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EE-393

TACTICAL PLANNING

Characteristics & Performance Chart

BOMBERS

CARGO

FIGHTERS

GLIDERS

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ARMY AIR FORCES, AIR TECHNICAL SERVICE COMMAND,
WRIGHT FIELD, DAYTON, OHIO

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FOREWORD

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

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

WARNING

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

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

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

THIS REPORT SUPERSEDES PREVIOUS EE-393 PUBLICATIONS; SUPERSEDED PUBLICATIONS, IF NO LONGER OFFICIALLY REQUIRED, WILL BE DESTROYED IN THE MANNER PRESCRIBED IN A.R.380-5.

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DEFINITIONS

CHARACTERISTICS

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

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

T: Maximum power for take off.

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

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

C: Maximum power for continuous operation.

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

SIZE: Approximate dimensions for storage planning.

Length: Does not include protruding guns.

Height: Maximum in three point position.

Wing area: Standard aerodynamic surface area.

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

WEIGHTS: Approximate averages for planning purposes.

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

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

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

FUEL: Standard fuel tankage and capacities.

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

RADIO Resume' of typical models installed.

PERFORMANCE

BOMBS: Maximum rack capacity for standard sizes.

CARGO: Cargo, passenger or troop capacities.

Max. load: One size only on each bomb rack (in some cases a reduction in fuel load is required) Practical total cargo based on gross weight.

TAKE OFF & LANDING: Values are at least 125% of optimum.
(At 3000' runway alt.)

Gross weight: Arbitrary values for reference only.
(To clear 50')

Ground run: Distances representative of minimum airport requirements.

Landing speed: Distances representative of minimum runway requirements.
Practical minimum for average pilot.

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

Military power: For limited periods of combat operation.

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

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

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

Take off weight: Brief list of typical gross weights.

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

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

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

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

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

RED PRINT

Preliminary estimates or calculated data.

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BOEING (SEATTLE) "BO"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17F-BO (-1 thru -27)	1-.30 2-.50 2-.50 2-.50	500 a 300 400 500 565	NOSE...FLEX. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17F-BO (-30 thru -50)	NONE 1) 2) 2) 2)	NONE 300 b 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	2-4000 2-2000 2-1600 2-1000	6-1600 2-4000x	AS ABOVE
B-17F-BO -55 thru 1st.30(-85)	2) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B O V E		2550 (-55 thru -75) 3630 -80 & SUB
B-17F-BO Last 70(-85) thru -130	2) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT THAT EXTERNAL BOMB RACKS DELETED AFTER 15th.(-95)			3630
B-17G-BO (-1 thru -110)	2) 2) 2) 2) 2)	300 300 400 500 565	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	MOUNT LOGS & CONTROLS RETAINED	9600	AS ABOVE

NOTES: a NOSE GUN DELETED LAST 35(-27). b RADIO COMPART. GUN ADDED AFTER 15th.(-30). c CHEEK...TAIL MOUNT ON LAST 20(-90).
d EARLY MODELS CARRY 300 RDS./GUN. e CHEEK...TAIL MOUNT ON LAST 20(-90).
f RADIO COMP. GUN DELETED LAST 60(-105 & -110). g SUBSEQUENT. h EXTERNAL.

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DOUGLAS (LONG BEACH) "DL"

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MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17F-DL -1 thru 1st.13(-10)	1-.30 2-.50 2-.50 2-.50	500 a 300 400 500 565	NOSE...FLEX. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17F-DL Last 12(-10) thru -20	2) 1) 2) 2) 2)	300 300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE	PROV. FOR EXTERNAL RACKS ON -20 & SUB.	AS ABOVE	AS ABOVE
B-17F-DL -25 thru 1st.21(-35)	A S	A B O V E	AS ABOVE	PROV. FOR EXTERNAL RACKS	AS ABOVE	AS ABOVE	3630
B-17F-DL Last 19(-35) thru -65	3) 1) 2) 2) 2)	300 300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B O V E		AS ABOVE
B-17G-DL (-1 thru -85)	2) 2) 2) 2) 2)	300 300 400 500 565	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT ONLY MOUNT- ING LOGS & CONTROLS RETAINED FOR EXTERNAL BOMB RACKS ON (-30) & SUBSEQUENT MODELS.			AS ABOVE

NOTES: a NO NOSE GUN ON 1st.13(-10). b NOT CARRIED ON -1 & -5. c CHEEK...TAIL MOUNT ON (-50) & SUBSQ.
d EARLY MODELS CARRY 300 RDS./GUN. e CHEEK...TAIL MOUNT ON (-50) & SUBSQ.
f RADIO COMPART. GUN DELETED (-75) & SUBSQ. g EXTERNAL.

NOTE (B)

RADIO SYSTEM

EARLIER B-17's *	NAME	LATER B-17's *
SCR-287	LEASION	AN/ARC-8
SCR-211	FREQUENCY METER	-
SCR-522	COMMAND (W/F)	AN/ARC-3
SCR-274N	COMMAND	SCR-274N (PREV. ONLY)
SCR-2690	COMPASS	AN/ARN-7
SCR-595	IFF	SCR-595
SCR-578	DIMMY TRANSMITTER	SCR-578
RC-38	INTERPHONE	(2) AN/ARC-2
RC-438	MARKER BEACON	RC-193
RC-37	FILTER EQUIPMENT	RC-210
RC-198	GLIDE PATH	AN/ARN-5
RC-103	LOCALIZER	RC-103
-	STATIC DISCHARGE	AN/ASA-3
-	RDM	PROVISIONS

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

POSSIBLE THEATER INSTALLATIONS

LORAN	ARI-5083 (B-17)
LOW ALT. ALTIMETER	AN/APN-1
HIGH ALT. BOMBING	AN/APB-15
SYNCHRONIZED BOMB RELEASE	AN/ARW-9
HIGH ALT. ALTIMETER	SCR-716

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VEGA (BURBANK) "VE"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.	
				NO & SIZE	NO & SIZE		
B-17F-VE (-1 thru -10)	1-.30 CAL. (300 RES.) 1st. 12 AIRPLANES; NOSE GUN DELETED ON NEXT 28 THRU (-10). NO RADIO COMPARTMENT GUN UNTIL LAST 1/4 (-15). OTHER ARMAMENT AS B-17F.	500	NOSE GUN	2-2000 6-1600 6-1000 12- 500 16- 250 24- 100	NONE	9600	2550
B-17F-VE (-15 & -20)	2) 1) 2) 2) 2)	300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE	EXTERNAL RACKS ON Last 31 (-20) & SUB.	AS ABOVE	AS ABOVE
B-17F-VE (-25 & -30)	A S	A B O V E	AS ABOVE	b	2-4000 2-2000 2-1600 2-1000	6-1600 2-4000x	2550 (B-17F-25) 3630 (B-17F-30)
B-17F-VE (-35 thru -50)	3) 1) 2) 2) 2)	300 300 300 400 500 565	NOSE...FLEX. RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	AS ABOVE EXCEPT ONLY MOUNT- ING LOGS & CONTROLS RETAINED FOR EXTERNAL BOMB RACKS ON (-35) & SUBSEQUENT MODELS.			3630
B-17G-VE (-1 thru -110)	2) 2) 2) 2) 2)	300 300 400 500 565	CHEEK...FLEX. CHIN TURRET RADIO COMPART. SIDE WAIST-FL. UPPER TURRET LOW BALL TRR. TAIL...FLEX.MT.	A S	A B O V E		

NOTES: a NOT ON (-1) & (-5). b EARLY MODELS CARRIED 300 RDS./GUN.
c EXTERNAL RACKS DELETED LAST 4(-30); d RADIO GUN STORED (-35) THRU 1st.16(-35);
e LOGS & CONTROLS RETAINED. f RADIO GUN DELETED LAST 24(-95) & SUBSQ.
g CHEEK...TAIL MOUNT ON LAST 20(-90) & SUBSQ. h EXTERNAL.

GENERAL NOTE:

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

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CONSOLIDATED (SAN DIEGO) "CO"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	
B-24D-00 D thru 1st. 94(-15)	1) 2) 2) .50	200 400 600	NOSE.....FLEX. UPPER TURRET TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	2364
B-24D-00 Last 36(-15) thru -20	1) 1) 2) .50	200 400 600	NOSE.....FLEX. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	AS ABOVE			2364 Last 36(-15) 3614 -20 & sub.
B-24D-00 -25 thru 1st. 26(-14)	3) 2) 2) .50	100 250 400	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614
B-24D-00 Last 9(-14) thru -170	3) 2) 2) .50	100 250 400	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	AS	AS	AS ABOVE	AS ABOVE
B-24L-00 (-1 thru -210) B-24L-00 (-1 thru -20) B-24M-00 (-1 thru -50)	2) 2) 2) .50 2) 2)	600 250 ^b 400 508 600	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. See "a"	AS	AS	AS ABOVE	AS ABOVE

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

CONSOLIDATED (FT. WORTH) "CP"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	
B-24D-CF (-1 & -5)	3) 2) 2) .50	100 250 400	NOSE.....FLEX. SIDE WAIST..FL. UPPER TURRET TUNNEL...FLEX. TAIL TURRET	4-2000 8-1000 12- 500 12- 250 20- 100	NONE	8000	3614
B-24D-CF (-10 thru -20)	AS	AS	AS	AS	AS	AS ABOVE	AS ABOVE
B-24J-CF (-1 thru -105) B-24H-CF (-1 thru -15)	2) 2) 2) .50	600 250 400	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	AS	AS	AS ABOVE (SEE a)	AS ABOVE
B-24H-CF (-20 thru -30)	2) 2) 2) .50	600 500 ^b 400	NOSE TURRET S.WAIST-46 MT. UPPER TURRET LOW.BALL TRR. TAIL TURRET	AS	AS	AS ABOVE	AS ABOVE
B-24J-CF (-101)	AS	AS	AS	AS	AS	AS ABOVE	AS ABOVE

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

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NOTE (A)

RADIO SYSTEM

EARLIER B-24's	NAME	LATER B-24's
SCR-267	LIAISON	AN/ARC-9
SCR-211	FREQUENCY METER	-
SCR-522	COMMAND	SCR-522
SCR-274A	COMMAND	SCR-274W
SCR-289G	COMPASS	AN/ARN-7
SCR-495	IFF	SCR-495
SCR-495	IFF	-
SCR-576	DINKEY TRANSMITTER	SCR-576B
RC-358	INTERPHONE	AN/SIC-2
RC-438	MARKER REACON	RC-193
RC-32	FILTER EQUIPMENT	RC-193
-	GLIDE PATH	AN/ARN-5A
RC-103	LOCALIZER	RC-103
-	STATIC DISCHARGE	AN/ASA-1 or AN/ASA-3
-	RCM	PROVISIONS

* MOST CHANGES EFFECTIVE ON B-24W AIRPLANES.

DOUGLAS (Tulsa) "DT" & FORD (Willow Run) "FO"

MODEL & BLOCK-NO.	ARMAMENT			BOMBS			FUEL U.S. GAL. (MAXIMUM)
	NO GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE	EXTERNAL NO. & SIZE	MAX. LOAD LB.	
B-24E-DT & FO (-1 thru -15)	2) 2) 2) .50	600 250 400	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NONE	12800	3614
B-24H-DT & FO (-20 thru -30)	2) 2) 2) .50	600 500 ^b 400	NOSE TURRET S.WAIST-46 MT. UPPER TURRET LOW.BALL TRR. TAIL TURRET	AS	AS	AS ABOVE	AS ABOVE
B-24J-DT (-1 thru -10) B-24L-FO (-1 thru -20)	B-24E-DT & FO AIRPLANES RECEIVE NEW B-24L DESIGNATIONS WHEN C-1 AUTOMATIC PILOT & M-9 BOMB SIGHT REPLACE A-5 AUTOMATIC PILOT & S-1 BOMB SIGHT.						
B-24L-FO (-1 thru -20)	ARMAMENT - BOMBS - FUEL SAME AS LISTED ABOVE.						
B-24L-FO (-1 thru -20)	2) 2) 2) .50	600 500 400	NOSE TURRET S.WAIST-46 MT. UPPER TURRET LOW.BALL TRR.	4-2000 8-1600 8-1000	NONE	12800	3614
B-24M-FO (-1 thru -15)	2) 2) 2)	508 600	LOW.BALL TRR. TAIL-HAND HELD TAIL TURRET	12- 500 12- 250 20- 100			
B-24H-FO -1	2) 2) 2) .50	740 500 400	NOSE TURRET SIDE WAIST..FL. UPPER TURRET LOW.BALL TRR. TAIL TURRET	AS	AS	AS ABOVE	AS ABOVE

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

NORTH AMERICAN (DALLAS) "NT"

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

NOTES: a LOWER BALL TURRET ON 5th. & SUBSEQUENT; NO TUNNEL GUN ON 1st. 4 ARTICLES.

POSSIBLE THEATER INSTALLATIONS

LORAN	AN/ARN-3
HOMING ADAPTER	AN/ARR-1
LOW ALT. ALTIMETER	AN/APP-1
LOW ALT. BOMBING	AN/APP-5B
	AN/APP-7 or
HIGH ALT. BOMBING	AN/APP-13 or
	AN/APP-15A
RADAR SEARCH	SCR-717
HIGH ALT. ALTIMETER	SCR-716
INTERROGATOR	SCR-725

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.			RADIO	REMARKS & REFERENCE	
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL		MAX. LOAD LB.	TYPE		
											T-TAKE-OFF	M-MILITARY				C-CONTINUOUS
B-24D (WITH BOMB BAY TANKS)	PRATT-WHITENEY R-1830-43 TURBO HAMILTON STD. 11'7" DIA. - 3 BL. F.F., HYDROMATIC	T 1200/31 M 1200/26500 C 1100/27000	S 110'0" L 66'4" H 18'0" T 25'8" W 101.6 SQ. FT.	B 35000 C 56000 A 56000 W 57500B	10	MAIN - WINGS BOMB BAY	12-2364 2x 400 3164 TOT.	3) 2) 2) 1) 2)	100 250 400 100 600	NOSE - FLEX. SIDE WAIST-FL. UPPER TURRET TUNNEL - FLEX. TAIL TURRET	4-2000 8-1600 8-1000 12- 500 12- 250 20- 100	NOSE	12500	SEE NOTE (A) ON PAGE 5	TECHNICAL ORDER 01-55C-1 (25 DEC. 1944, REV.)	
B-24D (WITH WING TIP TANKS)	AS ABOVE EXCEPT R-1830-65 ENGINES ON B-24D-20-OF & B-24D-135-00 TRNG -170-00.	AS ABOVE	AS ABOVE	B 37000 C 56000 A 56000 W 71200B	10	MAIN - WINGS WING TIPS BOMB BAY	12-2364 2x 225 2x 400 3614 TOT.	3) 2) 2) 2)	100 250 400 508 600	NOSE - FLEX. SIDE WAIST-FL. UPPER TURRET LOW BALL TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	A S A B O V E		
B-24G,H & J	PRATT-WHITENEY R-1830-65 ^a TURBO HAMILTON STD. 11'7" DIA. - 3 BL. F.F., HYDROMATIC	T 1200/31 M 1200/31800 C 1100/31500	S 110'0" L 67'2" H 18'0" T 25'8" W 101.6 SQ. FT.	B 38000 C 56000 A 56000 W 71200B	10	A S A B O V E	A S A B O V E	2) 2) 2) 2)	600 250 400 508 600	NOSE TURRET SIDE WAIST-FL. UPPER TURRET LOW BALL TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	TECHNICAL ORDER 01-55E-1 (REV. 30 JAN. 1945) ^a ENGINES IS R-1830-43 ON B-24G & G-1-J; B-24H-1 & (152)B-5-OF; B-24M-1 & -5-FO; ALL B-24, BY DT. ^b LATEST AIRCRAFT HAVE NEW TURBO SUPERCHARGER TYPE (B-22) GIVING CRIT. ALTITUDE SAME AS SHOWN FOR B-24L & M. ^c THE INTERNAL BOMB BAY IS BEING INSTALLED AT THE CENTER.		
B-24L & M	PRATT-WHITENEY R-1830-65 TURBO HAMILTON STD. 11'7" DIA. - 3 BL. F.F., HYDROMATIC	T 1200/31 M 1200/31800 C 1100/31500	AS ABOVE	B 37500 C 56000 A 56000 W 71200B	10	A S A B O V E	A S A B O V E	2) 2) 2) 2)	600 500 400 508 600	NOSE TURRET SIDE WAIST-FL. UPPER TURRET LOW BALL TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	TECHNICAL ORDER 01-55E-1 (REV. 30 JAN. 1945) ^a B-24L SERIES HAS HAND HELD FLEX. GUNS IN THE TAIL; B-24M SERIES HAS LIGHT WEIGHT TURRET IN TAIL.		
B-24N	PRATT-WHITENEY R-1830-75 TURBO HAMILTON STD. 11'7" DIA. - 3 BL. F.F., HYDROMATIC	T 1350/31 M 1350/30000 C 1100/31000	S 110'0" L 67'2" H 26'9" T 25'8" W 101.6 SQ. FT.	B 38500 C 56000 A 56000 W 71200B	10	A S A B O V E	A S A B O V E	2) 2) 2) 2)	710 500 400 508 525	NOSE TURRET SIDE WAIST-FL. UPPER TURRET LOW BALL TURRET TAIL TURRET	A S	A B O V E	AS ABOVE	^w BASED ON B-24N WEIGHT.		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE				
	GROSS WEIGHT LB.	TO CLEAR 50' DIST.		LANDING SPEED MPH	GROUND-RUN DIST.		WEIGHT LB.	STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
		T.O. FT.	LAND. FT.		T.O. FT.	LAND. FT.			HIGH SPEED FT./MIN.	RATE OF CLIMB MPH.	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
		B-24D (WITH BOMB BAY TANKS)	40000		-	3300			90	-	2800	30000				-	350	-	350	11.1	-	-		1200	4.8	1350	4.8
54000	1500	-	103	3250	3450	56000	25000	308	900	297	700	30.2	59000	NOSE	3164	900	3.6	1000	3.5	1900	7.6	2450	13.7				
59000	6200	-	-	4450	-	15000	20000	290	1000	284	800	22.0	53500	NOSE	2364	850	3.6	950	3.5	1750	8.1	1800	7.6	2300	13.0		
60000	6600	-	-	4750	-	5000	15000	277	1150	272	950	15.4	58500	5000	2364	850	3.6	950	3.5	1750	8.0	1800	7.5	2300	13.0		
B-24D (WITH WING TIP TANKS)	40000	-	3300	90	-	2800	30000	-	350	-	350	11.1	-	-	1200	4.8	1350	4.8	2100	10.9	2500	10.3	3200	18.0			
56000	5050	-	103	3600	3550	56000	25000	308	900	297	700	30.2	61000	NOSE	3614	-	-	-	-	-	-	-	3500*	20.0*			
59000	6200	-	-	4450	-	15000	20000	290	1000	284	800	22.0	61000	NOSE	3164	1200	4.8	1350	4.8	2100	10.9	2500	10.4	3200	18.0		
60000	6600	-	-	4750	-	5000	15000	277	1150	272	950	15.4	61900	3000	2814	1050	4.1	1200	4.1	2050	9.5	2750	15.4				
62000	7550	-	-	5400	-	10000	10000	254	975	245	800	11.4	62500	5000	2364	850	3.6	950	3.5	1750	8.0	1800	7.5	2300	13.0		
64000	8750	-	-	6250	-	5000	5000	204	1000	235	850	5.3	65000**	NOSE	3614	-	-	-	-	-	-	-	3500*	18.2*			
B-24G,H & J	A S	A B O V E				56000	30000	300	375	290	200	16.0	62000	NOSE	3164	1150	4.8	1350	4.8	2200	10.7	2300	10.2	3300*	18.2*		
B-24L & M	A S	A B O V E				56000	25000	290	625	278	450	33.6	62000	NOSE	3164	1000	4.1	1200	4.1	1900	9.5	2900	8.8	2900	16.4		
B-24N	56000	4100	-	-	2600	-	30000	300	375	290	200	16.0	62000	NOSE	3164	1150	4.8	1350	4.8	2200	10.7	2300	10.2	3300*	18.2*		
60000	4500	-	-	3100	-	30000	25000	290	625	278	450	33.6	62000	NOSE	2814	1000	4.1	1200	4.1	1900	9.5	2900	8.8	2900	16.4		
62000	5300	-	-	3800	-	30000	20000	277	775	267	600	25.0	61500	5000	2364	850	3.5	950	3.5	1600	7.9	1700	7.3	2500	14.0		
						30000	15000	254	975	245	800	11.4	61500	5000	2364	850	3.5	950	3.5	1600	7.9	1700	7.3	2100	11.7		
						5000	5000	204	1000	235	850	5.3	61500	5000	2364	850	3.5	950	3.5	1600	7.9	1700	7.3	2100	11.7		

