CONSOLIDATED B-24 LIBERATOR

B-24 SERVICE

Manufacturer: The Consolidated Aircraft Corp., San Diego, California, USA

(In 1941, became The Consolidated-Vultee Aircraft Corp.)

(In 1943, named changed to Convair Aircraft Corp.)

Models: 32, 39, 40, 100, 101, 104

Designations: B-24; AT-22, B-41, BQ-8, C-87, C-109, F-7, PB4Y, P4Y

P-4B, RY, R2Y

Names: Liberator; Liberator Express (C-87, RY-1/2/3),

Liberator Liner (R2Y-1), Privateer (PB4Y-2)

First official flight: XB-24 29 Dec 1939 Factory production period: 1939 – 1945 Primary service period: 1940 – 1945 Last official flight: QP-4B 18 Jan 1964

B-24 VARIANTS

1939	Model 32	XB-24	1	
1941	Model 32	LB-30A Liberator Mk. I	6	
1941	Model 32	LB-30B Liberator Mk. I	20	
1941	Model 32	YB-24	1	
1941	Model 32	B-24A	9	
1941	Model 32	Liberator Mk. II	140	
1941	Model 32	B-24C	9	Total: 00186
1942	Model 32	B-24D	2728	
1942	Model 32	C-87	282	
1942	Model 32	C-87A	6	
1943	Model 32	AT-22	5	
1942	Model 32	B-24E	799	
1943	Model 32	B-24G	430	Total: 04250
1943	Model 32	B-24H	3100	
1943	Model 32	B-24J	6678	
1944	Model 32	B-24L	1667	
1944	Model 32	B-24M	2593	Total: 14038
1944	Model 32	XB-24N	1	
1945	Model 32	YB-24N	7	Total: 00008
1944	Model 40	PB4Y-2	740	
1944	Model 32	RY-3	34	
1944	Model 39	R2Y-1	2	Total: 00776

Total: 19258

B-24 VARIANTS – TYPE COMPARISON

Figures for each type are final totals built or converted.

<u>USAAF</u>		<u>US Navy</u>		British RAF
XB-24 YB-24 B-24A YB-24 B-24A LB-30 B-24C	1 0 0 1 9 75 9	- - - - -		LB-30A Liberator Mk. I 6 LB-30B Liberator Mk. I 20 - Liberator Mk. II 140
B-24D	2728	PB4Y-1	273	Liberator Mk. III 156 Liberator Mk. V 226
C-87 C-87A AT-22	282 6 5	RY-2 RY-1 -	5 3	Liberator Mk. VII 24
B-24E B-24G	799 430	- PB4Y-1	1	Liberator Mk. IV 0
B-24H	3100	-		Liberator Mk. VI 1146 Liberator Mk. VIII 366
B-24J	6678	PB4Y-1	372	Liberator Mk. VI (included above) Liberator Mk. VIII (included above)
B-24L	1667	PB4Y-1	186	Liberator Mk. VI (included above) Liberator Mk. VIII (included above)
B-24M	2593 	PB4Y-1	145	-
XB-24N YB-24N	1 7	- -		- -
	0	PB4Y-2 RY-3 R2Y-1	740 34 2	Liberator Mk. IX 28

B-24 PRODUCTION

XB-24

Prototype 4-engined heavy bomber, short nose, twin-tail, unarmed. produced 1939

Consolidated San Diego, California (CO)

1 Total: 00001 39-556

LB-30A Liberator Mk. I

As XB-24, minor changes, diverted from YB-24 order (39-681 / 39-688) to RAF as unarmed ferry transports. YB-24 s/n reassigned as 40-696 / 40-702, then cancelled again. produced 1940

Consolidated San Diego, California (CO)

