DEPARTMENT OF COMMERCE

CIVIL AERONAUTICS ADMINISTRATION

WASHINGTON

INSPECTION HANDBOOK

CHAPTER XVIII

APPROVED AIRCRAFT



BUREAU OF SAFETY REGULATION

DECEMBER 16, 1940

DEPARTMENT OF COMMERCE
CIVIL AERONAUTICS ADMINISTRATION
BUREAU OF SAFETY REGULATION
WASHINGTON

INTRODUCTION

1. This chapter of the Inspection Handbook contains specifications for all civil aircraft in active operation in the United States which have been issued approvals by the Civil Aeronautics Administration or its predecessor agencies. It is divided into four sections, viz; (1) Alphabetical Index of all models arranged according to manufacturer, (2) Listing of specifications of older models which are seldom revised, (3) Specifications frequently revised (usually current production models), (4) Airworthiness Maintenance Inspection Notes for all models.

   Section (1). In the Index, beside the Approval Number, there appears either "Page No. __" or "A-___." This enables one to determine whether the specification is included in Section (2) or (3). When the "A- No." shown in this edition is superseded by a subsequent revision of the pertinent specification, the new number should be substituted by the inspector in order to keep his handbook up to date. When a new model is added to a specification, the model designation, Approval Number and "A- No." should also be inserted in the proper place. If Airworthiness Maintenance Inspection Notes have been issued, the current "A- No." is specified immediately below the name of the manufacturer.

   Section (2). This section will be known as the "Listing." If it becomes necessary to make revisions to this section, revised pages will be issued to replace those now included. Blank pages have been distributed throughout this section in order that revisions may be made without disrupting the numbering system. As current production models now included under Section (3) become inactive, they will be added to the "Listing."

   Section (3). Specifications in this section are issued separately under serial numbers preceded by the letter "A". As long as the pertinent models remain active, subsequent revisions will be made by issuing complete specifications bearing new "A- Nos." which should be substituted for the numbers now shown in Section (1). As previously indicated, when the models become inactive, the pertinent specifications will be included in Section (2).

   Section (4). Airworthiness Maintenance Inspection Notes are grouped under one "A- No." for each manufacturer and supplement Sections (2) and (3). Superseding Notes will be issued under new "A- Nos." which should be noted in the proper places in Section (1).

2. This edition supersedes Chapter XVIII issued March 18, 1936 and the supplementary list of Approved Gliders issued June 15, 1936, together with revised Pages 1 to 5b issued March 15, 1937 and Pages 6 to 45b issued November 2, 1937. All supplementary changes, complete specifications and Airworthiness Maintenance Inspection Notes dated prior to December 16, 1940 may be discarded except as noted in the current Certificate and Inspection Division Instruction pertinent to this subject.

3. Information reference Equipment:

   The values in inches shown in parenthesis after each item of equipment represent horizontal arms to the C.G. of the item, measured (minus) ahead and (plus) to the rear of the datums specified.

   The three classes of equipment shown are defined as follows:

   Class I. Required equipment which must be installed unless replaced by either Class II or III equivalent items (such items then to be marked "required" on the airworthiness certificate) subject to inspection and C.G. check.

   Class II. Optional equipment which may be installed or removed, subject to inspection and check of C.G. limits.

   Class III. Optional equipment which may be installed or removed, subject to inspection only, except when the airplane is already equipped with any Class II item, in which case a C.G. check must be made for the effect on C.G. limits of the Class III item installation. (Note that when any Class II item is installed, all Class III items are in effect Class II items.)

   The various models may be approved as skiplanes with the skis listed as Equipment on the pertinent specifications without further testing. However, since the increase in empty weight due to the ski installation depends upon the original wheel and tire equipment, the inspector should obtain the actual weight increase.

4. All errors and suggestions for improvements in this handbook should be reported to Chief, Aircraft Airworthiness Section, Civil Aeronautics Administration, Washington, D. C.

J. T. Gray
Chief, Aircraft Airworthiness Section

CHAPTER XVIII OF INSPECTION HANDBOOK
Alphabetical Index of Approved Aircraft

Revised April 15, 1946

AEROMARINE-KLEMM (See CENTRAL AIRCRAFT CORPORATION)

AERONCA AIRCRAFT CORPORATION, Middletown, Ohio

Civil Model	Military Model	Approval No.	Spec.	Airworthiness Directive
CF		ATC 655	Page 3	AD-257
C-2 Standard		ATC 351	Page 1	AM-208
C-2 Scout		ATC 351	Page 1	AM-208
C-3		ATC 396	Page 1	AM-209
K		ATC 634	Page 2	AM-204
KC		ATC 655	Page 3	AD-257
KCA		TC 675	A-675-2	AD-296
KF		TC 688	Page 3	AD-324
KM		TC 676	Page 4	AD-259
KS		ATC 634	Page 2	AM-204
LA, LB		ATC 596	Page 5	AM-207
LC, LCS		ATC 614	Page 5	AM-207
PC-2		ATC 351	Page 1	AM-208
PC-3		ATC 396	Page 1	AM-209
50-C, 65-C		TC 675	A-675-2	AD-296
65-CA	Army L-3F	TC 675	A-675-2	AD-296
50-F		TC 688	Page 3	AD-324
50-L, 50-LA, 65-LA		TC 702	A-702-1	AD-272
65-LB	Army L-3G	TC 702	A-702-1	AD-272
50-M		TC 676	Page 4	AD-259
50-TC, 60-TF		TC 728	A-728-3	AD-325
65-TC	Army L-35	TC 728	A-728-3	AD-325
65-TF, 50-TL, 65-TL		TC 728	A-728-3	AD-325
65-TAC	Army L-3E	TC 728	A-728-3	AD-325
65-TAF	Army L-3D	TC 728	A-728-3	AD-325
65-TAL		TC 728	A-728-3	AD-325
YO-58	Army L-3	TC 728	A-728-3	AD-325
S-50-C, S-65-C, S-65-CA		TC 675	A-675-2	AD-296
S-50-F		TC 688	Page 3	AD-324
O-58-A	Army L-3A	TC 751	A-751-3	AD-364
O-58-B	Army L-3B, L-3C	TC 751	A-751-3	AD-364
SO-58-B		TC 751	A-751-3	AD-364
G-3 Glider	Army TG-5, XLNR-1	TC 9	G-9-2	
7AC		TC 759	A-759-1	

AETNA AIRCRAFT CORPORATION, Los Angeles, California

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
Aerocraft 2SA		TC 733	A-733-2	AM-95

AIR TRANSPORT MANUFACTURING CO., LTD., Los Angeles, Calif.

K-3	ATC 170	Page 7	
K-5	ATC 223	Page 7	
Meteor P-2-S (Formerly General Western)	ATC 482	Page 107	

AIRCRAFT ASSOCIATES, INC., Long Beach, Calif.
(See also Piper J-2)

J-2	ATC 620	Page 7	

AIRCRAFT BUILDERS CORPORATION, Portland, Ore.

Student Prince X	2-258	Page 7	

AIRCRAFT MECHANICS, INC., Colorado Springs, Colo.

Eaglerock A-1	ATC 57	Page 7	
Eaglerock A-2	ATC 58	Page 7	AM-112
Eaglerock A-3, A-4	ATC 59	Page 7	
Eaglerock A-12 Special	2-1	Page 7	
Eaglerock A-12	ATC 139	Page 7	
Eaglerock A-13	ATC 141	Page 7	
Eaglerock A-14	2-103	Page 8	
Eaglerock A-15	ATC 190	Page 8	
Flyabout D-2	ATC 449	Page 8	
Combination Wing Eaglerock	ATC 7	Page 8	AM-112
Long Wing Eaglerock	ATC 8	Page 8	AM-112

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
AKRON AIRCRAFT, INC. (See FUNK AIRCRAFT COMPANY)				
ALEXANDER INDUSTRIES, INC. (See AIRCRAFT MECHANICS, INC.)				
ALLIANCE AIRCRAFT CORPORATION, Alliance, Ohio				
Argo		ATC 178	Page 8	
ALLIED AIRCRAFT CORPORATION, Buffalo, N. Y.				
H-28 (Formerly Continental C-2)		2-444	Page 8	
AMERICAN AERONAUTICAL CORP., Port Washington, L. I., N. Y.				
S-56		ATC 287	Page 9	
S-56-B, S-56-31		ATC 336	Page 9	
AMERICAN AIRCRAFT COMPANY, Long Beach, Calif.				
S-1 (Formerly Security)		2-451	Page 213	
S-1A (Formerly Security)		ATC 521	Page 213	
S-1B		TC 705	Page 8	
AMERICAN AIRPLANE AND ENGINE CORP., Farmingdale, L. I., N. Y. (See also FAIRCHILD)				
Pilgrim 100A		ATC 443	Page 9	
Pilgrim 100B		ATC 470	Page 9	
Pilgrim FC-2		ATC 10	Page 10	
Pilgrim KR-34-B		ATC 88	Page 10	
AMERICAN EAGLE-LINCOLN AIRCRAFT CORP. (See VICTOR H. ROOS AIRCRAFT COMPANY) (See also AMERICAN EAGLECRAFT AND NORTHWESTERN AERO.)				
AMERICAN EAGLECRAFT COMPANY, Ft. Worth, Texas (Formerly owned by American Eagle-Lincoln)				
Amer. Eaglet B-31		ATC 450	Page 10	AM-113
Amer. Eaglet 230		ATC 380	Page 11	AM-113
Amer. Eaglet 230		2-303	Page 11	AM-113
Amer. Eaglet 231		2-387	Page 11	AM-113

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
AMPHIBIONS, INC., Garden City, L. I., N. Y.				
N-2B Neptune		ATC 153	Page 11	
N-2C		ATC 248	Page 11	
P-2 Privateer		ATC 370	Page 11	AM-172
P3B Privateer		2-449	Page 12	
ANDOVER KENT AVIATION CORPORATION, New Brunswick, N. J.				
Langley 2-4-90		TC 755	A-755-1	AD-326
APPLEGATE & WEYANT ENGINEERING CO., c/o Meyers Aircraft Co., Tecumseh, Mich. (Formerly Superior & Culver)				
Dart G, GK, GW		TC 674	Page 12	AM-33
ARDELT, EUGENE M., 2705 High Street, Denver, Colo.				
EA-5 Glider		TC 14	G-14-3	
ARROW AIRCRAFT CORPORATION (See STATE SECURITIES COMPANY)				
ARROW AIRCRAFT AND MOTORS CORPORATION, Lincoln, Nebr.				
F		ATC 601	Page 13	
F		2-531	Page 13	
Arrow Sport		ATC 115	Page 13	
Arrow Sport		2-110	Page 13	
AVRO AVIAN (See A. V. Roe)				
BALLAUER & CHAPPER (See FUNK AIRCRAFT COMPANY)				
BARKLEY-GROW (See CONSOLIDATED VULTEE AIRCRAFT CORP.)				
BARLING AIRCRAFT, INC., St. Joseph, Mo.				
B-6		2-410	Page 15	

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
BARNARD AIRCRAFT CORPORATION, THE, Syracuse, N. Y.				
New Standard D-29-A		ATC 216	Page 15	
New Standard D-29-S		2-272	Page 15	
New Standard D-31		2-276	Page 15	
New Standard D-32		2-382	Page 15	
New Standard D-33		2-327	Page 15	
BARTLETT AIRCRAFT CORP., (William E. Bartlett, Trustee) Rosemead, Calif.				
LC-13 (Formerly Taubman)		2-389	Page 257	
BEECH AIRCRAFT CORPORATION, Wichita, Kansas				
Beechcraft				
B17B, B17L		ATC 560	Page 18	AM-11
B17E		ATC 566	Page 17	AM-11
B17R	Army UC-43H	ATC 579	Page 19	AM-11
C17B	Army UC-43G	ATC 602	Page 21	AM-12
C17E		ATC 615	Page 20	AM-12
C17R	Army UC-43E	ATC 604	Page 22	AM-12
C17L	Army UC-43J	ATC 602	Page 21	AM-12
D17A	Army UC-43F	TC 713	A-713-2	AM-244
D17R	Army UC-43A	TC 638	A-638-3	AM-245
D17S	Army UC-43, -43B; Navy GB-1, -2	TC 649	A-649-4	AM-245
E17B	Army UC-43D	TC 641	A-641-2	AM-243
E17L		TC 641	A-641-2	AM-243
F17D	Army UC-43C	TC 689	A-689-3	AM-243
SB17L		ATC 560	Page 18	AM-11
SC17B, SC17L		ATC 602	Page 21	AM-12
SC17R		ATC 604	Page 22	AM-12
SD17S		TC 649	A-649-4	AM-245
SE17B		TC 641	A-641-2	AM-243
SF17D		TC 689	A-689-3	
18A		TC 630	A-630-1	AD-313
18B		ATC 656	Page 25	AD-313
18D		TC 684	A-684-1	AD-313
18S	Army F-2	TC 710	A-710-1	AD-313

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
BEECH AIRCRAFT CORPORATION, Wichita, Kansas (Continued)				
Beechcraft - (continued)				
A18A, A18D		TC 684	A-684-1	AD-313
B18S	Army F-2	TC 710	A-710-1	AD-313
C18S	Army C-45, -45A, UC-45B, -45F, AT-7, -7A, -7B, -7C; Navy JRB-1, -2, -3, -4, SNB-2, -2C	TC 757	A-757-4	AD-363
D18S (Normal category)		TC 765	A-765-1(T)	
S18A		TC 630	A-630-1	AD-313
SA18A, S18D, SA18D		TC 684	A-684-1	AD-313
S18B		ATC 656	Page 25	AD-313
	Army AT-11 Navy SNB-1	2-582	A-2-582-1(T)	
BELLAK, THEODORE G., Minneapolis, Minn.				
Detroit Gull G-1 (Glider)		TC-1	Page 26	
BELLANCA AIRCRAFT CORPORATION, New Castle, Del.				
CH		ATC 47	Page 27	
CH-300 Pacemaker		ATC 129	Page 27	
300W Pacemaker		ATC 328	Page 27	
CH-400 Skyrocket		ATC 319	Page 27	AM-19
CH-400 Skyrocket		2-205	Page 27	AM-19
CH-400W Pacemaker		2-392	Page 27	AM-19
D Skyrocket		ATC 480	Page 27	
E Pacemaker		ATC 476	Page 27	AM-20
F Skyrocket		2-475	Page 28	
F-2 Skyrocket		2-462	Page 28	
14-9, 14-9L		TC 716	A-716-1	AM-221
14-12F-3		TC 745	A-745-1	AM-222

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
BELLANCA AIRCRAFT CORPORATION, New Castle, Del. (Continued)				
31-42 Pacemaker		TC 578	Page 28	
31-42 Pacemaker		2-509	Page 29	
31-50, 31-55 Skyrocket		TC 565	Page 30	AM-18
66-70, 66-75, 66-76		TC 563	Page 31	
BENNETT AIRCRAFT CORPORATION, Dallas, Texas				
BTC-1		2-552	Page 33	
BIRD (See PERTH AMBOY)				
BIRDWING COMMERCIAL AIRCRAFT COMPANY, St. Joseph, Mo.				
Imperial 10		2-161	Page 35	
BOEING AIRCRAFT COMPANY, Seattle, Washington				
40-B		ATC 27	Page 35	
40-B-4		ATC 183	Page 35	
80-A, 80-A1		ATC 206	Page 35	
100		ATC 133	Page 35	
203-A		ATC 211	Page 35	
203-B		2-412	Page 35	
204		ATC 157	Page 36	
204-A		2-380	Page 36	
247-A, 247-A Special		ATC 524	Page 36	AD-524-1
247-D	Army C-73	ATC 558	Page 36	AD-558-1
S-307		TC 719	A-719-3	AD-310
SA-307B, -307B-1		TC 726	A-726-4	AD-310
314, A-314		TC 704	A-704-2.	AD-348
F4B4		2-555	Page 37	

