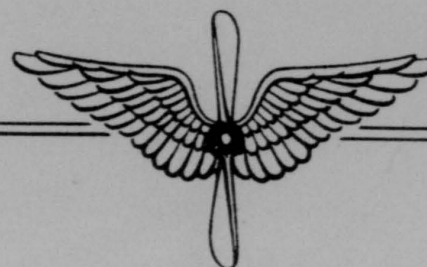


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EE-393

# TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART



DECLASSIFIED  
DOD DIR 5200.9, 27 Sep 84

*NOTICE: This document contains information affecting the National Defense of the United States within the meaning of the Espionage Act, 50 U. S. C., 31 and 32, as amended. Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.*

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

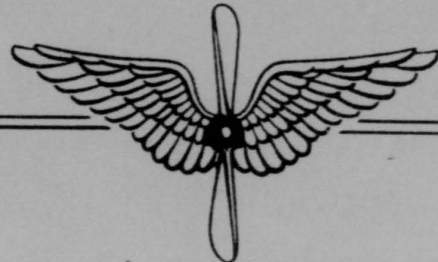
JULY 20, 1943  
WF-8-26-43-300

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M1091-2

EE-393

# TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART



**DECLASSIFIED**  
DOD DIR 5200.9, 27 Sep 58

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MATERIEL COMMAND, WRIGHT FIELD, DAYTON, OHIO**

**JULY 20, 1943**  
WF-8-26-43-300



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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.

PREPARED BY TECHNICAL DATA LABORATORY, ENGINEERING DIVISION

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.

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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: 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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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART														PAGE NO.	
CONFIDENTIAL														DATE JULY 20, 1943	
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WEIGHT	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS		RADIO	REMARKS & REFERENCE
	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-RECD.LIM. W-WAR MAX.			TANK TYPE OR LOCATION	NO. TANKS & CAPACITY (U.S. GAL.)	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY		
B-17E	WRIGHT R-1820-65 TURBO HAMILTON STD. 11'6" DIA. - 3 BL., P.F., HYDROMATIC	T 1200/ SL 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 65000	9	MAIN-WINGS BOMB BAY	6-1700 TOT. 2x 395	1-.30 2-.50 2-.50 2-.50	500 200 400 500	NOSE - FLEX. SIDE WAIST-FL. UPPER TURRET LOWER TURRET TAIL - FLEX.	2-2000 4-1000 8- 500 11- 250 20- 100	NONE	4000	STD. 24V AM/ARR-1 RC-103 (SEE NOTE) "A"	TECHNICAL ORDER 01-208E-1.
B-17F	WRIGHT R-1820-97 TURBO HAMILTON STD. 11'6" DIA. - 3 BL., P.F., 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 38500 C 55000 R 56000 W 65000	9	MAIN-WINGS BOMB BAY	6-1700 TOT. 2x 410	3 2 1 2 2 2	300 300 275 400 575 500	NOSE - FLEX. SIDE WAIST-FL. RADIO COMPART. UPPER TURRET LOWER TURRET TAIL TURRET	2-2000 5-1600 6-1000 12- 500 16- 250 21- 100	2-4000 2-2000 2-1600 2-1000	2-4000 I 8-1600 I 20800	STD. 24V (SEE NOTE) "A"	TECHNICAL ORDER 01-208F-1. *EARLY MODELS HAD SAME ARMAMENT AS B-17E AND NO EXTERNAL BOMB RACKS; THEN PROGRESSIVE CHANGES WERE MADE. CURRENT PRODUCTION ARTICLES ARE SHOWN.
B-17F (WITH WING TIP TANKS)	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 39500 C 56000 R 57000 W 65000	9	MAIN-WINGS WING TIPS BOMB BAY	6-1700 TOT. 2x 510 2x 410	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE
		T M C	S L H T W	B C R W											
		T M C	S L H T W	B C R W											

PERFORMANCE

X - EXTERNAL BOMBS  
I - INTERNAL BOMBS

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)										REFER. TO NOTES				
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED M.P.H.	GROUND RUN		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			
		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.		RANGE MILES	ENDR. HOURS
		FT.	FT.		FT.	FT.			FT./MIN.	FT./MIN.	MIN.				MILES	HOURS	MILES	HOURS	MILES	HOURS	MILES	HOURS		MILES	HOURS	MILES	HOURS
B-17E	52000	SUBSTANTIALLY SAME AS B-17F		90	2500	3150	30000	297	500	285	150	61.0	53000	NONE	2190	1250	5.5	1350	5.6	1850	9.0	1900	8.7	2750	18.0		
B-17F	40000	3330	4100	100	2800	3150	30000	298	500	285	150	62.0	62000	NONE	3600	-	-	-	-	-	-	-	-	3500	21.2	LONG RANGE VALUES BASED ON CONSTANT W.P.H.	
	50000	4300	4590	105	3300	3500	25000	299	850	280	350	31.0	57000	NONE	2780	1100	6.1	1550	6.2	2050	10.1	2150	9.9	2800	17.4		
	60000	5000	4870	110	4300	3750	15000	274	1050	263	725	15.3	55000	NONE	2520	1250	5.5	1100	5.6	1850	9.1	1950	8.9	2600	17.2		
	64000	6100	-	-	5300	-	10000	263	1150	253	850	9.0	56000	6000	1730	850	3.7	900	3.8	1200	6.1	1250	5.9	1700	10.5		
							5000	258	1250	212	-	3.8															

NOTES (A) 24 VOLT RADIO SYSTEM  
 r REVISOR 8-21-43  
 SCR-211 FREQUENCY METER  
 SCR-269G RADIO COMPASS  
 SCR-271W COMMAND SET (or SCR-522)  
 SCR-287 LIAISON SET  
 SCR-535 RECEIVER (or SCR-395 or SCR-695)  
 SCR-578 EMERGENCY TRANSMITTER  
 RC-32 FILTER EQUIPMENT (or RC-198)  
 RC-36 INTERPHONE AMPLIFIER  
 RC-43 MARKER BEACON


RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

NOTE "B" MAXIMUM FERRY RANGE (3500 MI.) MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION; OIL CONSUMPTION 3 QT. TO 3 GAL. PER HOUR DEPENDING ON TIME SINCE OVERHAUL.

"FLYING FORTRESS"  
**B-17**

MANUFACTURED BY BOEING - DOUGLAS - VEGA

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TYPE H. BOMBER MODELS B-17 SERIES SHEET OF SHEETS

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

CONFIDENTIAL

PAGE NO. 2

DATE JULY 20, 1945

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WEIGHT	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.			RADIO	REMARKS & REFERENCE
	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS				S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-RECD.LIM. W-WAR MAX.	TANK TYPE OR LOCATION	NO.TANKS & CAPACITY (U.S.GAL.)	NO.GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION		
B-24D&E SERIES	PRATT-WHITNEY R-1830-13 TURBO HAMILTON STD. 12'DIA. - 3 BL., P.F., HYDROMATIC	T 1200/ SL M 1200/25000 C 1100/25000	S 110'0" L 66'4" H 18'0" T 25'8" W 104 1/2 sq. ft.	B 37000 C 55000 R 56000 W 71000	8	MAIN-WING 12-2364 T. OUTBD-WING** 2x 225 BOMB BAY 2x 100 TOT - 3614	*3 2 2 1 2	100 NOSE - FLEX. 250 SIDE WAIST-FL. 100 UPPER TURRET 100 TUNNEL - FLEX. 1075 Tot. TAIL TURRET	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	2-4000 2-2000 2-1600 2-1000	2-4000 I 3-1600 I	STD. 24V AN/ARR-1 RC-103 (SEE NOTE "A")	TECHNICAL ORDER 01-5EC-1. X INSTALLED IN SOME MODELS. * TWIN GUN TURRETS INSTALLED IN NOSE AND LOWER BALL TURRET OF LATER MODELS. ** OUTBOARD WING TANKS ON LATER MODELS ONLY. *** EXTERNAL BOMBS ON LATER MODELS 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											

PERFORMANCE

X - EXTERNAL BOMBS  
I - INTERNAL BOMBS

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)										REFER. TO NOTES			
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED M.P.H.	GROUND RUN		STD. ALT. FT.	MIL. POWER HIGH SPEED M.P.H.	MAX. CONTIN. POWER		TAKE-OFF WEIGHT LB.	BOMBS CARGO PASS. LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT.		MAX. CRUISE POWER AT 10000 FT.		LONG RANGE AT 10000 FT.								
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.			WEIGHT LB.	STD. ALT. FT.				HIGH SPEED M.P.H.	RATE OF CLIMB FT./MIN.	HIGH SPEED M.P.H.	RATE OF CLIMB FT./MIN.	TIME TO CLIMB MIN.	RANGE ENDR. MILES	RANGE ENDR. HOURS	RANGE ENDR. MILES	RANGE ENDR. HOURS		RANGE ENDR. MILES	RANGE ENDR. HOURS	
B-24D&E SERIES	40000 50000 56000 60000 64000	- 3100 4500 5700 7000	3400 4000 4600 -	90 100 105 110 -	- 2300 3200 4000 5000	2900 3300 3600 -	59000	3000 2500 2000 15000 10000 5000	- 303 290 277 263 252	600 1050 1100 1150 1200 1200	600 297 284 272 259 246	3600 850 900 950 1000 1000	26.8 20.9 15.3 9.0 4.2	62000 59000 60000 59000	NONE NONE 3000 5000	3614 3164 2816 2364	1200 1050 850	5.1 4.6 3.8	1300 1150 950	5.1 4.6 3.7	2400 2050 1700	12.1 10.9 8.8	2500 2200 1800	11.5 10.4 8.2	3100 2700 2200	20.3 18.4 14.2

COLUMN-1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

NOTES (A) 24-VOLT RADIO SYSTEM


SCR-211	FREQUENCY METER	NOTE "B"	RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK
SCR-269G	RADIO COMPASS		
SCR-274M	COMMAND SET (or SCR-522)		
SCR-287	LIAISON SET		
SCR-535	RECEIVER (or SCR-595 or SCR-695)		
SCR-578	EMERGENCY TRANSMITTER		
RC-32	FILTER EQUIPMENT (or RC-198)		
RC-36	INTERPHONE AMPLIFIER		
RC-13	MARKER BEACON		

MAXIMUM FERRY RANGE (3500 MI) MAY BE RESTRICTED BY INSUFFICIENT OIL IF ENGINE IS NOT IN BETTER THAN AVERAGE CONDITION: OIL CONSUMPTION 3 QT. TO 3 GAL. PER HOUR DEPENDING ON TIME SINCE OVERHAUL.

