

RESTRICTED

T. O. NO. 00-45-1

ACCESSORIES FOR AIRPLANES-ENGINES INTERCHANGEABILITY CROSS REFERENCE CHARTS

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ADDRESS ALL CORRESPONDENCE PERTAINING TO THIS PUBLICATION TO:

DIRECTOR
HEADQUARTERS, AIR TECHNICAL SERVICE COMMAND
WRIGHT FIELD, DAYTON, OHIO

ATTENTION: INTERCHANGEABILITY BRANCH (TSMAC5)

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INTRODUCTION

1. The purpose of the Interchangeability Cross Reference Charts, T. O. No. 00-45-1, is to show the original parts and substitutes which can be used on the airplanes as listed. It is to serve as a guide to all military and civilian personnel having use for this book, in order to simplify problems in connection with servicing and supplying parts for airplanes, to limit grounded time to a minimum. Reference is made to the two types of charts in the book: (1) Interchangeability Charts in the main

body of the book, (2) Cross Reference Charts in the rear.

2. In order to maintain the book in its highest standard of efficiency; comments, corrections, and suggestions on any variations of data as determined by actual use, but not involving too much rework in accomplishing interchangeability, must flow into this Headquarters constantly, from all activities making use of this publication.

HOW TO READ CHARTS

Correct reading of Interchangeability Charts is as follows: reading horizontally, X's show how many different airplanes can use one specific part. X's in the vertical columns (between red lines) show how many different types and makes of parts can be used on one specific airplane. For example refer to sample below.

Reading horizontally on line (2), X's show that Hayes brake assembly H-2-257-1 can be used on airplanes B-17E-BO, B-17F-BO, B-17F-VE, and B-17F-DO. The symbols such as *, A, B, C, etc. above the X's or in

brackets in the part number column, refer the reader to remarks at bottom of page which give additional information and must be read.

Reading vertically, B-17F-BO, line (2), and (3), X's show that Hayes brake assembly H-2-257-1, or H-2-257 can be used on airplane B-17F-BO. No other vertical interchangeability exists because of red lines appearing on lines (3, 4, 5), and (6), except as noted under remarks.

X'S IN SAME LINE SHOW HORIZONTAL INTERCHANGEABILITY
X'S IN SAME COLUMN SHOW VERTICAL INTERCHANGEABILITY (ONLY BETWEEN RED LINES)
DO NOT CROSS RED LINE FOR INTERCHANGEABILITY (EXCEPT WHEN NOTED IN REMARKS)

NOTES APPEARING IN THIS CORNER ARE IMPORTANT GENERAL NOTES CONCERNING ITEMS LISTED ON PAGE AND SHOULD BE READ FIRST.				V. H. BOMBERS								HEAVY BOMBERS								
				B-32-CO	B-29-BW	B-29A-BN	B-29-BA	B-29-MA	B-17E-BO	B-17F-BO	B-17F-DO	B-17E-LO	B-17G-BO	B-17G-DO	B-17G-LO	B-24D-CO	B-24E-CF	B-24E-DT	B-24E-FO	B-24G-NA
	DESCRIPTION	VENDOR	PART NO.	TYPE																
1	BRAKE ASSY - LANDING GEAR WHEEL CLASS 03-B																			
2	20 X 2-3/4 DUPLEX EXPANDER TUBE	HAYES	H-2-257-1						X	X	A	B								
3	20 X 2-3/4 " " "	"	H-2-257						X	X	A	B								
4	20 X 2-3/4 DUPLEX EXPANDER TUBE - INBOARD	"	H-2-76M							A	B	C	X	X	X	X	X	X	X	X
5	20 X 2-3/4 DUPLEX EXPANDER TUBE - INBOARD	"	H-2-258-1 ^(*)		X	X	X	X	X	A	B	C	X	X	X	X	X	X	X	X
6	20 X 2-3/4 DUPLEX EXPANDER TUBE - OUTBOARD	"	H-2-109M							A	B	C	X	X	X	X	X	X	X	X
7	20 X 2-3/4 DUPLEX EXPANDER TUBE - OUTBOARD	"	H-2-259-1 ^(*)		X	X	X	X	X	A	B	C	X	X	X	X	X	X	X	X

REMARKS: LINE NUMBERS IN RED. (L) MEANS LATER MODEL.
 (*) (2,3) USED ON B-17F AIRPLANES THRU AAF42-30032-BO. (C) (4,5,6,7) USED ON B-17F AIRPLANES AAF42-5914-VE AND UP.
 (A) (2,3) USED ON B-17F AIRPLANES THRU AAF42-3189-DO. (*) (5) H-2-258-1 CAN REPLACE MODEL H-2-76M; REVERSE IS NOT TRUE.
 (B) (2,3) USED ON B-17F AIRPLANES THRU AAF42-5913-VE.
 (A) (4,5,6,7) USED ON B-17F AIRPLANES AAF42-30033-BO AND UP. (*) (7) H-2-259-1 IS LATER MODEL AND CAN REPLACE MODEL H-2-109M; REVERSE IS NOT TRUE.
 (B) (4,5,6,7) USED ON B-17F AIRPLANES AAF42-3190-DO AND UP.