NOTES:

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

* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

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



B-24
"LIBERATOR"

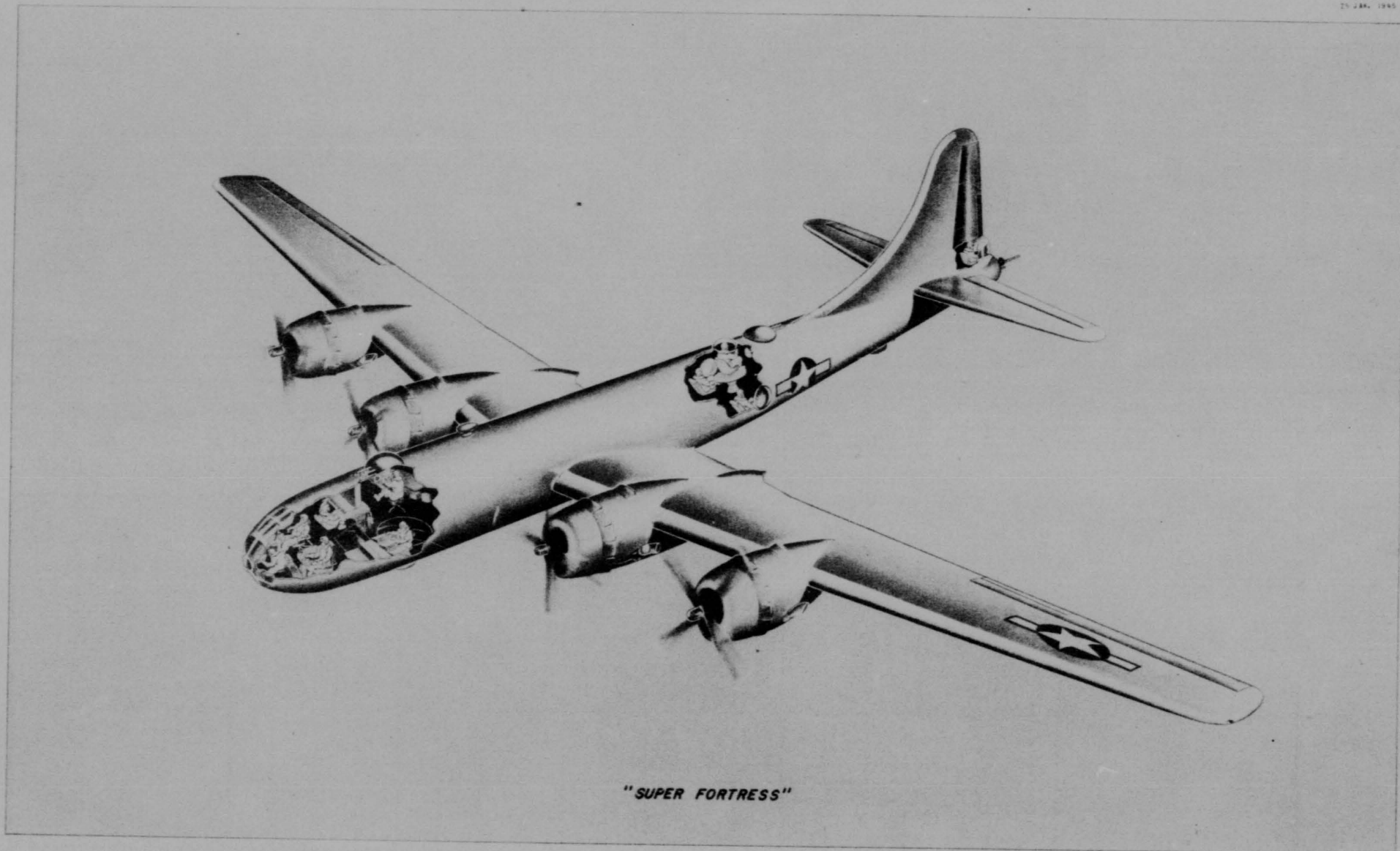
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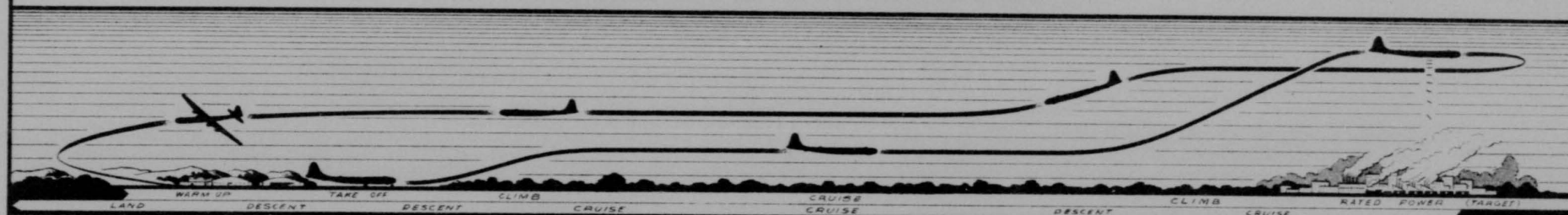
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SAMPLE B-29 MISSION

	DENSITY ALTITUDE	GOWL FLAP	INDICATED AIR SPEED	FUEL USED	TIME IN FLIGHT	AIR MILES
WARM UP AND TAKE OFF	0 TO 100	WIDE OPEN TO 21"	0-180	160	0	0
CLIMB	100 TO 5000	2"	195	320	0.2	32
CRUISE	5000	.62"	207	2637	6.2	1316
CLIMB	5000 TO 30000	2"	195	3557	7.1	1566
RATED POWER (TARGET AREA)	30000	1½"	228	4000	7.5	1720
CRUISE	30000	1½"	189	4364	8.3	1670
CRUISE DESCENT	30000 TO 15000	1"	188	5030	10.3	2490
CRUISE	15000	1"	186	6170	14.0	3326
DESCENT AND LAND	15000 TO 0	.62"	183	6400	15.3	3570

NOTE

a. THE ABOVE DATA IS BASED ON STANDARD TEMPERATURE. THE B-29 IS GREATLY AFFECTED BY TEMPERATURE CHANGES AND A VARIATION IN PERFORMANCE OF AS MUCH AS 20% MAY BE EXPECTED UNDER CERTAIN CONDITIONS OF WIND AND TEMPERATURE. FOR EXAMPLE, A 2° C. CHANGE IN TEMPERATURE HAS APPROXIMATELY THE SAME EFFECT ON SERVICE CEILING AS 1000 LB. IN WEIGHT.

b. ABOVE DATA FOR COMBAT B-29 WITH TURRETS, BLISTERS, RADAR DOME, SHORT COWL FLAPS AND LATEST ENGINE BAFFLES.

T.O. GROSS WT.—135000 LB.
FUEL—6923 GAL.
BOMBS—12000 LB.
RADIUS OF ACTION 1700 MI
(WITH 523 GAL. RESERVE)

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BELL (ATLANTA) "BA"

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MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U.S. GALS)
B-29-BA -1	1-20MM. 2) 2) .50 2) 2)	100 1000* 1000* 1000* 1000*	TAIL, W2, TYPE B UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	OUTER WINGS INNER WINGS BOMB BAY	11-2735 8-2875 4x 640	8160
B-29-BA -5 thru 1st.9 (-15)	A S A S A S O V E	A S A S A S O V E	A S A S A S O V E	OUTER WINGS INNER WINGS CENTER WINGS BOMB BAY	11-2735 8-2875 4-1315 4x 640	9463
B-29-BA 1st.10(-15) thru (-20)	1-20MM. 4) 2) .50 2) 2)	100 875* 1000* 1000* 1000*	TAIL, W2, TYPE B UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	A S A S A S O V E	A S A S A S O V E	
B-29-BA -25 thru -40	4) 2) 2) .50 2) 2)	875* 1000* 1000* 1000* 1000*	UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	A S A S A S O V E	A S A S A S O V E	
B-29B-BA	2-.50	1000*	POWER TAIL MT.	A S	A S A S O V E	

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

BOEING (SEATTLE) "BB"

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MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U.S. GALS)
B-29-BB -1	1-20MM. 2) 2) .50 2) 2)	100 1000* 1000* 1000* 1000*	TAIL, W2, TYPE B UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	OUTER WINGS INNER WINGS BOMB BAY	11-2735 8-2875 4x 640	8160
B-29-BB -5 thru 1st.11 (-15)	A S A S A S O V E	A S A S A S O V E	A S A S A S O V E	OUTER WINGS INNER WINGS CENTER WINGS BOMB BAY	11-2735 8-2875 4-1315 4x 640	9463
B-29-BB 1st.9(-15) thru (-20)	2) 2) 2) .50 2) 2)	1000* 1000* 1000* 1000* 1000*	UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	A S A S A S O V E	A S A S A S O V E	
B-29B-BB -20 & -25	4) 2) 2) .50 2) 2)	875* 1000* 1000* 1000* 1000*	UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. POWER TAIL MT.	A S A S A S O V E	A S A S A S O V E	

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

BOEING (WICHITA) "BW"

MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U.S. GALS)
B-29-BW -1 thru -20	1-20MM. 2) 2) .50 2) 2)	100 1000* 1000* 1000* 1000*	TAIL, W2, TYPE B UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	OUTER WINGS INNER WINGS BOMB BAY	11-2735 8-2875 4x 640	8160
B-29-BW -25 thru 1st.25 (-40)	A S A S A S O V E	A S A S A S O V E	A S A S A S O V E	OUTER WINGS INNER WINGS CENTER WINGS BOMB BAY	11-2735 8-2875 4-1315 4x 640	9463
B-29-BW 1st.25(-40) thru (-50)	1-20MM. 4) 2) .50 2) 2)	100 875* 1000* 1000* 1000*	TAIL, W2, TYPE B UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	A S A S A S O V E	A S A S A S O V E	
B-29-BW 1st.50(-50) thru (-55)	4) 2) 2) .50 2) 2)	875* 1000* 1000* 1000* 1000*	UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	A S A S A S O V E	A S A S A S O V E	

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

MARTIN (OHAMA) "MO"

MODEL & BLOCK-NO.	ARMAMENT			FUEL		
	NO GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	TANK TYPE & LOCATION	NO. TANKS & CAPACITY	MAX. CAPACITY (U.S. GALS)
B-29-MO -1 thru 1st.9 (-20)	1-20MM. 4) 2) .50 2) 2)	100 875* 1000* 1000* 1000*	TAIL, W2, TYPE B UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	OUTER WINGS INNER WINGS BOMB BAY	11-2735 8-2875 4-1315 4x 640	9463
B-29-MO 1st.10(-20) thru (-30)	4) 2) 2) .50 2) 2)	875* 1000* 1000* 1000* 1000*	UPPER FORE TRR. UPPER REAR TRR. LOWER FORE TRR. LOWER REAR TRR. TAIL POWER MT.	A S A S A S O V E	A S A S A S O V E	

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

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE	WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	ENGINE MFR. MODEL	PROP. MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA		B-BASIC C-COMBAT W-WAR MAX.	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE	
B-29 (COMBAT AIRPLANE)	WRIGHT R-3350-23 -23A, -41, -57, -99 TURBO HAMILTON STD. 16 1/2" DIA., - LBL. F.P., HYDROMATIC	T 2200/SL W 2300/-C M 2200/25000D C 2000/25000D	S 111' 3" L 99' H 29' 7" T 31' 6" W 1736 sq. ft.	B 75000 C 120000 W 135000B	11 12	OUTRD.-WINGS INRD.-WINGS CENTER-WINGS BOMB BAY SEE NOTE (B)	11-2735 8-2873 4-1315 4-640 9483 TOT.	4) (R) 2) 2) 2) 2)	500 500 500 500	UPPER FORE THR. UPPER REAR THR. LOWER FORE THR. TAIL POWER MT.	4-4000 8-2000 12-1600 40-500	NONE	20000	SEE NOTE (A)	TECHNICAL ORDER 01-206J-1. (LATEST ISSUE NOW BEING PREPARED)	
B-29 (STRIPPED AIRPLANE)	AS ABOVE	AS ABOVE	AS ABOVE	B 75000 C 120000 W 135000B	10	AS ABOVE	2-.50	500	TAIL POWER MT.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	
			T M H T C	S L H T W	B C W											
			T M H T C	S L H T W	B C W											
			T M H T C	S L H T W	B C W											
			T M H T C	S L H T W	B C W											

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS		
	GROSS WEIGHT LB.	TO CLEAR 50 FT. DIST.		LANDING SPEED MPH	GROUND-RUN DIST.		STD. ALT. FT.	WAR EMERG. HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO PASSES LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER AT 10,000 FT.		MAX. CRUISE POWER AT 10,000 FT.		LONG RANGE AT 10,000 FT.				
		T.O. FT.	LAND. FT.		T.O. FT.	LAND. FT.				HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	HIGH SPEED MPH	RATE OF CLIMB FT/MIN.				HIGH SPEED MPH	RATE OF CLIMB FT/MIN.	TIME TO CLIMB MIN.	RANGE MILES	ENDUR. HOURS	RANGE MILES		ENDUR. HOURS	RANGE MILES
B-29 (COMBAT AIRPLANE)	80000 90000 100000 110000 120000 135000	- - 1650 - 7150 -	- - 105 - 110 - 118 - 120 - 125	- - 3100 - 1900 - 6700 -	30000 25000 20000 15000 10000 5000	5000 25000 20000 15000 10000 5000	30000 25000 20000 15000 10000 5000	320 310 300 290 280 270	900 850 800 750 700 650	361 348 336 324 312 300	150 140 130 125 120 115	72.0 52.0 34.0 26.0 16.0 8.0	133000 135000 127000 120000 135000	NONE 12000 4000 3000 20000	8203 6923 6888 5608 5608	- 1800 1800 1500 1150	- 6.0 5.9 4.9 4.9	- 1950 2000 1500 1550	- 6.0 6.0 4.8 4.8	- 2550 2550 2200 2050	- 9.5 9.4 7.7 7.6	- 2500 2650 2100 1950	- 8.7 8.9 7.2 6.9	- 4550 3700 3200 2850	- 20.6 16.4 17.7 14.6 12.6
B-29 (STRIPPED AIRPLANE)	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	120000 20000 15000 10000 5000	120000 20000 15000 10000 5000	120000 20000 15000 10000 5000	311 301 290 280 270	900 850 800 750 700	348 336 324 312 300	150 140 125 120 115	72.0 52.0 34.0 26.0 16.0 8.0	132000 135000 131000 120000 131000	NONE 16000 12000 8000 20000	8813 6923 6888 5608 5608	- 1850 1850 1500 1500	- 6.0 6.0 4.9 4.9	- 1950 2000 1500 1550	- 6.0 6.0 4.8 4.8	- 2500 2550 2100 2100	- 9.5 9.5 7.7 7.7	- 2600 2650 2100 2100	- 8.7 8.9 7.0 7.0	- 5200 3850 4000 3100	- 24.2 17.1 17.9 13.7

NOTES:

MODEL	ENGINE	PROP.	TYPE
AN-29-1	AN-29-1	AN-29-1	AN-29-1
AN-29-2	AN-29-2	AN-29-2	AN-29-2
AN-29-3	AN-29-3	AN-29-3	AN-29-3
AN-29-4	AN-29-4	AN-29-4	AN-29-4
AN-29-5	AN-29-5	AN-29-5	AN-29-5
AN-29-6	AN-29-6	AN-29-6	AN-29-6
AN-29-7	AN-29-7	AN-29-7	AN-29-7
AN-29-8	AN-29-8	AN-29-8	AN-29-8
AN-29-9	AN-29-9	AN-29-9	AN-29-9
AN-29-10	AN-29-10	AN-29-10	AN-29-10
AN-29-11	AN-29-11	AN-29-11	AN-29-11
AN-29-12	AN-29-12	AN-29-12	AN-29-12
AN-29-13	AN-29-13	AN-29-13	AN-29-13
AN-29-14	AN-29-14	AN-29-14	AN-29-14
AN-29-15	AN-29-15	AN-29-15	AN-29-15

RED FIGURES ARE INDICATED; SUBJECT TO REVISION AFTER FLIGHT TEST.

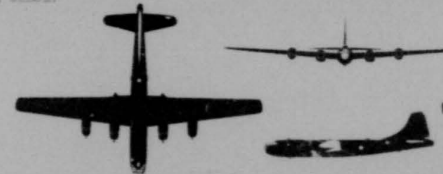
(B) HIGHER LOADINGS ARE STRUCTURALLY POSSIBLE BUT WEIGHT SHOULD NOT EXCEED 135000 LB. BECAUSE OF FLIGHT CHARACTERISTICS.

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

(D) RATINGS GIVEN WITHOUT RAM.

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

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



B-29

"SUPER FORTRESS"

** 2-29-44-28

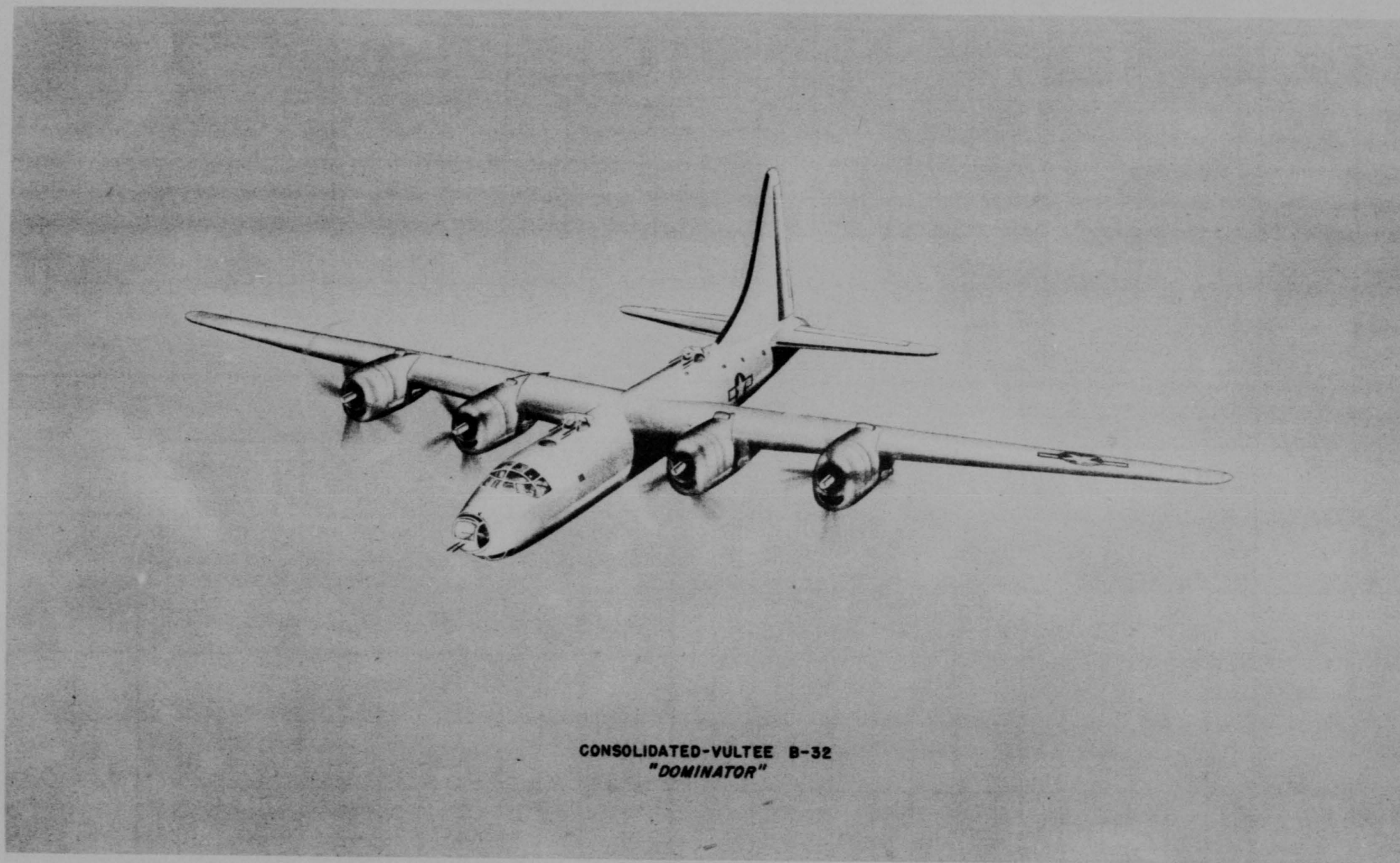
MANUFACTURED BY BELL (Atlanta) "BA"; BOEING (Renton) "BN"; BOEING (Wichita) "BW" & MARTIN (Omaha) "MO"

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PAGE 174
AT 07
25 JAN. 1945



CONSOLIDATED-VULTEE B-32
"DOMINATOR"

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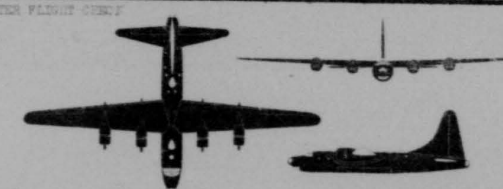
TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC	TANK		NO. TANKS	NO. GUNS	RDS	LOCATION	INTERNAL	EXTERNAL	MAX. LOAD	TYPE		
	PROP MFR. TYPE	T-TAKE-OFF	L-LENGTH	C-COMBAT	TYPE OR LOCATION		CAPACITY U.S. GAL.	& CALIBER	PER GUN	& TYPE	NO. & SIZE	NO. & SIZE				
B-32-CF -1 to -20 INCL.	WRIGHT R-3350-23 TURBO CURTISS	T 2200/S L M 2200/34000 C 2000/32500	S 135' 0" L 82' 1" H 33' 0" T 28' 0"	B 62500 C 100000 W 132000	10	WING-INTD. WING-OUTD. BOMB BAY	6 - 1725 6 - 1005 2 x 750	2) 2) 2)	365 ^A 400 550 1000	NOSE TURRET FRONT TOP THR. REAR TOP THR. LOW BALL THR. TAIL TURRET	4-4000 8-2000 8-1600 12-1000 40-500	NONE	20000	SEE NOTE (A)	TECHNICAL ORDER CI-584-1 (5 MARCH 1945) * SPACE PROVISIONS FOR 600 BBS/GUN; NORMAL BOUNDS SHOWN. * PROVISIONS FOR INSTALLATION OF 2 BOMB BAY TANKS - 4 BOMB BAY TANKS CAN BE CARRIED IF SPECIAL INSTALLATION IS MADE.	

