIGH SPEED & CLIMB				RANGE & ENDURANCE							REMARKS ON PERFORMANCE								
	HARD SURFACE - NO WIND				AT NORMAL COMBAT WEIGHT				STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE															
	GROSS WEIGHT LB.	TO CLEAR 50 FT. DIST. FT.	LAND. DIST. FT.	LANDING SPEED MPH	T.O. DIST. FT.	LAND. DIST. FT.	WEIGHT LB.	STD. ALT. FT.	MIL. POWER HIGH SPEED M.P.H.	RATE OF CLIMB FT/MIN.	MAX. CONTIN. POWER HIGH SPEED M.P.H.	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 AT 10000 FT. RANGE ENDUR. MILES HOURS.	MAX. CRUISE POWER AT 25000 FT. RANGE ENDUR. MILES HOURS.	LONG RANGE AT 10000 FT. RANGE ENDUR. MILES HOURS.				
B-25C & D	25000 30000 32000 34000	- 3800 4700 5500	3300 3650 3900 -	90 108 112 -	- 2950 3700 4400	1550 1800 2000 -	20000 15000 10000 5000 S L	267 286 284 283 264	850 1300 1500 1800 1800	262 293 279 276 260	725 1100 1350 -	15.9 10.5 5.9 2.7 -	30000 29500	NONE 3000	1255 670	950 500	3.9 2.0	- -	1475 750	7.0 3.5	- -	1850 925	10.3 5.2	
B-25C -1 TO -25 INCL. B-25D -1 TO -35 INCL.	- AS ABOVE	- AS ABOVE	- AS ABOVE	- AS ABOVE	- AS ABOVE	32000	20000 15000 10000 5000 S L	265 284 273 282 264	800 1225 1125 1700 1700	260 280 276 274 257	700 1050 1275 -	16.4 10.7 6.2 3.0 -	33000 32000 31000 31000 31000	NONE 3200 2000 2500 2500	1555 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.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-25H -1 & -5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B-25J -1,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES: (A)

- SCR-211 FREQUENCY METER
- SCR-2696 RADIO COMPASS
- SCR-271A COMMAND SET (or SCR-522)
- SCR-267A LIAISON SET
- SCR-535 RECEIVER (or SCR-595 or SCR-695)
- SCR-578 EMERGENCY TRANSMITTER
- RC -196 CONTACTOR UNIT
- RC -103 BLIND LANDING (Provisions only)
- 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) 1-125 GAL. TANK IN SIDE WAIST POSITION ADDED TO B-25C & D SERIES AND 2-50 GAL. TANKS ADDED TO B-25H SERIES; INCREASED FERRY RANGE TO BE LISTED NEXT ISSUE.



B-25
"MITCHELL"

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MARTIN

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		
<u>B-26-MA</u> (B-26; A & A-1)	1-.30 1-.30 1-.50 2-.50	600 600 400 400	NOSE..... FLEX. TUNNEL... FLEX. TAIL..... FLEX. U. TURRET... A3C	2-2000 4-1000 8- 500 16- 250 30- 100	NONE	4000	(B-26) 1212 1462 (B-26A; -1)
<u>B-26B-MA</u> (B)	1-.30 1-.30 2-.50 2-.50	600 600 1500 400	AS ABOVE	2-2000 2-1600 4-1000 8- 500 16- 250 30- 100	1-2000 (TORPEDO)	2-1600 1-2000 T 5200	1462
<u>B-26B-MA</u> -10 to -20 incl <u>B-26C-MA</u> -5 to 1st.75(-30)	1) 1) 2) 2) 2) 2)	200 270 240 250 200 400 800	NOSE.... FIXED NOSE..... FLEX. SIDE WAIST. PL. U. FUS. PACKAGE L. FUS. PACKAGE U. TURRET... A3C TAIL..... FLEX.	A S	A B O V E		1962
<u>B-26B-MA</u> -25 to -75 incl. <u>B-26C-MA</u> Last 125 (-30) to -45**		AS ABOVE EXCEPT NO ARMAMENT ON PLANES LISTED FOR TOW TARGET USE IN NOTE (A)		AS ABOVE EXCEPT NO BOMBS ON PLANES LISTED FOR TOW TARGET USE IN NOTE (A)			1462

NOTES: (A) 2(C-25); 71(C-30); All but 1(C-35 & C-40); 1st.28(C-45); *200 RDS. ON B-26.
141(B-40) & 109(D-45). **NO NOSE GUNS ON C-45.