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
BOEING AIRPLANE COMPANY, WICHITA DIVISION, Wichita, Kansas (Formerly STEARMAN AIRCRAFT, DIV. OF BOEING AIRPLANE CO.) (See also STEARMAN AIRCRAFT COMPANY)				
A75L3		TC 743	A-743-3	AD-743-1
75	Army PT-13	TC 743	A-743-3	AD-743-1
A-75	Army PT-13A, -13B, -13C	TC 743	A-743-3	AD-743-1
B-75	Navy N2S-2	TC 743	A-743-3	AD-743-1
E-75	Army PT-13D; Navy N2S-5, PT-13D/N2S-5	TC 743	A-743-3	AD-743-1
A75J-1	Army PT-18	TC 743	A-743-3	AD-743-1
A75N-1	Army PT-17, -17A; Navy N2S-1, -4	TC 743	A-743-3	AD-743-1
B75N1	Navy N2S-3	TC 743	A-743-3	AD-743-1
D75N1	Army PT-27	TC 743	A-743-3	AD-743-1
BOWLUS SAILPLANES, INC. (See LAISTER-KAUFFMANN AIRCRAFT CORP.)				
BOWLUS-DUPONT SAILPLANE COMPANY, San Fernando, Calif.				
S-1000 Glider		2-1	Page 38	
1-S-2100 Glider		ATC 4	Page 38	
BREESE AIRCRAFT CORPORATION, Portland, Oregon				
R-6-C		2-447	Page 38	
BREWSTER AERONAUTICAL CORPORATION, Long Island City, N. Y. (See also FLEET AIRCRAFT LTD., Fort Erie, Canada)				
Fleet 1		ATC 122	Page 100	AD-267
Fleet 2		ATC 131	Page 100	AD-267
Fleet 7, 7-C, 7 Deluxe		ATC 374	Page 101	AD-267
Fleet 7 (Phillips)		2-562	Page 101	AD-267
Fleet 8		ATC 428	Page 102	AD-267
Fleet 9		ATC 428	Page 102	AD-267
Fleet 9		2-443	Page 102	AD-267
Fleet 10		ATC 374	Page 101	AD-267
Fleet Special		2-305	Page 102	AD-267
BRIEGLEB SAILPLANE CORPORATION (See SAILPLANE CORPORATION OF AMERICA)				
BUDD, EDWARD G. MANUFACTURING COMPANY, Philadelphia, Pennsylvania				
RB-1	Army C-93; Navy RB-1	TC 756	A-756-2	

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
BUHL AIRCRAFT COMPANY, Marysville, Michigan				
Army Training		2-6	Page 39	
CA-3C		ATC 46	Page 39	
CA-5		ATC 12	Page 39	
CA-6		ATC 128	Page 39	
CA-6W		2-133	Page 39	
CA-8A		ATC 98	Page 39	
LA1, LA1A, LA1S, LA1SA, LA18B, LA1B		ATC 405	Page 39	
BUTLER AIRCRAFT CORPORATION, Kansas City, Missouri				
Black Hawk		ATC 135	Page 39	
Butler		2-49	Page 39	
CALIFORNIA AIRCRAFT CORPORATION, Los Angeles, California				
Cub D-1-K		2-271	Page 41	
Cub D-2		2-344	Page 41	
CALL AIRCRAFT COMPANY, Afton, Wyoming				
A		TC 758	A-758-2	
CANADIAN VICKERS LTD., Montreal, Canada				
Stranraer		2-574	Page 39	
CARDINAL AIRCRAFT CORPORATION (See ST. LOUIS AIRCRAFT CORPORATION)				
CENTRAL AIRCRAFT CORPORATION, Keyport, New Jersey				
Aeromarine-Klemm L-25-A		ATC 121	Page 40	
Aeromarine-Klemm L-26		ATC 203	Page 40	
Aeromarine-Klemm L-26-A		ATC 204	Page 40	
Aeromarine-Klemm L-26-B		ATC 334	Page 40	

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CESSNA AIRCRAFT COMPANY, Wichita, Kansas				
AW		ATC 72	Page 41	AM-136
BW-5		2-7	Page 41	
C-3		2-473	Page 44	AM-136
C-34	Army UC-77B	ATC 573	Page 41	AM-25
C-37	Army UC-77C, -77D	ATC 622	Page 42	AD-270
C-38		TC 668	Page 43	AD-270
C-145		TC 701	A-701-3	AD-270
C-165	Army UC-94	TC 701	A-701-3	AD-270
DC-6A	Army UC-77	ATC 243	Page 44	AM-27
DC-6B	Army UC-77A	ATC 244	Page 44	AM-27
T-50	Army AT-17 and UC-78 Series; Navy JRC-1	TC 722	A-722-3	AD-722-2
120, 140		TC 768	A-768-1	
CHAMBERLIN, CLARENCE D., Jersey City, N. J.				
C-81		2-355	Page 44	
C-82		2-343	Page 44	
CLARK (See DURAMOLD AIRCRAFT CORPORATION)				
COLUMBIA (See NORTHWESTERN AERONAUTICAL CORP.)				
COMMAND-AIRE COMPANY, Little Rock, Arkansas				
3-C-3		ATC 53	Page 46	AM-169
3-C-3		2-201	Page 46	AM-169
3-C-3 Trainer		ATC 150	Page 46	AM-169
3-C-3A		ATC 118	Page 46	AM-169
3-C-3A Trainer		ATC 151	Page 46	AM-169
3C-3B		ATC 120	Page 46	
5C-3		ATC 184	Page 46	
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BS-14		2-204	Page 47	AM-169

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
COMMONWEALTH AIRCRAFT, INC., Kansas City, Kansas				
Rearwin 175, 180, 180F, 185, 190F		TC 729	A-729-3	AD-327
Rearwin 2000-C		ATC 232	Page 197	
Rearwin 2000-CO		ATC 314	Page 197	
Rearwin Junior 3000		ATC 434	Page 197	
Rearwin Junior 3100		ATC 481	Page 197	
Rearwin Junior 4000		ATC 469	Page 197	
Rearwin 6000		ATC 653	Page 197	
Rearwin 6000M		TC 661	Page 198	
Rearwin 7000, 7000 DeLuxe		TC 574	Page 199	AM-234
Rearwin 8090, 8125, 8135T		TC 711	A-711-3	AD-263
Rearwin 8135	Army UC-102A	TC 711	A-711-3	AD-263
Rearwin 8500, 8500 DeLuxe		TC 591	Page 201	AM-236
Rearwin 9000, 9000 DeLuxe		TC 624	Page 203	AM-236
Rearwin 9000-KR	Army UC-102	TC 591	Page 201	AM-236
Rearwin 9000-KR DeLuxe		TC 591	Page 201	AM-236
Rearwin 9000-L, 9000-L DeLuxe		TC 591	Page 201	AM-236
CONSOLIDATED VULTEE AIRCRAFT CORP., San Diego, California (See also STINSON DIVISION)				
Barkley Grow T8P-1		ATC 662	Page 14	
Consolidated Commodore 16 Types 1 and 2		ATC 258	Page 47	
Consolidated Fleetster 17 and 17 Special		ATC 291	Page 47	
Consolidated Fleetstar 17AF		ATC 486	Page 47	
Consolidated Fleetster Special 17 Type 2H		2-331	Page 47	
Consolidated Fleetster 20-A		ATC 494	Page 47	
Consolidated 21-C		2-405	Page 48	
Consolidated 28-4		2-548	Page 48	AD-362
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Consolidated PBY-5	Army OA-10, -10A	2-548	Page 48	
Consolidated PBT-5A	Army OA-10A	2-548	Page 48	
Vultee V-1A		ATC 545	Page 273	
Vultee V-1A Special		2-539	Page 274	

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
CONSOLIDATED VULTEE AIRCRAFT CORP., San Diego, California (Continued)				
	Army BT-13, -13A; Navy SNV-1	2-571	Page 46.01	AD-2-571-1
	Army BT-13B; Navy SNV-2	2-571	Page 46.01	AD-2-571-1
	Army BT-15	2-571	Page 46.01	AD-2-571-1
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CORCORAN, STANLEY R., Joliet, Ill				
B Glider (Formerly Frankfort)	Army XTG1, TG-1A, -1C	TC-7	G-7-5	
CROWN MOTOR CARRIAGE COMPANY, Los Angeles, California				
B-3		ATC 199	Page 49	
B-3		2-61	Page 49	
CULVER AIRCRAFT CORPORATION, Wichita, Kansas (See also APPLEGATE & WEYANT)				
LAR		2-559	Page 51	AD-328
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LCA, LFA		TC 730	Page 50	AD-730-1
CUNNINGHAM-HALL AIRCRAFT CORPORATION, Rochester, N. Y.				
PT-6, PT-6F		ATC 177	Page 51	
CURTISS-WRIGHT CORPORATION, AIRPLANE DIVISION, Columbus, Ohio				
A-19-R		TC 629	Page 53	
A22, 22B		2-549	Page 53	
Condor AT-32		TC 534	Page 52	
Condor CO		ATC 193	Page 56	
Fledgling		ATC 191	Page 56	
Fledgling, Jr.		ATC 182	Page 56	
Fledgling J-1 Special		2-472	Page 56	

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
CURTISS-WRIGHT CORPORATION, AIRPLANE DIVISION, Columbus, Ohio (Continued)				
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Sedan 15-N		ATC 425	Page 59	
Thrush J		ATC 236	Page 60	AM-38
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Travel Air SC-2000		ATC 111	Page 61	AM-40
Travel Air 3000		ATC 31	Page 62	AM-40
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Travel Air A-4000		ATC 148	Page 62	AM-40
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Travel Air W-4000		2-35	Page 62	AM-140
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Travel Air A-6000-A		ATC 116	Page 63	
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CYCLOPLANE COMPANY, LTD., Los Angeles, California				
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DAVIS AIRCRAFT CORPORATION, Richmond, Ind.				
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Moth 60-X		2-150	Page 66	
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DENVER, UNIVERSITY OF (See EUGENE M. ARDELT)				
DETROIT AIRCRAFT CORPORATION, Detroit, Michigan (See also PARKS AIR COLLEGE AND THEODORE G. BELLAK)				
Sea Rover E-2		ATC 288	Page 67	
E-2A		ATC 338	Page 67	
Parks P-2		ATC 200	Page 67	
Parks P-2-A		ATC 276	Page 67	
Vega DL-1, DL-1B		ATC 308	Page 67	
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DOUGLAS AIRCRAFT COMPANY, INC., Santa Monica, California (See also DOUGLAS, EL SEGUNDO DIVISION)				
	Army B-18, -18A, -18B	2-577	2-577(T)	AD-355
	Army B-23, UC-67	2-576	Page 74.01	
DC-2	Army C-32, -32A, C-34, C-39, C-42; Navy R2D-1	ATC 540	Page 68	AD-316
DC3-G2		TC 618	A-618-2	AD-618-1
DC3-G2E		TC 618	A-618-2	AD-618-1
DC3-G102		TC 618	A-618-2	AD-618-1
DC3-G102A	Army C-49E, C-50, -50A, -50B, -50C, -50D, C-51	TC 618	A-618-2	AD-618-1
DC3-G103		TC 618	A-618-2	AD-618-1
DC3-G103A		TC 618	A-618-2	AD-618-1
DC3-G202A	Army C-49, -49A, -49B, -49C, -49D, -49J, -49K; Navy R4D-2	TC 618	A-618-2	AD-618-1
DC3A-SC3G		TC 669	A-669-4	AD-669-1
DC3A-SCG		TC 669	A-669-4	AD-669-1
DC3A-S1CG		TC 669	A-669-4	AD-669-1
DC3A-S1C3G	Army C-48, -48A, -52, -52A, -52B, -52C, -53, -53B, -53C, -53D, -68; Navy R4D-3, -4	TC 669	A-669-4	AD-669-1
DC3A-S4C4G		TC 669	A-669-4	AD-669-1
DC3C-SC3G		TC 669	A-669-4	AD-669-1

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DOUGLAS AIRCRAFT COMPANY, INC., Santa Monica, California (Continued)				
DC3C-S1C3G	Army C-47, -47A; Navy R4D-1, -5	TC 669	A-669-4	AD-669-1
DC3C-R-1830-90C	Army C-47B; Navy R4D-6	TC 669	A-669-4	AD-669-1
DC3D-R-1830-90C	Army C-117A	TC 669	A-669-4	AD-669-1
DC3A-SB3G, DC3A-SBG		TC 619	A-619-1	AD-355
DC3B-G102, DC3B-G202A		TC 635	A-635-1	AD-355
DST-G2, DST-G2E		TC 607	A-607-1	AD-355
DST-G102, DST-G103		TC 607	A-607-1	AD-355
DST-G202A		TC 607	A-607-1	AD-355
DSTA-SC3G, DSTA-SCG		TC 671	A-671-1	AD-355
DSTA-S1CG, DSTA-S1C3G		TC 671	A-671-1	AD-355
DSTA-S4C4G		TC 671	A-671-1	AD-355
DSTA-SB3G, DSTA-SBG		TC 647	A-647-1	AD-355
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Dolphin 3		ATC 432	Page 71	
Dolphin 8		2-482	Page 71	
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Dolphin 12		2-486	Page 72	
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M-4		ATC 6	Page 73	
O-38B		2-554	Page 73	
C-54-DC	Army C-54; Navy R5D	TC 762	A-762-3(T)	AD-762-1
C-54A-DC	Army C-54A; Navy R5D-1	TC 762	A-762-3(T)	AD-762-1
C-54B-DC	Army C-54B; Navy R5D-2	TC 762	A-762-3(T)	AD-762-1
C-54D-DC	Army C-54D; Navy R5D-2	TC 762	A-762-3(T)	AD-762-1
C-54E-DC	Army C-54E; Navy R5D-4	TC 762	A-762-3(T)	AD-762-1
C-54G-DC	Army C-54G; Navy R5D-5	TC 762	A-762-3(T)	AD-762-1
DC-4		TC 762	A-762-3(T)	AD-762-1

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DOUGLAS AIRCRAFT COMPANY, INC., EL SEGUNDO DIVISION, El Segundo, Calif.				
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DC5-G102A		TC 727	Page 76	
Delta 1-D (Formerly Northrop)		ATC 553	Page 173	
Delta 1-D (Formerly Northrop)		2-484	Page 173	
DOYLE AERO CORPORATION, Baltimore, Maryland				
O-2		ATC 247	Page 77	
DRIGGS AIRCRAFT CORPORATION, Lansing, Michigan (See also SKYLARK AIRCRAFT CORPORATION)				
Dart		ATC 15	Page 77	
Skylark 3		ATC 303	Page 77	
DURAMOLD AIRCRAFT CORPORATION, Hagerstown, Maryland				
F-46A		2-545	Page 78	
EAGLE ROCK (See AIRCRAFT MECHANICS, INC.)				
EMSCO AIRCRAFT CORPORATION, Downey, California				
B-7-C		ATC 424	Page 81	
B-7-CH		2-396	Page 81	
ENGINEERING & RESEARCH CORP., Riverdale, Maryland				
415		TC 718	A-718-2	
415-C		TC 718	A-718-2	AD-299
EVANS STEEL GLIDER COMPANY, Los Angeles, California				
PT-2 Glider		ATC 2	Page 81	
FAIRCHILD AIRCRAFT DIV. OF FAIRCHILD ENGINE & AIRPLANE CORP., Hagerstown, Maryland (See also AMERICAN AIRPLANE AND ENGINE CORP.)				
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C-6-A		2-338	Page 82	AM-142
KR-21		ATC 215	Page 82	
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22 C7A, 22C7AS		ATC 438	Page 82	AM-45
22 C7AM		ATC 438	Page 83	AM-45
22 C7B		ATC 483	Page 83	AM-45
22 C7D		ATC 503	Page 83	AM-45
22 C7E		ATC 515	Page 83	AM-143
22 C7F		ATC 517	Page 83	AM-46
22 C7G		ATC 564	Page 84	AM-46
24 C8		ATC 475	Page 84	AM-47
24 C8A		ATC 497	Page 84	AM-143
24 C8B		ATC 498	Page 84	AM-47
24 C8C, 24 C8CS		ATC 535	Page 85	AM-46
24 C8D, 24 C8DS		ATC 576	Page 86	AM-47
24 C8E, 24 C8ES		ATC 600	Page 86	AM-46
24 C8F	Army UC-61J	ATC 610	Page 87	AM-47
24 C8FS		ATC 610	Page 87	AM-47
24G	Army UC-61H	ATC 633	Page 88	AM-46
24GS		ATC 633	Page 88	AM-46
24H, 24HS		ATC 632	Page 89	AM-47
24J	Army UC-61B	TC 663	Page 90	AM-46
24JS		TC 663	Page 90	AM-46
24K	Army UC-61E	TC 667	Page 91	AM-46
24KS		TC 667	Page 91	AM-46
24R-9	Army UC-61C	TC 706	A-706-3	AM-48
24R-9S		TC 706	A-706-3	AM-48
24R-40	Army UC-86	TC 706	A-706-3	AM-48
24R-40S		TC 706	A-706-3	AM-48
24W-9	Army UC-61F	TC 707	A-707-2	AM-49
24W-9S		TC 707	A-707-2	AM-49
24W-40	Army UC-61G	TC 707	A-707-2	AM-49
24W-40S		TC 707	A-707-2	AM-49
24W-41	Army UC-61	TC 707	A-707-2	AM-49
24W-41S		TC 707	A-707-2	AM-49
24W-41A	Army UC-61A	TC 707	A-707-2	AM-49
KR-31		ATC 19	Page 95	AM-50
KR-31A		2-510	Page 95	
KR-31B (August Graf)		2-534	Page 95	
KR-34A		ATC 208	Page 95	
KR-34B2		2-505	Page 95	
KR-34C		ATC 162	Page 95	
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KR-34D		2-250	Page 95	
42		ATC 242	Page 95	
42 Special		2-203	Page 95	

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51		2-259	Page 96	
51-A		ATC 358	Page 96	
M-62A	Army PT-19, -19A, -19A-AE, -19A-SL, -19B, -19B-AE	TC 724	A-724-4	AD-724-1
M-62A3	Army PT-26, -26A	TC 724	A-724-4	AD-724-1
M-62B, M-62C	Army PT-23, -23-AE, -23-HO, -23-SL, -23A, -23A-SL	TC 724	A-724-4	AD-724-1
71		ATC 89	Page 96	AD-89-1
71-A		2-290	Page 97	
125		ATC 368	Page 97	
135		ATC 415	Page 97	
FC-2-W2		ATC 61	Page 97	
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FLEET (See BREWSTER AERONAUTICAL CORP., AND FLEET AIRCRAFT LTD.)				
FLEET AIRCRAFT LTD., Fort Erie, Canada				
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FLEETWINGS, DIVISION OF KAISER CARGO, INC., Bristol, Pennsylvania				
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FOKKER (See NORTH AMERICAN AVIATION, INC.)				
FORD MOTOR COMPANY, Dearborn, Michigan				
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4-AT-B		ATC 87	Page 104	
4-AT-D		2-322	Page 104	
4-AT-E		ATC 132	Page 104	
5-AT-B		ATC 156	Page 104	
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90		ATC 430	Page 105	
FRANKFORT SAILPLANE, DIV. OF GLOBE CORP., (See STANLEY A. CORCORAN)				
FUNK AIRCRAFT COMPANY, Coffeyville, Kansas				
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B		TC 715	Page 106	AM-145
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C (Ballauer & Chapper)		2-564	Page 106	
GENERAL AIRCRAFT CORPORATION, Astoria, L. I., New York				
G1-80		TC 742	Page 107	AM-146
GENE. IRPLANES CORPORATION, Garden City, L. I., New York				
Aristocrat 102		2-521	Page 107	AM-168
Aristocrat 102-A		ATC 117	Page 107	AM-168
102-E		ATC 210	Page 107	
Aristocrat 102-F		2-232	Page 107	
111-C		ATC 229	Page 107	AM-168
GENERAL WESTERN (See AIR TRANSPORT MFG. CO., LTD.)				
GLOBE AIRCRAFT CORPORATION, Ft. Worth, Texas				
GC-1		TC 753	Page 108	
GOLDEN EAGLE AIRCRAFT CORPORATION, Columbus, Ohio				
Chief		ATC 202	Page 108	
Chief		2-107	Page 108	
GRAND RAPIDS INDUSTRIES (See GENERAL AIRCRAFT CORP.)				