(RAF) AM258 / AM263 6 Total: 00006

LB-30B Liberator Mk. I As LB-30A, diverted from USAAF (40-2349 / 40-2368) B-24A order to RAF for ASW duties, cannon, antennas. produced 1941 Consolidated San Diego, California (CO) (RAF) AM910 / AM929 20 Total: 00020 1 / 20 **YB-24** As LB-30B, service test aircraft for USAAF, redesignated as **B-24** upon delivery. produced 1941 Consolidated San Diego, California (CO) 1 Total: 00001 **B-24A** As YB-24, ferrying transports used by USAAF. produced 1941 Consolidated San Diego, California (CO) 40-2369 / 40-2377 9 Total: 00009 Liberator Mk. II As B-24A, lengthened nose, RAF armament, mid-upper / rear turrets. produced 1941 - 1942 Consolidated San Diego, California (CO) (RAF) AL503 / AL641 - AL503 lost to accident before delivery, replaced by FP685. - AL504 to Winston Churchill, named "Commando", upgraded in 1944 to RY-3 standards with single tail. 140 Total: 00140 (RAF) FP685 140 **B-24C** Upgraded B-24A, based on the XB-24B, lengthened nose, oval nacelles, engine upgrade, upper / rear turrets. produced 1941 - 1942 Consolidated San Diego, California (CO) 40-2378 / 40-2386 1/9 9 Total: 00009 **B-24D** As B-24C, engine upgrade, ventral turret, astrodome, many block no. changes. First s/n range reassigned from YB-24 order. Second s/n range reassigned from LB-30B order. produced 1942 - 1943 Consolidated San Diego, California (CO) 40-696 / 40-701 1/6 7 / 26 40-2349 / 40-2368 41-1087 / 41-1142 27 / 82 41-11587 / 41-11938 83 / 434 - 305 as **B-24D**. - 8 as **B-24D-CF**. - 4 as **B-24D-DT**. - 35 as C-87-CF.

	42-72765 / 42-72963 12 to RAAF as A72-1 / A72-12.		2415	
	27 additional airframes cancelle			
	Consolidated Fort Worth, ⁷ 8 mixed with B-24D-CO s/n.	Texas (CF)		
	42-63752 / 42-64046	1 / 295	303	
	Douglas Tulsa, Oklahoma		000	
	10 mixed with B-24D-CO s/n.		10	Total: 02728
		(DT c/n: 15514 / 15523)	. •	
C-87	Liberator Express	,		
	As B-24D, cargo transport, side			
	windows, solid nose and tail, ur Prototype was B-24D s/n: 41-11			
	produced 1942 – 1944	7000.		
	Consolidated Fort Worth,	Texas (CF)		
	70 mixed with B-24D-CO s/n.	(0.)		
	2 mixed with B-24E-FO s/n.			
	42-107249 / 42-107275			
	- 26 as C-87 .	(renumbered: 1 / 27)		
	- 1 as AT-22-CF . 43-30548 / 43-30627	28 / 107		
	- 73 as C-87 .	207 107		
	- 3 as C-87A-CF .			
	- 4 as AT-22-CF .			
	44-39198 / 44-39298	1 / 101		
	44-52978 / 44-52987		282	Total: 00282
0.074	125 additional airframes cancel	led.		
C-8/A	A Liberator Express	agrada		
	As C-87, VIP interior, engine up produced 1942 – 1943	ograde.		
	Consolidated Fort Worth,	Texas (CF)		
	41-23863, 41-24159	658, 954		
	41-24174	969		
	43-30569 / 43-30571	49 / 51	6	Total: 00006
AT-22				
	As C-87, trainers for flight engin			
	Redesignated as TB-24D in 194	44.		
	produced 1943	. (05)		
	Consolidated Fort Worth,			
	42-107266	1124 (renumbered: 18)		
	43-30549, 43-30561	29, 41	F	Total, 0000F
	43-30574, 43-30584	54, 64	5	Total: 00005

B-24E As B-24D, modified props, no ventral turret. produced 1942 - 1943 Consolidated Fort Worth, Texas (CF) 41-29009 / 41-29115 1 / 107 108 / 144 42-64395 / 42-64431 144 Douglas Tulsa, Oklahoma (DT) 41-28409 / 41-28573 1 / 165 (DT c/n: 15524 / 15688) 41-29007, 41-29008 167 unknown Ford-Willow Run, Ypsilanti, Michigan (FO) 42-6976 unknown - 1 as C-87. 42-6977 / 42-7464 1 / 488 - 487 as **B-24E**. - 1 as C-87. 42-7770 488 Total: 00799 unknown - Retained by Ford-WR. **B-24G** NAA version (NA-95) of B-24D, minor changes. Nose turret from s/n: 42-78070. produced 1943 - 1944 North American Dallas, Texas (NT) 42-78045 / 42-78474 1 / 430 430 Total: 00430 (NT c/n: 95-15131 / 15560) 650 NA-118 and 300 NA-125 additional airframes cancelled. **B-24H** As B-24G-1, engine / armament upgrade, ventral turret. produced 1943 - 1944 Consolidated Fort Worth, Texas (CF) 41-29116 / 41-29211 154 / 249 41-29212 / 41-29258 261 / 307 41-29259 / 41-29608 358 / 707 42-50277 / 42-50451 708 / 882 42-64432 / 42-64440 145 / 153 42-64441 / 42-64451 250 / 260 738 42-64452 / 42-64501 308 / 357 Douglas Tulsa, Oklahoma (DT) 166 / 598 41-28574 / 41-29006 (DT c/n: 15689 / 16121) 42-51077 / 42-51225 599 / 747 582 (DT c/n: 16122 / 16270) Ford-Willow Run, Ypsilanti, Michigan (FO) 42-7465 / 42-7769 489 / 793 42-52077 / 42-52776 794 / 1493 42-94729 / 42-95503 1494 / 2268 1780 **Total: 03100**