"LIBERATOR" B-24

MANUFACTURED BY CONSOLIDATED - FORD - DOUGLAS

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TYPE H. BOMBER MODELS B-24 SERIES SHEET OF SHEETS



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**TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART**

PAGE NO. 3  
DATE JULY 20, 1943

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MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WEIGHT	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-REC'D. 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		
B-25C&D	2 WRIGHT R-2600-13 2 SPD. SUPERCH. HAMILTON STD. 12'7" DIA., 3 BL., P.F., HYDROMATIC	T 1700/ SL M 1700/ 14500 C 1500/ 6700 1350/15000	S 67'6" L 52'11" H 15'9" T 19'4" W 610 SQ. F	B 22000 C 34000 R 34000 W 41000	5	MAIN - WING 2x184 MAIN - WING 2x151 BOMB BAY 1x585 TOT-1255	1-30 600 2-50 400 2-50 350	NOSE - FLEX. UPPER TURRET LOWER TURRET	1-2000 2-1000 6- 500 8- 250 12- 100	NONE	3500	RC-103 STD. 24V (SEE NOTE) "A"	TECHNICAL ORDER 01-600B-1. F* FUEL CAPACITY OF LAST 102 B-25C'S SAME AS B-25C-1.		
B-25C SERIES (-1,-5,-10,-15,-20,-25)	2 AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	5	MAIN - WING 2x184 MAIN - WING 2x151 AUX. - WING 6-300 TOT. BOMB BAY 1x585 ** TOT-1555	1-30 300 1-50 300 2-50 400 2-50 350	NOSE - FLEX. NOSE - FIXED UPPER TURRET LOWER TURRET	1-2000 2-1600 3-1000 6- 500 8- 250 12- 100	1-2000 T 6- 325 IB 1- 500 8- 100 TOT-6700	2-1600 1-1000 1- 500 1- 250 TOT-6700	AS ABOVE	REFERENCE AS ABOVE. F* EARLY MODELS DID NOT CARRY 1600# BOMBS. F** B-25C-25 ONLY HAS BOMB BAY CAPACITY OF 540 GAL. INSTEAD OF 585 GAL.		
B-25D SERIES (-1,-5,-10,-15,-20,-25,-30)	2 AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	5	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	F* AS ABOVE EXCEPT THAT B-25D-20,-25 & -30 HAVE BOMB BAY CAPACITY OF 540 GAL. INSTEAD OF 585 GAL.		
B-25G SERIES (-1,-5,-10,-)	2 AS ABOVE	AS ABOVE	S 67'6" L 51' H 15'9" T 19'4" W 610 SQ. F	B 22000 C 34000 R 34000 W 41000	5	MAIN - WING 2x184 MAIN - WING 2x151 AUX. - WING 6-300 TOT. BOMB BAY 2-540 TOT. TOT-1510	1-75MM 21 2-50 400 2-50 350	NOSE-TYPE M6 NOSE - FIXED UPPER TURRET LOWER TURRET	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-600B-1.		

**PERFORMANCE**

X - EXTERNAL IB - DEPTH BOMB  
T - TORPEDO


MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE-NO WIND)				HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)					RANGE & ENDURANCE (STATUTE AIRMILES-NO WIND-NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES						
	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 PASS LB.	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. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.		WEIGHT LB.	HIGH SPEED M.P.H.	RATE OF CLIMB FT./MIN.	HIGH SPEED M.P.H.	RATE OF CLIMB FT./MIN.				TIME TO CLIMB MIN.	RANGE MILES	ENDR. HOURS	RANGE MILES		ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES	ENDR. HOURS	
B-25C&D SERIES	25000 28000 31000 34000 36000						20000 15000 10000 5000 SL	265 283 280 281 263	750 1150 1350 1600 1600	260 280 275 273 255	650 1000 1200 -	17.5 11.1 6.6 3.1 0	34000 34000 34000 32500	NONE 3500 2000	1550 970 970	1170 710 660	4.7 2.8 2.8	- - -	- - -	1700 1030 920	8.2 5.0 5.0	- - -	- - -	2610 1570 1430	14.5 8.7 8.4	* 2000 LB. BOMB LOAD CONSISTS OF EITHER 1-2000 TORPEDO or 8-250 EXT. WING BOMBS.
B-25G SERIES						20000 15000 10000 5000 SL	265 283 280 281 263	750 1150 1350 1600 1600	260 280 275 273 255	650 1000 1200 -	17.5 11.1 6.6 3.1 0	34000 34000 34000 32500	NONE 3500 2000	1510 970 970	1100 690 640	4.5 2.8 2.8	- - -	- - -	1700 1030 920	8.2 5.0 5.0	- - -	- - -	2610 1570 1430	14.5 8.7 8.4	* AS ABOVE	

NOTES (A) 24 VOLT RADIO SYSTEM

SCR-211 FREQUENCY METER  
SCR-2690 RADIO COMPASS  
SCR-274N COMMAND SET (or SCR-522)  
SCR-287 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 - 43 MARKER BEACON

MANUFACTURED BY NORTH AMERICAN

**"MITCHELL"**  
**B-25**  
CONFIDENTIAL



TYPE M. BOMBER MODELS B-25 SERIES SHEET OF SHEETS

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PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE NO. 3

DATE JULY 20, 1943

PROP.	SIZE	WEIGHT	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE
				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.H.P./ALT. TAKE-OFF MILITARY CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-RECD. LIM. W-WAR MAX.											
1700/ 1500 1700/ 1500 1150/12000 1500/ 6700 1350/15000	S 67'6" L 52'11" r H 15'9" T 19'1/4" W 610 SQ.'	B 22000 C 34000 R 34000 W 41000	5	MAIN - WING MAIN - WING BOMB BAY	2x184 * 2x151 1x585 TOT-1255	1-.30 2-.50 2-.50	600 400 350	NOSE - FLEX. UPPER TURRET LOWER TURRET	1-2000 2-1000 6- 500 8- 250 12- 100	NONE	3500	RC-103 STD. 24V (SEE NOTE) "A"	TECHNICAL ORDER 01-60GB-1. * FUEL CAPACITY OF LAST 102 B-25C's SAME AS B-25C-1.
AS ABOVE	AS ABOVE	AS ABOVE	5	MAIN-WING MAIN-WING AUX. - WING BOMB BAY	2x184 2x151 6-300 TOT 1x585 ** TOT-1555	1 1 2 2	300 300 400 350	NOSE - FLEX. *NOSE - FIXED UPPER TURRET LOWER TURRET	1-2000 2-1500 * 3-1000 6- 500 8- 250 12- 100	1-2000 T 6- 325 IB 1-1000 1- 500 1- 250 TOT-6700	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE. * EARLY MODELS DID NOT CARRY 1600# BOMBS. ** B-25C-25 ONLY HAS BOMB BAY CAPACITY OF 540 GAL. INSTEAD OF 585 GAL.
AS ABOVE	AS ABOVE	AS ABOVE	5	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE EXCEPT THAT B-25D-20,-25 & -30 HAVE BOMB BAY CAPACITY OF 540 GAL. INSTEAD OF 585 GAL.
AS ABOVE	S 67'6" L 51' r H 15'9" T 19'1/4" W 610 SQ.'	B C R W	5	MAIN - WING MAIN - WING AUX. - WING BOMB BAY	2x184 2x151 6-300 TOT 2-540 TOT TOT-1510	1-75MM 2-.50 2-.50 2-.50	21 400 400 350	NOSE-TYPE M6 NOSE - FIXED UPPER TURRET LOWER TURRET	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-60GB-1.

PERFORMANCE

X - EXTERNAL IB - DEPTH BOMB  
T - TORPEDO

LANDING (NO WIND)		HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)					RANGE & ENDURANCE (STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES											
D W L S	GROUND RUN T.O. DIST. LAND. DIST.	WEIGHT LB.	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									
			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	ENDR.							
PH.	FT.	FT.	M.P.H.	FT./MIN.	M.P.H.	FT./MIN.	MIN.	LB.	LB.	GAL.	RANGE	ENDR.	RANGE	ENDR.	RANGE	ENDR.		RANGE	ENDR.	RANGE	ENDR.	MILES	HOURS	MILES	HOURS	MILES	HOURS	MILES
34000	20000	255	750	260	650	17.5	34000	NONE	1550	1170	4.7	-	-	1700	8.2	-	-	2610	11.5	* 2000 LB. BOMB LOAD CONSISTS OF EITHER 1-2000 TORPEDO or 8-250 EXT. WING BOMBS.								
34000	15000	283	1150	280	1000	11.1	34000	NONE	1510	1100	4.5	-	-	1700	8.2	-	-	2610	11.5	* AS ABOVE								
34000	10000	280	1350	275	1200	6.6	34000	3500	970	710	2.8	-	-	1030	5.0	-	-	1570	8.7									
34000	5000	281	1500	273	-	3.1	32500	* 2000	970	660	2.8	-	-	920	5.0	-	-	1430	8.4									
34000	SL	263	1600	255	-	0	32500	* 2000	970	660	2.8	-	-	920	5.0	-	-	1430	8.4									

SYSTEM  
METER  
COMPASS  
SET (or SCR-522)  
SET  
(or SCR-595 or SCR-695)  
TRANSMITTER  
EQUIPMENT (or RC-198)  
AMPLIFIER  
RADIO

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

MANUFACTURED BY NORTH AMERICAN

"MITCHELL"  
B-25



CONFIDENTIAL

TYPE M. BOMBER MODELS B-25 SERIES SHEET OF SHEETS



THIS PAGE IS UNCLASSIFIED

**TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART**

PAGE NO. 4  
DATE JULY 20, 1943

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WEIGHT	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				TANK TYPE OR LOCATION	NO. TANKS & CAPACITY (U.S. GAL.)	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD (LB.)			TYPE
B-26	2	PRATT-WHITNEY R-2800-5 2 SPD. SUPERCH. CURTISS 13'6" DIA., 4BL., P.P., ELECTROMATIC	T 1850/ 2700 M 1500/14000 C 1500/7800 1450/13000	S 65'10" L 58'3" H 22'10" W 602 SQ. FT.	B 23000 C 35000 R 36500 W 36500	5	MAIN - WING 2 x 360 AUX. - WING 2 x 121 BOMB BAY 1 x 250 TOT-1212	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	2-2000 6- 250 TOT-5500	STD. 24V (SEE NOTE) "A"	TECHNICAL ORDER 01-35MA-1. SEE GENERAL NOTES SHOWN AT BOTTOM COVERING ALL B-26 MODELS.	
B-26A-1	2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	5	MAIN - WING 2 x 360 AUX. - WING 2 x 121 BOMB BAY 2 x 250 TOT-1162	1-.30 1-.30 1-.50 2-.50	600 600 400 400	AS ABOVE	AS	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	
B-26B	2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	5	AS ABOVE	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)	AS ABOVE	AS ABOVE	AS ABOVE	
B-26B-20	2	PRATT-WHITNEY R-2800-43 SINGLE STG., 2 SPD. CURTISS 13'6" DIA., 4BL., P.P., ELECTROMATIC	T 2000/ SL M 2000/ 1500 C 1600/ 6500 1450/14000	S 71'0" L 58'3" H 22'10" W 659 SQ. FT.	B 25000 C 37000 R 38200 W 38200	5	MAIN - WING 2 x 360 AUX. - WING 2 x 121 BOMB BAY 4 x 250 TOT-1962	1 1 2 2 2 2 2 2	200 270 240 250 200 400 800	NOSE - FIXED NOSE - FLEX. SIDE WAIST U. PUS. PACKAGE L. PUS. PACKAGE UPPER TURRET TAIL TURRET	AS	**	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-35BA-1. * SPAN INCREASED ON B-26B-10 & SUBSEQUENT ARTICLES. ** MAXIMUM FUEL WITH TORPEDO - 1162 GAL.	
B-26B-25 & C-20	2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	5	MAIN - WING 2 x 360 AUX. - WING 2 x 121 * B. BAY - FURE 2 x 250 TOT-1162	AS ABOVE	AS ABOVE	AS ABOVE	2-2000 2-1600 4-1000 8- 500 *10- 250 *20- 100	1-2000 (TORPEDO)	4000	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-35BA-1. * REAR BOMB BAY DELETED.