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GRANVILLE BROS. AIRCRAFT, INC., Springfield, Mass.				
Gee Bee A		2-194	Page 108	
GREAT LAKES AIRCRAFT CORPORATION, Cleveland, Ohio				
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2T-1 (Menasco Special)		2-339	Page 108	
2T-1A		ATC 228	Page 108	
2T-1E		ATC 354	Page 108	
GRUMMAN AIRCRAFT ENGINEERING CORP., Bethpage, L. I., New York				
G-21		TC 654	A-654-2	AD-353
G-21A	Army OA-9; Navy JRF-1, -2, -3, -4, -5	TC 654	A-654-2	AD-353
G-32		2-544	Page 110	
G-32A	Army UC-103	2-544	Page 110	
G-44	Army OA-14; Navy J4F-2	TC 734	A-734-2	AD-352
G-44A		TC 734	A-734-2	AD-352
GWINN AIRCAR COMPANY, INC., Buffalo, New York				
I		TC 682	Page 111	
HAMILTON METALPLANE DIVISION, BOEING AIRPLANE CO., Milwaukee, Wis.				
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H-47		2-329	Page 113	
H-47		ATC 94	Page 113	
HAMMOND AIRCRAFT CORPORATION, Ypsilanti, Michigan (See also P. D. MILLER)				
100 (Formerly Parks P-1H)		2-428	Page 113	
HARLOW AIRCRAFT COMPANY, Alhambra, California				
PC-5A		TC 735	Page 113	
PJC-1		TC 659	Page 114	
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S-1 Cadet (Formerly Interstate)		2-558	Page 120	AD-342
S-1A (Formerly Interstate)		TC 737	A-737-3	AD-342

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S-1A-65F, -85F, -90F (Formerly Interstate)		TC 737	A-737-3	AD-342
S-1B1 (Formerly Interstate)	Army L-6, XL-6	TC 754	A-754-5	AD-341
HAYDEN, CLARK AND O'DAY, Visalia, California				
W-6 Time Builder		2-373	Page 113	
HEATH AVIATION COMPANY, Benton Harbor, Michigan				
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LNA-40		ATC 487	Page 119	
LNB-4		ATC 456	Page 119	
HERSE AND COMPANY, JAN, Poland (c/o Carl Evers, 149 West 97th St., New York, New York)				
Series III RWD13		2-561	Page 114	
HOWARD AIRCRAFT CORPORATION, St. Charles, Illinois				
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DGA-9	Army UC-70D	TC 645	Page 116	AM-214
DGA-11		TC 672	Page 117	
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DGA-15J	Army UC-70B	TC 717	A-717-4	AM-215
DGA-15P	Army UC-70; Navy GH-1, -2, -3, NH-1	TC 717	A-717-4	AM-215
DGA-15W		TC 717	A-717-4	AM-215
DGA-18, -18K		TC 739	A-739-4	AM-231
HARTMANN AIRCRAFT CORP., Jordan, New York				
CW5-M (Formerly Welch)		TC 637	Page 114	AM-111

HUNT (See KEYSTONE K-84-W)

HYDE (See CURTISS-WRIGHT CW-1S)

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S-300		ATC 259	Page 119	AM-170
S-300-E		ATC 342	Page 119	AM-170
W-500		ATC 315	Page 119	AM-170
INTERNATIONAL AIRCRAFT CORPORATION, Cincinnati, Ohio				
F-17		ATC 35	Page 119	
INTERNATIONAL (See HEATH AVIATION COMPANY)				
INTERSTATE (See HARLOW)				
JONES (See BARNARD AIRCRAFT CORP., AND WHITE AIRCRAFT CORP.)				
KELLETT AIRCRAFT CORPORATION, Upper Darby, Pennsylvania				
KD-1 Autogiro		TC 712	Page 121	AM-121
KD-1A Autogiro	Army G-1B	TC 712	Page 121	AM-121
KD-1B Autogiro		TC 712	Page 121	
K-2-A Autogiro		2-431	Page 121	
K-3 Autogiro		ATC 471	Page 121	
KEYSTONE AIRCRAFT CORPORATION, Bristol, Pa.				
Loening C-2-C		ATC 90	Page 122	
Loening C-2-H		ATC 91	Page 122	
K-84 Commuter		ATC 219	Page 122	
K-84-W Commuter (Hunt)		2-526	Page 122	
KINNER MOTORS, INC., Glendale, California (See also PERTH AMBOY Bird)				
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Sportster B-2		ATC 522	Page 122	
B2R		ATC 617	Page 122	
Envoy C-7		ATC 532	Page 123	
Sportster K		ATC 490	Page 124	
Playboy R		ATC 554	Page 124	
Playboy R-1		ATC 518	Page 124	

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KURSAWE, HERMAN, St. Albans, New York				
Kirby Kite (Glider)		2-8	Page 125	
LAIRD AIRPLANE COMPANY, E. M., Chicago, Illinois				
LC-B		2-17	Page 127	
LC-B-200, -1B-200		ATC 86	Page 127	
LC-1B-285		2-501	Page 127	
LC-B-300, -1B-300		ATC 353	Page 127	
LC-B-300, -1B-300		2-189	Page 127	
LCR-300		ATC 176	Page 127	
LC-RW-300		ATC 377	Page 127	
LC-RW-450		2-346	Page 127	
LAISTER-KAUFFMANN AIRCRAFT CORP., St. Louis 10, Missouri				
LK-10A Glider	Army TG-4A	TC 15	G-15-1	
LK-10B Glider		TC 15	G-15-1	
BA-100 Glider (Formerly Bowlus)		TC 8	G-8-3	
LAWSON, RUSSELL H. (See BREESE R-6-C)				
LINCOLN (See VICTOR H. ROOS AIRCRAFT COMPANY)				
LOCKHEED AIRCRAFT CORPORATION, Burbank, California				
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Vega 2-D		2-377	Page 129	
Air Express 3		ATC 102	Page 129	
Vega 5, 5A Executive		ATC 93	Page 129	
Vega 5-C	Army UC-101	ATC 384	Page 129	
Altair 8D, 8G		2-423	Page 128	
Orion 9-C Special		2-416	Page 130	
Orion 9-D		ATC 514	Page 130	
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Electra 10-A	Army UC-36A; Navy R-20, XR-20-1	TC 551	Page 131	AD-319
Electra 10-B	Navy R-30-1	TC 584	Page 133	AD-319
Electra 10-C		ATC 559	Page 135	AD-319
Electra 10-E		TC 590	Page 137	AD-319

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12-B		TC 652	Page 141	AD-320
14-H, 14-H2		ATC 657	Page 143	AD-354
14-N, 14-N2, 14-N3		ATC 683	Page 147	AD-354
14WF62		ATC 666	Page 151	AD-354
14WG3		ATC 673	Page 155	AD-354
18-H		2-556	Page 157	
18-07	Army C-59; Navy R50-2	TC 723	A-723-4	AD-723-1
18-08	Army C-57, -57B; Navy R50-3	TC 723	A-723-4	AD-723-1
18-14		TC 723	A-723-4	AD-723-1
18-40	Navy R50-1	TC 723	A-723-4	AD-723-1
18-50		TC 723	A-723-4	AD-723-1
18-56	Army C-60, -60A; Navy R50-5, -6	TC 723	A-723-4	AD-723-1
49-51		TC 763	A-763-1	
LUSCOMBE AIRPLANE CORPORATION, Dallas, Texas				
Phantom 1, 1S		ATC 552	Page 159	AM-65
4		TC 687	Page 159	AM-66
8, 8A, 8B, 8C, 8D		TC 694	A-694-3	AD-307
MADSON (See CALIFORNIA AIRCRAFT CORPORATION)				
MARTIN COMPANY, GLENN L., Baltimore, Maryland				
130		ATC 585	Page 161	AD-322
156		TC 697	Page 161	AD-322
MERCURY AIRCRAFT CORPORATION, Menominee, Michigan				
BT-120		TC 744	Page 163	AD-264
MERCURY AIRCRAFT, INC., Hammondsport, New York				
Chic T-2		ATC 235	Page 163	

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METAL AIRCRAFT CORPORATION, Cincinnati, Ohio				
G-2-W Flamingo		ATC 192	Page 163	
G-2-W Flamingo		2-62	Page 163	
METALAIR CORPORATION, Pittsburgh, Pennsylvania				
Thaden T-4		2-247	Page 163	
MEYERS AIRCRAFT COMPANY, Tecumseh, Michigan				
OTW, OTW-KR, OTW-145, OTW-160		TC 736	A-736-2	AD-336
MIDWEST SAILPLANE, Wilmington, Delaware				
MU-1 Glider		TC 16	G-16-1	
MILLER, EDWARD B., 450 W. 24th Street, New York, New York				
Dawydoff-Cadet UT-1 Glider		2-9	Page 165	
MILLER, P. D., Concrete, Skagit County, Washington				
Y-1S (Formerly Stearman-Hammond)		TC 644	Page 166	
MOHAWK (See RAND)				
MONOCOUPE (See UNIVERSAL MOULDED PRODUCTS CORP.)				
MORROW AIRCRAFT CORP., c/o HARLOW AIRCRAFT CO., ALHAMBRA, CALIFORNIA				
1-L		2-568	Page 167	
MOTH AIRCRAFT CORPORATION, Robertson, Missouri (See also DeHAVILLAND AIRCRAFT COMPANY, LTD.)				
60-GM, 60-GMW		ATC 197	Page 169	
NAVAL AIRCRAFT FACTORY				
	Navy N3N-3	2-569	Page 170	AB-83
NEW STANDARD (See BARNARD AIRCRAFT CORP. AND WHITE AIRCRAFT CORP.)				

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NICHOLAS-BEAZLEY AIRPLANE DIVISION, AIR ASSOCIATES, INC., Marshall, Missouri				
NB-3		ATC 174	Page 171	
NB-3G		ATC 231	Page 171	
NB-3V		ATC 230	Page 171	
NB-4L		ATC 385	Page 171	
NB-8G		2-353	Page 171	
NB-8G		ATC 452	Page 171	
NOORDUYN AVIATION LTD., Montreal, Canada				
	Army UC-64, -64A, -64B	2-578	Page 171	
NORTH AMERICAN AVIATION, INC., Inglewood, California				
Fokker Universal		ATC 9	Page 172	
Fokker Standard Universal		ATC 164	Page 172	
Fokker Super Universal		ATC 52	Page 172	
	Army BC-1A, AT-6, AT-6A, -6B, -6C; Navy SNJ-2, -3, -4	2-575	Page 172.01	AD-2-575-1
	O-47B	2-572	Page 172.03	
NORTHROP CORPORATION, Inglewood, California (See also DOUGLAS AIRCRAFT CO., EL SEGUNDO DIV., STEARMAN AIRCRAFT CO.)				
Gamma 2-D		ATC 549	Page 174	
Gamma 2D-2		2-535	Page 174	
NORTHWESTERN AERONAUTICAL CORP., Minneapolis Municipal Airport, Minneapolis, Minnesota				
Porterfield 35, 35-70		ATC 567	Page 189	AM-29
Porterfield 35V		ATC 606	Page 189	AM-29
Porterfield 35W		TC 611	Page 189	AM-29
Porterfield CP-40, -40-A		2-530	Page 190	AM-30
Porterfield CP-50		TC 690	Page 191	AD-308
Porterfield CP-55		TC 720	Page 193	AD-273, AB-81
Porterfield CP-65, CS-65		TC 720	Page 193	AD-273, AB-81, -A, -B
Porterfield FP-65		TC 720	Page 193	AD-273, AB-81, -A, -B
Porterfield LP-65		TC 720	Page 193	AD-273, AB-81, -A, -B
Porterfield 75-C		TC 611	Page 189	AD-308
201 (Formerly Amer. Eagle-Lincoln)		ATC 293	Page 10	

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OGDEN AERONAUTICAL CORPORATION, Inglewood, California				
Osprey		ATC 332	Page 175	
OVERCASHIER AIRCRAFT MFG. CO., INC., Detroit, Michigan				
O-12		2-214	Page 175	
OVERLAND AIRWAYS, INC., Omaha, Nebraska				
Sport Trainer		ATC 417	Page 175	
PARAMOUNT AIRCRAFT CORPORATION, Saginaw, Michigan				
Cabinaire		ATC 265	Page 177	
Cabinaire A-70		2-233	Page 177	
PARKS AIR COLLEGE, INC., East St. Louis, Illinois (See also DETROIT AIRCRAFT CORP. AND CURTISS-WRIGHT (PARKS) Travel Air L-4000)				
P-1		ATC 179	Page 177	AM-123
P-1-T		2-506	Page 177	
PASPED AIRCRAFT CORPORATION, Glendale, California				
Skylark W-1		2-546	Page 177	AM-127
PERTH-AMBOY TITLE COMPANY, Perth Amboy, New Jersey				
Bird A		ATC 101	Page 178	AM-171
Bird A		2-33	Page 178	AM-171
Bird A-T (Milwaukee Parts)		2-527	Page 178	
Bird BK		ATC 239	Page 178	
Bird BW		ATC 382	Page 178	AM-171
Bird C		ATC 387	Page 178	
Bird CC		2-441	Page 178	
Bird CJ		ATC 419	Page 178	
Bird CK		ATC 388	Page 178	
Bird RK (Kinner)		2-502	Page 179	
PHEASANT AIRCRAFT COMPANY, Fond du Lac, Wisconsin				
H-10		ATC 36	Page 179	AM-125

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PHILLIPS & POWIS AIRCRAFT, LTD., Great Britain				
Miles Sparrowhawk Series M5		2-524	Page 179	
PHILLIPS AVIATION COMPANY, South Pasadena, California (See also BREWSTER (PHILLIPS) Fleet 7 and SKYLARK AIRCRAFT CORP.)				
CT-2		TC 731	Page 180	
PIPER AIRCRAFT CORPORATION, Lock Haven, Pennsylvania				
AE-1		TC 725	A-725-2	AD-303
Chummy B-2		2-114	Page 181	
E-2		2-358	Page 181	AD-247
E-2		ATC 455	Page 181	AD-247
F-2		ATC 525	Page 181	AD-247
H-2		ATC 572	Page 182	AD-247
HE-1		TC 725	A-725-2	AD-303
J-2		ATC 595	Page 182	AD-248
J-3		ATC 660	Page 183	AD-301
J3C-40, -50, -50S		TC 691	A-691-5	AD-301
J3C-65	Army L-4, -4A, -4B, -4H, -4J;			
	Navy NE-1	TC 691	A-691-5	AD-301
J3C-65S		TC 691	A-691-5	AD-301
J3F-50, 50S, -60, -60S		TC 692	A-692-4	AD-332
J3F-65	Army L-4D	TC 692	A-692-4	AD-332
J3F-65S		TC 692	A-692-4	AD-332
J3L, -S		TC 698	A-698-3	AD-251
J3L-65	Army L-4C	TC 698	A-698-3	AD-251
J3L-65S		TC 698	A-698-3	AD-251
J3P		TC 695	Page 184	AD-301
J4, J4A, J4A-S		TC 703	A-703-1	AD-333
J4B		TC 708	Page 185	AD-333
J4E	Army L-4E	TC 740	A-740-2	AD-309
J4F		TC 721	A-721-1	AD-254
J5A	Army L-4F	TC 725	A-725-2	AD-303
J5A-80		TC 725	A-725-2	AD-303
J5B	Army L-4G	TC 725	A-725-2	AD-303
J5C		TC 725	A-725-2	AD-303
J5C		2-563	Page 186	AD-303
L-14		TC 760	A-760-1	
TG-8 Glider	Navy XLNP-1;			
	Army TG-8	TC 10	G-10-2	AD-256