WP-9-11-43-200

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DATE 20 NOV. 1943																
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.	COMBAT CREW	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-36A	1	ALLISON V-1710-87 SINGLE SPEED CURTISS 10'9" DIA. -3EL. P. P. ELECTROMATIC	T 1325/5400 M 1325/5400 C 1500/2500 1100/6600	S 37' 0" L 32' 3" H 11'11" T 11'10" W 233 SQ. FT.	B 7100 C 10000 A 10700 W -	1	MAIN - WING EXT. - WING	2 x 90 2 x 75 2 x 150 480 TOT.	2-50 200 1-50 200	NOSE - FIXED WING - FIXED	NONE	2-500 2-250	1000	SCR-271M SCR-535 SCR-995**	TECHNICAL ORDER 01-60EB-1. * FOR EMERGENCY RATINGS. ** LAST 359 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											

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		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.		WEIGHT	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.	AT 10000 FT.	ENDUR.	RANGE	ENDUR.
A-36A	9000	2800	3000	-	2050	2100	20000	288	500	277	300	16.6	11000	NONE	480	1100	5.6	-	-	-	-	-	-	2100	10.4	* WITH 2-500 LB. EXTERNAL BOMBS.
	10000	3400	3200	-	2600	2400	15000	295	1025	285	9.1	10000	NONE	330	1000	3.8	-	-	-	-	-	-	-	1500	7.7	
	10000	4100	-	-	3200	-	10000	305	1525	293	5.1	9000	NONE	180	550	2.0	-	-	-	-	-	-	-	850	3.9	
	11000	-	-	-	-	-	5000	310	2075	293	2.4	10000	1000	180	500	2.0	-	-	-	-	-	-	-	800	3.7	

NOTES:

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



A-36
"INVADER"

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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.
C-46A -1 TO -25 INCL.	2	PRATT-WHITNEY R-2800-51 2 SPEED CURTISS* 13'6" DIA. - 4 BL. F.F., HYDROMATIC	T 2000/ 5 L M 2000/ 1500 C 1600/ 3500 1150/ 33000	S 108' 0" L 76' 4" H 22' 0" T 26' 0" W 1360 SQ. FT.	B 32400 C 16000 R 16000 W 56000A	3	WING-PANELS FUSELAGE	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, 143, 103 & 198. AN/APN-1	TECHNICAL ORDER 01-251A-1. (REVISION IN PROGRESS) * EARLY MODELS HAVE HAMILTON STD. 38LATE, HYDROMATIC, 15'11" 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/ 5 L M - C 1050/ 7000	S 95' 0" L 61' 6" H 17' 0" T 18' 6" W 987 SQ. FT.	B 18000 C 26000 R 29000 W 36500A	3	MAIN - WING AUX. - WING FUSELAGE	2 x 202 2 x 200 8 x 100 1604 TOT.	N O N E	E	CARGO or TROOPS or LITTERS	6000 27 12	6000 NOR. 10000 MAX. 11000 MAX.	SCR-211, 269, 271A, 287, 518, 578 & 695. RC-36, 143, 103 & 198. AN/APN-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 OR 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/ 5 L M 1290/ 3000 C 1015/ 9000 940/ 33200	S 117' 6" L 93' 10" H 27' 6" T 24' 8" W 1160 SQ. FT.	B 37000 C 58000 R 58600 W 76000A	6	INBD. - WING OUTSD. - WING FUSELAGE	2 x 506 2 x 135 4 x 144 3742 TOT.	N O N E	E	FORE-BELLY APT-BELLY FORE-CARGO APT-CARGO TROOPS	1800 2100 21000 11900	25000	SCR-211, 269, 271A, 287, 518, 595/695. RC-36, 143, 103 & 198. AN/APN-1	TECHNICAL ORDER 01-400M-1. * MISC. RADIO CARRIED. MAX. COMBINATION SHOWN. NOTE: 30 TROOPS WITH FUSELAGE TANKS (3742 GAL.) 50 TROOPS WITHOUT FUSELAGE 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/ 5 L M 1200/ 5700 C 1000/ 4100 900/ 16500	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	3100 6600 or 18	2500	SCR-211, 269, 271A, 287, 518, 595, RC-36, 143, 103 & 198.	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.		