B-24J					
D 2-0	As B-24H, engine upgrade, ma	ny block no.			
	changes. NAA built had charge	number NA-95.			
	produced 1943 – 1944	0 III : (00)			
	Consolidated San Diego,				
	42-72964 / 42-73514				
	42-99936 / 42-100435				
	42-109789 / 42-110188 44-40049 / 44-41389		2792		
	39 to RAAF as A72-13, A72-31		2192		
	434 additional airframes cancel				
	Consolidated Fort Worth,				
	42-50452 / 42-50508	883 / 939			
	42-64047 / 42-64394	296 / 643			
	42-99736 / 42-99935	644 / 843			
	44-10253 / 44-10752				
		1344 / 1796	1558		
	47 additional airframes cancelle				
	Douglas Tulsa, Oklahoma	(DT) 748 / 952	205		
	42-51226 / 42-51430		205		
	North American Dallas To	(DT c/n: 16271 / 16475)			
	North American Dallas, Te 42-78475 / 42-78794	431 / 750			
	42-104137 42-10134	(NT c/n: 95-15561 / 15880)			
	44-28061 / 44-28276	751 / 966	536		
	44 200017 44 20270	(NT c/n: 95-36536 / 36751)	000		
	106 to RAAF as A72-300 / A72	•			
	434 additional B-24J-NC airfrar				
	Ford-Willow Run, Ypsilant	,			
	42-50509 / 42-51076				
	42-51431 / 42-52076	2962 / 3607			
	42-95504 / 42-95628	2269 / 2393	4507	T-1-1 00070	
D 041	44-48754 / 44-49001	3609 / 3856	1587	Total: 06678	
B-24L					
	As B-24J, revised gun turret positions. produced 1944 – 1945				
	Consolidated San Diego,	California (CO)			
	44-41390 / 44-41806	5326 / 5742	417		
	83 to RAAF as A72-69 / A72-14				
	A72-149 / A72-157.				
	Ford-Willow Run, Ypsilant	• • • • • • • • • • • • • • • • • • • •			
	44-49002 / 44-50251	3857 / 5106	1250	Total: 01667	
B-24N	=				
	As B-24L, lightweight tail turret, produced 1944 – 1945	minor changes.			
	Consolidated San Diego,	California (CO)			
	44-41807 / 44-42722		916		
	47 to RAAF as A72-143 / A72-1		0.0		
	A72-158 / A72-198.				
	1326 additional airframes cance				
	Ford-Willow Run, Ypsilant	,	1677	Total: 00500	
	44-50252 / 44-51928 124 additional airframes cancel	5107 / 6783	10//	Total: 02593	
	12 i additional allifatiles calleel	iou.			

XB-24N

Prototype, single tail, nose ball

turret, minor changes.

produced 1944

Ford-Willow Run, Ypsilanti, Michigan (FO)

44-48753 3608 1 **Total: 00001**

YB-24N

As XB-24N, service test aircraft.

produced 1945

Ford-Willow Run, Ypsilanti, Michigan (FO)

44-52053 / 44-52059 6908 / 6914 7 **Total: 00007**

B-24N – 5168 ordered but cancelled on VJ Day.

PB4Y-2 Privateer

As PB4Y-1, lengthened fuselage, single

tail, engine upgrade, oval waist turrets.

Consolidated Model 40, (Convair Model 100).

Redesignated as P4Y-2 in 1951.

Redesignated as **P-4B** in 1962.

produced 1944 - 1945

Consolidated San Diego, California (Y)

BuNo. 59350 / 60009

BuNo. 66245 / 66324 - 740 **Total: 00740**

630 additional airframes cancelled.

RY-3 Liberator Express

USN version of C-87, single tail, unofficial USAAF

designation was C-87C, of which 125 cancelled.