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PITCAIRN AUTOGIRO COMPANY, Willow Grove, Pennsylvania				
PA-4		2-21	Page 187	AM-126
PA-4W		2-193	Page 187	
PA-5		ATC 18	Page 187	
PA-6		ATC 92	Page 187	
PA-7M, -7S		ATC 196	Page 187	
PA-18 Autogiro		ATC 478	Page 187	
PA-19 Autogiro		ATC 509	Page 187	
PA-20 Autogiro		ATC 433	Page 187	
PA-21 Autogiro		ATC 410	Page 187	
PA-24 Autogiro		ATC 507	Page 188	
PAA-1 Autogiro		ATC 433	Page 187	
PCA-2 Autogiro		ATC 410	Page 187	
PCA-3 Autogiro		ATC 446	Page 188	
PORTERFIELD (See NORTHWESTERN AERONAUTICAL CORP.)				
POST AIRCRAFT CORPORATION, WILEY, Oklahoma City, Oklahoma				
A		ATC 561	Page 195	
PRATT, READ & CO., INC., GOULD AERONAUTICAL DIVISION, Deep River, Connecticut				
PR-G1 Glider	Army TG-32; Navy LNE-1	TC 12	G-12-3	
RAND, RUFUS, R. JR., Minneapolis, Minnesota				
M-1-CK		ATC 263	Page 196	
REARWIN (See COMMONWEALTH AIRCRAFT, INC.)				
ROE & COMPANY, LTD., A. V., Manchester, England				
Avro Avian		2-39	Page 205	
Avro Avian Special		2-307	Page 205	
ROSE AEROPLANE & MOTOR COMPANY, Chicago, Illinois				
Parakeet A-1		2-514	Page 205	
ROOS AIRCRAFT COMPANY, VICTOR H., 931 West 8th St., Kansas City, Mo.				
American Eagle A-1 or 101		ATC 17	Page 10	AM-114
American Eagle		2-55	Page 10	
American Eagle 101-T (Milwaukee Parts)		2-425	Page 10	
American Eagle 129		ATC 124	Page 10	
American Eagle E-430		ATC 302	Page 10	
American Eagle B-330 (Formerly Wallace)		ATC 119	Page 10	
Lincoln Page 1928		ATC 28	Page 128	AM-173
Lincoln 3-A		2-66	Page 128	
Lincoln AP-B5		ATC 372	Page 128	
Lincoln PT		ATC 181	Page 128	AM-173
Lincoln PT-K		ATC 279	Page 128	AM-173
Lincoln PT-T		ATC 344	Page 128	AM-173
Lincoln PT-W		ATC 284	Page 128	AM-173

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ROSS AIRCRAFT COMPANY, Amityville, L. I., New York				
RS-1		TC 732	Page 206	
RYAN AERONAUTICAL COMPANY, San Diego, California				
SC-150		TC 651	Page 208	
SCW-145		TC 658	Page 208	AM-158
ST		ATC 541	Page 209	AM-85
ST-A		ATC 571	Page 210	AM-85
ST-A Special		ATC 681	Page 211	AM-85
ST-3KR	Army PT-22, -22A	TC 749	A-749-4	AD-749-1
RYAN AIRCRAFT CORPORATION, Detroit, Michigan				
B-1		ATC 25	Page 207	AM-84
B-3		2-50	Page 207	AM-84
B-3A		2-105	Page 207	AM-84
B-5		ATC 142	Page 207	AM-84
B-7		ATC 262	Page 207	AM-84
B-7		2-223	Page 207	AM-84
C-1		ATC 346	Page 207	AM-84
SAILPLANE CORPORATION OF AMERICA, Beverly Hills, California				
BG-6 Glider (Formerly Briegleb)	Army XTG-9, TG-13A	TC 6	G-6-3	
BG-8 Glider (Formerly Briegleb)	Army XTG-13	TC 13	G-13-2	
SOVOIA-MARCHETTI (See AMERICAN AERONAUTICAL CORP.)				
ST. LOUIS AIRCRAFT CORPORATION, St. Louis, Missouri				
Cardinal C-2-65		ATC 273	Page 213	
Cardinal C-2-85		ATC 350	Page 213	
Cardinal C-2-90		ATC 264	Page 213	
Cardinal C-2-110		ATC 277	Page 213	
SCHRECK, F. B. A. COMPANY, Argentile, France				
17-HT-4		2-113	Page 213	

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SCHWEIZER AIRCRAFT CORPORATION, Elmira, New York				
SGS 2-8 Glider		TC 5	G-5-1	
SGS 2-8A Glider		TC 5	G-5-1	
	TG-3A Glider	2-11	G-2-11(T)	
SCHWEYER FLUGZEUGBAU, Ludwigshafen/Rhein, Germany				
Rhonsperber (Glider)		2-7	Page 213	
SECURITY (See AMERICAN AIRCRAFT COMPANY)				
SIKORSKY AIRCRAFT DIVISION OF UNITED AIRCRAFT CORP., Stratford, Connecticut				
S-38-B		ATC 126	Page 267	
S-38-BS		2-434	Page 267	
S-38-C		ATC 158	Page 267	
S-39-B		ATC 375	Page 267	
S-39-C		2-391	Page 267	
S-39-CS		2-436	Page 267	
S-40-A		ATC 562	Page 267	AD-323
S-41-B		2-286	Page 268	AD-323
S-42		ATC 544	Page 268	AD-323
S-42-A, -42-B		ATC 592	Page 269	AD-323
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VS-44-A		TC 752	A-752-2	AD-323
SIMPLEX AIRCRAFT CORPORATION, Defiance, Ohio				
Red Arrow		ATC 43	Page 214	
W-2-S		ATC 238	Page 214	
SIOUX AIRCRAFT CORPORATION, Sioux City, Iowa				
Coupe 60		2-81	Page 214	
Coupe 90		ATC 331	Page 214	
Coupe 90-B		ATC 414	Page 214	
Coupe 90-C		2-356	Page 214	AM-128

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SKYLARK AIRCRAFT CORPORATION, Muskegon, Michigan (See also DRIGGS AIRCRAFT CORP. and PHILLIPS AVIATION CO.)				
3		2-469	Page 214	
3-95		2-281	Page 214	
3-95 (Northern Air)		2-567	Page 214	
3-95A		2-369	Page 214	
SLICK AIRWAYS, INC., San Antonio, Tex.				
Curtiss-Wright Army C-46E (Normal category)		TC 772	A-772-1(T)	
SLINGSBY SAILPLANES, LTD., England				
Kirby Kite (Glider)		2-10	Page 214	
SPARTAN AIRCRAFT COMPANY, Tulsa, Oklahoma				
C2-60		ATC 427	Page 215	
C2-165		2-408	Page 215	
C-3		ATC 71	Page 215	
C3-3		2-77	Page 215	
C3-5		2-79	Page 215	
C3-120		ATC 73	Page 215	
C3-165		ATC 195	Page 215	
C3-225		ATC 286	Page 215	
C4-225		ATC 310	Page 215	
C5-301, C5-301-P		ATC 389	Page 215	
7W	Army UC-71	TC 628	Page 216	AD-261
SPORT-FLUGZEUGBAU, Goeppingen, Germany				
Goeppingen 1 "Wolf" (Glider)		2-2	Page 219	
Goeppingen 3 "Minamoa" (Glider)		2-5	Page 219	
Hutter H-17 (Glider)		2-6	Page 219	
STAR AIRCRAFT CORPORATION, Bartlesville, Oklahoma				
Cavalier		ATC 138	Page 221	
Cavalier D		2-191	Page 221	
Cavalier E		ATC 321	Page 221	
STATE SECURITIES COMPANY, Lincoln, Nebraska				
F (Formerly Arrow)		ATC 613	Page 13	AM-116
STATES AIRCRAFT CORPORATION, Center, Texas				
B-2		2-254	Page 221	
B-3		ATC 349	Page 221	

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STEARMAN AIRCRAFT COMPANY, Wichita, Kansas (See also BOEING AIRPLANE CO., WICHITA DIV.)				
C3-B		ATC 55	Page 221	
C3-B		2-124	Page 221	
C3-B Special		2-159	Page 222	
C3-MB		ATC 137	Page 222	
C3-P		2-445	Page 222	
C3-R		ATC 251	Page 222	
4-C		ATC 304	Page 222	
4-C		2-155	Page 222	
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4D		ATC 305	Page 222	
4DM, 4DM-1		ATC 326	Page 222	
4DX		2-406	Page 222	
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4EM		ATC 322	Page 223	
6A		ATC 365	Page 223	
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70		2-516	Page 223	
Alpha 4A		ATC 461	Page 224	
X75L3		2-536	Page 224	
STEARMAN AVIATION, INC., Enid, Oklahoma				
B		2-580	Page 221	
STEARMAN-HAMMOND AIRCRAFT CORP. (See MILLER Y-1S)				
STEWART COMPANY, W. F., Flint, Michigan				
M-2		2-349	Page 227	
STEWART AIRCRAFT INDUSTRIES, INC., Tyler, Texas				
OW6M (Formerly Welch)		TC 636	Page 227	AM-111
STINSON DIVISION, CONSOLIDATED VULTEE AIRCRAFT CORP., Wayne, Michigan				
A		ATC 556	Page 228	AD-556-1
O		ATC 520	Page 229	

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Jr. R-3		ATC 493	Page 229	
Jr. S		ATC 423	Page 229	
--	Army L-5, -5B, -5C, -5D, -5E -5E-1	TC 764	A-764-1	
SM-1		ATC 16	Page 229	
SM-1B		2-24	Page 229	
SM-1D-300		2-60	Page 230	
SM-1DA		ATC 74	Page 230	
SM-1F		ATC 136	Page 230	
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SM-2		ATC 48	Page 230	AM-160
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SM-2AA		2-73	Page 230	
SM-2AA		ATC 145	Page 230	
SM-2AB		ATC 161	Page 230	
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SM-6B		ATC 217	Page 231	
SM-7A		ATC 298	Page 231	
SM-7B	Army L-12A	ATC 329	Page 231	
SM-8A		ATC 295	Page 231	
SM-8A Special		2-461	Page 231	
SM-8B, -8BT		ATC 294	Page 231	
SM-8D		ATC 312	Page 231	
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Jr. SR, SR-2		ATC 510	Page 232	AM-230
Jr. SR Special		2-471	Page 233	AM-230
Jr. SR-1 Special		2-496	Page 233	AM-230
Jr. SR-4		ATC 519	Page 233	AM-230
SR-5, -5B, -5C, -5E		ATC 530	Page 234	AM-230
SR-5A	Army L-12	ATC 530	Page 234	AM-230
SR-5 Special		2-492	Page 235	AM-230
SR-5F		ATC 550	Page 235	AM-230
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SR-8D	Army UC-81B	ATC 609	Page 239	AM-230
SR-8E		ATC 609	Page 239	AM-230
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SR-9C	Army UC-81C	ATC 621	Page 240	AM-230
SR-9D	Army UC-81G	ATC 625	Page 242	AM-230
SR-9CM		ATC 625	Page 242	AM-230
SR-9E	Army UC-81J	ATC 625	Page 242	AM-230
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10B		TC 738	A-738-3	AD-346

STONE, M. E. (See DAVIS AIRCRAFT CORP.)

STONE AIRCRAFT COMPANY (See THEODORE G. BELLAK)

SWALLOW AIRPLANE COMPANY, Wichita, Kansas

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TAYLORCRAFT AVIATION DIVISION, DETROIT AIR-CRAFT PRODUCTS, INC., Alliance, Ohio				
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BC12-65	Army L-2H	TC 696	A-696-3	AD-305
BCS12-65		TC 696	A-696-3	AD-305
BC12-D, BCS12-D		TC 696	A-696-3	
BF	Army L-2G	TC 699	A-699-2	AD-344
BFS		TC 699	A-699-2	AD-344
BF-60 BFS-60		TC 699	A-699-2	AD-344
BF-65, BFS-65		TC 699	A-699-2	AD-344
BF12-65	Army L-2K	TC 699	A-699-2	AD-344
BFS12-65		TC 699	A-699-2	AD-344
BL, BLS		TC 700	A-700-2	AD-291
BL-65	Army L-2F	TC 700	A-700-2	AD-291
BLS-65		TC 700	A-700-2	AD-291
BL12-65	Army L-2J	TC 700	A-700-2	AD-291
BLS12-65		TC 700	A-700-2	AD-291
DC-65	Army L-2, L-2C	TC 746	A-746-5	AD-343
DCO-65	Army L-2A, -2B, -2M	TC 746	A-746-5	AD-343
DF-65	Army L-2E	TC 746	A-746-5	AD-343
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TIMM AIRCRAFT CORPORATION, Van Nuys, California				
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TC-165		2-265	Page 258	
PT-220-C		TC 750	A-750-1	
	Navy N2T-1	2-573	2-573(T)	AD-2-573

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
TRAVEL AIR (See CURTISS-WRIGHT CORP.)				
TROMMER-MICHAEL, Markranstadt, Germany				
Rhonbussard (Glider)		2-4	Page 258	
UNIVERSAL MOULDED PRODUCTS CORP., 570 Lexington Ave., New York, New York				
Monocoach		ATC 201	Page 259	
Monocoach		2-109	Page 259	
Monocoach 275		ATC 275	Page 259	AM-99
Monocoupe 70		ATC 70	Page 259	
Monocoupe 70V		ATC 492	Page 259	
Monocoupe 90, 90A, 90AF		TC 306	Page 259	AD-335
Monocoupe 90J		ATC 355	Page 262	AD-335
Monocoupe 110		TC 327	Page 262	AM-131
Monocoupe 110 Special (Wright)		2-452	Page 263	AM-131
Monocoupe 113		ATC 113	Page 263	
Monocoupe 113 Special		2-120	Page 263	
Monocoupe 125		ATC 359	Page 263	
Monocoupe D-145		ATC 529	Page 263	AM-165
Monoprep		ATC 218	Page 264	
Monoprep		2-90	Page 264	
Monosport 1		ATC 249	Page 264	AM-130
Monosport 2		ATC 250	Page 264	
Monosport 2		2-135	Page 264	
Monosport D		2-134	Page 264	AM-130
UPPERCU (See CENTRAL AIRCRAFT CORP.)				
VEGA AIRCRAFT CORPORATION, Burbank, California				
35-67, 35-70		TC 741	Page 265	
VERVILLE AIRCRAFT COMPANY, Detroit, Michigan				
AT		ATC 323	Page 266	
104		ATC 267	Page 266	
104		2-306	Page 266	

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
VIKING FLYING BOAT COMPANY, New Haven, Connecticut				
Kitty Hawk B-2		2-56	Page 266	
Kitty Hawk B-4		ATC 166	Page 266	
Kitty Hawk B-4		2-227	Page 266	
Kitty Hawk B-8		ATC 392	Page 266	
Kitty Hawk B-8		2-463	Page 266	
VOUGHT-SIKORSKY (See SIKORSKY AIRCRAFT)				
VULTEE (See CONSOLIDATED VULTEE AIRCRAFT CORP.)				
WACO AIRCRAFT COMPANY, Troy, Ohio				
9		ATC 11	Page 277	AM-105
125		ATC 26	Page 277	
AGC-8		TC 664	Page 279	AD-283
ANV-8		TC 677	Page 281	AD-284
AQC-6		TC 598	Page 283	
ARE	Army UC-72A	TC 714	A-714-3	AD-282
ASO		ATC 41	Page 287	
ATO		ATC 123	Page 287	
BSO		ATC 168	Page 287	
BSO		2-262	Page 287	
CJC, CJC-S		ATC 538	Page 287	AM-102
CPF, CPF-1, CPF-6		ATC 583	Page 288	AM-102
CRG		ATC 362	Page 288	AM-102
CSC		ATC 240	Page 289	AM-102
CTO		ATC 257	Page 289	AM-102
CTO Special		2-378	Page 289	AM-102
CUC, CUC-1, CUC-2		ATC 575	Page 289	AD-277
DGC-7		ATC 639	Page 291	AM-103
DJC-6		ATC 538	Page 287	AM-102
DPF-6		ATC 583	Page 288	AM-102
DQC-6		ATC 597	Page 293	AD-277
DSO		ATC 42	Page 293	
EGC-7		ATC 639	Page 291	AM-103
EGC-8	Army UC-72B	TC 665	Page 295	AM-103
ENF Special (Martin)		2-430	Page 297	AM-166
EQC-6		ATC 597	Page 293	AD-277
GXE		ATC 13	Page 297	AM-105
GXE (Milwaukee Parts)		2-363	Page 297	
HRE	Army UC-72C	TC 714	A-714-3	AD-282