## PERFORMANCE

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)										REFER. TO NOTES			
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED M.P.H.	GROUND RUN		WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE-OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER				MAX. CRUISE POWER				LONG RANGE		
		T.O. DIST. FT.	LAND. DIST. FT.		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.	RANGE MILES	ENDR. HOURS		RANGE MILES	ENDR. HOURS	RANGE MILES
B-26	24000 28000 32000 36000	1650 2100 3250 4300	2300 2900 3500 -	110 120 130 -	1200 1750 2350 3150	1600 2100 2600 -	35000	20000 15000 10000 5000 SL	280 306 297 300 284	300 750 1000 1150 1500	275 302 294 288 268	200 600 900 -	26.5 14.0 7.7 3.4 0	32500 35000	NONE 4000	1212 962	750 550	2.9 2.2	- -	- -	1050 750	4.9 3.6	- -	- -	1600 1250	8.8 7.0
B-26A-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	39500 35000	1500 4000	1162 962	900 550	3.5 2.2	- -	- -	1250 750	5.8 3.6	- -	- -	1950 1250	10.7 7.0
B-26B	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	35000	20000 15000 10000 5000 SL	270 298 291 294 281	300 750 1000 1150 1500	265 294 288 283 265	200 600 900 -	26.5 14.0 7.7 3.4 0	34500 35500 35000 36500	NONE 1500 4000 5500	1162 1162 962 962	950 900 550 500	3.5 3.5 2.2 2.2	- -	- -	1300 1250 750 700	5.8 5.8 3.6 3.6	- -	- -	2000 1950 1250 1200	11.0 10.7 7.0 7.0
B-26B-20 & C-20	28000 32000 36000 38200	2250 3050 4000 6000	2800 3100 -	115 125	1650 2200 2950 4300	2000 2500 -	37000	20000 15000 10000 5000 SL	281 305 303 303 300	300 850 1000 1100 1200	276 299 295 295 281	700 17.0 10.0 4.5 0	36200* 37000	NONE 4000	1962 962	1200 550	4.8 2.2	- -	- -	1700 750	8.1 3.6	- -	- -	2600 1250	15.3 7.0	* MUST BE STRIPPED TO 38200# GROSS WEIGHT FOR PERRY PURPOSES.
B-26B-25	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	35000 36000	NONE 4000	1162 962	900 550	3.5 2.2	- -	- -	1250 750	5.8 3.6	- -	- -	1950 1250	10.7 7.0

NOTES (A)

24VOLT RADIO SYSTEM  
SCR-211 FREQUENCY METER  
SCR-259G RADIO COMPASS  
SCR-274M COMMAND SET (or SCR-522)  
SCR-287 LIAISON SET  
SCR-535 RECEIVER (or SCR-595 or SCR-695)  
SCR-578 EMERGENCY TRANSMITTER  
RC-32 FILTER EQUIPMENT (or RC-198)  
RC-36 INTERPHONE AMPLIFIER  
RC-43 MARKER BEACON

GENERAL NOTES:

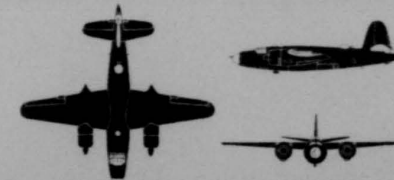
- (1) TYPICAL INSTALLATIONS SHOWN.
- (2) R-2800-5, -41 and -43 ENGINES ARE INTERCHANGEABLE ON ALL MODELS.

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

MANUFACTURED BY MARTIN

"MARAUDER"  
**B-26**

CONFIDENTIAL

1 SHEET OF SHEETS  
TYPE M. BOMBER MODELS B-26 SERIES

THIS PAGE IS UNCLASSIFIED

TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																				PAGE NO. 5
CONFIDENTIAL																				DATE JULY 20, 1943
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WEIGHT	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-REC'D.LIM. W-WAR MAX.	TANK TYPE OR LOCATION	NO.TANKS & CAPACITY (U.S.GAL.)	NO.GUNS & PER CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION			EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD (LB.)	TYPE		
A-20B	2	WEIGHT R-2600-11 2 SPD. SUPERCH. HAMILTON STD. 11'3" DIA., 3 BL., P.F., HYDROMATIC	T 1600/ SL M 1600/ 3000 C 1350/ 5500 1275/12000	S 61'4" L 48'10" H 18'1" T 17'0" W 465 SQ.'	B 15600 C 22000 R 25000 W 31000	3	MAIN-WINGS FUSELAGE BOMB BAY	4-390 TOT. 1x100 2-990 TOT. TOT-1080	1-.30 2-.30 1-.50 2-.50	500 1000 200 200	TUNNEL - FLEX. L. & R. NACHELLE REAR COCKPIT NOSE - FIXED	1-1000 1- 500 4- 250 10- 100	1-2000 T 2- 500 4- 250 4- 100	2000	SCR-274 N SCR-535 MH-25C* RC-51	TECHNICAL ORDER 01-40AC-1. * NOT INSTALLED IN ALL MODELS.				
A-20C SERIES	2	WEIGHT R-2600-23 2 SPD. SUPERCH. HAMILTON STD. 11'3" DIA., 3 BL., P.F., HYDROMATIC	T 1600/ SL M 1600/ 1000 1400/10000 C 1350/ 5000 1275/11500	S L H AS ABOVE T W	B 16200 C 22000 R 25000 W 30000	3	INBD.-WINGS OUTBD.-WINGS FUS. (BOMB B.) BOMB BAY	2x136 2x 64 2x 70 or 4-680 TOT. TOT-1050	1-.30 2-.30 4	500 NA.	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	4-500 4-250 4-100	1-2000 (TORPEDO)	2000	AS ABOVE	TECHNICAL ORDER 01-40AD-1. * CAL. 50 GUNS USED AS ALTERNATES.				
A-20G-1	2	AS ABOVE	T AS ABOVE M AS ABOVE C	S L H AS ABOVE T W	B 17500 C 22000 R 25000 W 30000	2	AS ABOVE		1-.30 1-.50 2-.50 4-20MM.	500 500 350 60	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED NOSE- TYPE M2	AS ABOVE	AS ABOVE	SCR-274N SCR-535A MH-25Y RC-36	TECHNICAL ORDER 01-40AL-1. * CAL. 50 GUN USED AS ALTERNATE.					
A-20G-5, -10, -15.	2	AS ABOVE	T AS ABOVE M AS ABOVE C	S L H AS ABOVE T W	B C R AS ABOVE W	2	AS ABOVE		1-.30* 1-.50 6-.50	500 500 350	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	AS ABOVE	AS ABOVE	AS ABOVE	* CAL. 50 GUN USED AS ALTERNATE.					
A-20G-20	2	AS ABOVE	T AS ABOVE M AS ABOVE C	S L H AS ABOVE T W	B C R AS ABOVE W	2	INBD.-WINGS OUTBD.-WINGS FUS. (BOMB B.) DROP.-EXTR.	2x136 2x 64 3-325 TOT. 1x380 TOT-1105	1 2 6	500 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	4-500 4-250 4-100	1-2000 T 4-500 I 4-500 I 4-250 4-100 TOT-4000	SCR-274N SCR-535 MH-25Y RC-36						

PERFORMANCE																				I - EXTERNAL T - TORPEDO I - INTERNAL							
MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE-NO WIND)					HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)					RANGE & ENDURANCE (STATUTE AIRMILES-NO WIND-NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES						
	GROSS WEIGHT LB.	TO CLEAR 50'		D LANDING SPEED M.P.H.	GROUND RUN		WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE-OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT.		MAX. CRUISE POWER AT 25000 FT.		LONG RANGE AT 10000 FT.							
		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.	RANGE ENDR. MILES	RANGE ENDR. HOURS	RANGE ENDR. MILES	RANGE ENDR. HOURS		RANGE ENDR. MILES	RANGE ENDR. HOURS	RANGE ENDR. MILES	RANGE ENDR. HOURS		
A-20B	17000 19000 23000 27000	- 2800 4450 6150	2150 2500 3150 -	88 95 113 -	1500 1650 2000 -	-	-	SAME AS	A-20G	24000 21500	NONE 1000	1080 1490	830 360	3.4 1.4	1140 490	5.4 2.1	1440 580	7.0 2.7	- -	- -	2100 860	12.5 5.6					
A-20C SERIES		AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE			SAME AS	A-20G	23400 22100	NONE 2000	1080 540	880 420	3.3 1.5	- -	1180 690	6.6 3.1	- -	- -	2300 850	12.0 4.5						
A-20G-1		AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	22000				25000 20000 15000 10000 5000 SL	279 303 315 318 303 298	200 650 1100 1950 1600 1800	277 300 312 310 297 284	200 550 900 1450 -	32.8 18.1 11.0 6.2 2.8 0	25300 24000 24000 24000	NONE 2000 2000 2000	1080 540 540 540	900 450 430	3.3 1.7 1.7	- - -	1500 710 660	6.6 2.9 2.9	- - -	2200 970 870	11.4 4.8 5.0	
A-20G-5, -10, -15.		AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE			AS ABOVE																			
A-20G-20		AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE			NO DATA															T - TORPEDO REPLACES INTERNAL BOMBS WHEN IT IS CARRIED.				

COLUMN-1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
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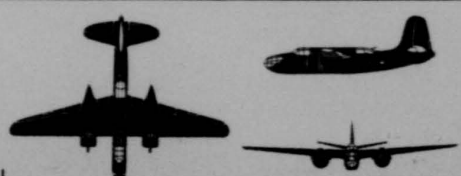
NOTES: FUSELAGE TANKS IN A-20C AND SUBSEQUENT MODELS ARE CARRIED IN BOMB BAYS WITHOUT AFFECTING BOMB LOAD CAPACITY. RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK.

REVISOR 2-21-43.