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS			
	GROSS WEIGHT	TO CLEAR 50'		GROUND-RUN		STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE						
		T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.		HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	ENDUR.		ENDUR.	ENDUR.	ENDUR.
		FT	FT	FT	FT		M.P.H.	FT/MIN.	M.P.H.	FT/MIN.	M.P.H.	FT/MIN.				MIN.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.		RANGE	ENDUR.	RANGE
B-32-CF -1 to -20 INCL.	70000 80000 90000 100000 110000 120000	- 3150 4000 5000 6000 7000	1100 1250 1350 1450 1550 1650	96 106 116 126 136 146	3500 3500 3500 3500 3500 3500	2500 2500 2500 2500 2500 2500	30000 25000 20000 15000 10000 5000	N O S E	350 350 350 350 350 350	500 525 550 575 600 625	350 350 350 350 350 350	28.7 28.7 28.7 28.7 28.7 28.7	111500 109000 119500 121000	NONE 8000 8000 20000	5960 5160 5160 5160	1350 1000 1120	5.1 4.5 5.0	1450 2000 1120	11.7 13.3 7.0	2700 3100 2500	12.5 13.3 15.2	2900 3100 2500	9.9 12.9 9.4	3600 3150 3000	11.4 12.9 12.9	NOTE: RANGE FIGURED WITH MAX. CRUISE RATING AT 2130 RPM. & 31.5" Hg.

NOTES: (A)

- SCB-77A COMMAND SET
- SCB-692 IFF
- SCB-574B EMERGENCY TRANSMITTER
- SCB-719 AIRBORNE INTERCOM
- SC-57B
- AN-10N-1 BLIND LANDING
- MC-195 MARKER BEACON
- MC-215 RADIO COMPASS
- AN-10N-7 RADIO COMPASS
- AN-10N-1 LOW ALT. RADIO ALTIMETER
- AN-10N-18 JAB
- AN-10N-13 STD
- AN-10N-6 LOBB
- AN-10A-1 STATIC DISCHARGER
- AN-10C-2 INTERPHONE
- SCM PROVISIONS

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



B-32
"DOMINATOR"

MANUFACTURED BY CONSOLIDATED (San Diego) "CO" MANUFACTURED BY CONSOLIDATED-VULTURE (FT. WORTH) "CO"

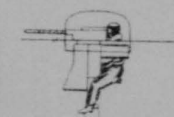
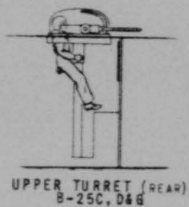
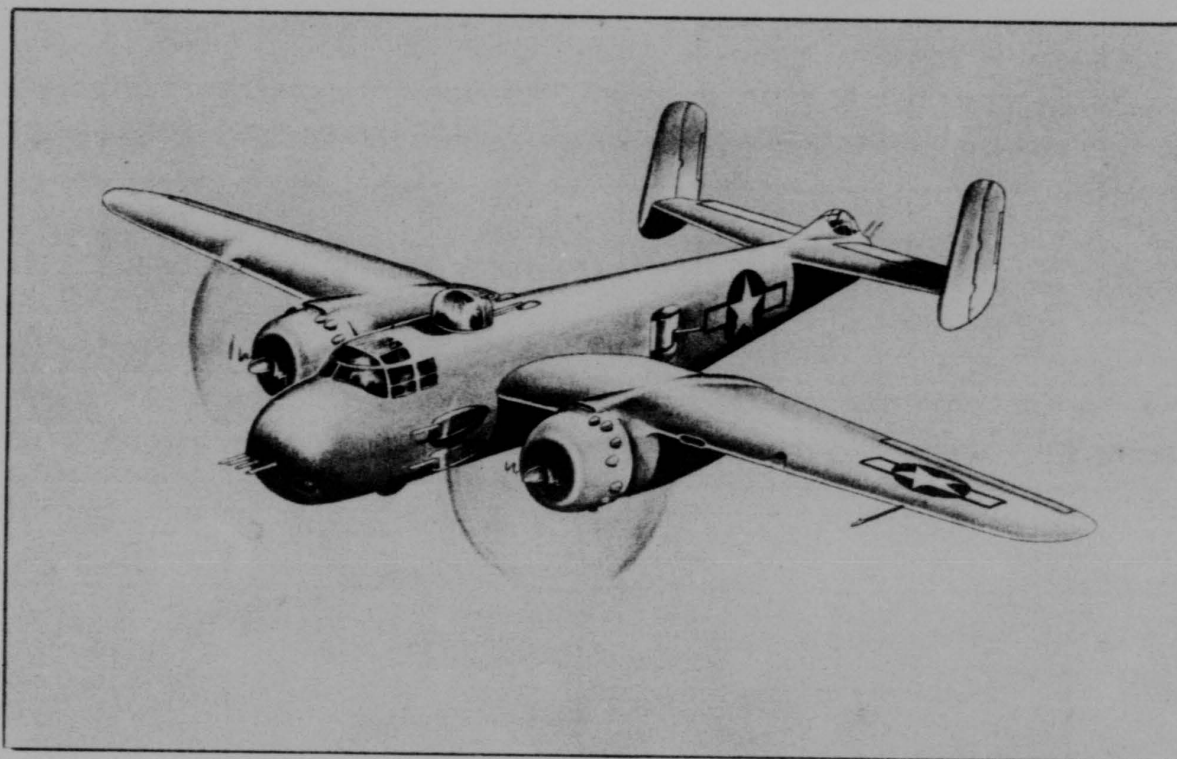
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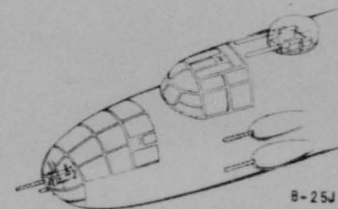
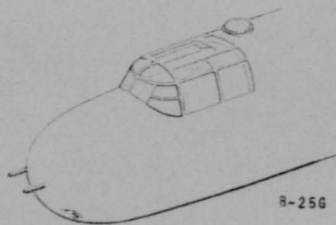
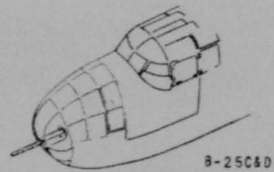
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B-25 MITCHELL BOMBER



B-25H



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART

PAGE 17
AS OF:
28 MARCH 1945

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	ENGINE MFR. MODEL	B.H.P./ALT.	S-SPAN	B-BASIC			TANK	NO. TANKS	NO. GUNS	RDS.	LOCATION	INTERNAL	EXTERNAL			MAX. LOAD
	SUPERCHARGER MODEL	T-TAKE-OFF	L-LENGTH	C-COMBAT	OR	NO. GUNS	PER	TYPE	NO. & SIZE	NO. & SIZE	LB.					
	PROP MFR. TYPE	M-MILITARY	H-HEIGHT	W-WAR MAIL	LOCATION	OR	CALIBER	&	OR	OR						
		C-CONTINUOUS	T-TREAD	W-WING AREA	U.S. GAL.	U.S. GAL.			STATION	CAPACITY						
B-25C & D (NA & NC)	WRIGHT R-2600-13 2 SPD. SUPERCH. HAMILTON STD. 12'7" DIA. - 3 BL. P.P. HYDROMATIC	1700/8 L 1850/8 L 1700/1500 1150/13000 1500/6700 1350/13500	56'6" L 52'8" H 15'9" T 19'4"	B 20500 C 20500	MAIN - WINGS 2 x 151 MAIN - WINGS 2 x 151 BOMB BAY 1 x 585 SEE (f)	2 1255 TOT	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	3000	SEE (A)	TECHNICAL ORDER 01-600B-1. (1 MAY 1943) f) FUEL CAPACITY OF LAST 102 (B-25C's) SAME AS BELOW. g) LENGTH OF B-25C AIRPLANE IS 53 FT.		
B-25C-NA -1 TO -25 INCL. B-25D-NC -1 TO -35 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	B 22000 C 33500	MAIN - WINGS 2 x 151 MAIN - WINGS 2 x 151 AUX. - WINGS 6 - 304 SIDE WAIST 1 x 126 BOMB BAY 1 x 585 SEE (f)	1624 TOT	1-.50 2-.50 2-.50	300 300 400 350	NOSE - FLEX. NOSE - FIXED UPPER TURRET LOWER TURRET	1-2000 2-1600 3-1000 6- 500 8- 100 12- 100	2-1600 6- 325 8- 250	5200	AS ABOVE	TECHNICAL ORDER 01-600B-1. (1 MAY 1943) a) B-25C-1 & D-1 ARMAMENT SAME AS BELOW; LOWER TURRET ON SOME AIRPLANES ONLY. b) ARMOR PROTECTING BOMBS ON SOME MODELS ONLY. c) B-25C-25 & D-20 THRU -35 FUEL CAPACITY SAME AS BELOW; 1x125 GAL. SIDE WAIST TANK ON B-25D SERIES ONLY. d) LOWER TURRET ON SOME MODELS ONLY. e) BOMB BAY FUEL CONSISTS OF 1x215 GAL. SELF SEALING REMOVABLE TANK & 1x335 GAL. METAL DROPPABLE TANK; 1x585 GAL. METAL TANK IS INTERCHANGEABLE.		
B-25G-NA -1 TO -10 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	B 21700 C 33500	MAIN - WINGS 2 x 151 MAIN - WINGS 2 x 151 AUX. - WINGS 6 - 304 SIDE WAIST 1 x 126 BOMB BAY 1 x 585 SEE (f)	1624 TOT	1-75MM 2-.50 2-.50	21 400 400 350	NOSE CANNON NOSE - FIXED UPPER TURRET LOWER TURRET	A	S	A	B	O	T	E
B-25H-NA -1 TO -10 INCL.	WRIGHT R-2600-13 or -29 2 SPD. SUPERCH. HAMILTON STD. 12'7" DIA. - 3 BL. P.P. HYDROMATIC	1700/8 L 1850/8 L 1700/1500 1150/13000 1500/6700 1350/13500	56'6" L 52'8" H 15'9" T 19'4"	B 22000 C 33500	MAIN - WINGS 2 x 151 MAIN - WINGS 2 x 151 AUX. - WINGS 6 - 304 SIDE WAIST 1 x 126 BOMB BAY 1 x 585 SEE (f)	1624 TOT	1-75MM 2-.50 2-.50	21 400 400 350	NOSE-TYPE 1151 NOSE - FIXED NOSE - PACKAGE SIDE WAIST-FL. UPPER TURRET TAIL POWER MT.	1-2000 2-1600 3-1000 6- 500 8- 250 12- 100	1-2000T	3200	SCR-27LN SCR-259G SCR-287 SCR-522 SCR-578 SCR-595 RC-36	TECHNICAL ORDER 01-600B-1. (10 DEC. 1944) a) BOMBS B-25H-1's CARRY ONLY 2 NOSE PACKAGE GUNS. b) THE 2000 LB. BOMB STATION DELETED ON 151st AIRPLANE OF BLOCK (-5) AND SUBSEQUENT. c) BOMB BAY FUEL SAME AS LISTED FOR B-25D's ABOVE.		
B-25J-NC -1 TO -35 INCL.	AS ABOVE	AS ABOVE	AS ABOVE	B 21100 C 33500	MAIN - WINGS 2 x 151 MAIN - WINGS 2 x 151 AUX. - WINGS 6 - 304 SIDE WAIST 1 x 126 BOMB BAY 1 x 585 SEE (f)	1624 TOT	1-.50 2-.50 2-.50	300 300 400 350	NOSE - FLEX. NOSE - FIXED NOSE - PACKAGE SIDE WAIST-FL. UPPER TURRET TAIL POWER MT.	AS ABOVE EXCEPT THAT 2000 LB. BOMB STATION IS DELETED ON 151st B-25J-1 AND SUBSEQUENT MODELS.			SCR-27LN SCR-259G SCR-287 SCR-522 SCR-578 SCR-595 RC-36	TECHNICAL ORDER 01-600B-1. (25 DEC. 1944) *SCR-269G IS REPLACED BY AN/ARN-7 ON B-25J-15 & SUBSQ.		

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 FT. M.P.H.	GROUND-RUN		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.	AT 10000 FT.	AT 25000 FT.	RANGE MILES	ENDUR. HOURS		
B-25C & D (NA & NC)	25000 30000 32000 34000	- 3800 4700 5500	3300 3650 3900 -	99 108 112 116	- 2950 3700 4100	1800 2000	20000 15000 10000 5000	267 286 284 283	- - 900 1250	262 283 279 276	175 590 279 276	30.0 18.5 9.5 4.2	30000 29500	NONE 3000	1255 670	950 500	3.5 1.8	- -	1475 750	6.3 3.2	- -	1850 925	9.3 4.7			
B-25C-NA -1 TO -25 INCL. B-25D-NC -1 TO -35 INCL.	32000 33200 34000 35200	1700 5200 5500 6000	3900 4000 4100 -	112 114 116 -	3700 4100 4400 4750	2000 2050 2100 -	20000 15000 10000 5000	265 284 283 282	- - 900 1370	260 280 276 274	175 590 279 276	30.0 18.5 9.5 4.2	34900 34000 33200 32200	NONE NONE 974 2000T	1644 1599 974 850	700 700 650 600	2.6 2.6 2.6 2.6	- -	1050 950 875	5.3 4.2 4.1	- -	2700 2100 1900 1125	10.4 10.7 7.4 6.2	*STRIP TO 35000 LB. LIMITING WEIGHT.		
B-25G-NA -1 TO -10 INCL.	32000 33700 34600 35200	1700 5350 5450 6000	3950 4050 4100 -	112 114 116 -	3700 4250 4350 4850	1950 2050 2100 -	20000 15000 10000 5000	265 278 285 266	- - 1150 1200	260 274 276 274	175 590 279 276	30.0 18.5 9.5 4.2	34900 34000 33700 33900	NONE NONE 2000 2000T	1649 1524 1189 1189	950 950 925 974	3.5 3.6 2.9	- -	- -	- -	975 975	4.4 4.4	- -	2425 2250 1700 1475 1200	11.6 10.7 8.1 7.3 6.5	*CAPACITY OF 1189 GAL. INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. OF BOMBS ONLY or 1x2000 LB. TORPEDO.
B-25H-NA -1 TO -10 INCL.	32000 33700 34000 34800	1700 5350 5450 5800	3950 4050 4100 -	112 114 116 -	3700 4250 4350 4850	1950 2050 2100 -	20000 15000 10000 5000	265 270 266 272	- - 1050 1110	260 275 268 264	175 540 700 1050	31.7 19.0 11.1 5.0	35000** 35000** 35000** 35000**	NONE NONE 2000 2000T	1624 1524 1189 1189	1200 1125 850 800	4.1 3.7 3.1 3.1	- -	2275 2125 1600 1160	8.9 8.2 6.3 6.1	- -	2515 2350 1790 1610	12.0 10.1 8.0 7.2	*CAPACITY OF 1189 GAL. INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. OF BOMBS ONLY or 1x2000 LB. TORPEDO.		
B-25J-NC -1 TO -35 INCL.	32000 33700 34000 35200	1700 5350 5450 6000	3950 4050 4100 -	112 114 116 -	3700 4250 4350 4850	1950 2050 2100 -	20000 15000 10000 5000	265 270 266 272	- - 1050 1110	260 275 268 264	175 540 700 1050	31.7 19.0 11.1 5.0	34900 34000 33800 34000	NONE NONE 2000 2000T	1624 1524 1189 1189	950 950 925 974	3.5 3.4 2.9	- -	1575 1150 1275	6.6 6.5 5.4	- -	1800 1575 1450	8.5 8.1 6.9	*CAPACITY OF 1189 GAL. INCLUDES 1x215 GAL. SELF SEALING REMOVABLE TANK AVAILABLE WITH 2000 LB. OF BOMBS ONLY or 1x2000 LB. TORPEDO.		

NOTES: (A) VOLTA RADIO SYSTEM
SCR-211 FREQUENCY METER
SCR-269G RADIO COMPASS
SCR-27LN COMMAND SET (or SCR-522)
SCR-287A LIAISON SET
SCR-535 SET (or SCR-995 or SCR-695)
SCR-578 EMERGENCY TRANSMITTER
RC - 32 FILTER EQUIPMENT (or RC-198)
RC - 43B MARKER BRACON
RC - 105 BLIND LANDING (Provisions only)
RC - 196 CONTACTOR UNIT
RC - 36 INTERPHONE AMPLIFIER

SEE FIGURES AND PRELIMINARY SUBSQU TO REVISION AFTER FLIGHT CHECK.
*MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

(B) TIMES & FLIGHT CHARACTERISTICS ARE ORIGINAL ABOVE 35000 LB.
(C) TORPEDOS BELOW USED IN LIMITED QUANTITIES ONLY.
(D) TIME TO CLIMB BASED ON MAX. CONTINUOUS POWER ONLY.