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
IBA		ATC 465	Page 297	
INF		ATC 345	Page 297	AM-166
JHD-7		TC 670	Page 298	
JYM		2-361	Page 299	
KNF		ATC 313	Page 299	AM-166
MNF		ATC 393	Page 299	AM-166
OEC		ATC 468	Page 300	
PBA		ATC 464	Page 300	
PBF		ATC 491	Page 300	
PCF		ATC 453	Page 300	
PDC		2-388	Page 300	
PLA		ATC 502	Page 300	
PSO		ATC 339	Page 300	
QCF		ATC 416	Page 301	
QDC		ATC 412	Page 301	
QSO		ATC 337	Page 301	
RBA		ATC 466	Page 301	AM-166
RNF		ATC 311	Page 301	AM-166
RNF		2-311	Page 301	AM-166
S3HD		TC 543	Page 303	
S3HD-A		TC 581	Page 303	
SRE	Army UC-72	TC 714	A-714-3	AD-282
UBA		ATC 479	Page 305	
UBF		ATC 473	Page 305	
UEC		2-418	Page 306	
UEC		ATC 467	Page 306	
UIC		ATC 499	Page 306	
UKC, UKC-S, UKS-6		ATC 528	Page 307	
UKS-7		TC 648	A-648-1	AD-285
UMF		ATC 546	Page 309	
UOC		ATC 568	Page 309	
UPF-7		TC 642	A-642-3	AD-281
VKC, VKC-S, VKS-6		ATC 528	Page 307	
VKS-7	Army UC-72D	TC 648	A-648-1	AD-285
VKS-7F		TC 648	A-648-1	AD-285
VPF-7		TC 642	A-642-3	AD-281
YKC, YKC-S, YKS-6		ATC 533	Page 313	AD-287
YKS-7	Army UC-72K	TC 626	Page 315	AD-287
YMF		ATC 542	Page 317	
YOC		ATC 569	Page 317	
YOC-1		ATC 569	Page 317	AM-108
YPF, YPF-6		ATC 586	Page 319	
YPF-7		ATC 586	Page 319	AD-286
YQC-6		TC 598	Page 283	
ZGC-7	Army UC-72E	ATC 627	Page 323	AD-283
ZGC-8		TC 664	Page 279	AD-283

Civil Model	Military Model(s)	Approval No.	Spec.	Airworthiness Directive
WACO AIRCRAFT COMPANY (Continued)				
ZKS-6		ATC 533	Page 313	AD-287
ZKS-7	Army UC-72M	TC 626	Page 313	AD-287
ZVN-7		ATC 686	Page 325	AD-284
ZVN-8		TC 677	Page 281	AD-284
ZPF-6, ZPF-7		ATC 586	Page 319	AD-286
ZQC-6	Army UC-72H	TC 598	Page 283	AM-108
WALLACE (See VICTOR H. ROOS AIRCRAFT CO.)				
WATERMAN AIRCRAFT SYNDICATE, Van Nuys, California				
W-1		2-325	Page 327	
WELCH (See HARTMANN AIRCRAFT CORPORATION and STEWART AIRCRAFT INDUSTRIES)				
WHITE AIRCRAFT CORPORATION, LeRoy, New York (See also VERVILLE AIRCRAFT CORP.)				
New Standard D-25		ATC 108	Page 327	
New Standard D-25		2-542	Page 327	
New Standard D-25-A		ATC 224	Page 327	
New Standard D-25-B		2-557	Page 327	
WHITTLESEY MANUFACTURING CO., INC., Bridgeport, Connecticut				
Avian Mark IV-M		2-176	Page 327	
WRIGHT, JOHN H., (See UNIVERSAL MOULDED PRODUCTS)				
ZENITH AIRCRAFT CORPORATION, Santa Ana, California				
Z-6-A		2-269	Page 328	

AERONCA LA AND LB, ATC 596

I - SPECIFICATIONS PERTINENT TO BOTH MODELS:

Propeller	Max. permissible diameter 86 in.
Placard speeds	Level flight or climb 120 mph Ind. Glide or dive 162 mph Ind. Flaps (See Item 17) 108 mph Ind.
Fuel capacity	28 gals. (one tank at 19 gals. in right wing(+27) & one at 9 gals. in fuselage (-11))
Oil capacity	2 gals.
No. pass.	1 (+19)
Standard weight	1680 lbs.
C.G. limits	(+12.7) & (+17.4)
Spec. basis	Approved Type Certificate No. 596
Serial Nos.	2000 & up mfrd. prior to 9-30-39 eligible. Approval expired as of that date.

EQUIPMENT: (Datum is center section leading edge)

Class I:

1. Propeller - wood (fixed or adjustable pitch	14 lbs. (-45)
2. 7.00-5 wheels (Hayes B) with tires	
3. 8" streamline tail wheel	
4. Engine ring cowl	12 lbs.
5. Wheel streamlines	21 lbs.

Class III:

10. Flares - three 1 min. (reduce baggage 15 lbs.)	10 lbs. (+80)
11. Flares - five 1 min. (reduce baggage 23 lbs.)	15 lbs. (+80)
12. Flares - three 1-1/2 min. (reduce baggage 26 lbs.)	17 lbs. (+80)
13. Landing lights (Grimes retractable)	10 lbs. (+19)
14. Battery & box (Exide 6TS7-1)	33 lbs. (+39)
15. Battery & box (Exide 3-AC-7-1)	13 lbs. (+39)
16. Starter (Eclipse Y-150)	20 lbs. (-22)
17. Airbrake (flaps)	6 lbs. (+11)
18. Cabin heater	3 lbs. (-25)
19. Special finish	8 lbs. (+60)
20. Special instruments	6 lbs. (-6)
21. 3 in. wheels (Goodyear 3LMBM) with 18x8-3 tires	
22. Battery (Reading 6-ARL-9)	32 lbs. (+39)
23. Radio (RCA AVR-7 or 7A)	23 lbs. (+39)
24. Two 6 Volt Hot shot batteries for radio	20 lbs. (+39)
25. Battery (Reading 3-BRL-9)	9 lbs. (+39)
26. Carburetor heater	2 lbs.
27. Emergency window (left side)	

NOTE 1. Eligible for export subject to inspection for equipment specified in Chapter XII of Inspection Handbook: (April 9, 1937.)
(a) Canada - Landplane
- Skiplane - not eligible
(b) All other countries except Great Britain and Australia.

NOTE 2. Aircraft eligible are also approved with:
(a) Conventional or differential aileron control with cable and push-pull tube control systems respectively.
(b) Flap operating mechanism including automobile window type lift.
(c) Brake operating mechanism, including pedals, located between the rudder pedals and interconnected to a hand lever at the upper left side of the cabin.

II - MODEL LA	DESIGNATION 2 PCLM
Engine	Rearwin Le Blond 70 5E or 5DE
Placard limits	Maximum, except take-off -- in. Hg., 1950 rpm, 70 hp Take-off (one minute) -- in. Hg., 1950 rpm, 70 hp
Baggage	121 lbs. (+39)
III - MODEL LB	DESIGNATION 2 PCLM
Engine	(a) Rearwin Le Blond 85 5F or 5DF (b) Rearwin Le Blond 90 5F
Placard limits	(a) Maximum, except take-off -- in. Hg., 2125 rpm (85 hp) Take-off (one minute) -- in. Hg., 2125 rpm (85 hp)

AERONCA LA AND LB (Continued)

	(b) Maximum, except take-off -- in. Hg., 2250 rpm (90 hp) Take-off (one minute) -- in. Hg., 2250 rpm (90 hp)
Baggage	149 lbs. (+39)

AERONCA LC AND LCS, ATC 614

I - SPECIFICATIONS PERTINENT TO BOTH MODELS

Engine	Warner Scarab Jr.
Placard limits	Maximum, except take-off -- in. Hg., 2025 rpm (90 hp) Take-off (one minute) -- in. Hg., 2025 rpm (90 hp)
Fuel capacity	28 gals. (one tank of 19 gals. in right wing (+27) and one at 9 gals. in fuselage (-11.5)
Oil capacity	3 gals. (-21)
No. pass.	1 (+19)
Spec. basis	Approved Type Certificate No. 614
Serial Nos.	2015, 2021, 2028 and up mfrd. prior to Sept. 30, 1939 eligible. Approval expired as of that date.

EQUIPMENT: (Datum is center section leading edge.)

Class I

Landplane: 1. 3 in. wheels (Goodyear 3 LMBM) with 18x8-3 tires	
2. 8 in. streamline tail wheel	
3. Engine ring cowl	9 lbs. (-37)
4. Wheel streamlines	22 lbs.
5. Wood - fixed or adjustable pitch	15 lbs. (-45)
Seaplane: Items 3 and 5 plus	
7. Edo 47-1965 floats with water rudder	263 lbs.

Class III

10. Flares - three 1 min. (reduce baggage 15 lbs.)	10 lbs. (+80)
11. Flares - five 1 min. (reduce baggage 23 lbs.)	15 lbs. (+80)
12. Flares - three 1-1/2 min. (reduce baggage 26 lbs.)	17 lbs. (+80)
13. Landing lights (Grimes retractable)	10 lbs. (+19)
14. Battery & box (Exide 6TS7-1)	33 lbs. (+39)
15. Battery & box (Exide 3-AC-7-1)	13 lbs. (+39)
16. Starter (Eclipse Y-150)	20 lbs. (-22)
17. Airbrake (flaps) (Landplane only)	6 lbs. (+11)
18. Cabin heater	4 lbs. (-22)
19. Special finish	8 lbs. (+60)
20. Special instruments	6 lbs. (-6)
21. Battery	32 lbs. (+39)
22. Radio (RCA AVR-7 or 7A)	23 lbs. (+39)
23. Two 6 Volt Hot shot batteries for radio	20 lbs. (+39)
24. Battery (Reading 3-BRL-9)	9 lbs. (+39)
25. Carburetor heater	6 lbs. (-16)
26. Emergency window (left side)	

NOTE 1. Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook: (April 9, 1937)
(a) Canada - Landplane
Skiplane - not eligible
Seaplane - not eligible
(b) All other countries except Great Britain and Australia.

NOTE 2. Aircraft eligible are also approved with:
(a) Conventional or differential aileron control with cable and push-pull tube control systems respectively.
(b) Flap operating mechanism including automobile window type lift.
(c) Brake operating mechanism, including pedals, located between the rudder pedals and interconnected to a hand lever at the upper left side of the cabin.
(c) Balanced elevators replacing unbalanced type. (Balanced type have increased area and increased tab area.)

CHAPTER XVIII

AERONCA LC AND LCS (Continued)

II - MODEL LC	DESIGNATION 2 PCLM
Propeller	Maximum permissible diameter 88 in.
Placard speeds	Level flight or climb 120 mph Ind.
	Glide or dive 162 mph Ind.
	Flaps (See Item 17) 108 mph Ind.
Baggage	115 lbs. (+39)
Standard weight	1680 lbs.
C.G. limits	(+11.5) & (+17)
III - MODEL LCS	DESIGNATION 2 PCSM
Propeller	Maximum permissible diameter 86 in.
Placard speeds	Level flight or climb 110 mph Ind.
	Glide or dive 149 mph Ind.
Baggage	102 lbs. (+39) (including anchor and line)
Standard weight	1852 lbs.
C.G. limits	(+12) and (+16.7)

5-2272

AIR TRANSPORT K-5, 6 PCLM, ATC 170

Engines	3 Le Blonds 7D 90 hp
Propeller	Wood
Fuel	85 gals.
Oil	9 gals.
No. pass.	5
Baggage	56 lbs.
Standard weight	4500 lbs.
Spec. basis	Approved Type Certificate No. 170
Serial Nos.	102, 104 and up mfrd. prior to 10-1-35 eligible. Approval expired as of that date.

Class I equipment: Heywood starters 60 lbs.; Battery 40 lbs.

AIR TRANSPORT K-5, 6 PCLM, ATC 223

Engines	3 Kinners K-5 100 hp
Fuel	85 gals.
Oil	9 gals.
No. pass.	5
Baggage	100 lbs.
Standard weight	4500 lbs.
Spec. basis	Approved Type Certificate No. 223
Serial Nos.	104, 107, 110 and up eligible.

Class I equipment: Heywood starter on center engine
Class III equipment (* Means net increase): Wheel streamlines 28 lbs.; 9.50-12 wheels (Warner) and tires (Goodrich) 5 lbs.*; Heywood starters on outboard engines 60 lbs.; Extra 10 gal. fuel tank in center section 7 lbs.; New design fin and rudder.

AIRCRAFT ASSOCIATES J-2, ATC 620

Approval expired September 30, 1939. No aircraft of this model manufactured after that date eligible for certification.

Specifications as noted for Piper J-2, ATC 595, apply in their entirety except as follows:

NOTE A. All major components must be manufactured by Piper Aircraft Corporation in accordance with approved technical data pertaining to ATC 595 excepting: 1. Wing spars and minor structural parts manufactured by Aircraft Associates may be used provided such parts conform to approved technical data pertaining to ATC 620

AIRCRAFT BUILDERS STUDENT PRINCE X, 2 POLB, 2-258

Engine	American Cirrus Mark III 100 hp
Fuel	18-1/2 gals.
Oil	2-1/2 gals.
No. pass.	2
Baggage	None (Compartment must be sealed)
Standard weight	1500 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	101 to 103 eligible.

AIRCRAFT MECHANICS EAGLEROCK A-1, 3 POLB, ATC 57

Engine	Wright J-5 220 hp
Fuel	70 gals.
Oil	6 gals.
No. pass.	2
Baggage	None
Standard weight	2491 lbs.
Spec. basis	Approved Type Certificate No. 57
Serial Nos.	312, 451, 513, 514, 561 to 1003 eligible.

Class III equipment: Tail wheel and wheels with brakes, no change in weight; 8.50-10 tires 10 lbs. net increase; Engine ring cowl (Townsend) 20 lbs.; Extra 20 gal. fuel tank (serials 637, 693, 748, 752, 764, 797, 822 only) 17 lbs.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division instruction.)

AIRCRAFT MECHANICS EAGLEROCK A-2, 3 POLB, ATC 58

Engine	OX5 90 hp or OXX6 102 hp
Fuel	46 gals.
Oil	3-1/2 gals.
No. pass.	2
Baggage	None
Standard weight	2271 lbs.
Spec. basis	Approved Type Certificate No. 58
Serial Nos.	312, 451, 513, 514, 561 to 990, and 1004 eligible.

Class III equipment: Bendix wheels and brakes.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division instruction.)

AIRCRAFT MECHANICS EAGLEROCK A-3 or A-4, 3 POLB, ATC 59

Engine	Hispano A 150 hp (Model A-3) Hispano E 180 hp (Model A-4)
Propeller	Wood
Fuel	70 gals.
Oil	5 gals.
No. pass.	2
Baggage	None
Standard weight	2618 lbs.
Spec. basis	Approved Type Certificate No. 59
Serial Nos.	312, 451, 513, 514, 561 to 987, and 1005 eligible provided 3-way valve is installed in the fuel line in pilot's cockpit.

Class III equipment: Bendix wheels & brakes.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division instruction.)

AIRCRAFT MECHANICS EAGLEROCK A-12 SPECIAL, 3 POLB, 2-1

Engine	Comet 7E 165 hp
Propeller	Adj. metal
Fuel	65 gals. (Two tanks - one in fuselage, 46 gals., and one in center section, 19 gals.)
Oil	5 gals.
No. pass.	2
Baggage	None
Standard weight	2568 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	312 only eligible

Class I equipment: Bendix wheels with brakes; tail skid.

AIRCRAFT MECHANICS EAGLEROCK A-12, ATC 139, 3 POLB

Engine	Comet 130 hp
Propeller	Adj. metal or wood
Fuel	65 gals.
Oil	7 gals.
No. pass.	2
Baggage	None
Standard weight	2580 lbs.
Spec. basis	Approved Type Certificate No. 139
Serial Nos.	673, 701, 763, 785 and up mfrd. prior to 9-30-39 eligible. Approval expired as of that date.

AIRCRAFT MECHANICS EAGLEROCK A-13, 3 POLB, ATC 141

Engine	Challenger R-600 185 hp
Propeller	Fixed metal
Fuel	69 gals. (Wing tank 24 gals., Main tank 45 gals.)
Oil	5-1/2 gals.
No. pass.	2
Baggage	None
Standard weight	2650 lbs.
Spec. basis	Approved Type Certificate No. 141
Serial Nos.	692, 733 and up mfrd. prior to 9-30-39 eligible. Approval expired as of that date.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division instruction.)