"HAVOC"  
**A-20**

MANUFACTURED BY DOUGLAS

CONFIDENTIAL



TYPE L BOMBER MODELS A-20 SERIES SHEET OF SHEETS



THIS PAGE IS UNCLASSIFIED

**TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART**

PAGE NO. 6  
DATE JULY 29, 1943

CONFIDENTIAL

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WEIGHT	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO TYPE	REMARKS & PEFERENCE
	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-REC'D.LIM. W-WAR MAX.	TANK TYPE OR LOCATION	NO.TANKS & CAPACITY (U.S.GAL.)	NO.GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE		
C-46A	PRATT-WHITNEY R-2800-51 TWO SPEED HAMILTON STD. 15"0" DIA., 3 BL., P.F., HYDROMATIC	T 2000/ SL M 2000/ 1500 C 1500/ 5700	S 108'0" L 76'4" H 22'0" T 26'0" W 1360 SQ. FT.	B 31000 C 45000 R 46000 W 50000	3	WING PANELS FUSELAGE	6-1400 TOT 8 x 100						SCR-211, 269, 274, 287, 578, 695, RC-36, 43, 103 & 198.	*NEW C-46A'S HAVE 1/2 BLADE CURTISS PROPS. TECHNICAL ORDER IN PREPARATION. NOTE: 25 EACH C-46'S SIMILAR TO C-46A EXCEPT SMALL CARGO DOOR AND RECOMMENDED LIMIT OF 40000 LB. GROSS WEIGHT.
C-47 & A C-53, C & D	PRATT-WHITNEY R-1830-92 INTEGRAL SUPER. HAMILTON STD. 11'7" DIA., 3 BL., P.F., HYDROMATIC	T 1200/ SL 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 31000	3	MAIN - WING AUX. - WING FUSELAGE	2 x 202 2 x 200 8 x 100						SCR-578, 211, 269, 274, 287 & 595. RC-36, 43, 103 & 198.	TECHNICAL ORDER 01-400-1. C-47 AND C-53 SERIES ARE SIMILAR EXCEPT FOR LARGE CARGO DOOR ON C-47'S. C-47, C-53 & C-53C INSTALLED WITH 12 VOLT RADIO SYSTEM INSTEAD OF 24 VOLT SYSTEM. C-53 SERIES CARRY 28 TROOPS OR 18 LITTERS.
C-54A	PRATT-WHITNEY R-2000-3 OR -7 TWO SPEED HAMILTON STD. 13'1" DIA., 3 BL., P.F., HYDROMATIC	T 1290/ SL M 1290/ 3000 C 940/ 13200	S 137'6" L 95'10" H 27'6" T 24'8" W 1460 SQ. FT.	B 37000 C 58000 R 62000 W 65000	6	INBD. - WING OUTBD. - WING FUSELAGE	2 x 508 2 x 435 4 x 164						SCR-578, 211, 269, 274, 287 & 595. RC-36, 43, & 198.	TECHNICAL ORDER 01-400-1. 30 TROOPS WITH FUSELAGE TANKS-3742 GAL. 50 TROOPS WITHOUT FUSEL. TANKS-1886 GAL. SEE ALSO NOTE OPPOSITE PERFORMANCE.
C-60A	WRIGHT R-1820-67 TWO SPEED HAMILTON STD. 10'6" DIA., 3 BL., P.F., HYDROMATIC	T 1200/ SL 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						SCR-578, 211, 269, 274, 287 & 595. RC-36, 43, 103 & 198.	TECHNICAL ORDER 01-750-1. C-60 DOES NOT CARRY RC-103. EARLIER MODELS CARRY SCR-575 IN PLACE OF SCR-595. **NOTE: 1200# BALLAST IN NOSE REQUIRED TO BALANCE PARATROOPS.

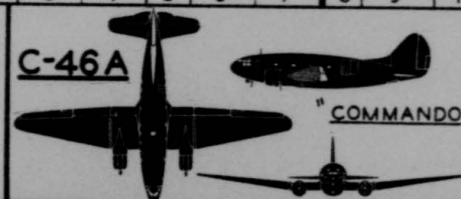



NOTE: FIGURES IN END ARE PRELIMINARY AND SUBJECT TO REVISION AFTER FLIGHT CHECK

**PERFORMANCE**

\*\* AN/ARR-1 ON APPROX. 1/2 OF TOTAL PLANES. SOME PLANES EQUIPPED WITH RADIO ALTIMETER SCR-518 AND AN ADDITIONAL COMPASS SCR-269.

MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE-NO WIND)				HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)					RANGE & ENDURANCE (STATUTE AIRMILES-NO WIND-NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES			
	GROSS WEIGHT LB.	TO CLEAR 50' T.O. DIST. FT.		LANDING DIST. FT.	GROUND RUN T.O. DIST. FT.	LTD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER			TAKE-OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT.		MAX. CRUISE POWER AT 25000 FT.		LONG RANGE AT 10000 FT.				
		FT.	FT.				FT.	FT.	FT.	FT.	FT./MIN.				M.P.H.	FT./MIN.	MIN.	RANGE MILES	ENDR. HOURS		RANGE MILES	ENDR. HOURS	RANGE MILES
C-46A	30000 29000 15000 50000	1800 2000 1400 6300	1800 2000 2250 -	1100 1300 2100 3600	15000 10000 5000 SL	2000 15000 10000 5000	x x x x	530 780 900 1100	- - - -	400 650 750 900	28.4 18.6 11.6 5.5	50000 15000 45000 50000	2000 3000 5000 10000	2200 1400 1050 1050	- - - -	- - - -	2700 1800 1350 1100	15.0 10.0 7.5 5.5	- - - -	3000 2000 1500 1200	20.0 13.5 10.0 7.5	*HIGH SPEED IN PRELIMINARY TEST- 264 MPH. AT 13000' ALT. & 38200# GROSS WT. ** MAX. PERMISSIBLE LEVEL FLIGHT SPEED FOR 29000 LB. ** 6000 LB. CARGO OR 28 TRPS.	
C-47 & A C-53, C & D	21000 23000 26000 29000	- 1850 2400 3130	2100 2300 2600 -	66 69 73 2000	1300 1100 1550 1600	20000 15000 10000 5000	204 220 217 202	225 500 800 1175	201 217 720 202	180 450 720 920	37.0 20.0 11.0 5.0	29000 26000 29000	NONE 2000 6000	1600 1000 800	1500 960 750	7.6 4.7 3.7	- - -	2300 1440 1100	13.0 7.9 6.2	- - -	3100 2050 1550	19.3 12.7 10.0	* MAX. PERMISSIBLE LEVEL FLIGHT SPEED FOR 29000 LB. ** 6000 LB. CARGO OR 28 TRPS.
C-54A	45000 55000 60000 65000	1750 2800 3400 4390	2900 3400 1900 -	80 90 70 2350	1800 1600 2200 -	20000 15000 10000 5000	- - - 272	- - - 1150	269 278 276 260	425 800 1000 1100	24.4 16.0 9.4 4.4	62500 65000 59000 65000	NONE 8000 8000 14000	3742 2814 1856 1856	- - - -	- - - -	3430 2900 1615 1585	16.2 12.0 7.7 7.7	- - - -	4265 2910 1950 1785	26.0 17.1 11.7 10.8	* MAX. PERMISSIBLE LEVEL FLIGHT SPEED FOR 29000 LB. ** 6000 LB. CARGO OR 28 TRPS.	
C-60A	14000 17500 18500 21500 23000	- 1800 2050 2850 3300	2150 2600 2700 -	61 70 1150 1900	1700 2100 2200 -	20000 15000 10000 5000	259 269 260 255	650 1300 1100 1600	255 262 255 247	500 1000 1200 -	19.0 11.0 7.0 3.0	21500 23000	1450 5000	1046 644	980 600	4.5 2.7	- -	1430 850	7.0 4.3	- -	2300 1200	14.4 7.7	* MAX. PERMISSIBLE LEVEL FLIGHT SPEED FOR 29000 LB. ** 6000 LB. CARGO OR 28 TRPS.

COLUMN-1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

<p>MANUFACTURERS</p> <p>C-46A - CURTISS C-47, A - DOUGLAS C-53, C &amp; D - DOUGLAS C-54A - DOUGLAS C-60A - LOCKHEED</p>	<p><b>C-46A</b></p>  <p>"COMMANDO"</p>	<p><b>C-47A</b></p>  <p>"SKYTRAIN"</p>	<p><b>C-54A</b></p>  <p>"SKYMASTER"</p>	<p><b>C-60A</b></p>  <p>"LODESTAR"</p>
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SHEET OF SHEETS MODELS C-46A, C-47A, C-53, C-54A, C-60A

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																				PAGE NO. 7
CONFIDENTIAL																				DATE JULY 20, 1943.
MODEL & BLOCK NO.	ENGINE & PROP.			SIZE		WEIGHT		COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE		
	Q 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-REC'D.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					
<u>P-38E</u>	2	ALLISON V-1710-27 & 29 TURBO CURTISS 11'6" Dia; 3bl. F.F.,electronic	T 1150/S.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 Tot-300	4-.50 1-20mm *150	500 *150	NOSE-FIXED NOSE-MI	NO	BOMBS CARRIED	2000	SCR-183	Tech.order 01-75PB-1. * 20mm ammunition limited to 60 rounds if CHATELIERAULT feed is not used.				
<u>P-38F</u>	2	ALLISON V-1710-49 & 53 TURBO CURTISS 11'6" Dia; 3bl. F.F.,electronic	T 1225/S.L. M 1225/21000 C 1000/27000	S L HAS ABOVE H T W	B 13000 C 15300 R 20000 W -	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	2000	SCR-183 or SCR-27LN	Tech.order 01-75PB-1.				
<u>P-38F SERIES</u> (-1,-5,-13 & -15)	2	AS ABOVE	T M C	S L HAS ABOVE H T W	B 13600 C 15900 R 20000 W -	1	MAIN-WING RES.-WING PROP.-EXT.	2 x 90 2 x 60 2 x 75,150 or 300 Tot-900	AS ABOVE	AS ABOVE	NONE	2-1000 or 2- 500 or 2- 325 or 2- 250 or 2- 100.	2000	SCR-522 and SCR-535	Tech.order 01-75PB-1.					
<u>P-38G SERIES</u> (-1,-3,-5, -10 & -15)	2	ALLISON V-1710-51 & 55 TURBO CURTISS 11'6" Dia; 3bl. F.F.,electronic	T 1225/S.L. M 1225/21000 C 1100/24000	S L HAS ABOVE H T W	B 13500 C 15800 R 20000 W -	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	**	SCR-522 and SCR-535*	Tech.order 01-75PB-1. * Being replaced by SCR-695 on P-38G-15. ** 2-1600# A.P. bombs added to P-38G-10's only.				
<u>P-38H-1</u> & <u>P-38J-1</u>	2	ALLISON V-1710-89 & 91 TURBO CURTISS 11'6" Dia; 3bl. F.F.,electronic	T 1425/S.L. M *1425/25000 C 1100/25000	S L HAS ABOVE H T W	B 13700 C 16000 R 20000 W -	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	NONE	2-1600 or 2-1000 or 2- 500 or 2- 250 or 2- 100.	r 3200	AS ABOVE	Tech.order 01-75PB-1. * Military rating of P-38H-1 limited to 1200 HP, because of inadequate cooling. Core type intercoolers installed in P-38J-1.					