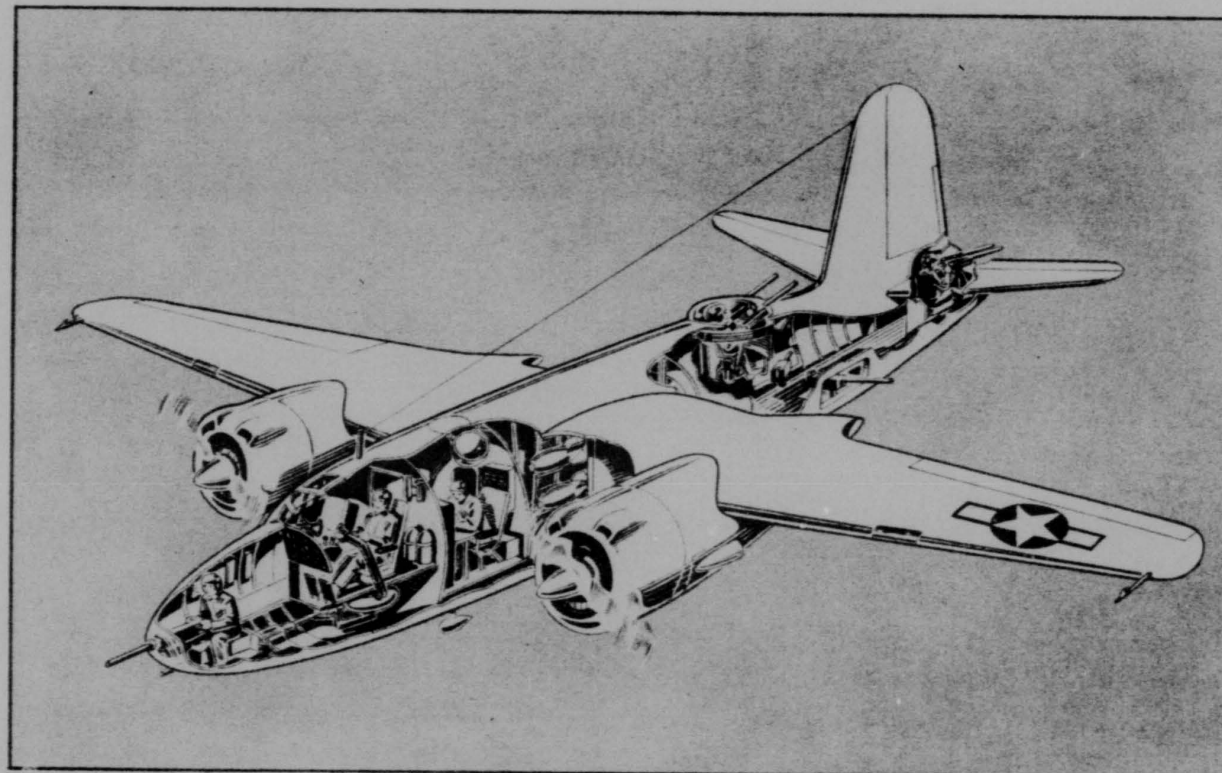


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"MITCHELL"

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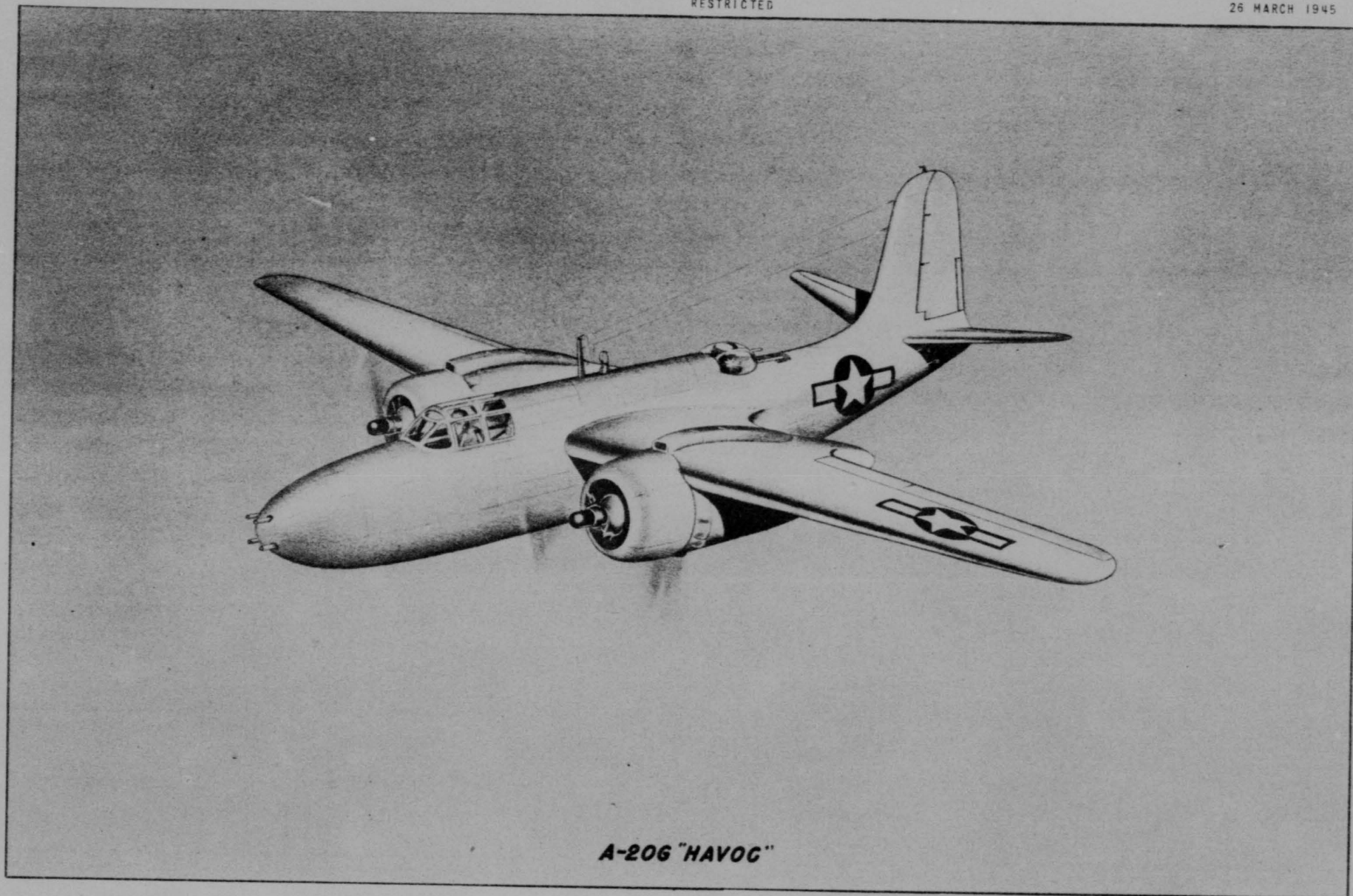
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26 MARCH 1945



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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART PAGE 21
DATE 25 MARCH 1945

MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.			RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFG. MODEL SUPERCHARGER PROP MFG. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING-AREA	B-BASIC C-COMBAT W-WAR MAL		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & RDS PER GUN	LOCATION & TYPE	INTERNAL NO & SIZE OR STATION	EXTERNAL NO & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE		
A-20G-DO -1 TO -15 INCL	2	WRIGHT R-2600-23 2 SPD. SUPERCH. HAMILTON STD. 11"3" DIA. - 3 BL. P.P. HYDRA-MATIC	T 1600/5 L. M 1600/1000 C 1350/5000 1275/11500	S 61'4" L 48'0" H 17'7" T 17'0" W 165 SQ.	B 17200 C 21400 W 30000A	3	INTERNAL OUTER WINGS FUS. (BOMB B.) WRAP-EXTER. SEE (*)	2 x 64 2 x 70 4 - 500 1080 TOT.	1) .20 (2) .50 500 350	TUNNEL - FLEX. REAR COCKPIT NOSE - FIXED	4-500 4-250 4-100	(SEE C) 1-2000 T 4-500 4-250 4-100	2000	SCR-271M SCR-555A SCR-695A MC-26Y RC-36 SC-198 RC-198 SCR-522 F	TECHNICAL ORDER 01-14 (10 NOV. 1944) * ARMAMENT FOR A-20G-1 IS (2) .50 CAL. FIXED NOSE GUNS OF 350 RDS. EACH & (4) 20MM NOSE CANNON, TYPE M2 OF 60 RDS. EACH; MAJORITY ALLOCATED TO FOREIGN POWER.	
A-20G-DO -20 TO -45 INCL	2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	3	INTERNAL OUTER WINGS FUS. (BOMB B.) DROP - EXT. (SEE B)	2 x 136 2 x 64 3 - 325 1 x 374 1099 TOT.	1) .50 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	4-500 4-250 4-100	(SEE C) 1-2000 T 4-500 4-250 4-100	1000	SCR-271M SCR-555A SCR-695A MC-26Y RC-36 SC-198 RC-198 SCR-522 F	REFERENCE AS ABOVE * NO PROVISIONS FOR TORPEDO ON A-20G-10 & -15. * A-20G-15 HAS MC-26C INSTEAD OF MC-26Y. * SCR-522 INSTALLED ON THE -15'S ONLY.	
A-20J-DO -1 TO -20 INCL	2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	4	AS ABOVE	AS ABOVE	1) .50 400 350	TUNNEL - FLEX. UPPER TURRET NOSE - FIXED	AS	AS ABOVE	AS ABOVE	SCR-271M SCR-555A SCR-695A MC-26Y RC-36 SC-198 RC-198 SCR-522 F	REFERENCE AS ABOVE * NO PROVISIONS FOR TORPEDO ON A-20J-15 & -20.	
A-20H-DO -1 TO -15 INCL	2	WRIGHT R-2600-29 2 SPD. SUPERCH. HAMILTON STD. 11"3" DIA. - 3 BL. P.P. HYDRA-MATIC	T 1700/5 L. M 1700/5200 C 1500/6400 1350/19900	S 61'4" L 48'0" H 18'7" T 17'0" W 165 SQ.	AS ABOVE	5	AS ABOVE	AS ABOVE	1) .50 400 350	TUNNEL-FLEX. UPPER TURRET NOSE-FIXED	4-500 4-250 4-100	4-500 4-250 4-500 1000	SCR-271M SCR-555A SCR-695A MC-26Y RC-36 SC-198 RC-198 SCR-522 F	TECHNICAL ORDER 01-14 (REV. 30 OCT. 1944) NO TORPEDO PROVISIONS.		
A-20K-DO -1 TO -15 INCL	2	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	4	AS ABOVE	AS ABOVE	1) .50 400 350	TUNNEL-FLEX. UPPER TURRET NOSE-FIXED	AS	AS ABOVE	AS ABOVE	SCR-271M SCR-555A SCR-695A MC-26Y RC-36 SC-198 RC-198 SCR-522 F	REFERENCE AS ABOVE. A-20K SAME AS A-20H, EXCEPT FOR BOMBARDIER NOSE.	

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

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE						
	GROSS WEIGHT LB.	TO CLEAR 50 FT.		LANDING SPEED KNOTS	GROUND-RUN		STD ALT. FT.	MIL. POWER HP.	RATE OF CLIMB FT./MIN.	HIGH SPEED MPH.	RATE OF CLIMB FT./MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO PASS. LB.	TOTAL FUEL U.S. GAL.	MAX CONTINUOUS POWER		MAX CRUISE POWER		LONG RANGE									
		T.O. DIST.	LAND. DIST.		T.O. DIST.	LAND. DIST.										AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.									
		FT.	FT.		FT.	FT.										RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE		ENDUR.					
A-20G-DO -1 TO -15 INCL	19000 21000 25000 26000 27000	2550 3250 4100 5000 5700	3000 3350 3650 -	75 100 105 -	2000 2700 3350 3650 4500	2100 2100 2100 -	25000 20000 15000 10000 5000 S L	275 302 317 317 306 300	420 300 1180 1500 1500	398 312 312 301 287	390 550 1000 3.5 0.0	15.5 15.5 6.3 3.5 0.0	25300 21000 21000 26000	NOISE 2000 2000 4000	1090 540 540 720 725 485 380	925 430 350	3.1 1.5 1.4	1170 435 405	4.8 2.2 2.2	1440 650 565	5.7 2.5 2.3	1360 505 460	6.3 2.6 2.6	2055 880 785	10.5 4.2 4.0				
A-20G-DO -20 TO -45 INCL	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	26000	25000 20000 15000 10000 5000 S L	275 302 317 317 306 300	420 300 1180 1500 1500	398 312 312 301 287	390 550 1000 3.5 0.0	26200 26000 26000 26000	NOISE 2000 2000 4000	1099 725 485 400	720 600 485 380	2.5 2.0 1.8 1.1	*1180 *630 *575 *165	*4.9 *3.0 *3.0 *1.3	1620 1015 935 480	6.7 4.3 4.3 2.2	*1365 *720 *640 *185	*6.4 *3.7 *3.5 *1.4	1950 1170 1055 540	9.4 5.7 5.5 2.7	FLIGHTS ABOVE 10000 FT. REQUIRE SPECIAL PROVISIONS FOR OXYGEN.				
A-20J-DO -1 TO -20 INCL	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	26000	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	
A-20H-DO -1 TO -15 INCL	19000 21000 25000 26000 27000	2550 2500 2850 4350 5200	2900 2500 2500 -	84 100 108 -	1650 2300 2700 2825 3000	2100 2100 2100 -	25000 20000 15000 10000 5000 S L	275 315 322 322 306 300	420 480 1080 1500 1500	398 317 317 301 287	390 480 1000 1340 287	15.5 15.5 6.3 5.6 2.7 0.0	26360 26040 26000	NOISE 2000 2000 4000	1099 725 565 400	750 565 350 250	2.6 2.6 1.6 0.8	- - - -	- - - -	1160 985 450	5.4 3.4 1.7	- - -	- - -	1975 1275 560	8.7 5.2 2.3	AS ABOVE			
A-20K-DO -1 TO -15 INCL	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	26000	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE

NOTES: (A) CRITICAL FLIGHT CHARACTERISTICS RESULT ABOVE 27000 LB.
(B) FUSELAGE TANKS ARE CARRIED IN BOMB BAYS WITHOUT AFFECTING BOMB LOAD CAPACITY.
(C) PROVISIONS ONLY, FOR TORPEDO: A-20 SERIES NOT BEING USED FOR TORPEDO MISSIONS AS PER MILITARY REQUIREMENTS POLICY NO. 37 DATED JULY 3, 1943.
RANGE VALUES WITH TORPEDO ARE SHOWN FOR COMPARATIVE REFERENCE.

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

* MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

T TORPEDO: (REPLACES INTERNAL BOMBS WHEN CARRIED)

X EXTERNAL



A-20
"HAVOC"

MANUFACTURED BY DOUGLAS (SANTA MONICA) "DO"

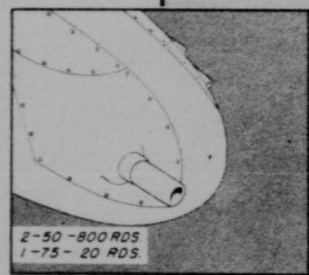
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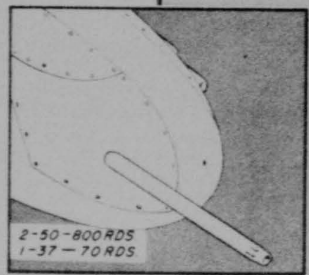
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PAGE 22
AS OF:
25 JAN. 1941

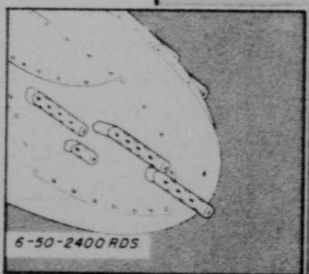
**ALL PURPOSE NOSE AND BOMB BAY
(A-26 SERIES)**



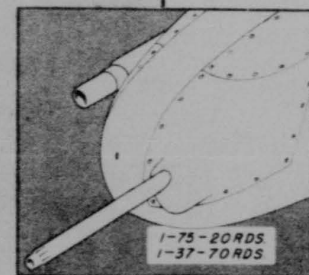
USE A OR B



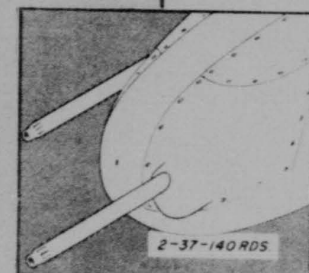
USE C, D, E OR F



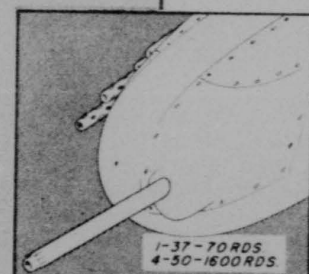
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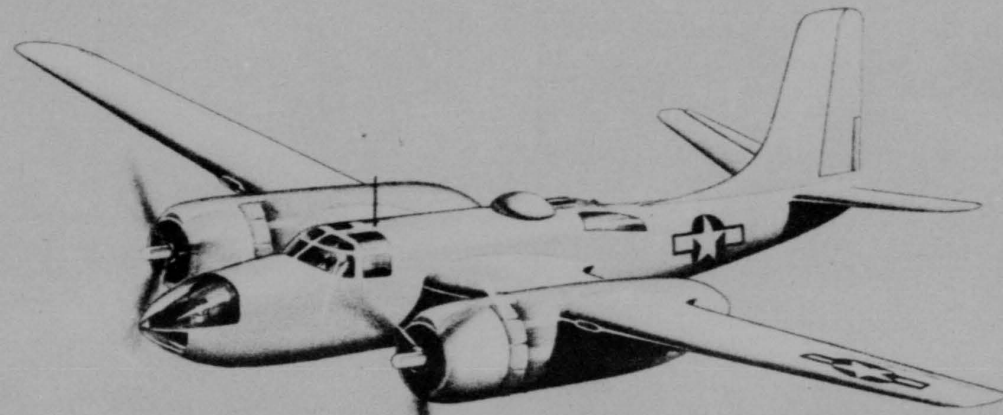
USE A OR B



USE C, D, E OR F



USE C, D, E OR F



A-26 C

A	B	C	D	E	F
125 GAL. (N.W.)		105 GAL. (N.W.)		105 GAL. (N.W.)	105 GAL. (N.W.)
INTERNAL BOMB LOAD:	INTERNAL BOMB LOAD:	INTERNAL BOMB LOAD:	INTERNAL BOMB LOAD:	INTERNAL BOMB LOAD:	INTERNAL BOMB LOAD:
3x1000 5x 500 6x 250 9x 100	75mm shell cass frag	3x1000 4x1000 5x 500 6x 250 12x 100	4x1000 5x 500 6x 250 16x 100	112x 23 (Frig.)	2x2000 (Torpedoes)

U.S. - Self Sealing

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT W-WEIGHT		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.		TYPE
A-26B-1 & -5 (DL) A-26B-1 & -5 (DT)	2	PRATT-WHITELEY R-2500-27 SINGLE ST.-2 SPD. HAMILTON STD. 12" DIA. - 3BL. P.F. HYDROMATIC	T 2000/ 3 L M 2000/ 1500 C 1600/ 13500	S 70" L 19'11" H 18' 6" T 19' 6" W 54.0 sq. ft.	B 23275 C 35000 W 42300B	2	MAIN - WINGS AUX. - WINGS BOMB BAY(S) B. BAY (FERRY) SKS (T)	2 x 300 2 x 100 1 x 125 1 x 675 1600 TOT.	1-75MM 2-.50 2-.50 1-.50A 2)	20 500 500 300	A NOSE - TURRET UPPER TURRET LOWER TURRET A WINGS-PACKAGE	b ₁ -1000 b ₂ -500 b ₃ -250 b ₄ -100	b ₁ -2000T b ₂ -500 b ₃ -250 b ₄ -100	L-1000 L-500 L-500 L-500 L-1000 L-500 L-250 L-100	SCR-271N SCR-695 MN - 26 RC - 36 SCR-522	TECHNICAL ORDER 01-10A-1. (REV. 10 JAN. 1945) (a) PARTS PROCURED FOR SERVICE INSTALLATION OF ALL-PURPOSE NOSE AS SHOWN IN OPPOSITE PAGE. (b) SEE PAGE OPPOSITE FOR BOMB LOAD CARRIED WITH 75MM. GUN. (c) NORMAL CREW (2) WITH 75MM. GUN CREW IS (3). (d) THE A-26B-1-DL HAS NO SELF SEALING BOMB BAY TANK.
A-26B-DL -10 to -45 INCL. A-26B-DT -10 to -25 INCL.	2	PRATT-WHITELEY R-2500-27 or -71 SINGLE ST.-2 SPD. HAMILTON STD. 12" DIA. - 3BL. P.F. HYDROMATIC	AS ABOVE	S 70" L 19'11" H 18' 6" T 19' 6" W 54.0 sq. ft.	B 23275 C 35000 W 42300B	2	AS ABOVE	2) .50 2) .50 2) .50A 2)	400 500 500 300	AS ABOVE	AS ABOVE EXCEPT A-26B-50-DL & SUBSEQUENT MODELS CARRY (14) 5" ZERO LENGTH RAIL ROCKETS or EXTERNAL BOMBS. DATA WITH ROCKETS & EXTERNAL BOMBS IS UNDETERMINED TO DATE.	b ₁ -1000 b ₂ -500 b ₃ -250 b ₄ -100	b ₁ -2000T b ₂ -500 b ₃ -250 b ₄ -100	L-1000 L-500 L-500 L-500 L-1000 L-500 L-250 L-100	SCR-271N SCR-522 SCR-695 MN - 26 RC - 36 AN/ARN-7	TECHNICAL ORDER 01-10A-1. (REV. 10 JAN. 1945) (a) SEE PAGE OPPOSITE FOR ALL-PURPOSE NOSE INSTALLATION. (b) AN/ARN-7 IN LIEU OF MN-26 IS INSTALLED IN A-26B-15-DT AND A-26B-20-DL AND SUBSEQUENT MODELS.
A-26C-DT -15 to -30 INCL.	2	AS ABOVE	AS ABOVE	S 70" L 19'11" H 18' 6" T 19' 6" W 54.0 sq. ft.	B 23760 C 35000 W 42300B	3	AS ABOVE	2) .50 2) .50 2)	400 500 500	AS ABOVE	AS ABOVE EXCEPT A-26B-50-DL & SUBSEQUENT MODELS CARRY (14) 5" ZERO LENGTH RAIL ROCKETS or EXTERNAL BOMBS. DATA WITH ROCKETS & EXTERNAL BOMBS IS UNDETERMINED TO DATE.	b ₁ -1000 b ₂ -500 b ₃ -250 b ₄ -100	b ₁ -2000T b ₂ -500 b ₃ -250 b ₄ -100	L-1000 L-500 L-500 L-500 L-1000 L-500 L-250 L-100	SCR-271N SCR-522 SCR-695 SCR-269 or AN/ARN-7 RC - 36	TECHNICAL ORDER 01-10A-1. (REV. 5 DEC. 1944)

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE			
	GROSS WEIGHT LB.	TO CLEAR 50 FT. DIST.		LANDING SPEED FT. M.P.H.	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 10000 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 MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS		RANGE MILES	ENDUR. HOURS	RANGE MILES
A-26B-1 to -45 (DL)	25000	-	1250	96	-	1750	20000	337	260	329	100	31.1	35000	NONE	1600	1090	3.5	1115	7.0	2150	7.9	2265	6.0	3090	13.1	(a) NO PROVISIONS FOR CRYGEN.
A-26B-1 to -25 (DT)	29000	2950	138	110	2100	2000	15000	355	720	341	520	15.2	31100	NONE	925	660	2.0	585	4.4	1350	4.3	1175	4.6	1735	7.9	(b) WHEN 8 EXTERNAL WING PACKAGE GUNS ARE CARRIED THE HIGH SPEED DECREASES APPROX. 13 MPH & RATE OF CLIMB 100 FT./MIN.
A-26C-15 to -30 (DT)	35000	6500	1250	111	2700	2250	10000	346	1010	330	560	7.0	34100	3000	925	660	2.0	585	4.4	1300	4.3	1125	4.6	1640	6.5	
	34000	4500	-	-	2850	-	5000	350	1540	320	-	8.7	34600	3000	925	660	2.0	585	4.4	1300	4.3	1125	4.6	1640	6.5	
	35000	4500	-	-	3250	-	S L	328	2030	297	-	0.0	34600	4000	800	560	1.7	485	3.7	1150	3.8	970	3.9	1385	5.9	

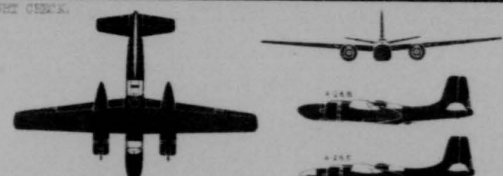
NOTES:

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

ENGINE NOTE: SOME A-26 MODELS USE WATER INJECTION ENGINES; MODELS R-2500-67 & -79.