AIRCRAFT MECHANICS EAGLEROCK A-14, 3 POLB, 2-103

Engine	Wright R-540 175 hp
Propeller	Adj. metal
Fuel	65-1/2 gals.
Oil	5 gals.
No. pass.	2
Baggage	50 lbs.
Standard weight	2588 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	649,849 and up mfrd. prior to 7-1-40 eli. Approval expired as of that date.

AIRCRAFT MECHANICS EAGLEROCK A-15, 3 POLB, ATC 190

Engine	Kinner K-5 100 hp
Propeller	Adj. metal
Fuel	47-1/2 gals.
Oil	3-3/4 gals.
No. pass.	2
Baggage	15 lbs.
Standard weight	2261 lbs.
Spec. basis	Approved Type Certificate No. 190
Serial Nos.	825,833,834,896,901 and up mfrd. prior to 9-30-39 eligible. Approval expired as of that date.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division Instruction.)

AIRCRAFT MECHANICS FLYABOUT D-2, 2 PCLM, ATC 449

Engine	Szekely SR-3 45 hp
Propeller	Wood
Fuel	7 gals. (One in fuselage)
Oil	1 gal.
No. pass.	1
Baggage	3 lbs.
Standard weight	982 lbs.
Spec. basis	Approved Type Certificate No. 449
Serial Nos.	3002 and up mfrd. prior to 9-30-39 eligible. Approval expired as of that date.

Class I equipment: Airwheels.

AIRCRAFT MECHANICS COMBINATION WING EAGLEROCK, 3 POLB, ATC 7

Engine	OX5 90 hp or OXX6 102 hp
Fuel	46 gals.
Oil	4 gals.
No. pass.	2
Baggage	None
Standard weight	2230 lbs.
Spec. basis	Approved Type Certificate No. 7
Serial Nos.	1 to 560 eligible.

AIRCRAFT MECHANICS LONG WING EAGLEROCK, 3 PCLB, ATC 8

Engine	OX5 90 hp or OXX6 102 hp
Fuel	46 gals.
Oil	4 gals.
No. pass.	2
Baggage	None
Standard weight	2230 lbs.
Spec. basis	Approved Type Certificate No. 8
Serial Nos.	1 to 560 and 1000 SUB eligible.

ALLIANCE ARGO, 2 POLB, ATC 178

Engine	Ross Warrior 115 hp
Fuel	22 gals.
Oil	3-1/2 gals.
No. pass.	1
Baggage	40 lbs.
Standard weight	1671 lbs.
Spec. basis	Approved Type Certificate No. 178
Serial Nos.	101 to 104, 106 to 121 eligible

Class III equipment: 8 gal. reserve fuel tank 8 lbs.

ALLIED H-28 (Formerly Continental C-2) 2 POLM, 2-444

Engine	A.C.E. Cirrus Mark III
Placard limits	Maximum, except take-off -- in. Hg., 2100 rpm (100 hp) Take-off (one minute) -- in. Hg., 2100 rpm (100 hp)
Propeller	Wood
Placard speeds (See NOTE 2)	Level flight or climb _____ mph True Ind. Glide or dive _____ mph True Ind.
Fuel	19 gals. (one in right wing)
Oil	2 gals.

ALLIED (Continued)

No. pass.	1
Baggage	None
Standard weight	1500 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	W-504 only eligible

NOTE 1. This approval formerly issued to Continental Airways, Inc., Jersey City, N. J.

NOTE 2. Placard speeds to be determined by flight test prior to recertification.

AMERICAN S1-B, 2 PCLM, TC 705

Engine	American S-5-125
Placard limits	Maximum, except take-off -- in. Hg., 1950 rpm (125 hp) Take-off (one minute -- in. Hg., 1950 rpm (125 hp)
Placard speeds	Level flight or climb 111 mph True Ind. Glide or dive 135 mph True Ind.
Propeller	Max. permissible dia. 99 in.(See NOTE 3(b))
Fuel capacity	23-1/2 gals. (in fuselage) (-1)
Oil capacity	3 gals. (-16)
No. pass.	1 (+33)
Baggage	50 lbs. (+29.5)(one 25 lbs. compartment in each wing stub)
Standard weight	1900 lbs.
C.G. limits	(+20.1) and (+23.9)
Spec. basis	Type Certificate No. 705
Serial Nos.	27 and up eligible per NOTE A

EQUIPMENT: (Datum is leading edge center section wing)
(* Means net increase)

Class I:

101. Propeller - adj. metal (Ham. Std., hub 7061-C, blades 19B$\frac{1}{2}$)	62 lbs. (-44)
102. Collector ring	15 lbs. (-25)
103. 12 volt generator (Bosch)	10 lbs. (-20)
104. Battery (Willard)	15 lbs. (-11)
105. 6.50-10 wheels (Hayes 651M) with brakes and tires	60 lbs. (+8)
106. Tail wheel (Goodrich Model 61) and 6x2$\frac{1}{2}$ solid tire (Goodrich)	3 lbs. (+208)
107. Two landing gear shock struts (American S-100, Dwg. 8-107)	17 lbs. (+8)
108. Carburetor air heater	

Class II:

200. Miscellaneous items as noted in approved weight and balance report.	

Class III:

301. Propeller - wood (fixed or adj. pitch) (incl. hub) (See NOTE 3)	27 lbs. (-44)

NOTE A. Each aircraft manufactured after Nov. 10, 1941 must, prior to original certification, satisfactorily pass:
(a) An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied.
(b) A final inspection of the completed aircraft.
(c) A check of flight characteristics.

NOTE 1. Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook: (January 10, 1942)
(a) Canada - Landplane
Skiplane - not eligible.
(b) All other countries except Great Britain, Australia, and New Zealand.

NOTE 2. Fuel valves must be placarded as follows:
"Use reserve for take-off and landing."

NOTE 3. When wood propeller, item 301, is installed --
(a) Two 18-1/2 lb. ballast weights must be installed in accordance with American Aircraft Dwg. No. 7-100-1.
(b) The following limitations apply:
Static rpm at maximum permissible throttle setting - not more than 1930
not less than 1880
Diameter - not more than 99 in.
not less than 87 in.

AMERICAN AERO. SAVOIA MARCHETTI S-56, 3 POAmB, ATC 287

Engine	Kinner K-5 100 hp
Fuel	30 gals.
Oil	3 gals.
No. pass.	2
Baggage	27 lbs.
Standard weight	2150 lbs.
Spec. basis	Approved Type Certificate No. 287
Serial Nos.	4 and up mfrd. prior to 9-30-39 eligible. Approval expired as of that date.

AMERICAN AERO. SAVOIA MARCHETTI S-56-B and S-56-31, 3 POAmB, ATC 336

Engine	Kinner B-5 125 hp
Fuel	28 gals.
Oil	3 gals.
No. pass.	2
Baggage	(Model S-56-B) 37 lbs. (Model S-56-31)25 lbs. (See NOTE 1)
Standard weight	(Model S-56-B) 2200 lbs. (Model S-56-31)2218 lbs.
Spec. basis	Approved Type Certificate No. 336
Serial Nos.	(Model S-56-B) 12-A, 19, 29 and up mfrd. prior to 9-30-39 eligible. (Model S-56-31) 27, 51 and up mfrd. prior to 9-30-39 eligible. Approval of both models expired 9-30-39

NOTE 1. Baggage includes anchor and rope 19 lbs. and tools 6 lbs. When rear seat of S-56-B not occupied, equivalent weight in baggage may be carried provided seat is suitably enclosed to prevent baggage from moving.

AMERICAN AIRPLANE AND ENGINE PILGRIM 100A, 10 PCLM, ATC 443

I - SPECIFICATIONS PERTINENT TO ALL SERIAL NOS.:

Engine	Hornet B1 575 hp
Propeller	Adj. metal
Oil	12 gals.
No. pass.	9
Standard weight	7750 lbs.
Spec. basis	Approved Type Certificate No. 443
Serial Nos.	6601 and up mfrd. prior to 9-1-33 eligible. Approval expired as of that date.

Class III equipment: Fin with 2 sq. ft. increase in area; Fixed metal aileron flap (serials 6601, 6602, 6603, 6605, 6608, 6609, 6610, 6611, 6613 to 6616); Skis (Inspector to furnish pertinent weights); Star Air Service 8000, Wash. Aircraft 7800, Pacific Alaska GS-3 or PAA-5, Star Air Service 8000-L.

II - SERIALS 6601 to 6612:

Fuel	120 gals. (or 150 gals. when changed by American Airlines in accordance with approved data)
Baggage	Maximum capacity of compartments: Fwd. mail compartment 608 lbs. Compartment under seat in cabin 60 lbs. 3 compartments under cabin 70 lbs. each

Class I equipment: Engine ring cowl 26 lbs.; 2-way radio 196 lbs.; Landing lights 20 lbs.; Battery 71 lbs.; Flares and brackets 45 lbs.; Generator and control box 41 lbs.; Heater 21 lbs.; Tools 18 lbs.; Toilet equipment; Water container 12 lbs.; Water 18 lbs.

AMERICAN AIRPLANE AND ENGINE PILGRIM 100A (Continued)

III - SERIALS 6613 AND UP:

Fuel	150 gals.
Baggage	Maximum capacity of compartments: Fwd. mail compartment 514 lbs. Compartment under seat in cabin 60 lbs. 3 compartments under cabin 70 lbs. each.

Class I equipment: Bendix 36x8 roller bearing wheels and tires or Goodyear 35x16-6 wheels and tires with brakes; 10x3 tail wheel; 65 amp. battery (Exide); Eclipse inertia starter with accelerating gun attachment; 50 amp. generator (Eclipse); Western Electric 2-way radio; Ryan retractable landing lights; 2 flares; Lux and 2 one-quart Pyrene fire extinguishers; Engine ring cowl; Toilet equipment; Water container and 18 lbs. water.

AMERICAN AIRPLANE AND ENGINE PILGRIM 100B, 10 PCLM, ATC 470

Engine	Wright Cyclone R1820E 575 hp (See NOTE 2)
Propeller	Adj. metal (See NOTE 2)
Fuel	150 gals. (One right wing 55 gals., one right wing reserve 20 gals., one left 75 lbs.)
Oil	12 gals.
No. passengers	9 (See NOTE 1)
Baggage	Maximum capacity of compartments: Fwd. compartment 476 lbs. Under seat in cabin 60 lbs. 3 compartments under cabin 70 lbs. each
Standard weight	7750 lbs.
Spec. basis	Approved Type Certificate No. 470
Serial Nos.	6701 and up mfrd. prior to 4-1-33 eligible. Approval expired as of that date.

Class I equipment: Engine ring cowl 26 lbs.; 2-way radio 196 lbs.; Landing lights 20 lbs.; Battery 71 lbs.; Flares 45 lbs.; Starter 43 lbs.; Generator and control box 41 lbs.; Heater 21 lbs.; 35x15-6 wheels; 12x5-3 tail wheel; Toilet equipment 12 lbs.; Water 18 lbs.; Tools 18 lbs.

Class III equipment: Skis (Inspector to obtain pertinent weights); Star Air Service 8000, Wash. Aircraft 7800, Pacific Alaska GS-3 or PAA-5, Star Air Service 8000-L.

NOTE 1. All serial Nos. eligible as one-place with passenger seats and toilet equipment removed and freight bins and straps installed in accordance with American Airlines Dwgs. CO-1104 and CO-1108. Inspector to obtain pertinent weights.

NOTE 2. (a) Serial No. 6701 also eligible with the following:

Engine	Wright Cyclone R-1820F-21M
Placard limits	Max., except take-off -- in. Hg., 1900 rpm (575 hp) Take-off (one minute) -- in. Hg., 1900 rpm (575 hp)
Propeller	Controllable metal (Ham. Std., hub S-8484, blades 6091)
Placard speeds	Level flight or climb 130 mph Ind. Glide or dive 156 mph Ind.

(b) Serial No..6706 also eligible with the following:

Engine	Wright Cyclone R-1820F-31
	Max., except take-off 28.5 in. Hg., 1900 rpm (570 hp)
	Take-off (one minute) 33 in. Hg., 1900 rpm (670 hp)
Propeller	Controllable metal (Ham. Std., hub 50057N, blades 6091-6)
Placard speeds	Level flight or climb 130 mph Ind. Glide or dive 156 mph Ind.

AMERICAN AIRPLANE AND ENGINE PILGRIM FC-2, 5 PCL-SM, ATC 10

Engine	Wright J-5 220 hp
Fuel	85 gals. or 100 gals.
Oil	8 gals.
No. pass.	4
Baggage	Landplane 20 lbs. Seaplane 155 lbs.
Standard weight	Landplane 3600 lbs. Seaplane 4000 lbs.
Spec. basis	Approved Type Certificate No. 10
Serial Nos.	1 to 172 eligible

Class I equipment: Hot shot battery; Starter; Heater; Tail wheel or skid (Land); American P-4 floats (Sea)

AMERICAN AIRPLANE AND ENGINE PILGRIM KR-34-B, 3 POLB, ATC 88

Engine	Comet 130 hp
Fuel	54 gals.
Oil	5 gals.
No. pass.	2
Baggage	197 lbs.
Standard weight	2400 lbs.
Spec. basis	Approved Type Certificate No. 88
Serial Nos.	177 to 262 eligible

AMERICAN EAGLE - LINCOLN A-1 or 101, 3 POLB, ATC 17

Engine	OX5 90 hp or OXX6 102 hp
Fuel	38 gals.
Oil	3-1/2 gals.
No. pass.	2
Baggage	50 lbs.
Standard weight	2041 lbs.
Spec. basis	Approved Type Certificate No. 17
Serial Nos.	1 thru 391, 518, 524, 555, 574, 587, 700 thru 740 eligible.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division instruction)

AMERICAN EAGLE - LINCOLN EAGLE, 3 POLB, 2-55

Engine	Hispano A 150 hp or E 180 hp
Fuel	45 gals.
Oil	4 gals.
No. pass.	2
Baggage	None
Standard weight	2463 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	103, 168, 171, 181, 200, 206, 230, 240, 255 thru 269, 276, 286, 290, 291, 297, 313, 315, and 392 eligible.

AMERICAN EAGLE 101-T, 3 POLB, 2-425
(Remodeled by Milwaukee Parts Corp., Milwaukee, Wisc.)

Engine	Tank C-570 116 hp or V-502 115 hp
Propeller	Wood
Fuel	42 gals.
Oil	3 gals.
No. pass.	2
Baggage	None
Standard weight	2041 lbs.
Spec. basis	Aero. Bulletin 7A, Section 7
Serial Nos.	329 only eligible.

AMERICAN EAGLE - LINCOLN 129, 3 POLB, ATC 124

Engine	Kinner K-5 100 hp
Propeller	Wood or adj. metal
Fuel	42 gals.
Oil	5 gals.
No. pass.	2
Baggage	—
Standard weight	2020 lbs.
Spec. basis	Approved Type Certificate No. 124
Serial Nos.	All airplanes manufactured prior o November 30, 1936, eligible. Approval expired as of that date, due to sale to Victor H. Roos, Kansas City, Mo.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division instruction)

AMERICAN EAGLE - LINCOLN 201, 3 POLB, ATC 293

Engine	Kinner K-5 100 hp
Fuel	36 gals.
Oil	4 gals.
No. pass.	2
Baggage	—
Standard weight	1950 lbs.
Spec. basis	Approved Type Certificate No. 293
Serial Nos.	900 to 844 eligible.

Class III equipment: Airwheels

AMERICAN EAGLE - LINCOLN B-330, 3 PCLM, ATC 119
(Formerly Wallace Touroplane)

Engine	Kinner K-5 100 hp
Fuel	32 gals. (Two 14 gal. CS tanks and one 4 gal. in engine compartment.)
Oil	4 gals.
No. pass.	2
Baggage	—
Standard weight	2100 lbs.
Spec. basis	Approved Type Certificate No. 119
Serial Nos.	9 to 21 eligible.