Consolidated Model 32, (Convair Model 101).

produced 1944

Consolidated San Diego, California (Y)

BuNo. 90020 / 90050

BuNo. 90057 / 90059 - 34 **Total: 00034**

78 additional airframes cancelled.

R2Y-1 Liberator Liner

Prototype, new fuselage, B-24 wings, PB4Y-2 tail.

Later registered to a civil operator for evaluation.

Consolidated Model 39, (Convair Model 104).

produced 1944

Consolidated San Diego, California (Y)

XR2Y-1 BuNo. 09803

uNo. 09803 - 1

(NX30039)

R2Y-1 NX3939 - 1 **Total: 00002**

253 additional airframes cancelled.

Total: 19258

B-24 CONVERSIONS & TRANSFERS

USAAF / USAF

RB-24 1 B-24, 1942, "restricted" from combat for company testing.

RB-24A 1+ B-24A, 1941, "restricted" from combat for company testing.

XB-24B	1	XB-24 (39-556), 1941-1946, oval nacelles, upgraded engines,
		armour. Basis for the 9 B-24C, new s/n: 39-680.
RB-24C	9	B-24C, 1942, "restricted" from combat for company testing.
SB-24D	10	B-24D, 1943-1945, "Snooper", blind bombing capable conversions.
RB-24E	1+	B-24E, "restricted" from combat conversions.
XB-24F	1	B-24D (41-11678), 1943-1947, tests for thermal anti-icing system.
TB-24H	1	B-24H, training aircraft for B-29 gunners.
XB-24J	2	B-24H (42-95100), 1944, prototype for Ford Motor Co. "J" production. B-24J (42-73130), 1943-1946 prototype with B-17G nose section.
CB-24J	1+	B-24J, cargo conversions.
TB-24J	621	B-24J, 1944-1945, conversions for crew training.
RB-24L	1+	B-24L, 1944, training aircraft for B-29 gun crews.
(TB-24L)	194	RB-24L, 1944-1945, redesignation for radar training.
TB-24M	111	B-24M, 1944-1945, conversions for crew training.
ZB-24M	1+	B-24M, 1948, redesignation as "obsolete."
(EZB-24M)	1	ZB-24M, 1945-1953, conversion for anti-icing tests.
XB-24P	1	B-24D (42-40344), 1943-1945, conversion for fire control research.
XB-24Q	1	B-24L (44-49916), 1946-1948 tests for B-47 radar-controlled turret.
B-24ST	1	B-24D (42-40058), 1943, Single Tail prototype.
(XB-24K)	1	B-24D (42-40234), 1943-1945, tail section of 42-40058 grafted to
,		front end of more developed 42-40234 for further flight testing.
XB-41	1	B-24D (41-11822), 1943-1944, prototype gunship escort, later redesignated as TB-24D.
BQ-8	1+	B-24D / J, unmanned flying bombs, no operational use.
XC-87	1	C-87 (41-11608), 1944-1945, temporary conversion of
		original prototype, new s/n: 41-39600.
XC-87B	1	B-24D (42-40355), 1943, unofficial designation for C-87 / RY-3 hybrid for CAC use, named "Pinocchio."
C-87B		C-87, armed transport conversion, few converted.
XC-109	1	B-24E (42-7221), 1943-1944, prototype for unarmed fuel tanker.
C-109	209	93 B-24J / 116 B-24L, 1943-1945, fuel tanker transports.
XF-7	1	B-24D, 1943-1945, conversion as photo reconn. aircraft.
F-7	4	B-24D, 1943-1945, photo reconnaissance aircraft.
F-7A	87	B-24J, 1944-1945, photo reconn. aircraft with 3 cameras.
F-7B	123	47 B-24J / 5 B-24L / 71 B-24M, 1944-1945 photo reconn. aircraft with 6 cameras.
LB-30	75	Liberator Mk. II, 1942, returned to US as cargo transports. RAF s/n's retained.
Liberator Ferret	173	1 B-24D / 172 B-24J, 1943-1945, conversions with passive radar detecting / jamming equipment.
US Navy	077	
PB4Y-1	977	273 B-24D / 1 B-24G / 372 B-24J / 186 B-24L / 145 B-24M, 1942-1945, aircraft serving with the US Navy. Assigned BuNo. 31936 / 32335, 38733 / 38965, 46725 / 46737, 63915 / 63959, 65287 / 65396, 90132 / 90271, 90462 / 90483. 46 additional transfers cancelled.
(PB4Y-1G)	5	PB4Y-1, 1944-1946, conversions of PB4Y-1 for Coast Guard.
(PB4Y-1P)	65	PB4Y-1, 1944-1950, conversions for photo reconnaissance.
(P4Y-1P)	1+	1951-1953, redesignation of PB4Y-1P.
(XPB4Y-2)	3	PB4Y-1, 1943, prototypes for PB4Y-2 with single tail, other changes.
(/ 11 2 / 1 2 /	3	1 5 11 1, 10-10, prototypos for 1 5-11-2 with single tall, other changes.