HEAD FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

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'		LANDING SPEED M.P.H.	GROUND-RUN		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.		T.O. DIST. FT.	LAND. DIST. FT.		HIGH SPEED FT./MIN.	RATE OF CLIMB FT./MIN.	HIGH SPEED FT./MIN.	RATE OF CLIMB FT./MIN.				TIME OF CLIMB MIN.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.		AT 25000 FT.	RANGE MILES	ENDUR. HOURS
C-46A -1 TO -25 INCL.	31000 39000 46000 50000	- 2700 4050 6300	1800 2300 2250 -	- 1650 2100 3650	1150 1300 1500 -	20000 15000 10000 5000 S L	388 780 NOTE x 1100 1300	520 780 254 255 240	400 650 750 900 900	28.4 18.6 11.6 5.5 -	51000 46000 46000 51000	2000 3000 5000 10000	2200 1100 1050 1050	1100 850 630 620	5.5 3.5 2.5 2.5	ABOVE PRAC- TICAL CRUIS- ING CEILING	2500 1650 1150 1100	12.3 7.5 5.5 5.5	ABOVE PRAC- TICAL CRUIS- ING CEILING	3200 2150 1550 1200	16.0 10.5 7.8 6.3	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	- 1850 2400 3200	2100 2300 2600 -	- 1150 1550 2000	1300 1400 1600 -	20000 15000 10000 5000 S L	204 500 217* 202* 187*	225 500 217* 1175 1200	180 150 730 920 -	37.0 20.0 11.0 5.0 -	29000 26000 29000	NOISE 2000 6000**	1600 1000 800	1500 950 750	7.6 4.7 3.7	AS ABOVE	2300 1450 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	- 2800 3300 3850 4350	2900 3400 -	- 1600 1850 2150 2350	1800 2200 -	20000 15000 10000 5000 S L	272 272 276 272 245	1150 1150 1000 1100 1050	425 200 1000 1100 1050	21.4 16.0 9.4 4.4 -	62500 65000 59000 65000	NOISE 8000* 8000* 14000**	3742 2814 1886 1886	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. ** 14000 LB. CARGO or 50 TROOPS & 4000 LB. EQUIPMENT.	
C-60A -1 & -5	14000 17500 18500 21500 23000	- 1800 2050 2850 3300	2150 2600 2700 -	- 1000 1150 1600 1900	1700 2100 2200 -	20000 15000 10000 5000 S L	259 259 260 255* 236*	650 1300 1400 1600 1600	900 1000 1200 -	19.0 11.0 7.0 3.0 -	21500 23000	1450 5000	1046 644	1000 600	4.5 2.7	AS ABOVE	1150 850	7.0 4.3	AS ABOVE	2300 1200	14.4 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



C-47A "SKYTRAIN"



C-46A "COMMANDO"



C-54A "SKYMASTER"



C-60A "LODESTAR"