AMERICAN EAGLE - LINCOLN E-430, 4 PCLM, ATC 302

Engine	Continental A-70 165 hp
Fuel	60 gals.
Oil	7 gals.
No. pass.	3
Baggage	—
Standard weight	3008 lbs.
Spec. basis	Approved Type Certificate No. 302
Serial Nos.	1 to 905 eligible

Class I equipment: Heywood starter

AMERICAN EAGLE - LINCOLN AMERICAN EAGLET B-31, 2 POLM, ATC 450

Engine	Szekely SR-3 45 hp
Propeller	Wood
Fuel	10-1/2 gals.
Oil	1-1/4 gals.
No. pass.	1
Baggage	None
Standard weight	922 lbs.
Spec. basis	Approved Type Certificate No. 450
Serial Nos.	1068, 1101 and up mfrd. prior to 11-30-36 eligible. Approval expired as of that date due to sale to Victor H. Roos, Kansas City, Mo.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division instruction)

AMERICAN EAGLECRAFT A-31-1B, 2 POLM, 2-583, APPROVED JULY 3, 1946

Engine	Continental A-50-8
Fuel	73 Min. octane aviation gasoline
Engine limits	For all operations, 1900 rpm (50 hp) Level flight or climb 100 mph True Ind. Glide or dive 120 mph True Ind.
Propeller limits	Static rpm at max. permissible throttle setting: Not more than 1750; not less than 1750 Diameter: Not more than 72 in.; not less than 70.5 in.
C.G. range	At 875 lbs. max. weight: (+10.9)(21.7% MAC) to (+16.8)(31.8% MAC) At 1050 lbs. max. weight: (+15.7)(29.8% MAC) to (+16.8)(31.8% MAC) (Straight line variation between forward limits for intermediate weights)
Datum	Vertical plane through the center line of the main wheels and is 1.75 in. aft of the wing leading edge - (with airplane level).
MAC	58.4 in. (L.E. of MAC at -1.75)
Leveling means	Top longeron on left side in cockpit
Maximum weight	1050 lbs.
No. seats	2 (Front at +13.0, Rear at +40.5)
Baggage	None
Fuel capacity	10 gals. (+11.0)
Oil capacity	1 gal. (-40.0)
Control surface movements	Elevator Up 18° Down 19° Aileron Up 17° Down 18° Rudder Right 38° Left 48° Stabilizer Fixed
Serial Nos. eligible	No. 1201 and up (See NOTE A)

Required equipment 1, 101, 201, and 202

Certification basis Airworthiness Certificate only (CAR 04 prior to November 9, 1945)

Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook:

(a) Canada - Landplane
- Skiplane - not eligible

(b) All other countries except Australia, Great Britain and New Zealand.

Equipment:

Items included in required list under specifications pertinent to individual models may not be removed unless replaced by approved equivalent items.

The affect upon balance of all equipment changes must be computed and the aircraft operation record revised accordingly.

Values in inches shown in parenthesis after each item represent horizontal arms to the C.G. of the item measured minus (-) ahead and plus (+) to the rear of the datum. A plus (+) or minus (-) sign preceding the weight of an optional item indicates the net weight change between that item and the equivalent required item.

Propeller and Propeller Accessories

1. Propeller (including hub) Fahlin D371-48(72) 16 lbs.(-57.5) or any other fixed pitch wood propeller eligible for the engine speed & power and which meets the static rpm & diameter limits specified under "Propeller limits" on Page 1

Engine and Engine Accessories

101. Carburetor air heater 2 lbs. (-40)

Landing Gear

201. Wheels (Goodyear Model 3-LNBM) and extra low pressure 18x8-5 4 ply tires 26 lbs. (0)

202. Tail wheel (Uniloy Model 3000-A1) with Firestone 6 x 2 solid tire 5 lbs. (+200)

Electrical and Radio Equipment

None

Interior Equipment

None

Miscellaneous (not listed above)

600. Miscellaneous items as noted in the approved weight and balance report.

NOTE A. Each aircraft manufactured must, prior to original certification, satisfactorily pass:

(a) An inspection for workmanship, materials and conformity to the pertinent technical data and the original airplane, Serial No. 1201, before any covering, metal priming or final finish is applied. All woodwork may be varnished.

(b) A final inspection of the completed aircraft.

(c) A check of the flight characteristics.

NOTE 1. The following permanent placard should be displayed on the instrument panel in full view of the pilot:

"Intentional acrobatics prohibited".

"Solo from front seat only".

AMERICAN EAGLET 230, 2 POLM, ATC 380

Engine	Szekely SR-3L 30 hp (See NOTE 1)
Propeller	Wood
Fuel	8-1/2 gals.
Oil	1-1/2 gals.
No. pass.	1
Baggage	None
Standard weight	867 lbs. (See NOTE 1)
Spec. basis	Approved Type Certificate No. 380
Serial Nos.	1007, 1013, 1034 and up mfd. prior to 11-30-36 eligible.

NOTE 1. Eligible with Szekely SR-3L engine converted to SR-3-35 35 hp engine, provided the conversion is made by either aircraft or engine manufacturer or competent factory representative. Each regional headquarters has a list of replacement and obsolete parts concerned in this conversion. Maximum standard weight 900 lbs.

NOTE 2. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Safety Regulation Instruction).

AMERICAN EAGLET 230, 2 POLM, 2-303

Engine	Szekely SR-3L 30 hp (See NOTE 2)
Propeller	Wood
Fuel	8-1/2 gals.
Oil	1-1/4 gals.
No. pass.	None or 1 (See NOTE 1)
Baggage	None
Standard weight	867 lbs. (See NOTE 2)
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	1000 to 1033 eligible. (See NOTE 1)

NOTE 1. Eligible provided mfr's affidavit submitted to the effect that the following changes have been made: (1) Bolts to be used in place of clevis pins in control wire connections; (2) All pulleys to be properly guarded. This will require special attachments to existing guards; (3) Substantial seats to replace existing front seats; (4) Special guard to be installed over control wires between front & rear seats; (5) Rear stick to hit stop before coming in contact with front seat; (6) Shock cord on land. gear to be double wrapped; (7) Those planes equipped with single control unit and those returned to factory and removable dual control unit installed are eligible for certification with crew 1 and 1 passenger.

NOTE 2. Same as NOTE 1 for Model 230, ATC 380.

NOTE 3. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Safety Regulation Instruction)

AMERICAN EAGLET 231, 2 POLM, 2-387

Engine	Salmson AD-9 40 hp
Propeller	Wood
Fuel	8-1/2 gals. (See NOTE 1)
Oil	1-1/4 gals.
No. pass.	1
Baggage	None
Standard weight	882 lbs. (See NOTE 1)
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	1010, 1014, 1020, 1022, 1025, 1027, 1030, 1031, 1032, 1036, 1043 and 1078 eligible.

Class I equipment: Airwheels

NOTE 1. Airplanes converted from Model B-31 eligible with fuel capacity of 10-1/2 gals. (1 tank). Standard weight may be increased 12 lbs. with the 12-1/2 gal. fuel capacity.

NOTE 2. Airplanes of this model may be converted to Model B-31, ATC 450, in accordance with approved technical data.

NOTE 3. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Safety Regulation Instruction).

AMPHIBIONS N-2B NEPTUNE, 5 PO-CAmB, ATC 153

Engine	Wright R-975 300 hp
Propeller	Adj. metal
Fuel	80 gals.
Oil	8 gals.
No. pass.	4
Baggage	61 lbs.
Standard weight	4400 lbs.
Spec. basis	Approved Type Certificate No. 153
Serial Nos.	28 and up mfd. prior to 10-1-38 eligible. Approved expired as of that date.

AMPHIBIONS N-2-C, 5 PO-CAmB, ATC 248

Engine	P&W Wasp C1 420 hp
Fuel	80 gals.
Oil	8 gals.
No. pass.	4
Baggage	176 lbs. incl. tools, anchor, rope and bilge pump 53 lbs.
Standard weight	4860 lbs.
Spec. basis	Approved Type Certificate No. 248
Serial Nos.	33, 41 and up mfd. prior to 9-30-39 eligible. Approval expired as of that date.

Class I equipment: Electric starter, battery and generator.

AMPHIBIONS P-2 PRIVATEER, 2 POAmM, ATC 370

Engine	Warner Scarab 125 hp.
Propeller	Wood (See NOTE 1)
Fuel	30 gals.
Oil	2-3/4 gals.
No. pass.	1
Baggage	21 lbs. incl. tools, anchor, rope and bilgel pump. (See NOTE 1)
Standard weight	1965 lbs. (2003 lbs. for serials 62 thru 65)(See NOTE 1)
Spec. basis	Approved Type Certificate No. 370
Serial Nos.	61 and up mfd. prior to 10-1-38 eligible. Approval expired as of that date.

NOTE 1. Serial Nos. 66 and up also eligible with the following:

Propeller	Adj. Metal
Baggage	70 lbs. incl. tools, anchor, 2 parachutes 20 lbs. each and other loose equipment.
Standard weight	2100 lbs.
Equipment:	Heywood starter and engine ring cowl.

AMPHIBIONS P5B PRIVATEER, 3 PCAmM, 2-449

I - SPECIFICATIONS PERTINENT TO ALL SERIAL NOS.:

Engine	Continental R-670 210 hp
Oil	4 gals.
No. pass.	1
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	81 to 84 eligible

II - SERIAL NO. 81:

Fuel	54 gals. (One 27 gal. tank in each right and left wing)
Baggage	79 lbs. (Compt. rear of cabin 44 lbs. Anchor and rope 28 lbs. and tools 7 lbs. fwd. in hull)

Standard weight 3200 lbs.

Class I equipment: Engine ring cowl 11 lbs.; Hot shot battery 10 lbs.; Starter (Heywood) 28 lbs.; 8.50-10 wheels; 10x3 tail wheel; Propeller - adj. metal.

Class III equipment: (* Means net increase) Propeller - controllable metal (Ham. Std. hub 8165, blades 6060-3, low pitch setting 13$\frac{1}{8}$°) 25 lbs.*

III - SERIAL NOS. 82 and 83:

Fuel	56 gals.
Baggage	68 lbs. incl. anchor and rope 16 lbs. and tools 7 lbs.

Standard weight 3200 lbs.

Class I equipment: Engine ring cowl 11 lbs.; Landing lights 8 lbs.; Battery 27 lbs.; Starter (Heywood) and tank 35 lbs.; Generator 7 lbs.; Flotation bags; 8.50-10 wheels; 10x3 tail wheel; Propeller - adj. metal.

Class III equipment: (Same as for serial No. 81).

IV - SERIAL NO. 84:

Fuel	56 gals.
Baggage	14 lbs. incl. anchor and rope 14 lbs. when carried. May be increased to 39 lbs. when adj. metal propeller is installed.

Standard weight 3204 lbs.

Class I equipment: Engine ring cowl 11 lbs.; Radio 16 lbs.; "B" battery 8 lbs.; Battery 25 lbs.; Starter 35 lbs.; 8.50-10 wheels; 10x3 tail wheel; Propeller - controllable metal (Ham. Std. hub 8165, blades 6060-3, low pitch setting 13°)

Class III equipment: Propeller - adj. metal, net decrease 25 lbs.

APPLEGATE & WEYANT (Formerly Superior and Culver) DART G, GK AND GW; TC 674

I - SPECIFICATIONS PERTINENT TO ALL MODELS:

Placard speeds	Level flight or climb 122 mph True Ind.
	Glide or dive 160 mph True Ind.
Fuel capacity	25 gals. (Two tanks in wing at 12$\frac{1}{2}$ gals. each)(+29)
Oil capacity	2$\frac{1}{2}$ gals. (-18)
No. pass.	1 (+24)
Standard weight	1550 lbs.
Spec. basis	Type Certificate No. 674 (Aero. Bulletin 7A requirements)

EQUIPMENT: (Datum is leading edge of wing at fuselage)(* Means net increase)

Class I:

101.	Engine ring cowl (NACA smooth type)	17 lbs. (-28)
102.	Exhaust collector ring with carburetor air heater	
103.	18x8-3 (Goodyear 3LMBM)	33 lbs. (+6)
104.	3-5/8 in. solid rubber tail wheel (Goodyear 95-042)	8 lbs. (+163)
105.	Landing gear strut fairing	8 lbs. (+6)
106.	Engine driven fuel pump (AC)	
107.	Propeller	
	(a) Wood (Models G and GK only)	22 lbs.(-41)
	(b) Adj. metal (Ham. Std. hub 7006, 7019 or 7029, blades 25V2-6) (Model GW only)	35 lbs.(-41)

DART G, GK AND GW (Continued)

Class II:

200.	Miscellaneous items as noted in approved weight and balance report.	

Class III:

301.	Propeller - same as item 107(b) for models G and GK only	
302.	Miscellaneous extra instruments	10 lbs. (+4)
303.	Two parachutes at 20 lbs. each	40 lbs. (+24)
304.	Starter (Eclipse Y-150)	
	(a) Models G and GK	17 lbs. (-17)
	(b) Model GW	18 lbs. (-14)
305.	Battery and container (Exide 6AC-7-1)	19 lbs. (-8) or (-18)
306.	Generator - air driven (Air Associates)	7 lbs. (+12)
307.	Wheel streamlines (Hill)	12 lbs. (+7)
308.	Cabin heater	2 lbs. (-17)
309.	Dual throttle	1 lb. * (-3)
310.	Dual brake pedals	2 lbs.* (-*)
311.	Engine ring cowl (with projections) (Model G only)	Net decrease 4 lbs. (-28)
312.	6x2.00 tail wheel and tire	7 lbs. (+161)

NOTE A. Prior to original certification, each aircraft must satisfactorily pass:

(a) An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied. All woodwork may be varnished.

(b) A final inspection of the completed aircraf

(c) A check of the flight characteristics.

NOTE 1. Eligible for export to all countries except Canada, Australia, Great Britain and New Zealand.

NOTE 2. Serial Nos. G-2, G-3 and G-4 were manufactured by Monocoupe Corp. under Approval No. 2-541. Serial No. G-1, manufactured by Monocoupe, also eligible with the following changes:

1.	Propeller (Max. permissible dia. 78 in.)	(-40)
	(a) Adj. metal	35 lbs.
	(b) Wood	22 lbs.
2.	Tail skid	
3.	Wheel streamlines	20 lbs.
4.	Seat location	(+28)
5.	Baggage	34 lbs.
6.	6.50-10 wheels and brakes (Eblert Hatch)	
7.	Exhaust collector ring	
8.	Carburetor air heater	

NOTE 3. Model GW airplanes must have elevator up travel restricted to 19° and aileron bell crank (part 13-9) installed restricting down aileron travel.

II - MODEL DART G DESIGNATION 2 PCLM

Engine	Lambert R-266
Placard limits	For all operations, 2375 rpm (90 hp)
Propeller	Maximum permissible diameter 80 in.
Baggage	40 lbs. (+37)
C.G. limits	(+16.2) and (+20.4)(Airplane level when left window sill is horizontal)
Serial Nos.	G-2 and up eligible per NOTE A (Also see NOTE 2)

III - MODEL DART GK DESIGNATION 2 PCLM:

Engine	LeBlond 90 5F
Placard limits	For all operations, 2250 rpm (90 hp)
Propeller	Maximum permissible diameter 80 in.
Baggage	40 lbs. (+37)
C.G. limits	(+16.2) and (+20.4) (Airplane level when left window sill is horizontal)
Serial Nos.	GK-8 and up eligible per NOTE A

IV - MODEL DART GW DESIGNATION 2 PCLM (See NOTE 3):

Engine	Warner Scarab Jr.
Placard limits	For all operations, 2025 rpm (90 hp)
Propeller	Maximum permissible diameter 78 in.
Baggage	None
C.G. limits	(+15.6) and (+17.6) (Airplane level when left window sill is horizontal)
Serial Nos.	GW-20 and up eligible per NOTE A

ARROW F, 2 PO-CLM, ATC 613

Engine	Arrow V-8 model F
Placard limits	Maximum, except take-off -- in. Hg., 3075 rpm (82 hp) Take-off (one minute) -- in. Hg., 3075 rpm (82 hp)
Placard speeds	Level flight or climb 100 mph True Ind. Glide or dive 135 mph True Ind.
Fuel capacity	20 gals. (One tank in fuselage)(+8)
Oil capacity	2 gals. (In engine sump)(-19)
Water capacity	7 gals. (58 lbs.)(+8)
No. passengers	1 (+33)
Baggage	28 lbs. (Aft of seat)(+52)
Standard weight	1675 lbs.
C.G. limits	(+14.3) and (+18.7)
Spec. basis	Approved Type Certificate No. 613
Serial Nos.	1 and up mfrd. prior to 11-22-40 eligible. Approval expired that date due to sale to State Securities Company, Lincoln, Nebraska. (See NOTE 1)

EQUIPMENT: (Datum is wing leading edge)(* Means net increase)

Class I:

101.	7.00-5 wheels with 7.00-5 4-ply tires		
102.	Tail skid		
103.	Auxiliary hand fuel pump	2 lbs.	
104.	Generator, mount, belt and pulleys	13 lbs.	
105.	Battery and box (In engine compt.)	11 lbs.	
106.	Radiator - Arrow F-614 Series	33 lbs.	(+3)
107.	Propeller - wood	18 lbs.	

Class II:

200.	Miscellaneous items as noted in approved weight and balance report.		

Class III:

301.	Radiator - Arrow F-613 or F-611B, 6 gal. capacity Net decrease	12 lbs.	(+3)
302.	Wheel streamlines	14 lbs.	(+1)
303.	Brakes (7.00-5 wheels - Hayes)	4 lbs.*	(+1)
304.	Tail wheel (a) 10x3	2 lbs.*	(+174)
	(b) 6x2.00	2 lbs.*	(+206)
	(c) 3½ in.	2 lbs.*	(+179)
305.	Parking brake	1 lb.	(+5)
306.	Hand engine starter	3 lbs.	(0)
307.	Winter enclosure with hinged or sliding hatch	10 lbs.	(+35)
	(Leading edge of stabilizer must be raised by inserting up to 1/2 inch of blocks and longer bolts at front fuselage fitting to obtain satisfactory longitudinal trim. The size of blocks installed to be substantiated by flight tests.)		
308.	Oleo type landing gear (Dwg.F-315A) (Item 310 must be installed)		
309.	Revised seat construction (Dwg. F-703B)		
310.	Large wing fillets and metal strut fairing (Dwg. F-1H)	11 lbs.	