REMARKS: * MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.
x EXTERNAL
T TORPEDO

(B) TIRES & BRAKES CRITICAL ABOVE 35000 LB.



A-26
"INVADER"

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

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD	B-BASIC C-COMBAT W-WAR MAX		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY			MAX. LOAD LB.	TYPE
			T-TAKE-OFF M-MILITARY C-CONTINUOUS	W-WING AREA														
A-36 A-NA	1	ALLISON V-1710-27 SINGLE SPEED CURTISS 10'9" DIA. - 3 BL. CONST. SPD. ELECT.	T 1325/S L M 1325/5400 C 1500/2500 1100/6600	S 37' 0" L 32' 3" H 12' 2" T 11' 10" W 233 sq. ft.	B 7100 C 10000 W 10790	1	MAIN - WING EXT. - WINGS	2 x 90 2 x 75 or 2 x 150 180 TOT.	2-.50 2-.50	200 200	NOSE - FIXED WING - FIXED	NONE	2-500 2-325 2-250	1000	SCR-271M SCR-535 SCR-595**	TECHNICAL ORDER 01-608B-1. (10 JULY 1943) ** WAR EMERGENCY RATING. ** LAST 399 ONLY.		
			T M C	S L H T W	B C R W													
			T M C	S L H T W	B C R W													
			T M C	S L H T W	B C R W													
			T M C	S L H T W	B C R W													
			T M C	S L H T W	B C R W													

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE
	TO CLEAR 50'		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			
	T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.	LANDING SPEED	HIGH SPEED			RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB				RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	
A-36 A-NA	9000	2800	3000	-	2050	2100	20000	288	500	277	300	16.6	11000	NONE	180	1100	5.1	-	-	-	-	2100	9.4
	10000	3400	3500	-	2500	2400	15000	295	1025	285	#	9.1	10000	NONE	330	1000	3.5	-	-	-	-	1500	7.0
	11000	4100	-	-	3200	-	10000	305	1525	295	#	5.1	9000	NONE	180	550	1.8	-	-	-	-	850	3.5
							5000	310	2075	295	#	2.4	10000	1000	180	500	1.8	-	-	-	-	800	3.4
							S L	295	2200	275	#	0.0											

NOTES:

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



A-36
"MUSTANG"

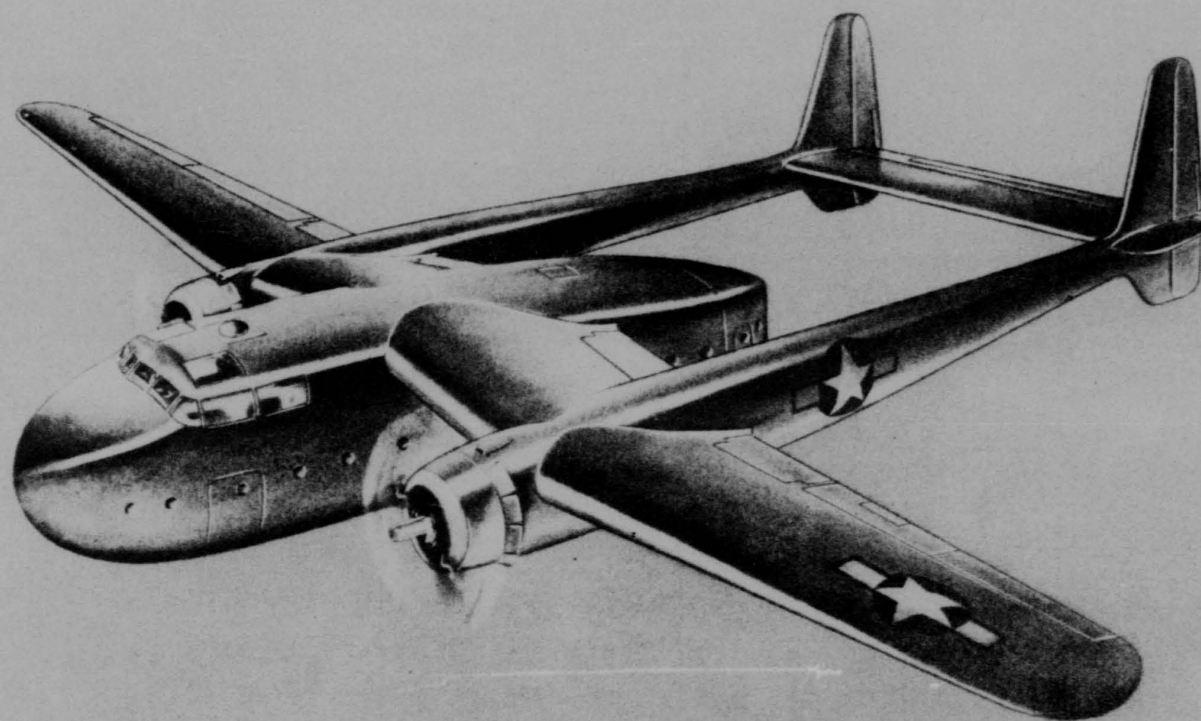
MANUFACTURED BY NORTH AMERICAN (Inglewood) "NA"

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AS OF:
23 FEB. 1945



PACKET
FAIRCHILD C-82

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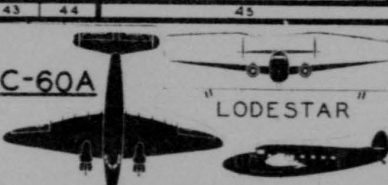
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																			
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE				
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT.	S-SPAN L-LENGTH M-HEIGHT T-TREAD W-WING AREA W-WAR MAX.			B-BASIC C-COMBAT	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION		EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE		
																		T-TAKE-OFF M-MILITARY C-CONTINUOUS	T-TAKE-OFF M-MILITARY C-CONTINUOUS
C-46A-5 to-55 (CU) C-46A-1, -5, -60 (CK) C-46A-1, -40 (CS) C-46D-1 to-20 (CW)	2	PRATT-WHITENEY R-2800-51 or -75 2 SPEED CURTISS 13'6" DIA. - 3BL. F.F. HYDROMATIC	T 2000/ 8 L M 2000/ 1500 C 1600/ 5700 11,50/13000	S 108'0" L 76'4" H 22'0" T 25'0" W 1360 SQ. FT.	B 32100 C 16000 W 56000A	4	WING-FUSelage	5-11000 2x 100 2200 TOT.	N	O	N	E	PURE-BELLY APT -BELLY MAIN-CABIN TROOPS	3700 1800 10000 or 50	15000	SCR-211, 269, 271, 287, 514, 578 & 695 RC-36, 13, 105 & 198. AN/ARR-1	TECHNICAL ORDER 01-251A-1. (25 JUNE 1944) * MAX. RADIO COMBINATION LISTED. * R-2800-75 ENGINES ON LATE C-46A-55-CU & C-46D-10-CU.		
C-47A to -90 (DL) C-47A to -30 (DK) C-53C & D (DL)	2	PRATT-WHITENEY R-1830-92 INTEGRAL SUPER. HAMILTON STD. 11'7" DIA. - 3BL. F.F. HYDROMATIC	T 1200/ 8 L M 1050/ 7500 C 1050/ 7500	S 95'0" L 61'6" H 17'0" T 18'6" W 987 SQ. FT.	B 18200 C 26000 W 36500A	4	MAIN - WINGS AUX. - WINGS FUSELAGE	2x 202 2x 200 8x 100 1604 TOT.	N	O	N	E	CARGO or TROOPS or LITTERS	5000 27 15	5000 NO. 10000 MAX. 11000 MAX.	SCR-211, 269, 271, 287, 514, 578 & 695 RC-36, 13, 105 & 198. AN/ARR-1	TECHNICAL ORDER 01-140C-1. (REV. 5 SEPT. 1944) (a) INCLUDES 1000 LB. MISC. EQUIPMENT. * MAX. RADIO COMBINATION LISTED. NOTE: C-47 & C-53 SERIES SIMILAR EXCEPT FOR LARGE CARGO DOOR ON C-47 & (28) PLACES IN C-53.		
C-47B-DK -1 to -20 C-47B-DL -1	2	PRATT-WHITENEY R-1430-90C 2 SPEED HAMILTON STD. 11'7" DIA. - 3BL. F.F. HYDROMATIC	T 1200/ 8 L M 1050/ 7500 C 1050/ 7500	S 95'0" L 65'9" H 16'11" T 18'6" W 987 SQ. FT.	B 18150 C 25000 W 36500A	4	AS ABOVE	AS ABOVE	N	O	N	E	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-140D-1. (NOV. 1944)		
C-60A-L0 A to -5	2	WEIGHT R-1420-57 2 SPEED HAMILTON STD. 10'6" DIA. - 3BL. F.F. HYDROMATIC	T 1200/ 8 L M 1200/ 5700 C 1000/ 8100 900/16500	S 95'8" L 49'10" H 12'0" T 15'4" W 591 SQ. FT.	B 15000 C 21000 W 25000	3	FRONT-WINGS REAR-WINGS AUX. - CABIN	2x 150 2x 172 3x 134 1046 TOT.	N	O	N	E	BELLY CABIN or PARATROOPS	3400 6600 or 18*	8500	SCR-211, 269, 271, 287, 514, 578 & 695 RC-36, 13, 105, 198. AN/ARR-1	TECHNICAL ORDER 01-750E-1. (REV. 10 JAN. 1945) * MAX. RADIO COMBINATION LISTED. * 1200 LB. BALLAST REQUIRED IN NOSE TO BALANCE PARATROOPS.		
C-82-FA	2	PRATT-WHITENEY R-2800-22C INTEGRAL SUPER. HAMILTON STD. 15'2" DIA. - 3BL. F.F. HYDROMATIC	T 2100/ 8 L M 2100/ 10000 C 1700/ 7000 1450/18500	S 106'5" L 75'10" H 25'4" T 28'0" W 1100 SQ. FT.	B 29500 C 47000 W 56000A	5	MAIN - WINGS AUX. - WINGS	4-3120 2-314 3244 TOT.	N	O	N	E	* CARGO or JEEPS or T-9 TANK or TROOPS or * LITTERS	5500* 5 1 42 32**	19000	SCR-211, 269, 271, 287, 514, 578 & 695 RC-36, 13, 105, 198. AN/ARR-1	TECHNICAL ORDER 01-1150B-1. * AIRPLANE DESIGNED FOR TOWING ONE 18000 LB. GLIDER or TWO 7000 LB. GLIDERS. ** PLUS (4) CASUALTY ATTENDANTS.		

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 MPH	GROUND-RUN		STD. ALT. FT.	MIL. POWER MPH	MAX. CONTIN. POWER RATE OF CLIMB FT/MIN.	TIME TO CLIMB MIN.	TAKE OFF WEIGHT LB.	BOMBS CARGO LB.	TOTAL FUEL U.S. GAL.	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
T.O. DIST. FT.		LAND. DIST. FT.	T.O. DIST. FT.		LAND. DIST. FT.	AT 10000 FT.								AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	RANGE MILES	ENDUR. HOURS	
C-46A-5 to-55 (CU) C-46A-1, -5, -60 (CK) C-46A-1, -40 (CS) C-46D-1 to-20 (CW)	34000 39000 15000 50000	- 2050 2700 3500	2250 2160 2650 -	82 88 95 -	1200 1100 1600 -	14000 14000 14000 S L	2000 15000 10000 5000	260 269 264 262	530 750 900 1100	257 650 750 900	100 18.6 11.6 5.5	28.4 15.6 11.6 5.5	51000 47000 47000 51000	2000 4000 5000 10000	2200 1100 1050 1050	1600 850 750 700	6.2 3.8 2.8 2.7	- - - -	2500 1100 1200 1100	11.7 6.1 5.3 5.3	- - - -	2950 1900 1350 1200	14.3 9.8 6.4 6.1		
C-47A to -90 (DL) C-47A to -30 (DK) C-53C & D (DL)	21000 23000 26000 29300	- 1850 2100 3200	2100 2300 2500 -	66 69 73 -	1300 1150 1600 -	26000 15000 10000 S L	20000 15000 10000 5000	SAME AS FOR MAX. CONTIN. UOUS POWER	201 224 219 203	360 780 900 1020	25.7 15.6 10.0 5.0	25.7 15.6 10.0 5.0	29300 26000 26000 29300	NONE 3000 2000 5000	160L 100L 80L 80L	1350 850 650 650	6.2 3.8 3.0 3.0	ABOVE FRAC-TICAL CRUIS-ING CEILING	2340 1560 1115	12.3 4.3 5.8	ABOVE FRAC-TICAL CRUIS-ING CEILING	3050 2100 1475	18.6 12.9 9.0	* MAX. PERMISSIBLE LEVEL FLIGHT SPEED FOR 29000 LB. IS 137 MPH. (I.A.S.)	
C-47B-DK -1 to -20 C-47B-DL -1	21000 23000 26000 29300	2100 2350 2850 3300	1530 1650 2750 -	71 73 76 -	1000 1325 1700 2150	20000 15000 10000 S L	20000 15000 10000 5000	SAME AS FOR MAX. CONTIN. UOUS POWER	223 224 219 203	500 780 900 1020	24.0 15.0 10.0 5.0	24.0 15.0 10.0 5.0	29300 29000 26000 29300	NONE 1100 2000 5000	160L 120L 100L 80L	1350 1090 850 650	6.2 5.3 3.8 3.0	2550 3060 1600 1190	12.9 10.4 7.9 6.2	2340 1675 1560 1115	12.2 9.4 8.3 5.8	- - - -	3050 2475 2100 1475	18.6 14.4 12.9 9.0	AS ABOVE
C-60A-L0 A to -5	14000 17500 18500 21000 23000	- 1800 2050 -	2150 2600 2700 -	61 68 70 -	1700 1000 1150 1900	20000 15000 10000 5000 S L	20000 15000 10000 5000	259 269 260 255**	650 1300 1100 1600	235 262 252 217	19.0 11.0 7.0 3.0	19.0 11.0 7.0 3.0	21000 23000	1160 5000*	1046 604	1000 600	4.1 2.5	ABOVE FRAC-TICAL CRUIS-ING CEILING	1450 850	6.3 3.9	ABOVE FRAC-TICAL CRUIS-ING CEILING	2300 1200	13.0 7.0	* 5000 LB. CARGO or 18 PARATROOPS & 1200 LB. BALLAST IN NOSE. ** SPEED RESTRICTED IN LEVEL FLIGHT.	
C-82-FA	35000 42000 50000	2050 2275 4220	1175 1115 -	85 91 -	1100 1350 2940	20000 15000 10000 5000 S L	20000 15000 10000 5000	225 227 223 228	180 360 510 900	222 225 221 223	39.0* 21.4 10.9 4.5	39.0* 21.4 10.9 4.5	50000 42000 50000	NONE 2500 10000 19000	114L 250L 1925L 110L	1225 1895 1705 230	8.6 4.4 4.5 0.8	ABOVE FRAC-TICAL CRUIS-ING CEILING	3435 1895 1705	18.8 10.2 9.5	ABOVE FRAC-TICAL CRUIS-ING CEILING	3930 2260 1775 240	27.1 16.2 12.2 1.7	* TIME TO CLIMB BASED ON MILITARY POWER.	

NOTES:
RED DENOTES PRELIMINARY DATA.
(A) PERMISSIBLE ONLY WITH ALL WING TANKS FULL.