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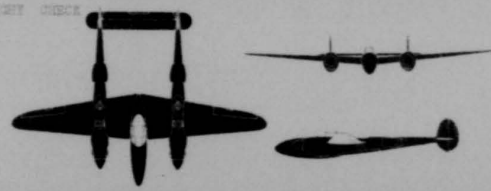
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
CONFIDENTIAL																
PAGE 9																
DATE 20 NOV. 1943																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.			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		
P-38E	2	ALLISON V-1710-27 & 29 TURBO CURTISS 11'6" DIA. - 3BL. P.P. ELECTROMATIC	T 1150/8 L M 1150/25000 C 1000/26000	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 4-.50	150 500 (MAX.)	NOSE - TYPE M1 NOSE - FIXED	NONE	NONE	SCR-183	TECHNICAL ORDER 01-7576-1.	
P-38F	2	ALLISON V-1710-49 & 53 TURBO CURTISS 11'6" DIA. - 3BL. P.P. ELECTROMATIC	T 1225/8 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	AS ABOVE	SCR-183 or SCR-271A	AS ABOVE	
P-38F -1 TO -15 INCL.	2	AS ABOVE	AS ABOVE	AS ABOVE	B 13600 C 15900 R 20000 W -	1	MAIN - WING RES. - WING PROP. - EXT.	2 x 90 2 x 60 2 x 75 2 x 150 600 TOT.	AS ABOVE	AS ABOVE	AS ABOVE	NONE	2-1000 2- 500 2- 325 2- 250 2- 100	2000	SCR-271A 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. ELECTROMATIC	T 1225/8 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 15800 R 20000 W -	1	AS ABOVE EXCEPT THAT LAST 200 P-38G-10'S ARE SAME AS BELOW	AS ABOVE EXCEPT THAT LAST 200 P-38G-10'S ARE SAME AS BELOW	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE EXCEPT THAT P-38G-10'S ONLY ARE SAME AS BELOW	NONE	2-1500 2-1000 2- 500 2- 325 2- 100	SCR-271A* SCR-515** SCR-522 SCR-535 SCR-595***	REFERENCE AS ABOVE * PROVISIONS ONLY. ** SPACE ONLY. *** LAST 179 P-38G-10'S ONLY.
P-38H -1 & -5	2	ALLISON V-1710-89 & 91 TURBO CURTISS 11'6" DIA. - 3BL. P.P. ELECTROMATIC	T 1125/8 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 16300 R 21000 W -	1	MAIN - WING RES. - WING PROP. - EXT.	2 x 90 2 x 60 2 x 75 2 x 150 2 x 300 600 TOT.	1-20MM 4-.50	150 500 (MAX.)	NOSE - AM-M20* NOSE - FIXED	NONE	2-1500 2-1000 2- 500 2- 325 2- 100	3200	SCR-271A* SCR-515** SCR-522 SCR-535 SCR-595	TECHNICAL ORDER 01-7577-1. (25 SEPT. 1943) * PROVISIONS ONLY. ** SPACE ONLY. ‡ LIMITED TO 12,000 LB. BECAUSE OF INADEQUATE COOLING.

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		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.		WEIGHT	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.					
P-38E	13000	-	2650	83	-	1100	25000	390	2100	380	#	11.0	15500	NONE	300	450	1.5	475	1.5	750	3.0	750	2.7	875	4.4	
P-38F	13500	-	2750	85	-	1150	15000	365	2300	365	#	8.0	15000	NONE	300	400	1.3	485	1.3	700	2.7	675	2.4	900	4.5	
P-38F -1 TO -15 INCL.	13500	-	2750	85	-	1150	25000	395	2100	380	#	12.0	19900	NONE	900	1375	5.0	1150	5.0	2050	9.3	2050	8.6	2000	9.8	
P-38G -1 TO -15 INCL.	15000	2150	2980	90	1280	1580	20000	390	2300	367	#	8.5	18000	NONE	600	800	2.9	550	2.9	1100	6.1	1125	5.4	1750	9.1	
P-38H -1 & -5	15500	2270	3050	91	1360	1620	15000	376	2450	354	#	6.0	19900	NONE	300	400	1.3	400	1.3	700	2.7	685	2.4	900	4.5	
	17500	3040	3350	97	1830	1800	10000	351	2500	340	#	4.0	17000	1000	300	385	1.3	395	1.3	675	2.8	650	2.4	850	4.3	
	19900	4000	-	-	2400	-	5000	347	2800	327	#	1.5	18000	2000	300	375	1.3	375	1.3	625	2.8	600	2.3	800	4.1	
							25000	400	1700	390	#	11.5														
							20000	390	2300	377	#	8.5														
							15000	376	2500	362	#	5.9														
							10000	360	2500	347	#	3.7														
							5000	345	2800	333	#	1.8														

NOTES:

SEE FIGURES AND PRELIMINARY SUBJECT TO MODIFICATION AFTER FLIGHT CHECK
MILITARY POWER AVAILABLE FOR 15 MINUTES.