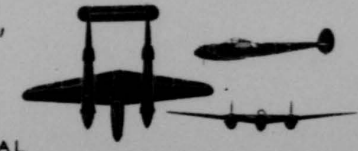
  

PERFORMANCE																											
MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE-NO WIND)						HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)						RANGE & ENDURANCE (STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE)								REFER. TO NOTES						
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED M.P.H.	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.		RANGE MILES	ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES	ENDR. HOURS
<u>P-38E</u>	13000 14500 15500	- 1950 2200	2650 2900 -	83 88 -	- 1200 1330	1400 1550 -	15000	25000 20000 15000 10000 5000	390 360 355 340	2100 2300 2500 2700 2900	380 365 353 340 328	1500 1800 2100 -	11.0 8.0 6.0 4.0 2.0	15500	NONE	300	450 470	1.5 1.5	470 750	3.0 2.7	750 580	2.7 4.4					
<u>P-38F</u>	13500 15000 15800	- 2150 2300	2750 2980 -	85 90 -	- 1280 1380	1450 1580 -	15300	SUBSTANTIALLY SAME		AS P-38E			15800	NONE	300	390 410	1.3 1.3	410 690	2.7 2.7	680 680	2.4 2.4	890 4.5					
<u>P-38F SERIES</u> (-1,-5,-13 & -15)	13500 15000 15500 17500 19900	- 2150 2270 3040 4000	2750 2980 3050 3350 -	85 90 91 97 -	- 1280 1360 1830 2400	1450 1580 1620 1800 -	17900	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 19900 18000 17000	NONE NONE NONE 2000 1000	900 600 300 300 300	1370 810 390 370 380	5.0 2.9 1.3 1.3 1.3	1450 865 410 620 390	5.0 2.9 2.7 2.8 1.3	2050 1400 690 680 660	9.3 6.1 2.7 2.8 2.8	2050 1420 680 590 640	8.6 5.4 2.4 2.3 2.4	2800 1750 890 800 850	9.9 4.5 4.5 4.1 4.3	
<u>P-38G SERIES</u> & <u>P-38H-1</u>	SAME AS P-38F-15						15600	SUBSTANTIALLY SAME		AS P-38F-15.																	
<u>P-38J-1</u>	15000 15900 17500 19500 20300	- 2000 2500 3200 4000	2750 2980 3050 3350 -	86 93 100 100 -	- 1200 1600 2000 2300	1400 1550 1600 1800 -	16000	25000 20000 15000 10000 5000	400 390 380 370 350	1700 2300 2500 2600 2800	390 377 362 347 333	1500 1900 2100 -	11.5 8.5 5.9 3.7 1.8	20300 18300 16500 18300 19500	NONE NONE NONE 2000 3000	900 600 300 300 300	1300 750 370 320 300	5.0 2.9 1.3 1.3 1.3	1350 800 370 320 300	5.0 2.9 2.7 2.8 2.7	2050 1350 650 580 580	9.3 6.1 2.7 2.8 2.7	2050 1420 680 590 640	8.6 5.4 2.4 2.3 2.4	2800 1750 890 800 850	9.9 4.5 4.5 4.1 4.3	

COLUMN-1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
NOTES	SEE FIGURE AND PRELIMINARY SUBJECT TO REVISION AFTER FLIGHT CHECK * REVISED 8-21-43.																										

"LIGHTNING"	
<b>P-38</b>	
CONFIDENTIAL	

MANUFACTURED BY LOCKHEED

TYPE FIGHTER MODELS P-38 SERIES SHEET OF SHEETS



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PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE NO. 7

DATE JULY 20, 1943.

PROP.	SIZE	WEIGHT	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE
				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.)		
H.P./ALT. TAKE-OFF MILITARY CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-RECD. LIM. W-WAR MAX.											
1150/ S.L. 1150/25000 1000/28000	S 52' 0" L 37' 10" H 12' 10" T 16' 6" W 328 Sq. ft.	B 12700 C 15000 R 20000	1	MAIN-WING RES.-WING	2 x 90 2 x 60 Tot-300	4-.50 1-20mm	500 150	NOSE-FIXED NOSE-MI				SCR-183	Tech.order 01-75FB-1. * 20mm ammunition limited to 60 rounds if CHATELLEHAULT feed is not used.
1225/ S.L. 1225/21000 1000/27000	S L H AS ABOVE T W	B 13000 C 15300 R 20000	1	AS ABOVE		AS ABOVE		AS ABOVE				SCR-183 or SCR-274N	Tech.order 01-75FB-1.
AS ABOVE	S L H AS ABOVE T W	B 13600 C 15900 R 20000	1	MAIN-WING RES.-WING DROPP.-EXT.	2 x 90 2 x 60 2 x 75 150 or 300 Tot-900	AS ABOVE		AS ABOVE	NONE	2-1000 or 2- 500 or 2- 325 or 2- 250 or 2- 100.	2000	SCR-522 and SCR-535	Tech.order 01-75FB-1.
1225/ S.L. 1225/21000 1100/24000	S L H AS ABOVE T W	B 13500 C 15800 R 20000	1	AS ABOVE		AS ABOVE		AS ABOVE		**		SCR-522 and SCR-535*	Tech.order 01-75FB-1. * Being replaced by SCR-695 on P-38B-15. ** 2-1600# A.P. bombs added to P-38B-10's only.
1425/ S.L. 1425/25000 1100/25000	S L H AS ABOVE T W	B 13700 C 16000 R 21000	1	AS ABOVE		AS ABOVE		AS ABOVE	NONE	2-1600 or 2-1000 or 2- 500 or 2- 250 or 2- 100.	r 3200	AS ABOVE	Tech.order 01-75FF-1. * Military rating of P-38B-1 limited to 1240 HP. because of inadequate cooling. Core type intercoolers installed in P-38B-1.

PERFORMANCE

LANDING (NO WIND)			HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)					RANGE & ENDURANCE (STATUTE AIRMILES - NO WIND - NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES				
T.O. DIST.	LAND. DIST.	WEIGHT	STD. ALT.	MIL. POWER	MAX. CONTIN. POWER	TAKE-OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE									
FT.	FT.	LB.	FT.	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 10000 FT.								
- 1200 1330	1400 1550 -	15000	25000 20000 15000 10000 5000	390 380 365 355 340	2100 2000 2000 2700 2900	380 365 353 340 328	1500 1800 2100 -	11.0 8.0 6.0 4.0 2.0	15500	NONE	300	450	1.5	470	1.5	750	3.0	750	2.7	880	4.4	
- 1280 1380	1450 1580 -	15300	SUBSTANTIALLY SAME AS P-38E					15800	NONE	300	390	1.3	410	1.3	690	2.7	680	2.4	890	4.5		
- 1280 1360 1830 2400	1450 1580 1620 1800 -	17900	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 18000 17000	NONE NONE NONE 2000 1000	900 600 300 300 300	1370 810 390 370 380	5.0 2.9 1.3 1.3 1.3	1450 865 410 370 390	5.0 2.9 1.3 1.3 1.3	2050 1100 690 620 660	9.3 6.1 2.7 2.8 2.8	2050 1420 680 590 640	8.6 5.4 2.4 2.3 2.4	1750 890 800 850	9.1 4.5 4.1 4.3	
- 15		15800	SUBSTANTIALLY SAME AS P-38F-15.																			
- 1600 2000 2300	1450 1600 -	16000	25000 20000 15000 10000 5000	400 390 380 370 360	2700 2900 3000 3100 3200	375 360 345 330 315	1400 1500 1600 -	11.0 8.0 5.0 3.0 1.8	20300 18300 15300 18300 19500	NONE NONE NONE 2000 3200	900 600 300 300 300	1300 790 390 320 390	5.0 2.9 1.3 1.3 1.3	1350 800 370 320 300	5.0 2.9 1.3 1.3 1.3	1950 1350 690 590 660	9.3 6.1 2.7 2.8 2.7	1950 1350 690 590 660	8.6 5.4 2.4 2.3 2.4	1700 850 790 700	9.3 4.5 4.1 4.3	

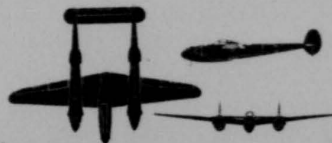
1 SHEET OF SHEETS  
P-38 SERIES  
FIGHTER MODELS

SUBJECT TO REVISION AFTER FLIGHT CHECK

"LIGHTNING"


P-38

CONFIDENTIAL



MANUFACTURED BY LOCKHEED

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																				PAGE NO. 8							
CONFIDENTIAL																				DATE JULY 20, 1943.							
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WEIGHT		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												
<u>P-39D</u>	1	ALLISON W-1710-35 SINGLE SPD. CURTISS r 10'5" Ma; 3bl. F.F., electromagnetic	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 7500 C 7500 R 2000 W	1	WING TOTALS 12 - 120 IROP.-BELLY 1 x 75 Tot-195	1/2-.30 2-.50 1-37mm	*1000 200 30	WING - FIXED FUSEL.-FIXED PROP.HUB-M1	NONE	1-500 or 1-325 or 1-250 or 1-100.	500	SCR-283	Tech.order 01-110PB-1.												
<u>P-39D-1</u>	1	AS ABOVE	M AS ABOVE C	S L H AS ABOVE T W	B C R W	1	WING TOTALS 12 - 120 IROP.-BELLY 1 x 75 or 1 x 156 Tot-276	1/2-.30 2-.50 1-20mm	*1000 200 60	WING - FIXED FUSEL.-FIXED PROP.HUB-M1	A S	A B O V E		SCR-27LN or SCR-522A & SCR-535A	Tech.order 01-110PB-1.												
<u>P-39D-2</u>	1	ALLISON W-1710-63 SINGLE SPD. CURTISS r 10'5" Ma; 3bl. F.F., electromagnetic	T 1325/ S.L. M 1150/12000 C 1000/10800	S L H AS ABOVE 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	Tech.order 01-110PB-1.												
<u>P-39F</u>	1	ALLISON W-1710-35 SINGLE SPD. AERO PRODUCTS r 10'5" Ma; 3bl. F.F., hydromatic	T 1150/ S.L. M 1150/12000 C 1000/10800	S L H AS ABOVE T W	B C R W	1	WING TOTALS 12 - 120 IROP.-BELLY 1 x 75 Tot-195	1/2-.30 2-.50 1-37mm	*1000 200 30	WING - FIXED FUSEL.-FIXED PROP.HUB-M1	A S	A B O V E		SCR-283	Tech.order 01-110PB-1.												
<u>P-39K-1</u>	1	ALLISON W-1710-63 SINGLE SPD. AERO PRODUCTS r 10'5" Ma; 3bl. F.F., hydromatic	T 1325/ S.L. M 1150/12000 C 1000/10800	S L H AS ABOVE T W	B C R W	1	WING TOTALS 12 - 120 IROP.-BELLY 1 x 75 or 1 x 156 Tot-276	A S	A B O V E	A S	A B O V E	A S	A B O V E	SCR-27LN or SCR-522A & SCR-535A	Tech.order 01-110PB-1.												
PERFORMANCE																											
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)										REFER. TO NOTES						
	GROSS WEIGHT LB.	T.O. DIST. FT.	LAND. DIST. FT.	T.O. LANDING SPEED M.P.H.	GROUND RUN DIST. FT.	WEIGHT LB.	STD. ALT. 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.	TAKE-OFF WEIGHT LB.	BOMBS CARGO PASS LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT. RANGE ENDR. MILES	MAX. CONTINUOUS POWER AT 25000 FT. RANGE ENDR. MILES	MAX. CRUISE POWER AT 10000 FT. RANGE ENDR. MILES	MAX. CRUISE POWER AT 25000 FT. RANGE ENDR. MILES	LONG RANGE AT 10000 FT. RANGE ENDR. MILES							
<u>P-39D</u>	7500	2400	1700	1700	7800	25000	135	540	120	120	2.5	5200	NONE	195	110	1.6	500	2.5	350	2.5	110	1.6					
<u>P-39D-1</u>												8900	NONE	276	110	1.6	500	2.5	350	2.5	110	1.6					
<u>P-39D-2</u>																											
<u>P-39F</u>																											
<u>P-39K-1</u>																											
COLUMN-1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
NOTES	<p>SEE MANUALS AND INSTRUCTIONS: STRAP IN SEATBELT AFTER FLIGHT CHECK</p> <p>TAKE-OFF AND LANDING DATA APPLICABLE IN CERTAIN-COMPLITE REVISION NOW UNDERWAY.</p> <p>* MILITARY POWER AVAILABLE FOR 15 MINUTES.</p> <p>* 1000 rounds per gun max. used for ground strafing: 300 rds./gun normal.</p> <p>r REVISED 8-21-43.</p>																										
RANDOM P-39 MODELS MODIFIED FOR AIR/GROUND SUPPORT BY INSTALLATION OF CAMERAS, BELLY ARMOR, ETC.															MANUFACTURED BY BELL												
															<p>"AIRACOBRA"</p> <p><b>P-39</b></p> <p>CONFIDENTIAL</p> 												