AIRPLANE MODELS COVERED IN THIS ISSUE

	<i>System Voltage</i>		<i>System Voltage</i>
B-32-CO	CO—Consol.	P-39F-BE	BE—Bell
B-29-BW	BW—Boeing, Wichita	P-39K-BE	BE—Bell
B-29A-BN	BN—Boeing, Renton	P-39L-BE	BE—Bell
B-29-BA	BA—Bell, Atlanta	P-39M-BE	BE—Bell
B-29-MA	MA—Martin	P-39N-BE	BE—Bell
B-17E-BO	BO—Boeing	P-39Q-BE	BE—Bell
B-17F-BO	BO—Boeing	P-40E-1-CU	CU—Curtiss
B-17F-LO	LO—Lockheed	P-40F-CU	CU—Curtiss
B-17G-BO	BO—Boeing	P-40K-1-CU	CU—Curtiss
B-17G-DO	DO—Douglas	P-40L-CU	CU—Curtiss
B-17G-LO	LO—Lockheed	P-40M-CU	CU—Curtiss
B-24D-CO	CO—Consolidated	P-40N-CU	CU—Curtiss
B-24E-CF	CF—Consol. Ft. Worth	RP-47B-RE	RE—Republic
B-24E-DT	DT—Douglas, Tulsa	P-47C-RE	RE—Republic
B-24E-FO	FO—Ford	P-47D-RE	RE—Republic
B-24G-NA	NA—North American	P-47G-CU	CU—Curtiss
B-24H-CF	CF—Consol. Ft. Worth	P-51A-NA	NA—North American
B-24H-DT	DT—Douglas, Tulsa	P-51B-NA	NA—North American
B-24H-FO	FO—Ford	P-51C-NT	NT—No. Amer., Texas
B-24J-CO	CO—Consolidated	P-51D-NA	NA—North American
B-24J-FO	FO—Ford	P-61A-NO	NO—Northrop
B-25C-NA	NA—North American	P-61B-NO	NO—Northrop
B-25D-NA	NA—North American	P-63A-BE	BE—Bell
B-25G-NA	NA—North American	P-63C-BE	BE—Bell
B-25H-NA	NA—North American	F-5A-LO	LO—Lockheed
B-25J-NA	NA—North American	F-5B-LO	LO—Lockheed
B-26B-MA	MA—Martin	F-5E-LO	LO—Lockheed
B-26B-1-MA	MA—Martin	F-7A-CO	CO—Consolidated
B-26C-MO	MO—Martin, Omaha	F-7B-CO	CO—Consolidated
B-26F-MA	MA—Martin	C-45B-BH	BH—Beech
B-26G-MA	MA—Martin	C-45F-BH	BH—Beech
RB-34-VE	VE—Vega	C-46A-CU	CU—Curtiss
A-20B-DO	DO—Douglas	C-47-DL	DL—Douglas, L. B.
A-20C-DO	DO—Douglas	C-47A-DL	DL—Douglas, L. B.
A-20G-DO	DO—Douglas	C-47B-DL	DL—Douglas, L. B.
A-20H-DO	DO—Douglas	C-53-DO	DO—Douglas
A-20J-DO	DO—Douglas	C-53D-DO	DO—Douglas
A-29K-DO	DO—Douglas	C-54A-DO	DO—Douglas
RA-24A-DE	DE—Douglas, EL S	C-54B-DO	DO—Douglas
RA-24B-DT	DT—Douglas, Tulsa	C-60A-LO	LO—Lockheed
RA-25A-CS	CS—Curtiss, St. Louis	UC-61A-FA	FA—Fairchild
A-26B-DL	DL—Douglas, L. B.	UC-61K-FA	FA—Fairchild
A-29-LO	LO—Lockheed	C-64A-ND	ND—Noorduyn
A-35A-VN	VN—Vultee-Nashville	C-69-LO	LO—Lockheed
A-35B-VN	VN—Vultee-Nashville	UC-78-CE	CE—Cessna
A-36A-NA	NA—North American	UC-78B-CE	CE—Cessna
P-38E-LO	LO—Lockheed	UC-78C-CE	CE—Cessna
P-38F-LO	LO—Lockheed	C-82-FA	FA—Fairchild
P-38G-LO	LO—Lockheed	C-87-CO	CO—Consolidated
P-38H-LO	LO—Lockheed	R-4B-SI	SI—Sikorsky
P-38J-LO	LO—Lockheed	R-5A-SI	SI—Sikorsky
P-38L-LO	LO—Lockheed	R-6A-SI	SI—Sikorsky
P-39D-BE	BE—Bell	OA-10A-VI	VI—Vickers