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"LIGHTNING"

MANUFACTURED BY LOCKHEED

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

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DATE 20 NOV. 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.		
P-38J -5 & -10	ALLISON V-1710-89 & 91 TURBO CURTISS 11'6" DIA. - 3BL. F.F. ELECTROMATIC	T 1125/SL M 1125/26500 C 1100/32500	S 52' 0" L 37' 10" H 12' 10" T 16' 6" W 328 SQ. F.	B 13700 C 16300 A 21000 W -	1	MAIN - WING RES. - WING PROCP. - EXT. (SEE NOTE A)	2 x 90 2 x 60 2 x 75 or 2 x 150 or 2 x 300 900 TOT.	1-20MM 4 x .50 (MAX.)	150 500	NOSE-AN-ME"O" NOSE - FIXED	NONE	2-1600 2-1000 2- 500 2- 325 2- 250 2- 100	3200	SCR-271a SCR-515 SCR-522 SCR-695	TECHNICAL ORDER 01-75FP-1. (25 SEPT. 1943) (A) ALL P-38J MODELS WILL EVENTUALLY HAVE 124 GAL. TOTAL CAPACITY IN WING LEADING EDGES AND WILL CARRY 2x165 GAL. LEAK PROOF DROPPABLE TANKS.	

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

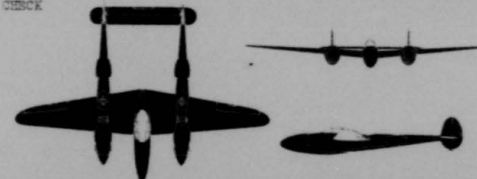
MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT					RANGE & ENDURANCE STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE					
	TO CLEAR 50'		LANDING SPEED	GROUND-RUN		STD. ALT.	MIL. POWER		MAX. CONTIN. POWER			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				AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	RANGE	ENDUR.		RANGE	ENDUR.	RANGE	ENDUR.	
	FT.	FT.	M.P.H.	FT.	FT.	FT.	M.P.H.	FT./MIN.	M.P.H.	FT./MIN.	MIN.	LB.	LB.	U.S. GAL.	MILES	HOURS	MILES	HOURS	MILES	HOURS		MILES	HOURS			
P-38J -5 & -10	13500	-	2750	86	-	1150	30000	411	2000	398	8	11.0	20300	NONE	900	1000	3.8	1100	3.8	1700	6.7	1750	6.9	2100	12.0	P-38J HAS INCREASED IRAG DUE TO CORE TYPE EXTERNAL COOLERS.
	15500	2000	3050	93	1090	1625	25000	406	2500	385	8	8.2	18300	NONE	600	700	2.5	750	2.5	1200	4.3	1350	4.5	1600	8.8	
	16500	2100	3200	97	1150	1700	20000	392	2800	366	6.3	16300	NONE	300	325	1.1	350	1.1	600	2.3	600	2.2	800	4.5		
	18300	2700	-	-	1150	-	15000	378	3200	353	8	14.6	18300	2000	300	300	1.1	300	1.1	525	2.2	525	2.0	700	3.7	
	20300	3800	-	-	2250	-	10000	365	3300	340	8	3.0	19500	3200	300	290	1.1	275	1.1	475	2.0	500	1.9	690	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

* MILITARY POWER AVAILABLE FOR 15 MINUTES.