2 SHEETS OF SHEETS  
P-39 SERIES  
MODELS P-39 SERIES  
TYPE FIGHTER



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																				PAGE NO. 9
CONFIDENTIAL																				DATE JULY 20, 1943.
MODEL & BLOCK NO.	ENGINE & PROP.			SIZE	WEIGHT	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-REC'D.LIM. W-WAR MAX.	TANK TYPE OR LOCATION	NO.TANKS & CAPACITY (U.S.GAL.)	NO.GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION			EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD (LB.)	TYPE	
P-39L-1	1	ALLISON V-1710-63 SINGLE SPD. CURTISS r 10'5" Dia., 3bl. F.F., electric	T 1325/S.L. M 1150/12000 C 1000/10600	S 34'0" L 30'2" H 11'10" T 11'4" W 213 sq.ft.	B 6250 C 7700 R 9900 W -	1	WING TOTALS 12 - 120 DROPP.-BELLY 1 x 75 or 1 x 156 Tot - 276	4-.30 2-.50 1-37mm	* 1000 200 30	WING - FIXED NOSE - FIXED PROP. HUB - M.	NONE	1-500 or 1-325 or 1-250 or 1-100.	500	SCR-274N or SCR-522A & SCR-535A	Tech.order 01-110FG-1. * 1000 rounds per gun max. used for ground strafing. 300 rds./gun normal.					
P-39M-1	1	ALLISON V-1710-63 SINGLE SPD. CURTISS r 10'5" Dia., 3bl. F.F., electric	T 1200/S.L. M 1125/15500 C 1000/11400	S L HAS ABOVE H AS ABOVE T W	B C R AS ABOVE W	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	Tech.order 01-110MH-1.					
P-39N SERIES (-0,-1,-5)	1	ALLISON V-1710-85 SINGLE SPD. ARNO PRODUCTS 11'7" Dia., 3bl. F.F., hydraulic	T M AS ABOVE C	S L H AS ABOVE T W	B C R 7400 W -	1	WING TOTALS 8 x 87 DROPP.-BELLY 1 x 75, 156 or 1 x 175 Tot - 262	** SEE REMARKS	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	SCR-274N or SCR-522A & SCR-535A	Tech.order 01-110FN-1. * SCR-695 will replace SCR-535A on the P-39N-5 series only. ** The 1st. 156 P-39N-0 have built-in fuel capacity of 120 gal. instead of 87					
P-39Q SERIES (-1,-5,-10)	1	AS ABOVE	T M AS ABOVE C	S L H AS ABOVE T W	B C R AS ABOVE W	1	SEE REMARKS	2-.50 2-.50 1-37mm	300 200 30	WING - FIXED NOSE - FIXED PROP. HUB - M.	AS ABOVE	AS ABOVE	AS ABOVE	SCR-274N or SCR-522A and SCR-535A or SCR-695	Tech.order 01-110FN-1. * P-39Q-1 built-in fuel capacity 87 gal. r P-39Q-5 " " " " 110 gal. r P-39Q-10 " " " " 120 gal.					
			T M C	S L H T W	B C R W															

PERFORMANCE																					
MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE - NO WIND)					HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)					RANGE & ENDURANCE (STATUTE AIRMILES - NO WIND - NO ALLOWANCE FOR RESERVE)									REFER. TO NOTES	
	GROSS WEIGHT LB.	TO CLEAR 50' T.O. DIST. FT.		LANDING SPEED M.P.H.	GROUND RUN T.O. DIST. FT.		STD. ALT. FT.	MIL. POWER HIGH SPEED M.P.H.		MAX. CONTIN. POWER RATE OF CLIMB FT./MIN.		TAKE-OFF WEIGHT LB.	BOMBS CARGO PASS LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT.		MAX. CRUISE POWER AT 25000 FT.		LONG RANGE AT 10000 FT.		
		FT.	FT.		FT.	FT.		M.P.H.	FT./MIN.	M.P.H.	FT./MIN.				MIN.	RANGE MILES	ENDR. HOURS	RANGE MILES	ENDR. HOURS		RANGE MILES
P-39L-1						7700	25000 20000 15000 10000 5000	320 317 354 335	600 1170 1750 2190 2550	300 350 360 320	11.0 9.8 8.3 7.0 6.0	8700 8200 7700 8200	NONE NONE NONE 500	276 195 120 120	550 400 280 200	2.1 1.4 1.0 1.6	- - 550 450 300	3.4 2.5 1.6 1.3	- - - -	1100 800 500 450	6.5 4.7 2.9 2.6
P-39M-1						7700	25000 20000 15000 10000 5000	352 348 372 351 330	900 1550 2150 2390 2160	336 350 355 330	13.0 9.1 5.4 4.2 2.1										
P-39N SERIES (-0,-1,-5)						7400	25000 20000 15000 10000 5000	368 375 376 357 330	1250 1950 2550 2700 2700	350 355 345 345 320	10.8 7.8 5.6 3.7 1.9	8500 8500 8000 7500 8000	NONE NONE NONE NONE 500	262 243 162 87 87	500 700 340 180 150	2.0 1.4 1.3 0.6 0.6	700 510 280 220	3.0 2.1 1.0 1.0	- - - -	1000 900 650 350 280	5.4 4.0 3.4 1.7 1.5
P-39Q-1																					
P-39Q-5 & -10																					




  

MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE - NO WIND)	HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)	RANGE & ENDURANCE (STATUTE AIRMILES - NO WIND - NO ALLOWANCE FOR RESERVE)
P-39L-1	AS ABOVE	AS ABOVE	AS ABOVE
P-39M-1	AS ABOVE	AS ABOVE	AS ABOVE
P-39N SERIES (-0,-1,-5)	AS ABOVE	AS ABOVE	AS ABOVE
P-39Q-1	AS ABOVE	AS ABOVE	AS ABOVE
P-39Q-5 & -10	AS ABOVE	AS ABOVE	AS ABOVE

COLUMN - 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
NOTES	1. ALL FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECKS. 2. TAKE-OFF AND LANDING DATA IN T.O. DIST. IS INCONSISTANT AND COMPLETE REVISION IS NOW UNDERWAY. 3. MILITARY POWER AVAILABLE FOR 15 MINUTES. 4. REVISED 8-21-43.																										

"AIRACOBRA"	
P-39	
CONFIDENTIAL	
	
	

MANUFACTURED BY BELL

SHEET OF SHEETS  
P-39 SERIES  
TYPE FIGHTER MODELS P-39 SERIES

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AL PLANNING CHARACTERISTICS & PERFORMANCE CHART PAGE NO. 9  
DATE JULY 20, 1943.

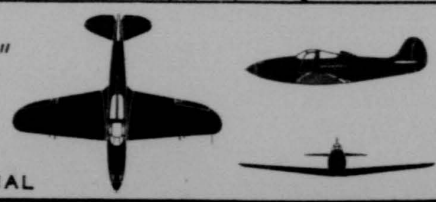
GR.	B.H.P./ALT.	S-SPAN L-LENGTH M-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-RECD.LIM. W-WAR MAX.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE
					TANK TYPE OR LOCATION	NO. TANKS & CAPACITY (U.S. GAL.)	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD (L.B.)		
T M C	1325/S.L. 1150/12000 1000/10600	S 34'0" L 30'2" H 11'10" T 11'4" W 213 sq.ft.	B 6450 C 7700 R 9000 W -	1	WING TOTALS DROPP.-BELLY 12 - 120 1 x 75 or 1 x 156 Tot - 276	4-30 2-50 1-37mm	* 1000 200 30	WING - FIXED NOSE - FIXED PROP. HUB-M4	NONE	1-500 or 1-325 or 1-250 or 1-100.	500	SCR-274N or SCR-522A & SCR-535A	Tech.order 01-110FG-1.  * 1000 rounds per gun max. used for ground strafing. 300 rds./gun normal.	
T M C	1200/S.L. 1125/15500 1000/14000	S L H AS ABOVE M AS ABOVE T W	B C R 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	A S A B O V E	Tech.order 01-110FH-1.	
T M C	AS ABOVE	S L H AS ABOVE M AS ABOVE T W	B C R W	1	WING TOTALS DROPP.-BELLY 8 x 87 1 x 75, 156 or 1 x 175 Tot - 262  ** SEE REMARKS	A S	A B O V E	A S	A B O V E	A S	A B O V E	SCR-274N or SCR-522A & SCR-535A	Tech.order 01-110FM-1.  * SCR-695 will replace SCR-535A on the P-39N-5 series only. ** The 1st. 166 P-39N-0 have built-in fuel capacity of 120 gal. instead of 87	
T M C	AS ABOVE	S L H AS ABOVE M AS ABOVE T W	B C R W	1	SEE REMARKS	2-50 2-50 1-37mm	300 200 30	WING - FIXED NOSE - FIXED PROP. HUB-M4	A S	A B O V E		SCR-274N SCR-522A and SCR-535A SCR-695 or	Tech.order 01-110FH-1.  * P-39Q-1 built-in fuel capacity 87 gal. r P-39Q-5 " " " " 110 gal. r P-39Q-10 " " " " 120 gal.	
T M C		S L H T W	B C R W											

PERFORMANCE

TAK-OFF & LANDING (FACE-NO WIND)				HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)					RANGE & ENDURANCE (STATUTE AIRMILES - NO WIND - NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES							
50' ND. ST.	LANDING SPEED T. M.P.H.	GROUND RUN		STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER			TAK- OFF WEIGHT LB.	BOMBS CARGO P.A.S.S. LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER				MAX. CRUISE POWER				LONG RANGE					
		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.		RANGE MILES	ENDR. HOURS			
				7700	25000 20000 15000 10000 5000	323 317 350 351 335	600 1150 1720 2250 2550	309 336 342 341 322	11.4 9.8 6.5 4.0 2.0	8700 8200 7700 8200	NONE NONE NONE 500	276 195 120 120	950 1200 250 200	2.1 1.5 1.0 1.0	- 550 140 300	- 2.8 1.4 1.2	750 750 500 300	2.4 2.5 1.5 1.7		- - - -	- - - -	1100 800 500 160	6.5 4.7 2.9 2.5			
				7700	25000 20000 15000 10000 5000	352 368 372 351 330	900 1550 2150 2750 2600	336 350 365 339 320	13.0 9.1 5.4 4.2 2.1																	
				7400	25000 20000 15000 10000 5000	368 375 376 387 330	1250 1950 2550 2700 2700	350 395 365 345 320	10.8 7.8 5.6 3.7 1.9	8600 8500 8000 7500 8000	NONE NONE NONE NONE 500	262 213 162 87 87	530 380 360 180 150	2.0 1.4 1.3 0.6 0.6	- 700 510 280 220	- 3.0 2.1 1.0 1.0	- - - - -	- - - - -	- - - - -	- - - - -	1000 900 550 360 250	5.4 5.0 3.4 1.7 1.5				
					A S A B O V E										S A M E A S P - 3 9 B S E R I E S.											
					A S A B O V E										8600 8100 7600 8100	NONE NONE NONE 500	266 185 110 110	530 380 260 180	2.0 1.4 0.9 0.9	- 520 420 360	- 2.4 1.5 1.1	- - - -	- - - -	- - - -	1050 750 550 400	6.2 4.5 2.7 2.4

PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK  
 DATA IN T.O.'s IS INCONSISTANT AND COMPLETE REVISION IS NOW UNDERWAY.  
 TABLE FOR 15 MINUTES.  
 AIR/GROUND SUPPORT BY  
 MANUFACTURED BY BELL

"AIRACOBRA"  
**P-39**  
 CONFIDENTIAL



2 SHEETS OF SHEETS  
 2 SHEET OF SHEETS  
 TYPE FIGHTER MODELS P-39 SERIES



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**TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART**

PAGE NO. 10  
DATE JULY 20, 1943.