LINE NO.	DESCRIPTION	VENDOR	PART NO.	TYPE	V. H. BOMBERS								HEAVY BOMBERS							MEDIUM BOMBERS							LIGHT BOMBERS						
					B-22-CO	B-22-BW	B-22-AN	B-22-AM	B-22-MA	B-22-RO	B-22-BO	B-22-LO	B-22-DO	B-22-LO	B-22-DO	B-22-LO	B-22-DO	B-22-LO	B-22-DO	B-22-LO	B-22-DO	B-22-LO	B-22-DO	B-22-LO	B-22-DO	B-22-LO	B-22-DO	B-22-LO	B-22-DO	B-22-LO	B-22-DO		
1	INDICATOR - AIRSPEED CLASS DE-C																																
2	RANGE 50 TO 500 MPH LIGHT 1 WIRE DIAL MARKINGS RADIOACTIVE LUMINOUS MATL FIG. 4	U.S. GAUGE	AM-2-3/8-12-C	D-4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
3		PIONEER	1403-9E-D1	D-4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
4			1406-9E-A1	D-4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
5		KOLLSMAN	6903-011	COML	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
6	RANGE 90 TO 400 MPH LIGHT 2 WIRE DIAL MARKINGS RADIOACTIVE LUMINOUS MATERIAL FIG. 4	PIONEER	1420-14B-A2	COML																													
7	RANGE 40 TO 300 MPH DIAL MARKINGS FLUORESCENT RADIOACTIVE MATERIAL FIG. 3	KOLLSMAN	588K-0110	C-14																													
8		PIONEER	1425-1Z-A1	C-14																													
9			1425-1AE-A1	C-14																													
10		U.S. GAUGE	AW-2-3/4-16-U	C-14																													
11		KING-SEELEY	32450	C-14																													
12		KOLLSMAN	588K-0148	COML																													
13			657BK-09																														
14			657BK-0147																														
15		U.S. GAUGE	AW-2-3/4-16-AP																														
16		PIONEER	1425-1B-A1																														
17			1425-1AD-A1																														
18	LIGHT 1 WIRE DIAL MARKINGS RADIOACTIVE LUMINOUS MATERIAL		1403-1R-B1	C-7																													
19			1403-1C-E1	C-7																													
20		KOLLSMAN	588S-0110	C-7																													
21		U.S. GAUGE	AW-2-3/4-12	C-7																													
22			AW-2-2-3/4-12-B	C-7																													
23		PIONEER	1403-1B-C1	COML																													
24			1403-1K-D1																														
25			1403-13A-A1																														
26	LIGHT 2 WIRE DIAL MARKINGS RADIOACTIVE LUMINOUS MATERIAL	KOLLSMAN	657SD-09																														
27	RANGE 90 TO 250 MPH DIAL MARKINGS RADIOACTIVE LUMINOUS MATERIAL FIG. 3	PIONEER	1415-3E-A1	COML																													
28			1415-3B-B1																														
29			1415-3B-C1																														
30			1414-3B-A1																														
31			1423-3B-A2																														
32			1423-3B-A2																														
33			1415-3B-A1																														
34		KOLLSMAN	657X-08																														
35	RANGE 20 TO 200 MPH DIAL MARKINGS RADIOACTIVE LUMINOUS MATERIAL FIG. 3	PIONEER	1425-2J-A1	B-8																													
36		KOLLSMAN	588K-027	B-8																													
37		U.S. GAUGE	AW-2-3/4-16-AH	B-8																													
38			AW-2-3/4-16-AJ	B-8																													
39		PIONEER	1425-2D-A1	COML																													
40		KOLLSMAN	657BK-0146																														
41	INDICATOR - BANK AND TURN CLASS DE-C																																
42	ELECTRICAL OPERATED GYROSCOPE 24V DIAL MKS. FLUORESCENT RADIOACTIVE MATL FIG. 3	PIONEER	3904-1B-A1	C-1	X	X	X	X																									
43		ALLEN	21500	C-1	X	X	X	X																									
44		SCHWEIN	21500	C-1	X	X	X	X																									
45		ENGR CO	28500	C-1	X	X	X	X																									
46																																	
47	INDICATOR - BANK AND TURN																																
48																																	
49																																	
50	INDICATOR - BANK AND TURN																																

REMARKS: LINE NUMBERS IN RED.