P-38
"LIGHTNING"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
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PAGE 12																	
DATE 20 NOV. 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	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 C 1000/10600	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 DROOP - BELLY	1 x 52 1 x 35 1 x 62 1 x 52 201 TOT.	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. * 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 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 DROOP - 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	AS ABOVE	SCR-27LN or SCR-522A * SCR-535A or SCR-695	TECHNICAL ORDER 01-250C-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 C 1000/11000	S L H AS ABOVE T W	B 6950 C 8400 R 10000 W -	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 01-250K-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 1240/11500 C 1080/9500 1010/16000	S L H AS ABOVE T W	B 7000 C 8500 R 10000 W -	1	REAR - WING FUSELAGE DROOP - 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 01-250L-1. * P-40L-1 FUEL AND ARMAMENT SAME AS P-40F SERIES.		
P-40M -1 TO -10 INCL.	1	ALLISON V-1710-21 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 -	1	REAR - WING FRONT - WING FUSELAGE DROOP - 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 01-250M-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'		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.	RANGE MILES	ENDUR. HOURS		RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS
P-40E & E-1	7500 8100 8400 8700 9100	- 2500 3125 3600 4300	1550 1700 1750 - -	84 87 90 - -	- 1600 1800 1950 2300	950 1050 1100 -	8400 8400 8400 8400 8400	25000 20000 15000 10000 5000	- 330 362 342 335	- 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	201 149 119	425 325 300	1.7 1.2 1.2	- - -	675 525 450	3.0 2.2 2.1	- - -	800 650 575	4.5 3.3 3.1			
P-40F -1 TO -20 INCL.	7500 8850 9200 9350 9550 10000	- 3700 4350 4400 4700 5750	1700 1900 2150 2550 2700 3100	81 - - - -	- 1800 2150 2550 2700 3100	1050 1300 1350 1400 -	8500 8500 8500 8500 8500	25000 20000 15000 10000 5000	350 364 352 340 320	1000 1400 1860 2210 2160	500 1000 332 300 300	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 1.3	- 550 575 625 350	2.3 2.0 1.8 1.8	600 700 600 500	3.4 3.0 2.8 2.8	- - - -	1500 1000 875 700 600	8.0 5.0 4.4 3.1 3.2			
P-40K -1 TO -15 INCL.	7500 8800 9150 9300 9500 10000	- 2950 3150 3200 3350	1700 1950 2000 2050 2100	81 - - - -	- 1800 1900 1950 2050	1050 1300 1350 1400 -	8400 8400 8400 8400 8400	25000 20000 15000 10000 5000	- 330 362 342 335	- 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	- - - -	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 -1 TO -20 INCL.	SUBSTANTIALLY SAME AS P-40F		SUBSTANTIALLY SAME AS P-40F		SUBSTANTIALLY SAME AS P-40F		8500	SUBSTANTIALLY SAME AS P-40F		SUBSTANTIALLY SAME AS P-40F		SUBSTANTIALLY SAME AS P-40F		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	650 425 350	3.8 1.6 1.6	- - -	1500 1000 800 500 425	8.0 5.2 4.1 2.8 2.3	P-40L-1 ONLY SAME AS P-40F SERIES.	
P-40M -1 TO -10 INCL.	7500 8400 8800 9300 10000	2350 2650 3150 4000	1700 1850 2000 -	81 85	1400 1500 1900 2500	1050 1300 1350 -	8400 8400 8400 8400	25000 20000 15000 10000 5000	353 363 361 346 328	850 1500 2025 2180 2070	330 335 338 320 308	14.7 10.2 7.2 4.5 2.4	10000 9300 8800 9300	NONE NONE NONE 700	327 232 157 157	- 450 325 300	- 1.8 1.2 1.2	- 750 475 375	- 2.9 1.8 1.8	775 550 475	3.6 2.4 2.3	- - 2.7	1300 950 700 575	6.8 5.6 3.6 3.3			
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 PER 5 MINUTES ONLY.
* MILITARY POWER AVAILABLE PER 15 MINUTES.