CONFIDENTIAL

MODEL & BLOCK NO.	ENGINE & PROP.			SIZE		WEIGHT	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	EXTERNAL NO & SIZE	MAX. LOAD (LB.)	TYPE		
P-40E & E-1	ALLISON V-1710-39 SINGLE SPD. CURTISS 11'0" Dia; 3bl. F.F., electronic	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	8400	1	FUSELAGE 1 x 62 MAIN-WING 1 x 51 RES.-WING 1 x 35 DROPP.-BELLY 1 x 52 Tot-200	6-.50	280 (average)	WING - FIXED	NONE	r 1-500 or 1-325 or 1-250 or 1-100.	r 500*	SCR-283 or SCR-274N	Tech. order 01-250P-1. P-40E & last 400 P-40E-1 have same bomb load as P-40F series.	
P-40F SERIES (-1, -5, -10, -15 & -20)	PACKARD P-1650-1 SINGLE ST; 2 SPD. CURTISS 11'0" Dia; 3bl. F.F., electronic	T 1300/S.L. M 1240/11500 C 1080/9500	S 37'4" L 33'1/4" H 12'4" T 8'2" W 236 Sq. ft.	B 7000 C 8500 R 10000 W 12000	1	8500	1	FUSELAGE 1 x 65 MAIN-WING 1 x 54 RES.-WING 1 x 37 DROPP.-BELLY 1x52,75, 150 or 170 Tot-326	A S	A B O V E	NONE	1-500 & 2-100 or 6-20. 1-325 or 1-250 or 1-100.	700	SCR-274N or SCR-522A and SCR-535A	Tech. order 01-250E-1. P-40F-1 fuselage length is 31'9". Other models have extended fuselage.		
P-40K SERIES (-1, -5, -10 & -15)	ALLISON V-1710-73 SINGLE SPD. CURTISS 11'0" Dia; 3bl. F.F., electronic	T 1325/S.L. M 1150/11800 C 1000/11000	S AS ABOVE	B 6950 C 8400 R 10000 W 12000	1	AS ABOVE	1	AS ABOVE	A S	A B O V E	A S	A B O V E	AS ABOVE	AS ABOVE	Tech. order 01-250K-1. P-40K-1 and K-5 fuselage length is 31'9". P-40K-10 and K-15 have extended fuselage.		
P-40L SERIES (-1, -5, -10, -15 & -20)	PACKARD P-1650-1 SINGLE ST; 2 SPD. CURTISS 11'0" Dia; 3bl. F.F., electronic	T 1300/S.L. M 1240/11500 C 1080/9500	S AS ABOVE	B 7000 C 8500 R 10000 W 12000	1	AS ABOVE	1	FUSELAGE 1 x 65 MAIN-WING 1 x 54 DROPP.-BELLY 1x52,75, 150 or 170 Tot-290	6-.50	300 (average)	WING - FIXED	A S	A B O V E	AS ABOVE	Tech. order 01-250L-1. P-40L-1 carries 6-.50 cal. guns of 280 rounds per gun and also front (reserve) wing tank of 37 gal. of gas.		
P-40M SERIES (-1, -5, -10)	ALLISON V-1710-61 SINGLE SPD. CURTISS 11'0" Dia; 3bl. F.F., electronic	T 1200/S.L. M 1125/11600 C 1000/13800	S AS ABOVE	B 6950 C 8400 R 10000 W 12000	1	AS ABOVE	1	FUSELAGE 1 x 65 MAIN-WING 1 x 54 RES.-WING 1 x 37 DROPP.-BELLY 1x52,75, 150 or 170 Tot-326	6-.50	280 (average)	WING - FIXED	A S	A B O V E	AS ABOVE	Tech. order 01-250M-1.		

**PERFORMANCE**

MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE - NO WIND)					HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)					RANGE & ENDURANCE (STATUTE AIRMILES - NO WIND - NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH.	GROUND RUN T.O. DIST. FT.	WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE-OFF WEIGHT LB.	BOMBS CARGO PASS LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10000 FT.		MAX. CRUISE POWER AT 25000 FT.		LONG RANGE AT 10000 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.	RANGE ENDR. MILES	RANGE ENDR. HOURS	RANGE ENDR. MILES		RANGE ENDR. HOURS	
P-40E & E-1	8400	1700	1700	1000	8400	1700	1700	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
P-40F SERIES (-1, -5, -10, -15 & -20)	8500	1700	1700	1000	8500	1700	1700	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
P-40K SERIES (-1, -5, -10 & -15)	8400	1700	1700	1000	8400	1700	1700	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
P-40L SERIES (-1, -5, -10, -15 & -20)	8500	1700	1700	1000	8500	1700	1700	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
P-40M SERIES (-1, -5, -10)	8400	1700	1700	1000	8400	1700	1700	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	

NOTES

REVISED 8-21-43.

"WARHAWK"

**P-40**

CONFIDENTIAL



MANUFACTURED BY CURTISS

SHEET OF SHEETS P-40 SERIES FIGHTER MODELS

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## CAL PLANNING CHARACTERISTICS &amp; PERFORMANCE CHART

PAGE NO. 10

DATE JULY 20, 1943.

E & PROP.	SIZE	WEIGHT	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE
				TANK TYPE OR LOCATION	NO TANKS & CAPACITY (U.S. GAL.)	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE	EXTERNAL NO & SIZE	MAX. LOAD (LB.)		
MFGR. B.H.P./ALT. DEL. TAKE-OFF LARGER M-MILITARY FGR. C-CONTINUOUS WING AREA	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-REC'D LIM. W-WAR MAX.											
99 SP.D. 1150/11700 3bl. C 1000/10800 13 SP.D. 1240/11500 1120/18500 3bl. C 1080/9500 1010/16000 73 SP.D. 1150/11800 3bl. C 1000/11000 11 SP.D. 1240/11500 1120/18500 3bl. C 1080/9500 1010/16000 61 SP.D. 1200/11600 1125/11600 3bl. C 1000/13800	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	FUSELAGE 1 x 62 MAIN-WING 1 x 51 RES.-WING 1 x 35 DROG.-BELLY 1 x 52 Tot-200	6-.50	280 (average)	WING - FIXED	NONE	1-500 or 1-325 or 1-250 or 1-100.	500*	SCR-283 or SCR-274N	Tech. order 01-250P-1. * P-40E & last 100 P-40E-1 have same bomb load as P-40F series.	
12 SP.D. 1240/11500 1120/18500 3bl. C 1080/9500 1010/16000	S 37'4" L 31'9" H 12'4" T 8'2" W 236 sq. ft.	B 7000 C 8500 R 10000 W 12000	1	FUSELAGE 1 x 65 MAIN-WING 1 x 54 RES.-WING 1 x 37 DROG.-BELLY 1x52, 75, 150 or 170 Tot-326	AS ABOVE	AS ABOVE	AS ABOVE	NONE	1-500 & 2-100 or 6-20. 1-325 or 1-250 or 1-100.	700	SCR-274N SCR-522A and SCR-535A	Tech. order 01-250E-1. * P-40F-1 fuselage length is 31'9". Other models have extended fuselage.	
11 SP.D. 1125/11600 3bl. C 1000/11000	S AS ABOVE L AS ABOVE H AS ABOVE T W W	B 6950 C 8400 R 10000 W 12000	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	Tech. order 01-250K-1. * P-40K-1 and K-5 fuselage length is 31'9". P-40K-10 and K-15 have extended fuselage.	
12 SP.D. 1240/11500 1120/18500 3bl. C 1080/9500 1010/16000	S AS ABOVE L AS ABOVE H AS ABOVE T W W	B 7000 C 8500 R 10000 W 12000	1	FUSELAGE 1 x 65 MAIN-WING 1 x 54 DROG.-BELLY 1x52, 75, 150 or 170 Tot-290	6-.50	300 (average)	WING - FIXED	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	Tech. order 01-250H-1. * P-40L-1 carries 6-.50 cal. guns of 280 rounds per gun and also front (reserve) wing tank of 37 gal. of gas.	
11 SP.D. 1125/11600 3bl. C 1000/13800	S AS ABOVE L AS ABOVE H AS ABOVE T W W	B 6950 C 8400 R 10000 W 12000	1	FUSELAGE 1 x 65 MAIN-WING 1 x 54 RES.-WING 1 x 37 DROG.-BELLY 1x52, 75, 150 or 170 Tot-326	6-.50	280 (average)	WING - FIXED	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	Tech. order 01-250K-1.	