MANUFACTURED BY: FAIRCHILD (ROCKFORD) "FA", NORTH AMERICAN (DALLAS) "N", CURTISS (INDIANAPOLIS) "C", CURTISS (LOUISVILLE) "CA", CURTISS (ST. LOUIS) "CS", DOUGLAS (LONG BEACH) "DL" & DOUGLAS (OKLAHOMA) "DK", LOCKHEED (BURBANK) "L"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.			RADIO	REMARKS & REFERENCE
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA W-WAR MAX.	B-BASIC C-COMBAT W-WEIGHT		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS. PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION	EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE	
P-38F-LO	2	ALLISON V-1710-49 & -53 TURBO CURTISS 11'6" DIA. - 3BL. F.F., ELECTRIC	T 1225/8 L M 1150/27000 C 1000/27000	S 52' 0" L 37'10" H 12'10" T 16' 6" W 328 sq. ft.	B 13000 C 15300 W 20000	1	MAIN - WINGS RES. - WINGS	2 x 90 2 x 60 300 TOT.	1-20MM. 4-.50 (MAX.)	150 500	NOSE-TYPE M1 NOSE-FIXED	NO BOMBS CARRIED	SCR-522	TECHNICAL ORDER 01-75-1. (REV. 30 SEPT. 1944) * LIMITED TO 1150 HP. BECAUSE OF INADEQUATE COOLING.		
P-38F-LO -1 TO -15 INCL.	2	AS ABOVE	AS ABOVE	AS ABOVE	B 13600 C 15900 W 20000	1	MAIN-WINGS RES.-WINGS DROP.-EXTER.	2 x 90 2 x 60 2 x 75 2 x 150 600 TOT.	A S A B O V E		NONE	2-1000 2-500 2-325 2-250 2-100	2000 SCR-522 SCR-515*	REFERENCE AS ABOVE * SPACE ONLY		
P-38G-LO -1 TO -15 INCL.	2	ALLISON V-1710-51 & -55 TURBO CURTISS 11'6" DIA. - 3BL. F.F., ELECTRIC	T 1225/8 L M 1150/27000 C 1100/24000	AS ABOVE	B 13500 C 15800 W 20000	1	AS ABOVE EXCEPT THAT LAST 200 P-38G-10'S ARE SAME AS BELOW	2 x 90 2 x 60 2 x 75 2 x 150 600 TOT.	A S A B O V E		AS ABOVE EXCEPT LAST 200 P-38G-10'S ONLY ARE SAME AS BELOW	SCR-515* SCR-522 SCR-695	REFERENCE AS ABOVE * LIMITED TO 1150 HP. BECAUSE OF INADEQUATE COOLING. * SPACE ONLY			
P-38H-LO -1 & -5	2	ALLISON V-1710-89 & -91 TURBO CURTISS 11'6" DIA. - 3BL. F.F., ELECTRIC	T 1425/8 L M 1425/25000 C 1100/34000	AS ABOVE	B 13700 C 16300 W 20000	1	MAIN-WINGS RES.-WINGS DROP.-EXTER.	2 x 90 2 x 60 2 x 75 2 x 150 900 TOT.	1-20MM. 4-.50 (MAX.)	150 500	NOSE-AN-M2C NOSE - FIXED	2-1600 2-1000 2-500 2-325 2-250 2-100	3200 SCR-515* SCR-522 SCR-695	TECHNICAL ORDER 01-75-1. (REV. 19 FEB. 1945) * LIMITED TO 1210 HP. BECAUSE OF INADEQUATE COOLING. * SPACE ONLY		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT						RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE					
	GROSS WEIGHT LB.	TO CLEAR 50'		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.	
		19	20		21	22			23	24	25	26				27	28	29	30	31	32	33		34	35	36	37	38
P-38F-LO	13500	-	2750	85	-	1150	15900	25000	390	2100	380	11.0	15800	NONE	300	400	1.2	425	1.2	700	2.4	675	2.2	900	4.1			
P-38F-LO -1 TO -15 INCL.	13500	-	2750	85	-	1150	15900	25000	395	2100	380	12.0	19900	NONE	900	1170	3.9	1200	3.8	2070	6.1	1900	7.1	2270	11.2			
P-38G-LO -1 TO -15 INCL.	15000	2150	2980	90	1280	1580	15900	20000	390	2300	367	8.8	18000	NONE	600	800	2.6	850	2.6	1400	5.5	1300	4.5	1750	8.2			
P-38H-LO -1 & -5	15000	2270	3050	91	1360	1620	15900	20000	390	2300	367	8.8	18000	NONE	600	800	2.6	850	2.6	1400	5.5	1300	4.5	1750	8.2			
	17500	3040	3350	97	1830	1800	15900	15000	375	2500	362	5.9	15800	NONE	300	340	1.0	350	1.0	-	-	-	-	570	1.7	760	3.5	
	19900	4000	-	-	2400	-	15900	10000	360	2600	347	3.7	12800	1000	300	330	1.0	320	1.0	-	-	-	-	510	1.7	760	3.5	
							15900	5000	345	2800	333	1.8	17800	2000	300	310	1.0	310	1.0	-	-	-	-	460	1.6	740	3.5	
	13600	-	2750	86	-	1150	16300	25000	402	1700	390	9.7	20300	NONE	900	1180	4.3	1150	3.5	1560	5.9	1950	5.4	2200	10.2			
	15500	2000	3050	94	1200	1650	16300	20000	387	2300	375	7.6	18300	NONE	600	625	2.1	690	2.0	1000	3.7	1000	3.5	1560	7.2			
	17500	2600	3500	100	1600	2000	16300	15000	372	2500	360	5.5	16300	NONE	300	350	1.2	375	1.2	650	2.5	650	2.2	850	4.2			
	19500	3500	-	-	2000	-	16300	10000	360	2600	348	3.5	12800	2000	300	325	1.2	325	1.2	575	2.5	550	2.1	750	3.5			
	20300	4000	-	-	2300	-	16300	5000	345	2800	332	1.8	19500	3200	300	300	1.2	300	1.2	550	2.4	525	2.0	700	3.4			

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



P-38
"LIGHTNING"

MANUFACTURED BY LOCKHEED (Durbank) "LO"

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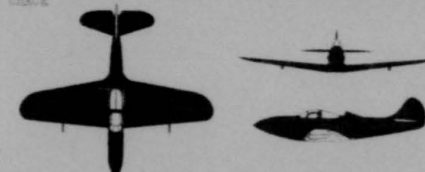
TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																		
MODEL & BLOCK NO.	NUMBER	ENGINE & PROP.		SIZE		WT.	CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS		RADIO	REMARKS & REFERENCE		
		ENGINE MFR.	PROP. MFR.	B.H.P./ALT.	S-SPAN			B-BASIC	TANK	NO. TANKS	NO. GUNS	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE			EXTERNAL NO. & SIZE	MAX. LOAD
		MODEL	TYPE	T-TAKE-OFF	L-LENGTH			C-COMBAT	OR	& CAPACITY	OR CALIBER			OR			OR	LB.
P-39L-BE	-1	1	ALLISON V-1710-65 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. CONST. SPD. HYDR.	T 1325/S L M 1150/12000 C 1000/10800	S 34' 0" L 30' 2" H 11' 10" T 11' 4" W 213 SQ. F	B 6500 C 7900	1	WING TOTALS DROPP.-BELLY 12-120 1x75 or 1x156 or 1x175 295 TOT.	4-.50 1-37MM	*1000 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE M.	NONE	1-500 1-325 1-250 1-100	500	SCR-274N or SCR-522A & SCR-695	TECHNICAL ORDER 01-110FM-1. (REV. 30 OCT. 1944)		
P-39M-BE	-1	1	ALLISON V-1710-65 SINGLE SPEED CURTISS 10'5" DIA. - 3BL. CONST. SPD. HYDR.	T 1200/S L M 1125/15500 C 1000/11000	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110FM-1. (REV. 30 JULY 1943)		
P-39N-BE	-0 TO -5 INCL.	1	ALLISON V-1710-65 (A) SINGLE SPEED AERO PRODUCTS 11'7" DIA. - 3BL. CONST. SPD. HYDR.	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110FM-1. (REV. 25 OCT. 1944) * SCR-695 REPLACES SCR-535A ON P-39N-5 ONLY. ** 1st. 166 P-39M-0 BUILT-IN FUEL 120 GAL; KITS AVAILABLE IN SERVICE TO INCREASE FUEL OF ALL N's TO 120 GAL.		
P-39Q-BE	-1 TO -15 INCL.	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	1	AS ABOVE EXCEPT: BUILT-IN FUEL** P-39Q-1.....87 GAL P-39Q-5.....110 GAL P-39Q-10 & -15..120 GAL	2-.50 1-37MM	300 200 30	WING - FIXED NOSE - FIXED PROP. - TYPE M.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	TECHNICAL ORDER 01-110FM-1. (20 MARCH 1944) ** KITS AVAILABLE IN SERVICE TO INCREASE BUILT-IN FUEL OF P-39Q-1 & -5 TO 120 GAL.		
P-39Q-BE	-20 TO -30 INCL.	1	ALLISON V-1710-65 (A) SINGLE SPEED AERO PRODUCTS CONST. SPD. HYDR.	AS ABOVE	AS ABOVE	AS ABOVE	1	WING TOTALS DROPP.-BELLY 12-120 1x75 or 1x156 or 1x175 295 TOT.	2-.50 1-37MM	200 30	NOSE - FIXED PROP. - TYPE M.	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE * P-39Q-20 HAS 3 BLADED PROPELLER; 11'7" DIA. P-39Q-30 HAS 3 BLADED PROPELLER; 11'0" DIA. P-39Q-21 & -25 HAS 3 BLADED PROPELLER; 11'7" DIA.		

MODEL & BLOCK NO.	TAKE OFF & LANDING						HIGH SPEED & CLIMB						RANGE & ENDURANCE										REMARKS ON PERFORMANCE
	HARD SURFACE - NO WIND						AT NORMAL COMBAT WEIGHT						STATUTE AIR MILES-NO WIND-NO ALLOWANCE FOR RESERVE										
	GROSS WEIGHT	TO CLEAR 50'		GROUND-RUN		LANDING SPEED	STD. ALT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS CARGO	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE				
		T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	RANGE	ENDUR.	
P-39L-BE	7000	-	1950	84	-	1190	25000	985	650	300	11.0	9100	NONE	295	300	1.1	850	2.2	-	-	1075	5.1	
P-39M-BE	7000	-	1950	84	-	1200	25000	977	1200	328	9.7	8100	NONE	195	300	1.1	850	2.2	-	-	750	3.8	
P-39N-BE	7600	-	1950	84	-	1300	20000	968	1775	378	7.1	7900	NONE	120	300	1.1	850	2.2	-	-	550	2.3	
P-39Q-BE	8800	-	1950	84	-	1400	15000	950	2600	420	5.1	8100	NONE	87	300	1.1	850	2.2	-	-	420	2.1	

NOTES:

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

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



P-39
"AIRACOBRA"

MANUFACTURED BY BELL (Buffalo) "BB"

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	PAGE 32 AS OF: 23 FEB. 1945
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA			B-BASIC C-COMBAT A-RECON W-WAR MAX	TANK TYPE OR LOCATION	NO. TANKS & CAPACITY US GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL NO. & SIZE OR STATION		EXTERNAL NO. & SIZE OR CAPACITY	MAX. LOAD LB.	TYPE
P-40E&E-1 -CU	1	ALLISON V-1710-39 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1150/8100 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 A-10000	1	REAR - WING FRONT - WING FUSELAGE PROP. - BELLY 201 TOT.	1 x 52 1 x 35 1 x 62 1 x 52	6-.50 281 (average)	WING - FIXED	NONE	1-500 & 2-100 or 6-20. 1-325 1-250 1-100	700	SCR-283 or SCR-274B	TECHNICAL ORDER 01-250F-1. (REV. 10 SEPT. 1944) * NO EXTERNAL WING BOMBS ON EARLY MODELS. * WITHOUT RAM.		
P-40F-CU -1 TO -20 INCL.	1	FACEARD V-1650-1 SINGLE STG. - 2SPD CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1300/8100 M 1240/11500 C 1080/9500	S 37'4" L 33'4" H 12'4" T 8'2" W 236 sq. ft.	B 7000 C 8500 A-10000	1	REAR - WING FRONT - WING FUSELAGE PROP. - BELLY 150 or 170 327 TOT.	1 x 54 1 x 37 1 x 66 1 x 52, 75	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	SCR-274B or SCR-282A & SCR-295	TECHNICAL ORDER 01-250E-1 (20 SEPT. 1944) REVISED * P-40F-1 LENGTH SAME AS P-40E. ALL SUBSEQUENT MODELS HAVE EXTENDED FUSELAGE.			
P-40K-CU -1 TO -15 INCL.	1	ALLISON V-1710-73 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1305/8100 M 1150/11800 C 1000/11000	AS ABOVE	B 6950 C 8400 A-10000	1	AS ABOVE	AS ABOVE	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 (15 OCT. 1944) REV. * P-40K-1 & -5 LENGTH SAME AS P-40E. ALL SUBSEQUENT MODELS HAVE EXTENDED FUSELAGE. * WITHOUT RAM.			
P-40L-CU -1 TO -20 INCL.	1	FACEARD V-1650-1 SINGLE STG. - 2SPD CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1300/8100 M 1240/11500 C 1080/9500	AS ABOVE	B 7000 C 8500 A-10000	1	REAR - WING FRONT - WING FUSELAGE PROP. - BELLY 150 or 170 321 TOT.	1 x 54 1 x 66 1 x 52, 75 150 or 170	6-.50 201 (average)	WING - FIXED	A S A B O V E	A S A B O V E	AS ABOVE	TECHNICAL ORDER 01-250L-1 (REV. 20 SEPT. 1944) * P-40L-1 FUEL AND ARMAMENT SAME AS P-40F SERIES.			
P-40M-CU -1 TO -10 INCL.	1	ALLISON V-1710-81 SINGLE SPEED CURTISS 11'0" DIA. - 3BL. CONST. SPD. ELECT.	T 1200/8100 M 1125/11700 C 1000/10400	AS ABOVE	B 6950 C 8400 A-10000	1	REAR - WING FRONT - WING FUSELAGE PROP. - BELLY 150 or 170 327 TOT.	1 x 54 1 x 37 1 x 66 1 x 52, 75	6-.50 281 (average)	WING - FIXED	A S A B O V E	A S A B O V E	AS ABOVE	TECHNICAL ORDER 01-250M-1. (REV. 15 OCT. 1944)			

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND				HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT				RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS ON PERFORMANCE						
	TO CLEAR 50'		GROUND-RUN		STD. ALT. FT.	MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT LB.	BOMBS CARGO PASSES 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 TO CLIMB MIN.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.		AT 25000 FT.	RANGE MILES	ENDUR. HOURS			
P-40E&E-1 -CU	7500	-	1550	84	-	950	25000	-	265	520	18.2	-	-	-	-	-	-	-	-	850	4.1				
	8100	2800	1700	87	1500	1050	20000	330	980	300	11.5	9100	NONE	201	425	1.5	-	-	-	675	2.7	-	850	4.1	
	8400	3125	1750	90	1800	1100	15000	362	1150	312	7.6	8700	NONE	149	325	1.1	-	-	-	525	2.0	-	650	3.0	
	8700	3600	-	-	1950	-	10000	345	2170	313	4.8	9200	500	149	300	1.1	-	-	-	450	1.9	-	575	2.8	
	9100	4300	-	-	2300	-	5000	335	2100	296	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	
P-40F-CU -1 TO -20 INCL.	7500	-	1700	81	-	1050	25000	350	1000	-	18.3	10000	NONE	327	-	-	-	-	-	-	-	-	1500	7.2	
	8850	3775	1900	-	2200	1250	20000	364	1100	320	11.6	9350	NONE	232	550	1.8	550	2.1	800	3.1	-	-	1300	4.2	
	9200	4190	2050	-	2450	1300	15000	352	1860	332	7.6	9200	NONE	209	475	1.5	575	1.8	700	2.7	-	-	875	4.0	
	9350	4600	2250	-	2550	1350	10000	340	2210	320	4.5	8850	NONE	157	375	1.2	425	1.6	600	2.0	-	-	700	2.8	
	9550	4700	2700	-	2700	1450	5000	320	2160	300	2.4	9550	700	157	300	1.2	350	1.6	500	2.0	-	-	600	2.9	
	10000	5750	-	-	3100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
P-40K-CU -1 TO -15 INCL.	7500	-	1700	81	-	1050	25000	-	265	350	18.5	10000	NONE	327	-	-	-	-	-	-	-	-	1100	6.3	
	8800	2950	1950	-	1800	1300	20000	350	1100	300	11.2	9300	NONE	232	500	1.7	-	-	-	-	-	-	1000	5.0	
	9150	3150	2000	-	1900	1350	15000	362	1650	312	7.5	9150	NONE	209	400	1.4	-	-	-	900	3.5	-	-	1000	5.0
	9300	3200	2050	-	1950	1400	10000	342	2000	313	4.9	8800	NONE	157	350	1.1	-	-	-	750	3.1	-	-	900	4.3
	9500	3350	2100	-	2050	-	5000	320	2100	296	2.4	9500	700	157	300	1.1	-	-	-	600	2.2	-	-	700	3.1
	10000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
P-40L-CU -1 TO -20 INCL.												10000	NONE	327	-	-	-	-	-	-	-	-	1500	7.2	
												9750	NONE	291	-	-	-	-	-	-	-	-	1300	5.6	
												9100	NONE	195	450	1.4	425	1.6	600	2.5	-	-	800	3.7	
												8600	NONE	120	275	0.8	300	1.2	425	1.6	-	-	500	2.0	
												9100	700	120	300	1.1	-	-	-	350	1.4	-	-	500	2.0
P-40M-CU -1 TO -10 INCL.	7500	-	1700	81	-	1050	25000	353	850	330	11.7	10000	NONE	327	650	2.3	-	-	1200	5.0	-	-	1150	7.6	
	8400	2350	1850	85	1400	1200	20000	360	1500	335	10.2	9300	NONE	232	450	1.6	750	2.6	900	3.8	-	-	1000	5.0	
	8800	2650	1950	-	1600	1300	15000	361	2025	338	7.2	8800	NONE	195	325	1.0	475	1.6	600	2.3	-	-	700	3.3	
	9300	3150	2000	-	1900	1350	10000	346	2180	320	4.5	9300	700	157	300	1.0	375	1.6	475	2.1	-	-	575	3.1	
	10000	4000	-	-	2500	-	5000	328	2070	308	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTES:

RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISION AFTER FLIGHT CHECK

MILITARY POWER AVAILABLE FOR 5 MINUTES ONLY.

MILITARY POWER AVAILABLE FOR 15 MINUTES.



P-40
"WARHAWK"

MANUFACTURED BY CURTISS (Buffalo) "CU"

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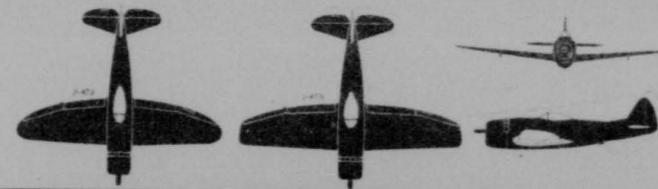
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	ENGINE MFR.	B.H.P./ALT.	S-SPAN	B-BASIC			TANK	NO. TANKS	NO GUNS	RDS.	LOCATION	INTERNAL	EXTERNAL			
	MODEL	T-TAKE-OFF	L-LENGTH	C-COMBAT	TYPE	& CAPACITY	PER	PER GUN	& TYPE	NO & SIZE	NO & SIZE	MAX. LOAD	TYPE			
P-47D-RE -27	PRATT-WHITEY R-2500-59 TURBO HAMILTON STD. 13" DIA. - 4 BL. CONST. SPD. ELECT.	2000/5 L 2000/33000 2535/27000 1625/20000	5 40'9"	B 10700	1	1	MAIN - FUS. AUX. - FUS. DROPP. BELLY EXT. - WINGS & BELLY	1x 270 1x 100 1x 75 or 1x 110 2x 250 & 1x 110	6) or .50 5)	267 NOB. 425 MAX.	WING-FIXED	NONE	2-1000 or 3- 500 or 3- 250 or 3- 100	2500	SCR-271N or SCR-522A & SCR-695 & AN/APR-13	TECHNICAL ORDER 01-6580-1a (REV. 5 MARCH 1945) * WAR EMERGENCY RATINGS. * TREATY MODIFICATION.
P-47D-RE -28&-30 P-47D-RA -28&-35	PRATT-WHITEY R-2500-59 TURBO CURTISS 13" DIA. - 4 BL. CONST. SPD. ELECT.	AS ABOVE	AS ABOVE	B 10600 C 11500	1	1	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	AS ABOVE	REFERENCE AS ABOVE.
P-47M-1-RE	PRATT-WHITEY R-2500-57 TURBO CURTISS 13" DIA. - 4 BL. CONST. SPD. ELECT.	2130/5 L 2130/30750 2000/25500 1700/22000	S 40'9"	B 11100 C 12700	1	1	MAIN - FUS. AUX. - FUS. DROPP. BELLY	1 x 270 1 x 100 1 x 110								* WAR EMERGENCY RATINGS.
P-47N-RE -1,-5	AS ABOVE	AS ABOVE	S 42'7"	B 11800 C 12700	1	1	MAIN - FUS. AUX. - FUS. DROPP. BELLY EXT. - WINGS & BELLY	1 x 270 1 x 100 1 x 110 2 x 250 & 1 x 110	6) or .50 8)	267 NOB. 500 MAX.	WING - FIXED	NONE	2-1000 or 3- 500 or 3- 250 or 3- 100	2500	SCR-502A SCR-695 AN/APR-13 *AN/APR-8	TECHNICAL ORDER 01-6580-1. (15 JAN. 1945) (P) P-47N-5-RE & SUBSEQUENT MODELS HAVE FOLLOWING ZERO LENGTH RAIL ROCKET INSTALLATIONS ADDED: (6) WITH BOMBS or DROPP. FUEL TANKS, or (10) WITHOUT BOMBS or DROPP. FUEL TANKS. * TREATY MODIFICATION.