P-40
"WARHAWK"

MANUFACTURED BY CURTISS

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
CONFIDENTIAL																
PAGE 13																
DATE 20 NOV. 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
P-40N-1	1	ALLISON V-1710-81 SINGLE SPEED CURTISS 11'0" DIA. - 3 BL. P.F., ELECTROMATIC	T 1200/5 L M 1125/11600 C 1000/13800	S 37'4" L 33'4" H 12'4" T 8'2" W 236 SQ. F.	B 6400 C 7725 R 11000 W -	1	REAR - WING FUSELAGE PROP. - BELLY	1 x 54 1 x 68 1 x 52, 75, 150 or 170 292 TOT.	4-.50	201 (average)	WING - FIXED	NONE	1-500 & 2-100 or 6-20. 1-325 1-250 1-100	SCR-274N or SCR-522A & SCR-695	TECHNICAL ORDER 01-250N-1. * PROVISIONS FOR RACKS ONLY.	
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 W -	1	REAR - WING FRONT - WING FUSELAGE PROP. - BELLY PROP. - WING	1 x 54 1 x 37 1 x 70 1 x 75, 150 or 2-225 * 511 TOT.	6-.50	281 (average)	AS ABOVE	NONE	1-500 & 2-500 or 2-100 or 6-20. 1-325 1-250 1-100	SCR-274N 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. BOMBS IN PLACE OF BELLY TANK. SPACE ONLY FOR 6-20 LB. BOMBS.	
P-40N -20	1	ALLISON V-1710-99 SINGLE SPEED CURTISS 11'0" DIA. - 3 BL. P.F., ELECTROMATIC	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 AS ABOVE C AS ABOVE R AS ABOVE W AS ABOVE	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					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	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.	RANGE	ENDUR.	RANGE
LB.	FT.	FT.	FT.	MPH	FT.	FT.	MPH	FT/MIN.	MPH	FT/MIN.	MIN.	LB.	LB.	U.S. GAL.	MILES	HOURS	MILES	HOURS	MILES	HOURS	MILES	HOURS	
P-40N-1	7000	-	1650	-	-	1000	25000	357	1225	335	#	12.4	8850	NONE	292	-	-	-	-	-	-	1900	6.5
	7725	1800	1750	-	-	1300	20000	365	1450	344	#	9.1	8250	NONE	197	380	1.4	450	1.9	725	3.0	725	3.5
	8250	2750	1850	-	-	1300	15000	362	2100	345	#	6.7	7725	NONE	122	225	0.8	525	1.4	1200	1.7	1250	1.9
	8425	2950	1900	-	-	1200	10000	345	2525	327	#	4.1	8225	NONE	122	150	0.7	200	0.9	350	1.7	390	1.9
	8850	3100	-	-	-	1600	5000	325	2425	308	#	2.1											
P-40N -5 TO -15 INCL.	7000	-	1650	-	-	1000	25000	353	900	330	#	13.0	11400	NONE	611	-	-	-	-	-	-	2000	16.0
	8400	2850	1900	-	-	1150	20000	363	1550	336	#	8.8	9500	NONE	331								
	8900	3100	-	-	-	1550	15000	361	2130	337	#	6.0	8900	NONE	236								
	9100	3250	-	-	-	1800	10000	346	2230	320	#	4.7	8400	NONE	161								
	9500	3650	-	-	-	2000	5000	325	2120	308	#	2.4	8900	500	161								
P-40N -20		AS ABOVE	AS ABOVE			AS ABOVE		AS ABOVE															

NOTES:

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



P-40
"WARHAWK"