PB4Y-2B	1+	PB4Y-	2, conversions with anti-shipping missiles.	
(P4Y-2B)	1+	1951, redesignation of PB4Y-2B.		
PB4Y-2G	9	PB4Y-	2, US Coast Guard conversions, observation	
		windo	ws added in place of turrets, glass nose.	
(P4Y-2G)	9	1951, r	edesignation of PB4Y-2G.	
PB4Y-2K	1+	PB4Y-	2, radio controlled drones.	
(P4Y-2K)	1+	1951, r	edesignation of PB4Y-2K.	
(QP-4B)	1+	1962, r	edesignation of P4Y-2K.	
PB4Y-2M	1+	PB4Y-	2, meteorological conversions.	
PB4Y-2N	3	PB4Y-	2, 1945-1953, onboard loudspeaker systems,	
PB4Y-2P	1_		ded during The Korean War.	
			2, photo reconn. conversions.	
(P4Y-2P)			edesignation of PB4Y-2P.	
PB4Y-2S			2, aircraft with surface search radar.	
(P4Y-2S)	_		edesignation of PB4Y-2S.	
QP4Y-2	1		2, personnel transport.	
(QP-4B)	1	1962, r	edesignation of QP4Y-2.	
RY-1	3		1943, aircraft serving with the US Navy. ned BuNo. 67797 / 67799.	
RY-2	5	_	944, aircraft serving with the US Navy.	
			ned BuNo. 39013 / 39017.	
		15 ad	ditional transfers cancelled.	
British RAF				
Liberator C.Mk. II		16	Liberator Mk. II, conversions to cargo transports.	
Liberator Mk. III &			B-24D, aircraft in service with the RAF, Mk. V were	
		302		
Liberator Mk. V			modified for Coastal Command with ASV radar. Delivered as Mk. III (156), GR.Mk. V (226).	
			Assigned RAF s/n: BZ711 / BZ959, FK214 / FK245,	
			FL906 / FL995, LV336 / LV346.	
			Conversions: C.Mk. III (1), Mk. IIIA (11), C.Mk. V (23).	
			15 Mk. III / V to RCAF as 586 / 600.	
Liberator Mk. IV		-	B-24E, not used, assigned to Liberator Mk. VI transfers.	
Liberator Mk. VI &		1512	B-24H / J / L, aircraft serving with the RAF.	
Liberator Mk. VIII			Delivered as B.Mk. VI (899), GR.Mk. VI (247),	
			B.Mk. VIII (108), GR.Mk. VIII (258).	
			Assigned RAF s/n: BZ960 / BZ999, EV812 / EV899,	
			EW100 / EW322, KG821 / KG999, KH100 / KH420,	
			KK221 / KK378, KL348 / KL689, KN702 / KN836,	
			KP125 / KP146, TS519 / TS539, TT336, TT340, TT343, TW758 / TW769, VB852, VB904, VD245, VD249.	
			156 Mk. VI probably not delivered, not counted.	
			Conversions: B.Mk. IV (12), C.Mk. IV (16), C.Mk. VI (144),	
			C.Mk. VIII (86).	
			57 GR.Mk. VI to RCAF as 570 / 579,	
			3701 / 3742, 11101 / 11105.	
Liberator C.Mk. VII		24	16 GR.Mk. VIII to RCAF as 11120 / 11135.	
LIDEI ALUI G.IVIK. VII		24	C-87, aircraft serving with the RAF. Assigned RAF s/n: EW611 / EW634.	
Liberator C.Mk. IX		28	RY-3, aircraft serving with the RAF.	
LINGIALUI C.IVIN. IA		20	Assigned RAF s/n: JT973 / JT999, JV936.	
			1 to RCAF.	
			83 additional transfers cancelled.	

FOREIGN MILITARY / CIVILIAN SERVICE

- B-24 Liberators in service during and post World War II with Australia, Canada, China, Czechoslovakia, France, Honduras, India, The Netherlands, South Africa and Turkey.
- Several P4Y-2s used by civil Latin-American Airlines in the 1960s.
- Super Privateer, conversions in the US to fire bombing aircraft.