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT										RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS
	TO CLEAR 50'		LANDING SPEED	GROUND-RUN		STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS CARGO PASS.	TOTAL FUEL	MAX. CONTINUOUS POWER				MAX. CRUISE POWER				LONG RANGE			
	T.O. DIST.	LAND. DIST.		T.O. DIST.	LAND. DIST.		HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				TIME TO CLIMB	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	
	LB.	FT.	FT.	MPH	FT.	FT.	MPH	FT/MIN	MPH	FT/MIN	MPH	FT/MIN	MIN.	LB.	LB.	U.S. GAL.	MILES	HOURS	MILES	HOURS	MILES	HOURS	MILES	HOURS			
P-47D-RE -27	12000	2500	110	1200	30000	433	1575	433	1575	433	1575	11.0	17500	NONE	780										NO RANGE WITH BOMB LOAD AVAILABLE. PERFORMANCE SHOWN WITHOUT EXTERNAL BAGS		
P-47D-RE -28&-30 P-47D-RA -28&-35	13500	2500	110	1200	25000	436	2270	436	2270	436	2270	11.0	16700	NONE	670										AS ABOVE		
P-47M-1-RE	15000	2500	110	1200	30000	426	1475	426	1475	426	1475	11.0	17400	NONE	780										AS ABOVE		
P-47N-RE -1,-5	16500	2500	110	1200	25000	428	2230	428	2230	428	2230	11.0	16600	NONE	670										REFER TO PAGE 108 FOR COMBAT RADIUS		

NOTES:



P-47
THUNDERBOLT

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

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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.	COMBAT CREW	FUEL		ARMAMENT			BOMBS - EXTERNAL - PASS		RADIO	REMARKS & REFERENCE		
	NUMBER	ENGINE MFG. MODEL SUPERCHARGER PROP. MFG. TYPE	B.H.P./ALT. T-TAKE-OFF M-MILITARY C-CONTINUOUS	S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT 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	
																	MAX. CONTINUOUS POWER
P-51D-WA -5 to -20 P-51D-WT -5 & -20	1	PACARD V-1650-7 2 SPD. - 2 STAGE HAMILTON STD. 11'1" DIA. - I.B.L. CONST. SPD. HYDRO.	T 1250/10300 we 1390/21000 M 1550/15000 C 1150/17000 1 580/23000	S 37' 0" L 32' 3" H 13' 8" T 11' 10" W 233 sq. ft.	B 7635 C 10100	1	MAIN-R. WING MAIN-L. WING FUSELAGE DROPP. WINGS	1 x 92 1 x 92 1 x 85 2 x 75	2) 2) 2) 2)	.50 .50 .50 .50	270 270 400 400	OUTED. - WINGS CENTER - WINGS INBD. - WINGS OUTED. - WINGS INBD. - WINGS	NONE	2-1000 2-500 2-325 2-250 2-100	SCR-506 SCR-522A AN/APG-13 & BC-1206 or 138 DETRO	TECHNICAL ORDER 01-607E-1. (REV. 20 DEC. 1944) (7) ZERO LENGTH RAIL ROCKET'S INSTALLED ON LAST 1100 P-51D-WA & SUBSEQUENT; EFFECTIVE POINT NOT YET ESTABLISHED ON P-51D-WT MODELS. (6) ROCKETS WITH BOMBS or EXTERNAL DROPP. TANKS or (10) ROCKETS WITHOUT BOMBS or EXTERNAL DROPP. TANKS.	
P-51K-WT -1 to -15							P-51K-WT SAME AS ABOVE EXCEPT FOR 12'0" DIA. AEROPRODUCTS PROPELLER. (NO ROCKETS INSTALLED ON THESE MODELS)										* TREATY MODIFICATION.
P-51H-WT	1	PACARD V-1650-9 2 SPD. - 2 STAGE AEROPRODUCTS 11'1" DIA. - I.B.L. CONST. SPD. HYDRO.	T 1250/10300 we 1390/21000 M 1550/15000 C 1150/17000 1 580/23000	S 37' 0" L 35' 4" H 11' 1" T 11' 10" W 235 sq. ft.	B 7040 C 9500	1	MAIN-R. WING MAIN-L. WING FUSELAGE DROPP. WINGS	1 x 105 1 x 100 1 x 50 2 x 75	2) 2) 2) 2)	.50 .50 .50 .50	270 270 400 405 INT.	OUTED. - WINGS CENTER - WINGS INBD. - WINGS OUTED. - WINGS INBD. - WINGS	SAME AS P-51D-WT PLUS FOLLOWING ZERO RAIL ROCKET INSTALL: (6) WITH BOMBS or DROPP. TANKS, or (10) WITHOUT BOMBS or DROPP. TANKS	AN/APG-3 SCR-595A BC-1206 AN/ARA-8 AN/APG-13	TECHNICAL ORDER 01-607F-1. (15 FEB. 1945) *WAR EMERGENCY RATINGS ARE WITH WATER INJECTION AND AN-P-53 FUEL. (MANIFOLD PRESSURE 90" HG.)		

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND					HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT										RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS				
	TO CLEAR 50'		GROUND-RUN			WEIGHT	STD. ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE									
	T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.	LANDING SPEED			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.	RANGE	ENDUR.						
P-51D (V-1650-7)	8000	-	2000	100	-	1000	30000	437	1950	426	1950	426	1950	426	1950	11600	NONE	489	1500	4.6	1650	4.6	-	-	-	-	2080	8.5	HIGH SPEED & CLIMB SHOWN WITHOUT RACKS; RACKS or ROCKET RANG- ERS INCREASE HIGH SPD. to 6 MPH. (WAR EMERG.)	
	9000	-	2200	100	-	1200	25000	437	1950	426	1950	426	1950	426	1950	11100	NONE	419	1270	3.9	1110	3.9	-	-	-	-	1830	7.7		
	9800	-	2300	111	-	1290	20000	426	1875	412	1875	412	1875	412	1875	10100	NONE	369	870	2.4	950	2.4	-	-	-	1050	2.8	5.0		
	10300	-	2500	-	-	1300	15000	433	1775	413	1700	377	1700	377	1700	11100	NONE	269	790	2.4	870	2.4	-	-	-	1150	4.8			
	10300	-	2900	-	-	2050	10000	426	1875	413	1875	413	1875	413	1875	11100	1000	269	790	2.4	870	2.4	-	-	-	900	2.8	1070	4.3	
	11800	-	3200	-	-	2950	5000	395	1475	381	1300	340	1300	340	1300	12100	2000	269	775	2.4	840	2.5	-	-	-	900	2.8	1070	4.3	
P-51K-WT -1 to -15																														
P-51H-WT							30000	430	1950	426	1950	426	1950	426	1950	10500	NONE	405	1330	3.8	1160	3.8	-	-	-	-	1350	6.3	HIGH SPEED & CLIMB SHOWN WITHOUT RACKS; RACKS or ROCKET RANG- ERS INCREASE HIGH SPD. to 6 MPH. (WAR EMERG.) SPEED WITH 90" HG.	
							25000	427	1900	423	1900	423	1900	423	1900	9500	NONE	355	1270	3.1	1120	3.1	-	-	-	-	1075	5.5		
							20000	426	1875	412	1875	412	1875	412	1875	10500	1000	255	875	2.1	850	2.1	-	-	-	-	890	3.7		
							15000	425	1800	419	1800	419	1800	419	1800	11500	2000	255	-	-	-	-	-	-	-	-	-	-	-	
							10000	425	1680	400	1600	357	1600	357	1600	11500	2000	255	-	-	-	-	-	-	-	-	-	-	-	
							5000	424	1550	380	1400	327	1400	327	1400	11500	2000	255	-	-	-	-	-	-	-	-	-	-	-	

NOTES:

FOR FIGURES AND PERFORMANCE, REFER TO REVISIONS AFTER PRESENT CODE.

* MILITARY POWER AVAILABLE FOR 15 MINUTES.

**P-51
"MUSTANG"**

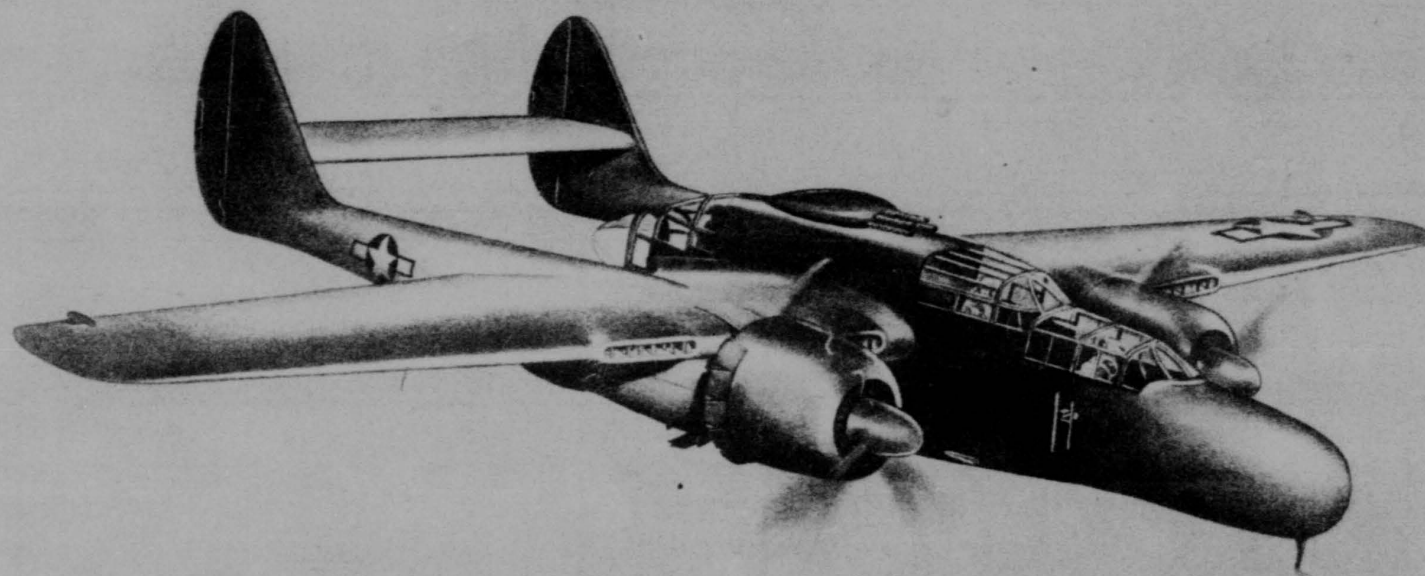
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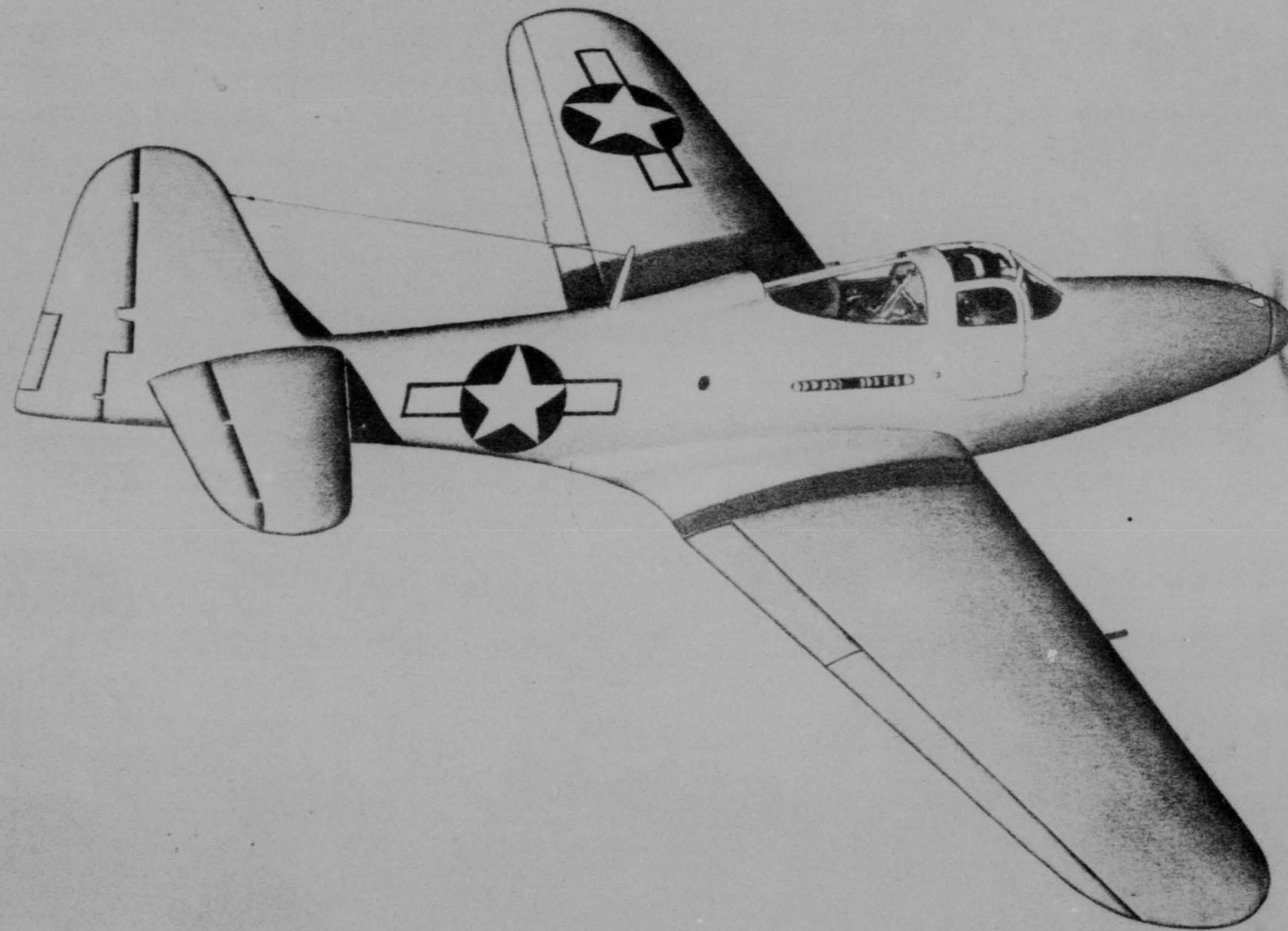
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AS OF:
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TACTICAL PLANNING CHARACTERISTICS & PERFORMANCE CHART																	
MODEL & BLOCK NO.	ENGINE & PROP.		SIZE		WT.		COMBAT CREW	FUEL		ARMAMENT			BOMBS-CARGO-PASS.		RADIO	REMARKS & REFERENCE	
	NUMBER	ENGINE MFR. MODEL SUPERCHARGER PROP. MFR. TYPE	B.H.P./ALT.		S-SPAN L-LENGTH H-HEIGHT T-TREAD W-WING AREA	B-BASIC C-COMBAT REC-REC W-WAR MAX.		TANK TYPE OR LOCATION	NO. TANKS & CAPACITY U.S. GAL.	NO. GUNS & CALIBER	RDS PER GUN	LOCATION & TYPE	INTERNAL	EXTERNAL	MAX. LOAD LB.		TYPE
			T-TAKE-OFF M-MILITARY C-CONTINUOUS	T-TAKE-OFF M-MILITARY C-CONTINUOUS									NO. & SIZE OR STATION	NO. & SIZE OR CAPACITY			
P-63A-BE -1 TO -7 INCL.	1	ALLISON V-1710-93 2 STAGE AEROPRODUCTS 11'7" DIA. - LBL. CONST. SPD., HYDRO.	T 1325/S L M 1150/21200 W 1500/S L C 1000/20000	S 36'4" L 32'8" H 12'3" T 14'7" W 218 SQ. FT.	B 6925 C 8350 8900	1	MAIN - WINGS DROPP. - BELLY DROPP. - WINGS (See f)	2 x 65 1 x 75 2 x 75 451 TOT.	1-37mm 2-50 2-50	30 250 200	PROP. - TYPE M1 WING - FIXED NOSE - FIXED	NONE	1-500 f 1-325 f 1-250 f 1-100 f	500 1500 f	SCR-274 & BC-198 or SCR-522 & LITROLA 438 & SCR-605	TECHNICAL ORDER 01-110FP-1. (10 FEB. 1945) EXTERNAL WING TANKS or BOMBS ADDED TO P-63A-6 & SUBSEQ. WAR EMERGENCY RATING.	
P-63A-BE -8, -9, -10	1	ALLISON V-1710-93 2 STAGE AEROPRODUCTS 11'7" DIA. - LBL. CONST. SPD., HYDRO.	AS ABOVE	AS ABOVE	AS ABOVE	1	MAIN - WINGS DROPP. - BELLY DROPP. - WINGS (See f)	2 x 65 1 x 75 or 1 x 75 & 2 x 75 451 TOT.	1-37mm 2-50 2-50	58* (30) 250 200	PROP. - TYPE M1 PROP. - TYPE M1 WING - FIXED NOSE - FIXED	NONE	3-500 3-325 3-250 3-100	1500	AS ABOVE	REFERENCE AS ABOVE TYPE M10 COMMON ON P-63A-9 & SUBSEQUENT MODELS. PROVISIONS FOR 1 GAL. SELF SEALING BELLY TANK.	
P-63C-BE -1	1	ALLISON V-1710-117 2 STAGE AEROPRODUCTS 11'0" DIA. - LBL. CONST. SPD., HYDRO.	T 1325/S L M 1150/21200 W 1500/S L C 1000/20000	S 36'4" L 32'8" H 12'3" T 14'7" W 218 SQ. FT.	B 7125 C 8600	1	MAIN - WINGS DROPP. - BELLY DROPP. - WINGS SEE (f)	2 x 65 1 x 75 or 1 x 75 & 2 x 75 353 TOT.	1-37mm 2-50 2-50	58 250 250	PROP. - TYPE M1 WING - FIXED NOSE - FIXED	A S	A B C V E	AS ABOVE PLUS AN/APG-13	AS ABOVE	TECHNICAL ORDER 01-110P-1. (BEING PRINTED) (f) PROVISIONS FOR 1 GAL. SELF SEALING BELLY TANK. (w) WAR EMERGENCY RATING: *1500 HP. AT S.L. WITHOUT WATER INJECTION; 1000 HP. AT S.L. WITH WATER INJECT.	

MODEL & BLOCK NO.	TAKE OFF & LANDING HARD SURFACE - NO WIND						HIGH SPEED & CLIMB AT NORMAL COMBAT WEIGHT										RANGE & ENDURANCE STATUTE AIR MILES - NO WIND - NO ALLOWANCE FOR RESERVE										REMARKS
	TO CLEAR 50'		GROUND-RUN		WEIGHT	STD ALT.	WAR EMERG.		MIL. POWER		MAX. CONTIN. POWER		TAKE OFF WEIGHT	BOMBS	TOTAL FUEL	MAX. CONTINUOUS POWER		MAX. CRUISE POWER		LONG RANGE							
	T.O. DIST.	LAND. DIST.	T.O. DIST.	LAND. DIST.			HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB	HIGH SPEED	RATE OF CLIMB				HIGH SPEED	RATE OF CLIMB	TIME TO CLIMB	MIN.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.	AT 10000 FT.	AT 25000 FT.		
P-63A-BE -1 TO -7 INCL.	7700	1700	1800	-	1070	1110	30000	350	1000	300	1000	300	1000	10.1	10500	NONE	451	-	-	-	-	-	-	1050	1.1	PERFORMANCE SHOWN WITHOUT EXTERNAL TANKS.	
P-63A-BE -8, -9, -10	8300	2100	-	-	1320	-	25000	401	1380	401	1380	401	1380	7.6	9500	NONE	301	380	2.9	-	-	-	-	-	1800	7.7	
P-63C-BE -1	8700	2520	-	-	1520	-	20000	398	1350	398	1350	370	10.2	8850	NONE	201	375	1.9	-	-	-	-	-	-	1150	5.8	
	9500	2900	-	-	1650	-	15000	373	1415	373	1415	330	10.2	8350	NONE	126	350	1.1	-	-	-	-	-	-	750	3.8	
	10500	3600	-	-	3180	-	10000	373	1415	373	1415	315	10.2	8850	500	126	350	1.1	-	-	-	-	-	-	650	2.8	

NOTES:

SEE FIGURES AND PUBLICATIONS SUBJECT TO REVISION AFTER FLIGHT CHECK
* MILITARY POWER AVAILABLE FOR 15 MINUTES.