MANUFACTURED BY CURTISS

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PAGE 15
DATE 20 NOV. 1943

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 L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-RECLIM 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 CARGO	MAX. LOAD LB.			TYPE
		T-TAKE-OFF M-MILITARY C-CONTINUOUS															
P-51 -1 & -2	1	ALLISON V-1710-39 SINGLE SPEED CURTISS 10'9" DIA. -3BL. P.P. HYDROMATIC	T 1150/8 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	1	MAIN-R.WING 1 x 90 MAIN-L.WING 1 x 59 RES.-L.WING 1 x 31 180 TOT.	4-20MM	125	WING-TYPE M2	NONE	NONE	NONE	SCR-27LN & 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. HYDROMATIC	T 1200/8 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	1	MAIN-R.WING 1 x 90 MAIN-L.WING 1 x 59 RES.-L.WING 1 x 31 EXT.-WINGS 2 x 75 150 TOT.	2-.50 2-.50	280 350	OUTRD.-WINGS INBD.-WINGS (FLUX)	NONE	2-500 2-325 2-250 2-100	1000	SCR-27LN SCR-535 SCR-515 SCR-522 SCR-695	TECHNICAL ORDER 01-60JC-1. * PROVISIONS ONLY. ** SPACE PROVIDED.		
P-51B -1 & -5 P-51C -1	1	PACKARD V-1650-3 2-SPRNG HAMILTON STD. 11'2" DIA. -4BL. P.P. HYDROMATIC	T 1300/8 L M 1520/13000 C 1300/24000 1240/16750 1080/21750	S 37'0" L 32'3" H 13'8" T 11'10" W 233 SQ. FT.	B 7300 C 9000 R 11000	1	AS ABOVE EXCEPT KITS AVAILABLE FOR INSTALLATION OF 1 (85 GAL.) FUEL TANK IN ADDITION TO WING TANKS.			AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-60JD-1. * PROVISIONS ONLY.		

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

MODEL & BLOCK NO.	TAKE OFF & LANDING 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.			RANGE MILES	ENDUR. HOURS
		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-51 -1 & -2	7500 8000 8500 8800 9000	- 2600 3000 3200 3400	- 2600 3000 3200 3400	88 91 94 94 94	- 1600 1900 2100 2250 2300	1700 1900 2100 2250 2300	8600	25000 20000 15000 10000 5000	337 367 387 379 357	800 1300 1800 2000 2000	315 333 344 352 332	10.9 10.9 10.9 10.9 10.9	8500	NONE	180	180	1.3	700	2.6	700	2.7	-	-	1000	4.5			
P-51A -1 TO -10 INCL.	8000 8600 9100 9600 10300	- 2500 3150 3250 3550	- 2700 3150 3250 3550	90 93 94 94 94	- 1800 2100 2200 2300 2300	1800 2100 2200 2300 2300	8500	25000 20000 15000 10000 5000	337 367 387 379 357	800 1300 1800 2000 2000	315 333 344 352 332	11.6 11.6 11.6 11.6 11.6	10300 9600 8600 9100 9600	NONE NONE NONE 500 1000	180 330 180 180 180	1205 775 475 465 465	1.4 2.9 1.5 1.5 1.5	700 1350 800 750 785	2.6 4.0 3.0 3.3 3.0	-	-	2000 1500 1000 700 800	10.3 7.6 6.0 4.3 4.0					
P-51B -1 & -5 P-51C -1	8000 9300 9800 10000 10300 11000	- 2100 2300 2500 2500 2500	- 2250 2500 2500 2500 2500	90 93 94 94 94	- 1800 2100 2200 2300 2300	1800 2100 2200 2300 2300	9000	30000 25000 20000 15000 10000 5000	337 367 387 379 357	800 1300 1800 2000 2000	315 333 344 352 332	10.8 10.8 10.8 10.8 10.8	11000 10000 9300 9800 10300	NONE NONE NONE 500 1000	180 330 180 180 180	1304 875 595 485 475	1.4 3.2 1.7 1.7 1.7	1725 1125 650 600 585	5.6 3.8 1.9 2.0 2.0	1800 1800 750 650 625	7.0 5.0 2.8 2.5 2.6	-	-	2250 1575 975 900 825	11.1 8.4 6.2 4.7 4.3			

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:

SEE MANUAL AND SUPPLEMENTARY CHARTS & REVISIONS AFTER PLANT CODE
* MILITARY POWER AVAILABLE FOR 15 MINUTES



P-51
"MUSTANG"

MANUFACTURED BY NORTH AMERICAN

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