## PERFORMANCE

TAKE-OFF & LANDING (SURFACE - NO WIND)				HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)				RANGE & ENDURANCE (STATUTE AIRMILES - NO WIND - NO ALLOWANCE FOR RESERVE)						REFER. TO NOTES									
NEAR 50' LAND. DIST.	LANDING DIST.	GROUND RUN	WEIGHT	STD. ALT.	MIL. POWER		MAX. CONTIN. POWER		TAKE- OFF WEIGHT	BOMBS CARGO PASS	TOTAL FUEL	MAX. CONTINUOUS POWER			MAX. CRUISE POWER		LONG RANGE						
					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 ENDR.	RANGE ENDR.	RANGE ENDR.	RANGE ENDR.		
1700	81	1350	1050	8400	330	1000	312	350	17.1	10000	500	300	1.9	-	-	-	-	-	-				
1850	86	1650	1200	8400	330	1100	312	-	11.2	9300	-	231	500	1.9	-	-	880	3.9	-	-	1020	5.5	
-	-	2200	-	8400	330	1650	312	-	7.5	9150	-	208	400	1.6	-	-	740	3.4	-	-	870	4.8	
-	-	-	-	8400	327	2000	313	-	4.9	8800	-	156	340	1.2	-	-	580	2.4	-	-	720	3.4	
-	-	-	-	8400	311	2100	296	-	2.4	9300	500	156	310	1.2	-	-	545	2.4	-	-	630	3.3	
P-40E-1 SERIES				8500	SAME AS P-40F SERIES				9750	-	340	P-40E-1 GUN TANK 10 GAL. (RESERVE)											
P-40F SERIES				8500	SAME AS P-40F SERIES				9150	-	199	350	1.6	-	-	-	-	-	-	-	-	-	-
P-40G SERIES				8500	SAME AS P-40F SERIES				8600	-	120	370	1.4	-	-	-	-	-	-	-	-	-	-
P-40H SERIES				8500	SAME AS P-40F SERIES				9100	500	120	340	1.4	-	-	-	-	-	-	-	-	-	-
P-40I SERIES				8500	SAME AS P-40F SERIES				9950	-	338	-	-	-	-	-	-	-	-	-	-	-	-
P-40J SERIES				8500	SAME AS P-40F SERIES				9300	-	331	450	1.8	-	-	-	-	-	-	-	-	-	-
P-40K SERIES				8500	SAME AS P-40F SERIES				8800	-	156	390	1.2	-	-	-	-	-	-	-	-	-	-
P-40L SERIES				8500	SAME AS P-40F SERIES				9300	500	156	300	1.2	-	-	-	-	-	-	-	-	-	-

2 SHEETS  
P-40 SERIES  
MODELS  
FIGHTER

"WARHAWK"

P-40

CONFIDENTIAL



MANUFACTURED BY CURTISS



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART															PAGE NO. 11	
CONFIDENTIAL															DATE JULY 20, 1943.	
MODEL & BLOCK NO.	ENGINE & PROP.			SIZE		WEIGHT	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-REC'D. 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-40N-1	1	ALLISON V-1710-81 SINGLE SPD. CURTISS 11'0" Dia; 3bl. F.Z., electrostatic	T 1200/ S.L. M 1125/14600 C 1000/13800	S 37'4" L 33'4" H 12'4" T 8'2" W 236 sq. ft.	B 6100 C 7500 R 10000 W 12000	1	FUSELAGE MAIN-WING DROP.-BELLY	1 x 65 1 x 54 1 x 52, 75, 150 or 170 Tot=290	* 4-.50 (average)	300	WING - FIXED	NONE	1-500 & 2-100 or 6-20. 1-325 or 1-250 or 1-100.	700	SCR-274N or SCR-522A and SCR-535A or SCR-695	Tech. order 01-25CN-1. * 6-.50 cal. guns of 280 rounds each may be carried as alternate guns. ** NO DATA ON 3-225 GAL. WING TANKS.
			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											

PERFORMANCE

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)										REFER. TO NOTES				
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED MPH.	GROUND RUN		STD. ALT. FT.	MIL. POWER HIGH SPEED M.P.H.	MAX. CONTIN. POWER RATE OF CLIMB FT./MIN.	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.		MAX. CRUISE POWER AT 10000 FT.		LONG RANGE AT 10000 FT.							
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.										RANGE ENDR. MILES	RANGE ENDR. HOURS	RANGE ENDR. MILES	RANGE ENDR. HOURS	RANGE ENDR. MILES	RANGE ENDR. HOURS	RANGE ENDR. MILES		RANGE ENDR. HOURS			
P-40N-1	6500 7500	* *	1500 1700	75 81	* *	900 1050	7500	25000 20000 15000 10000 5000	314 330 340 319 300	950 1550 2250 2100 2100	295 308 320 305 287	- - - - 2.1	12.7 9.0 8.4 4.2	6600 6000 7500 6000	- - - - 500	290 195 120 120	370 250 220	1.5 0.8 0.8	560 340 300	2.4 1.4 1.4	650 430 370	3.0 1.7 1.7	740 420 390	3.5 1.9 1.9	1300 820 550 470	6.5 4.8 2.8 2.6	

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



"WARHAWK"  
**P-40**  
CONFIDENTIAL

MANUFACTURED BY CURTISS

TYPE FIGHTER MODELS P-40 SERIES SHEET OF SHEETS 2

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART															PAGE NO. 12
CONFIDENTIAL															DATE JULY 20, 1943.
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WEIGHT	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-REC'D. 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
P-47D SERIES (D,-1,-2,-3,-5) & P-47G SERIES (G,-1,-5)	PRATT-WHITNEY R-2600-21 TURBO CURTISS 12*21in; hbl. multi-pos; electr.	T 2000/ S.L. M 2000/27000 C 1625/29000	S 40' 9" L 35' 0" H 14' 2" T 15' 6" W 300 Sq. Ft.	B 10700 C 13500 R 15000 W -	1	MAIN-FUS. 1 x 205 AUX.-FUS. 1 x 100 DROP.-BELLY 1 x 200 Tot-505	6 or 8 .50	267	WING - FIXED	NO BOMBS CARRIED		MAX. LOAD (LB.)	SCR-27IN or SCR-522A and SCR-535A or SCR-695	Tech. order 01-6580-1. * 8 guns carry 200 rounds per gun.	
		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											

PERFORMANCE

MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE-NO WIND)					HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)						RANGE & ENDURANCE (STATUTE AIRMILES-NO WIND-NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES			
	GROSS WEIGHT LB.	TO CLEAR 50'		LANDING SPEED M.P.H.	GROUND RUN		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		
		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.	RANGE MILES		ENDR. HOURS	RANGE MILES	ENDR. HOURS
P-47D SERIES (D,-1,-2,-3,-5) & P-47G SERIES (G,-1,-5)	11000 12500 13500 14000 15000	- 3100 3300 3400 3600	2200 2500 2600 2800 -	92 100 104 106 -	1200 1500 1700 1800 -	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	680 360	2.2 1.3	660 380	2.2 1.3	1100 640	4.5 2.5	1120 660	4.1 2.3	1470 830	5.4 3.9

SHEET OF SHEETS  
1  
P-47 SERIES  
TYPE FIGHTER

NOTES RED FIGURES PRELIMINARY: SUBJECT TO REVISION AFTER FLIGHT CHECK

"THUNDERBOLT"

P-47

CONFIDENTIAL



MANUFACTURED BY REPUBLIC & CURTISS (P-47)



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WEIGHT	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS			RADIO	REMARKS & REFERENCE	
	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T-TAKE OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT R-RECD.LIM. W-WAR MAX.			TANK TYPE OR LOCATION	NO TANKS & CAPACITY (U.S. GAL.)	NO.GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE OR STATION	EXTERNAL NO & SIZE OR CAPACITY	MAX. LOAD (LB.)			TYPE
P-51 SERIES (-1,-2 & P-51)	ALLISON V-1710-39 SINGLE SPD. CURTISS 10'9" dia; 3bl. F.F., electric	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	1	MAIN-R.WING 1 x 90 MAIN-L.WING 1 x 59 RES.-L.WING 1 x 31 Tot-180	4-20mm	125	WING - M2	NO BOMBS CARRIED			SCR-274N and SCR-535	Tech.order 01-60JB-1.		
P-51A SERIES (-1,-5,-10)	ALLISON V-1710-31 SINGLE SPD. CURTISS 10'9" dia; 3bl. F.F., electric	T 1200/ S.L. M 1125/14600 C 1000/13800	S L H AS ABOVE T W	B 6840 C 8500 R 10500 W -	1	1	MAIN-R.WING 1 x 90 MAIN-L.WING 1 x 59 RES.-L.WING 1 x 31 PROP.-WINGS 2 x 75 or 2 x 150 Tot-180	2-.50 2-.50	280 350	OUTBD.WINGS INBD.WINGS (FIXED)	NONE	2-500 or 2-325 or 2-250 or 2-100.	1000	SCR-522 and SCR-695	Tech.order 01-60JC-1.		
P-51B-1	PACKARD V-1650-3 TWO SPEED HAMILTON STD. 11'2" dia; 4bl. F.F., HYDROMATIC	T 1300/ SL M 1520/13000 C 1300/21000 W 1240/16750 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	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	A S A B O V E	A S A B O V E	A S A B O V E	AS ABOVE	Tech.order 01-60JD-1. * WAR EMERGENCY 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													

PERFORMANCE

MODEL & BLOCK NO.	TAKE-OFF & LANDING (HARD SURFACE-NO WIND)						HIGH SPEED & CLIMB (AT NORMAL COMBAT WEIGHT)						RANGE & ENDURANCE (STATUTE AIRMILES-NO WIND-NO ALLOWANCE FOR RESERVE)										REFER. TO NOTES			
	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 AT 10000 FT.		MAX. CRUISE POWER AT 25000 FT.		LONG RANGE AT 10000 FT.					
		T.O. DIST. FT.	LAND. DIST. FT.		T.O. DIST. FT.	LAND. DIST. FT.		WEIGHT LB.	FT.	HIGH SPEED MPH.	RATE OF CLIMB FT./MIN.	HIGH SPEED MPH.	RATE OF CLIMB FT./MIN.				TIME TO CLIMB MIN.	RANGE MILES	ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES		ENDR. HOURS	RANGE MILES	ENDR. HOURS
P-51 SERIES (-1,-2 & P-51)	7500 8000 8500 9000	- 2600 3000 3400	2600 2900 3100 -	88 91 94 -	- 1600 1900 2200	1700 1900 2100 -	8500	25000 20000 15000 10000 5000	337 367 387 379 357	800 1300 1800 2000 2000	315 333 323 352 332	300 300 300 300 300	16.0 19.9 7.5 5.0 8.5	8500	NONE	180	460	1.5	700	2.6	700	2.7	-	-	1000	4.5
P-51A SERIES (-1,-5,-10)	8000 9000 10000	- 3800 3400	2700 3200 -	90 95 -	- 2050 2500	1800 -	8500	25000 20000 15000 10000 5000	- 395 375 375 395	1300 2000 2500 2500 2500	345 375 375 335 335	11.5 8.3 6.1 4.1 2.2	10500 9600 8600 9100 9600	NONE NONE NONE 500 1000	430 330 180 180 180	1220 780 470 440 430	4.4 2.9 1.5 1.5 1.5	- -	1960 1360 800 750 750	6.4 6.0 3.0 3.3 3.2	- -	- -	2200 1540 1000 900 800	10.3 7.6 5.0 4.3 4.0		
P-51B-1	8000 9000 10000 11000	- 1950 2400 2900	2150 2700 -	- 95 -	- 1300 1700 2150	1750 -	9000	30000 25000 20000 15000 10000 5000	420 420 420 390 360	1950 2600 2700 3050 3300 3350	390 395 380 355 335	10.8 8.6 6.7 4.9 3.0 1.2	11000 10000 9300 9800 10300	NONE NONE NONE 500 1000	450 330 180 180 180	1308 864 512 424 470	4.6 3.2 1.7 1.7 1.7	1720 1135 640 600 990	5.6 3.8 1.9 2.0 2.0	1755 1215 750 665 660	7.0 5.0 2.8 2.5 2.6	- -	- -	2215 1585 960 900 450	11.1 8.1 5.2 4.7 4.3	

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

MILITARY POWER AVAILABLE FOR 15 MINUTE CLIMB.

"MUSTANG"  
P-51



MANUFACTURED BY NORTH AMERICAN

CONFIDENTIAL

TYPE FIGHTER MODELS P-51 SERIES SHEET OF SHEETS