P-63
"KINGCOBRA"

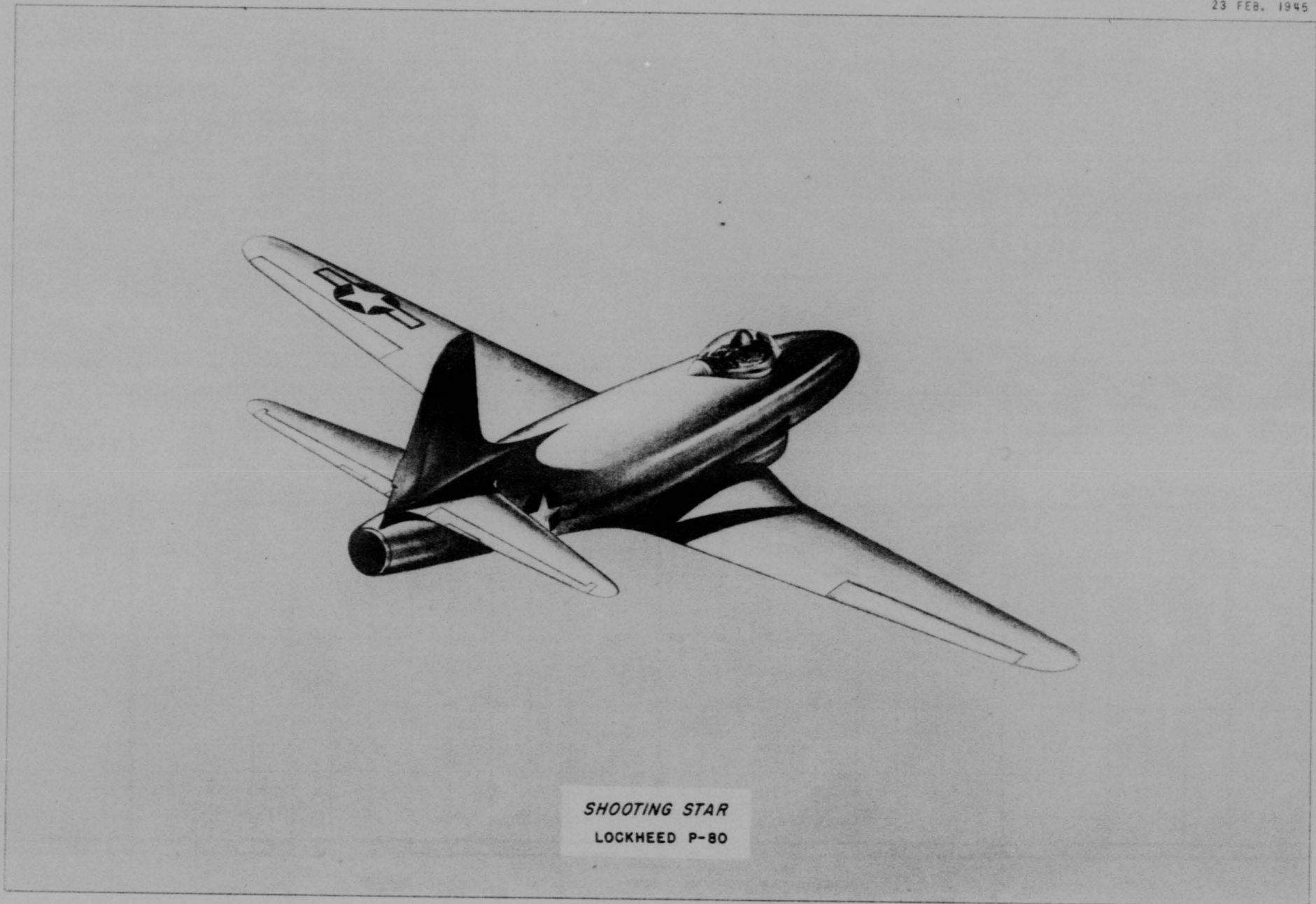
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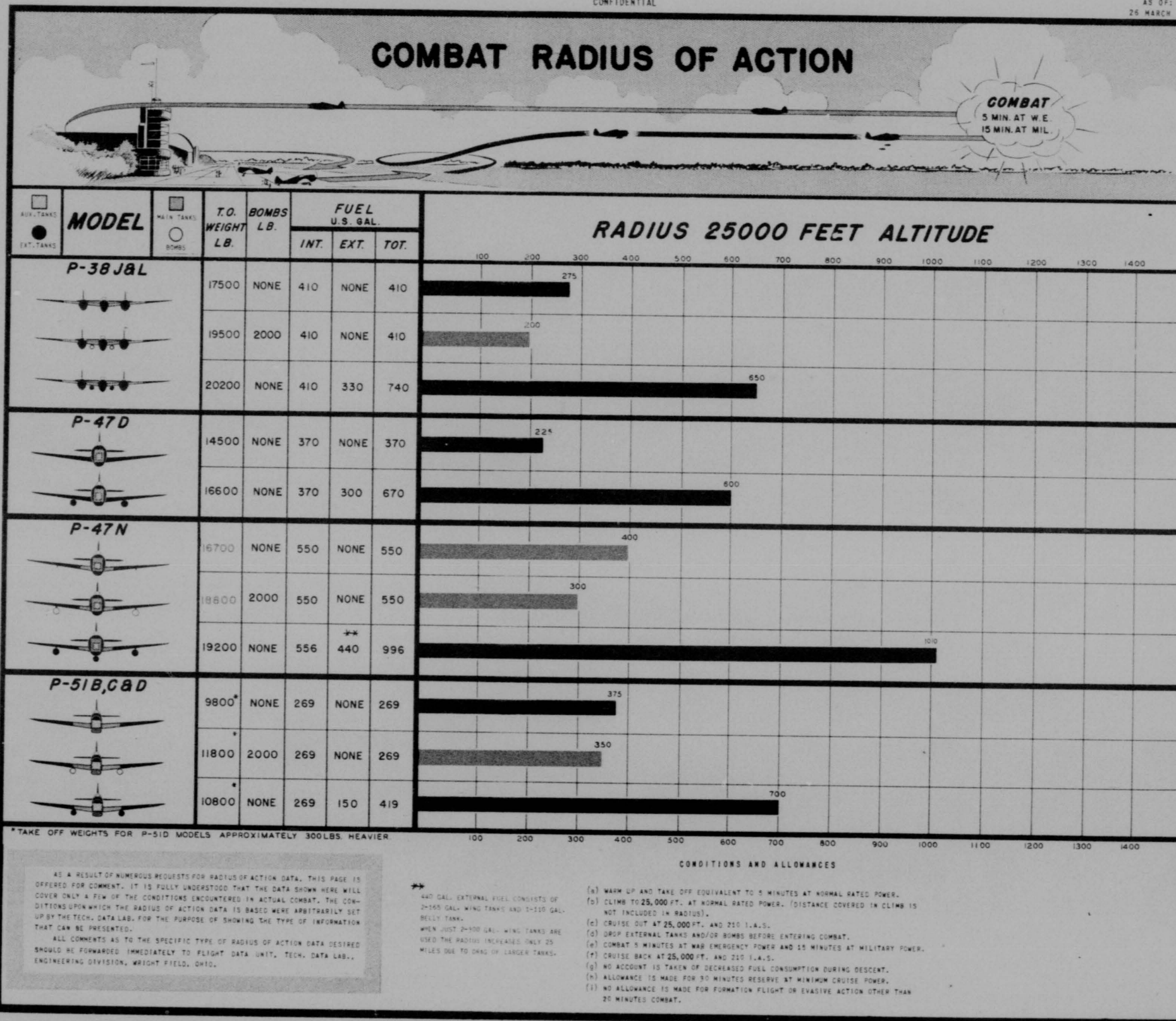
SHOOTING STAR
LOCKHEED P-80

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**GLIDER AND
TOWPLANE SECTION**

APRIL-1945

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PAGE 44
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25 JAN. 1945

FOREWORD

WARNING

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

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

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

RANGE and ENDURANCE are based on the following assumptions:

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

DEFINITIONS

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

RED PRINT: Preliminary estimates or calculated data.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

PAGE 46
AS OF:
23 FEB. 1945

CARGO TOWPLANE AND CG-4A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) S.L.-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS	
	GLIDERS		TOWPLANE				MAX. TOW SPEED (M.P.H.)	TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S.	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN.)	SERVICE CEILING (FT.)	TIME TO SERVISE CEIL. (MIN.)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM. CRUISING ALTITUDE (FT.)	MAX RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)	RADIUS									TIME OUT (HRS.)	TIME BACK (HRS.)	RANGE (MI.)		ENDUR. (HRS.)		
C-46A & (1)CG-4A	7500	3800	41000	NONE	1400	150	3400	85	2650	120	640	12000*	22	770	5.2	4.7	5000	1255	8.5	* LIMITED - NO OXYGEN IN GLIDER.	
	7500	3800	46000	5000	1400	150	4450	90	3350	120	490	12000*	30	715	5.3	4.3	5000	1115	8.2		
C-46A & (2)CG-4A	7500	3800	41000	NONE	1400	150	4700	85	3500	120	330	12000*	50	605	4.5	3.7	5000	850	6.3	* LIMITED- NO OXYGEN IN GLIDER. NOTE: THE 45000 LB. LOADING WITH (2) GLIDERS IS FOR EMERGENCY RELEASE ONLY.	
	7500	3800	46000	5000	1400	150	6700	90	4750	120	240	8700	43	555	4.1	3.4	5000	755	5.7		
C-47,47A & 53 (PADDLE BLADE PROPS) & (1)CG-4A	7500	3800	26000	3000	804	150	4600	80	3000	105	515	12000*	31	575	4.8	3.6	5000	955	7.9	* LIMITED- NO OXYGEN IN GLIDER.	
	7500	3800	29000	6000	804	150	5350	85	3200	105	410	11500	37	545	4.6	3.4	5000	870	7.3		
	7500	3800	31000	8000	804	150	5900	85	3400	105	350	10400	39	520	4.4	3.1	5000	820	6.9		
C-47, 47A & 53 (PADDLE BLADE PROPS) (1) CG-4A (TOWPLANE EQUIPPED WITH PARA-PACK RACES)	7500	3800	26000	3000	804	150	4750	80	3100	105	465	11800	35	525	4.4	3.6	5000	870	7.3		
	7500	3800	29000	6000	804	150	6000	80	3350	105	370	10600	38	485	4.1	3.4	5000	830	6.9		
C-47,47A & 53 (PADDLE BLADE PROPS) & (2)CG-4A	7500	3800	24200 ¹	1200	804	150	6250	80	3550	105	220	7800	46	450	4.0	2.8	2000	665	5.8	* LOADINGS SHOWN ARE FOR EMERGENCY RELEASE ONLY.	
	7500	3800	26000 ¹	3000	804	150	6900	80	3800	105	180	7300	50	435	3.8	2.7	2000	630	5.5		
C-60A & (1)CG-4A	7500	3800	18500	NONE	644	150	4000	85	2750	120	550	12000*	37	580	4.3	3.6	5000	840	6.9	* LIMITED - NO OXYGEN IN GLIDER.	
	7500	3800	21500	3000	644	150	5550	85	3675	120	320	11500	48	410	3.1	2.5	5000	560	4.2		
C-60A & (2)CG-4A	4700 ¹	1000	18500	NONE	644	150	6200	85	4100	120	250	8000	40	360	2.7	2.2	5000	540	4.5	* LOADINGS SHOWN ARE FOR EMERGENCY RELEASE ONLY.	
	7500 ¹	3800	18500	NONE	644	150	7000	85	4500	120	200	7300	41	330	2.5	2.0	5000	475	3.6		

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-113 dated 20 DEC. 1944. RED FIGURES ARE PRELIMINARY; SUBJECT TO REVISIONS AFTER FLIGHT CHECK.
- (2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

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

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B-BASIC		S-SPAN
C-COMBAT		L-LENGTH
W-WAR MAX	H-HEIGHT	
	T-TREAD	
	W-WING AREA	
	TYPICAL GLIDER CAPACITIES	
B- (3700 to 4500)	(a) TROOP CARRIER: CREW(2) & TROOPS(13).	S- 83'8"
C- 7500	(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).	L- 53'4"
W- 9000	(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(18 RIF.)	H- 12'7"
		T- 9'4"
		W- (Tact. gear) 852 SQ. FT.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART																					
FIGHTER TOWPLANE AND CG-4A GLIDER																					
TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) SL-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS	
	GLIDERS			TOWPLANE			MAX. TOW SPEED (M.P.H.)	TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED I.A.S. (FT.)	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT/MIN)	SERVICE CEILING (FT.)	TIME TO SERVICE CEIL. (MIN)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM. CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)	RADIUS (MI.)									TIME OUT (HRS.)	TIME BACK (HRS.)	RANGE (MI.)		ENDUR. (HRS.)		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		20
P-38G & (1) CG-4A	7500	3800	15500	NONE	300	150	4000	100	3250	120	1000	12000*	15	270	1.9	1.4	5000	400	2.9	LIMITED- NO OXYGEN IN GLIDER: SERVICE CEILING OF 20000 FT. CAN BE REACHED IN 40 MINUTES IF OXYGEN IS INSTALLED IN GLIDER. NOTE: LOADINGS SHOWN ARE FOR PROVISIONAL RELEASE ONLY.	

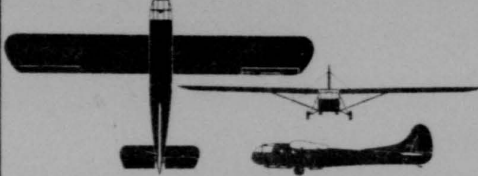
NOTES:

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

MINIMUM OF 200 LB. BALLAST IS REQUIRED IN NOSE OF P-38G WHEN NO AMMUNITION IS CARRIED.

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

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B-BASIC		S-SPAN
C-COMBAT		L-LENGTH
W-WAR MAX.	H-HEIGHT	T-TREAD
		W-WING AREA
TYPICAL GLIDER CAPACITIES		
B- (3700 (1500)	(a) TROOP CARRIER: CREW(2) & TROOPS(13).	S- 43'8"
C- 7500	(b) CARGO CARRIER: CREW(2) & TROOPS(4) & JEEP CAR(1).	L- 48'4"
W- 9000	(c) CARGO CARRIER: CREW(2) & TROOPS(3) & 75MM. HOWITZER(1) & 75MM. AMMUNITION(16 RES.)	H- 12'7"
		T- 9'4"
		W (fast gear) 852 sq. ft.

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

PAGE 48
AS OF:
23 FEB. 1946

CARGO TOWPLANE AND CG-13A GLIDER

TOWPLANE & GLIDER COMBINATION	LOADING						TAKE OFF (WITH GLIDER ATTACHED) S.L.-HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS
	GLIDERS			TOWPLANE			TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED (I.A.S.)	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT/MIN)	SERVICE CEILING (FT.)	TIME TO SERVCE CEIL. (MIN)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS. (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL)	MAX. TOW SPEED (M.P.H.)								RADIUS (MI.)	TIME OUT (HRS)	TIME BACK (HRS)		RANGE (MI.)	ENDUR. (HRS.)	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
C-47, 47A & 53 PADDLE BLADE PROPS & (1) CG-13A	18000	1300	24200	1200	80 1/2	195	1550	85	3050	105	160	12000*	36	555	4.8	3.6	2000	855	7.1	* LIMITED - NO OXYGEN IN GLIDER. # LOADING OF 17700 LB. IS FOR EMERGENCY RELEASE ONLY.
	15700	7800	24200	1200	80 1/2	195	5650	90	3550	105	300	9500	41	485	4.2	3.2	2000	725	6.3	
	17700#	9000	24200	1200	80 1/2	195	6300	90	3800	105	215	8500	45	460	4.0	3.0	2000	675	5.9	
C-60A & (1) CG-13A	9500	800	18000	NONE	64 1/2	-	5050	85	3350	120	400	12000*	39	420	3.1	2.6	5000	590	4.4	* LIMITED - NO OXYGEN IN GLIDER.
C-46A & (1) CG-13A	10000	1300	41000	NONE	1400	195	4400	85	3200	120	465	12000*	29	700	5.2	4.2	5000	1095	8.1	* LIMITED - NO OXYGEN IN GLIDER.
	18900	10200	41000	NONE	1400	195	5150	90	3700	120	320	12000*	45	610	4.6	3.7	5000	895	6.7	

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-113 dated 20 DEC. 44.
 (2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.
 ATTENTION: WEIGHT OF GLIDER MAY BE LIMITED BY TOWPLANE PERFORMANCE; SEE T.O. 01-1-113 DEC. 1944, FOR ALLOWABLE GLIDER WEIGHT WITH CORRESPONDING TOWPLANE.

(A) TYPICAL GLIDER CONDITIONS

- (a) JEeps (2) & TROOPS (8) & CREW (2)
 (b) JEOP (1) & TROOPS (8) & CREW (2) & 75mm. HOWITZER (1) & AMMUNITION (156 EDS.)
 (c) TROOPS (8) & CREW (2) & 75mm. HOWITZER (2) & AMMUNITION (165 EDS.)
 (d) TROOPS (8) & CREW (2) & STD. 105mm. HOWITZER (1) (M-2) & AMMUNITION (63 EDS.)
 (e) TROOPS (10) & CREW (2) & AERIAL DELIVERY COMPATIBLES (4)
 (f) WEAPONS CARRIER, 6x6, 1 1/2 TON (1) & CREW (2)
 (g) JEOP (1) & TROOPS (6) & CREW (2) & 105mm. HOWITZER (1) & AMMUNITION (27 EDS.)

GLIDER CHARACTERISTICS

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

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TOWPLANE & GLIDER TACTICAL PLANNING PERFORMANCE CHART

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AS OF:
23 FEB. 1945

CARGO TOWPLANE AND CG-15A GLIDER


TOWPLANE & GLIDER COMBINATION	LOADING					TAKE OFF (WITH GLIDER ATTACHED) S.L. HARD SURFACE-NO WIND			CLIMB (AT MINIMUM TOW SPEED)				RANGE & ENDURANCE MAXIMUM STATUTE AIR MILES-NO WIND-NO RESERVE						REMARKS	
	GLIDERS		TOWPLANE			MAX. TOW SPEED (M.P.H.)	TO CLEAR 50' OBJ. DISTANCE (FT.)	TAKE OFF SPEED (I.A.S.)	GROUND RUN DISTANCE (FT.)	I.A.S. FOR CLIMB (M.P.H.)	INITIAL RATE OF CLIMB (FT./MIN.)	SERVICE CEILING (FT.)	TIME TO SERVICE CEIL. (MIN.)	RADIUS OF ACTION (GLIDER RELEASED AT RADIUS)			RECOMM. CRUISING ALTITUDE (FT.)	MAX. RANGE (WITH GLIDER)		
	TAKE-OFF WEIGHT (LB.)	CARGO OR PASS (LB.)	TAKE-OFF WEIGHT (LB.)	BOMBS CARGO OR PASS. (LB.)	FUEL (U.S. GAL.)									RADIUS	TIME OUT (HRS.)	TIME BACK (HRS.)		RANGE		ENDUR.
	(LB.)	(LB.)	(LB.)	(LB.)	(U.S. GAL.)	(M.P.H.)	(FT.)	(I.A.S.)	(FT.)	(M.P.H.)	(FT./MIN.)	(FT.)	(MIN.)	(MI.)	(HRS.)	(HRS.)	(FT.)	(MI.)		(HRS.)
C-47 47A & 53 PADDLE BLADE PROPS & (1) CG-15A	8000	3950	26000	3000	80 1/2	150	4900	80	3150	105	185	*12000	37	555	4.4	3.8	5000	850	6.8	* LIMITED - NO OXYGEN IN GLIDER.
	8000	3950	29000	6000	80 1/2	150	5600	85	3700	105	365	10500	45	520	4.2	3.5	5000	775	6.2	
	8000	3950	31000	8000	80 1/2	150	6200	85	4050	105	320	9500	45	490	3.9	3.3	5000	720	5.7	
C-46A & (1) CG-15A	8000	3950	41000	NONE	1100	150	3850	85	2850	120	620	12000*	25	755	5.3	4.6	5000	1215	8.4	* LIMITED - NO OXYGEN IN GLIDER.
	8000	3950	46000	5000	1100	150	5050	90	3650	120	480	12000*	30	715	5.3	4.3	5000	1115	8.3	

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

NOTES:

- (1) REFERENCE MATERIAL FROM TECHNICAL ORDER 01-1-113, DATED 20 DEC. 1944.
- (2) ALL PERFORMANCE SHOWN WITH GLIDER TRAINING GEAR ATTACHED.

GLIDER CHARACTERISTICS

WEIGHT		SIZE
B - BASIC		S - SPAN
C - COMBAT		L - LENGTH
W - WAR MAX		H - HEIGHT
		T - TREAD
		W - WING AREA
TYPICAL GLIDER CAPACITIES		
B - 1450	(a) TROOP CARRIER: CREW (2) & TROOPS (13).	S - 62'3"
C - 8000	(b) CARGO CARRIER: CREW (2) & TROOPS (4) & JEEP CAR (1).	L - 48'9"
W - 9000	(c) CARGO CARRIER: CREW (2) & TROOPS (3) & 75MM. HOWITZER (1) & 75MM. AMMUNITION (18 RUS.)	H - 12'7"
		T - -
		W - 556 SQ. FT.

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