NOTE 1. Serial Nos. 1 thru 53 must have wings revised to conform with approved gull type wings. All parts and instructions (dated 6-28-37) were forwarded owners by manufacturer.

NOTE 2. Eligible for export to all countries except Australia, Canada and Great Britain. (7-9-38)

ARROW AIRCRAFT AND MOTORS F, ATC 601

Spec. basis	Approved Type Certificate No. 601
Serial Nos.	All aircraft mfrd. prior to March 9, 1937 eligible. Approval expired as of that date.

Specifications as noted on Aircraft Specification No. 613, issued to Arrow Aircraft Corporation, apply in their entirety with the exceptions of Serial Nos. eligible.

ARROW AIRCRAFT AND MOTORS F, 2-531

Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	All aircraft manufactured between March 9, 1937 and July 1, 1940, eligible

Specifications as noted on Aircraft Specification No. 613, issued to Arrow Aircraft Corporation, apply in their entirety with the exceptions of serial Nos. eligible.

ARROW AIRCRAFT AND MOTORS SPORT, 2 POLB, ATC 115

Engine	Rearwin LeBlond 5D 65 hp or 5DE 70 hp
Fuel	16 gals.
Oil	3 gals.
No. pass.	1
Baggage	None
Standard weight	1270 lbs.
Spec. basis	Approved Type Certificate No. 115
Serial Nos.	300 to 369 and 401 eligible provided the new aileron control system stops are installed.

NOTE 1. Airworthiness certificate must include the following unless it has been satisfactorily demonstrated to an inspector of Civil Aeronautics that such notation is unnecessary: "INTENTIONAL ACROBATICS PROHIBITED." (See current Certificate and Inspection Division instruction)

ARROW AIRCRAFT AND MOTORS SPORT, 2 POLB, 2-110

Engine	Kinner K-5 100 hp
Propeller	Wood
Fuel	22 gals.
Oil	3 gals.
No. pass.	1
Baggage	30 lbs.
Standard weight	1529 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	412 to 436 eligible

BARKLEY-GROW T8P-1, 10 PCL-SM, ATC 662

Engines	2 P&W Wasp Jr. SB with one 4½ N and one 9 N damper each.
Fuel	80 min. oct; 87 min. oct. for take-off
Placard limits	Maximum, except take-off (Sea Level) 34.5 In.Hg.,2200 rpm (400 hp) (Straight line manifold pressure variation with altitude to 5000 ft.) 33.5 in.Hg.,2200 rpm (400 hp) Take-off (one mirute) 36.5 in.Hg.,2300 rpm (450 hp)
Placard speeds	Landplane Level flight or climb 209 mph True Ind. Glide or dive 270 mph True Ind. Flaps extended 117 mph True Ind. Seaplane Level flight or climb 193 mph True Ind. Glide or dive 248 mph True Ind. Flaps extended 117 mph True Ind.
Placard ceiling	Landplane - 0 ft. usable in standard air at 8750 lbs. with either engine inoperative and the inoperative propeller idling in high pitch Seaplane - 0 ft. usable in standard air at 9200 lbs. with either engine inoperative and the inoperative propeller idling in high pitch
Fuel capacity	156 gals. (Two tanks in each wing)
Oil capacity	16 gals. (Two tanks, 8 gals. each)(-163)
No. pass.	8 (2 at -15, 2 at -61, 2 at -94, 2 at -129)(Crew at -168) (See NOTE 1)
Baggage	430 lbs. (Nose compt. 250 lbs. (-228); aft of cabin compt. 180 lbs. (+21) (includes anchor and line 30 lbs. and and ladders 23 lbs. when carried))
Standard weight	Landplane 8750 lbs. (See NOTES 3 and 4) Seaplane 9200 lbs.
C.G. limits	Landplane (-137.2) and (-125.4) Seaplane (-137.3) and (-127.2) MAC = 91.42 in. L.E. MAC (-154.4)
Spec. basis	Approved Type Certificate No. 662
Serial Nos.	1 and up mfrd. prior to 10-25-40 eligible. Approval expired that date due to sale to Vultee Aircraft, Inc. (now Consolidated-Vultee)

EQUIPMENT: (Datum is front face of the rear cabin bulkhead)(* Means net increase)(See NOTE 6)

Class I:

(a) Landplane

101. Two engine ring cowls	51 lbs.	(-204)
102. Two exhaust collector rings (incl. carburetor heaters)	110 lbs.	(-191)
103. Two oil radiators (UAP 5")	21 lbs.	(-166)
104. Two starters (Eclipse E-160)	71 lbs.	(-184)
105. Generator (Eclipse D) 25 amp.	22 lbs.	(-191)
106. Battery (Exide or Electric 6-XT-13-1)	65 lbs.	(-219)
107. 30x13-6 wheels (Goodyear 6HBM) with 6 ply heavy duty tires (27½ lbs. air pressure) (Wheels must be placarded for this tire and pressure)	148 lbs.	(-153)
108. 13.25 in. streamline tail wheel and 6 ply heavy duty tire (40 lbs. air pressure)(Wheel must be placarded for this tire and pressure)	8 lbs.	(+136)
109. Shock struts (Aerol SP-325 BG)	65 lbs.	(-153)
110. Tail wheel shock strut (Warner Aero BG Dwg. No. B-1200)	12 lbs.	(+134)
111. Cabin heaters	20 lbs.	(-143)
112. Flap control motor (Elec. Spec. HCA-2 .65 hp)	10 lbs.	(-74)
113. Wheel fairings	47 lbs.	(-153)
114. Two propellers - Ham. Std. hubs 2D30, blades 6167A-6 to 6167A-8 incl. Wt. 2 propellers	316 lbs.	(-219)
or 6101A-12 to 6101A-14 incl. Wt. 2 propellers Dia. 9'1/8"max., 8'9-3/4" min.	326 lbs.	(-219)
115. Residual fuel and oil	13 lbs.	(-140)

BARKLEY-GROW T8P-1 (Continued)

(b) Seaplane: Items 101 to 106, incl., 111, 112, 114 and 115 PLUS

151. Edo 66-9225A float installation (incl. water rudders, struts and fairings)	1162 lbs.	(-130)
152. Seaplane fittings	42 lbs.	(-107)
153. Auxiliary fin (Dwg. Y-160)	6 lbs.	(+136)

Class II:

200. Miscellaneous items as noted in approved weight and balance report		
201. Constant speed propeller controls installation	13 lbs.	(-192)
202. Exhaust analyzer (Cambridge)	11 lbs.	(-175)
203. Vacuum pumps (2) (Pesco Type B-A-1)	16 lbs.	(-194)
204. Radio, variable. Structure has been substantiated as follows:		
(a) In nose compt.	57 lbs.	(-230)
(b) On floor under pilots' chair	40 lbs.	(-168)
(c) On floor under co-pilot's chair	40 lbs.	(-168)
(d) On fuselage roof	10 lbs.	(-123)
(e) On instrument panel (controls)	17 lbs.	(-196)
(f) Twin antenna	11 lbs.	(-32)
(g) Single antenna	10 lbs.	(-123)
(h) Bonding	26 lbs.	
205. Miscellaneous instruments	10 lbs.	(-198)
206. Two flares and brackets (3 Min.)	50 lbs.	(+42)or(-217)
207. Two landing lights (A & W, type A-7) and passing light	3 lbs.	(-161)or(-253)
208. Pressure fire extinguisher (Richlux CO_2 - 7½ lb. charge)	29 lbs.	(-216)
209. Toilet equipment	30 lbs.	(-5)
210. Radio shielding	28 lbs.	(-196)
211. 30 gal. nacelle fuel tank (1 or 2)	21 lbs. ea.	(-133)
212. Two oil radiators (UAP 6")	5 lbs.*	(-166)
213. Battery (Exide 6FHM-13)	11 lbs.*	(-219)
214. Three place divan	74 lbs.	(-104)
215. Rear partition and doors	25 lbs.	(-46)
216. Closet (clothing)	8 lbs.	(-24)
217. Food compartment	34 lbs.	(-57)

Class III:

301. Shock struts		
(a) Clev. Pneu. Tool Co. No. 7881	14 lbs.*	(-153)
(b) Clev. Pneu. Tool Co. No. 7887	32 lbs.*	(-153)
302. Pilots compt. hatch (Dwg. 2-F-064)	3 lbs.*	(-221)

NOTE 1. Serial Nos. 1 and 2 are eligible as 8-place aircraft only. Placard lavatory door for these serial Nos., "Not to be occupied during take-off or landing", unless otherwise substantiated by pertinent weight and balance report.

NOTE 2. Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook: (10-25-40)

(a) Canada - Landplane

Skiplane - not eligible. However, structure of serial Nos. 3 and up complies with Canadian ski gear requirements when modified in accordance with Dwg. LX-1731-D. Serial Nos. 4 and up incorporate these modifications. Cleveland shock strut No. 7881 (item 301a) must be used with roll-on type skis and No. 7887 (item 301b) must be used with streamline type.

Seaplane - maximum standard weight 9200 lbs.

(b) All other countries except Australia and Great Britain.

NOTE 3. Serial No. 1 eligible as landplane only at 8250 lbs. standard weight with the following:

(a) Split flap under fuselage.
(b) Certain castings of aluminum alloy instead of magnesium alloy.
(c) Adjustable trim tabs on both rudders.
(d) C.G. limits (-137.2) and (-123.4).

NOTE 4. Serial No. 2 eligible as landplane only at 8250 lbs. standard weight. (C.G. limits (-137.2) and (-123.4))

Serial Nos. 2 and up may have extensions on rudder and right aileron adjustable trim tabs.

NOTE 5. Placard one wing tank filler neck or cap: "87 minimum octane fuel only." Placard fuel tank selector valve to use this tank for take-off and landing.

NOTE 6. Weight and balance report including list of equipment included in certificated weight empty, and loading instructions when necessary, must be submitted for each aircraft with original inspector's report and each subsequent report covering change in such equipment.

BARLING B-6, 6 PCLM, 2-410

Engine	Continental A-70 165 hp
Propeller	Wood
Fuel	30 gals.
Oil	3 gals.
No. pass.	6
Baggage	80 lbs.
Standard weight	7653 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	A-1 only eligible
Class I equipment:	3 dry cells 10 lbs.; Heywood starter; 25x11-4 wheels.

BARNARD NEW STANDARD D-29-A, 2 POLE, ATC 216

Engine	Kinner K-5 100 hp
Propeller	Adj. metal
Fuel	22 gals.
Oil	3 gals.
No. pass.	1
Baggage	60 lbs. incl. tools 20 lbs. (Pay load includes 2 parachutes 20 lbs. each)
Standard weight	1790 lbs.
Spec. basis	Approved Type Certificate No. 216
Serial Nos.	1001 and up mfrd. prior to 6-1-35 eligible. Approval expired as of that date.

BARNARD NEW STANDARD D-29-S, 2 POLE, 2-272

Engine	Kinner K-5 100 hp
Fuel	27 gals.
Oil	3 gals.
No. pass.	1
Baggage	64 lbs.
Standard weight	1839 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	1020 only eligible

BARNARD NEW STANDARD D-31, 2 POLE, 2-276

Engine	Kinner B-5 125 hp
Fuel	38 gals.
Oil	3 gals.
No. pass.	1
Baggage	19 lbs.
Standard weight	1850 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	1006 and 1025 eligible (See NOTE 1)
NOTE 1. Serial No. 1033 eligible with the following:	
Fuel	22 gals.
Standard weight	1772 lbs.

BARNARD NEW STANDARD D-32, 2 POLE, 2-382

Engine	Wright R-540 175 hp
Fuel	27½ gals.
Oil	4 gals.
No. pass.	1
Baggage	50 lbs.
Standard weight	2111 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	3000 only eligible
Class I equipment:	Starter; Airwheels; Adj. metal prop.

BARNARD NEW STANDARD D-33, 3 POLE, 2-327

Engine	Kinner B-5 125 hp
Fuel	30 gals.
Oil	3 gals.
No. pass.	2
Baggage	30 lbs. (Pay load includes 3 parachutes 20 lbs. each)
Standard weight	2140 lbs.
Spec. basis	Aero. Bulletin 7A, Section 3
Serial Nos.	33-1, 33-2 and 33-3 only eligible.

BEECHCRAFT B17E, 5 PCLS, ATC 566

Engine	Wright E760E-1
Placard limits	Maximum, except take-off — in. Hg., 2100 rpm (285 hp)
	Take-off (one minute) — in. Hg., 2100 rpm (285 hp)
Propeller	Diameter - not more than 102 in. not less than 96 in.
Placard speeds	Level flight or climb 206 mph
	Glide or dive 225 mph
	Flaps extended 100 mph
Fuel	70 gals. (Two tanks: Fuselage front 28 gals. (+32) and fuselage rear 42 gals. (+55))
Oil	6 gals. (-13)
No. pass.	4 Maximum Front (+19) and rear (+60.5)
Baggage	125 lbs. (Maximum) (+86) (See NOTE 3)
Standard weight	3615 lbs.
C.G. limits	(+16.6 in.) and (+29 in.)
Spec. basis	Approved Type Certificate No. 566
Serial Nos.	B17E-22 and up mfrd. prior to 9-30-39 eligible. Approval expired as of that date.

EQUIPMENT: (Datum is the leading edge of lower wing)
(* Means net increase)

Class I:

101. Engine ring cowl 30 lbs.
102. Battery (Exide 6TS-13-1) under baggage compt. 36 lbs.
103. Starter 25 lbs.
104. Generator 15 lbs.
105. Control column (Swing-over type) 11 lbs. (+6)
106. 24 inch streamline wheels (Hayes ATC 23) with heavy duty tires. Wheels must be placarded for these tires.
107. 10x3 tail wheel
108. Propeller - fixed metal (Curtiss 55501) 55 lbs. (-51.5)
109. Oil radiator (Harrison)

Class II:

200. Miscellaneous items as noted in approved weight and balance report.
201. Miscellaneous extra instruments.
202. Propeller - fixed metal (Curtiss 55503) 32 lbs.*
203. Propeller - Controllable metal
(a) Ham. Std. hub 2D20 and blades 6101 or 6095
(b) Ham. Std. hub 2B20 and blades 6109
204. Camera installation (Dwgs. B17E015, B17E016, and B17E902). Camera and viewfinder 110 lbs. (+51); operator's stool 4 lbs. (+65); 25 gal. fuel tank in baggage compt. 15 lbs. (+86). Remove: Rear seat 31 lbs. (+62); Cover plates for camera and viewfinder 3 lbs. (+51) and rear fuselage fuel tank (+55)
205. Landing lights
(a) Under lower wing (Grimes) 3.5 lbs. ea. (+18)
(b) In wheel well (Hall) 3.5 lbs. ea. (+37)
(c)(S & M) Use actual weight
206. Flares (Dwg. No. I-17004)
207. Radio, variable (location and actual weight of installation including controls, etc., or name of manufacturer and model if already installed and included in the empty weight should be noted on inspection report.) (Dwg. I-17002 shows approved locations)
208. Shielding (a) (Breeze) 15 lbs.
(b) (Packard) 10 lbs.
209. Extra door on right side 6 lbs.*
210. Extra fuel tanks in wings 23 gals. or 25 gals. each, upper (+45.5) and lower (+24), 20 lbs. each.
211. Oil tank installation
(a) 7.5 gal. (-13)
(b) 8.5 gal. (-13)
(c) 7.25 gal. (-13)
212. Generator (Eclipse 25 amp.) 20 lbs.

BEECHCRAFT B17E (CONTINUED)

213. Golf bag compartment (Dwg. I-17006). In bay aft of, and opens into, baggage compartment. Maximum capacity 70 lbs. golf bag and clubs only.
214. Parachutes or parachute type chairs.
215. Seaplane corrosion protection 20 lbs.
216. Pressure fire extinguisher (Dwg. I-17001) (Container at +14)
217. Metal tank cover (Dwg. I-17003)
218. Camera well (Dwg. I-17006)
219. Ballast installation Maximum 25 lbs. (+210)
220. Special tool compartment in tail 25 lbs. including tools (+218)

Class III:

301. 6.50-10 or 7.50-10 wheels (Hayes ATC 10. Wheels must be approved for at least 1800 lbs. per wheel) with 7.50-10 six ply tires 75 lbs. (Wheels must be placarded for these tires)
302. Puncture proof tubes (a) 7.50-10 8 lbs.*
(b) 24 inch streamline 5 lbs.*
303. Tail wheel steering device. No change in weights.
304. Electric motor and installation for auxiliary to manually operated retracting gear (25 amp. fuse required) 8 lbs.*
305. Control column ("T" type) No weight change

NOTE 1. The following placards were required in some instances:
(a) At the fuel valve: "USE MAIN FUSELAGE TANKS FOR TAKE-OFF AND LANDINGS. USE FUEL OUT OF AUXILIARY LOWER WING TANKS BEFORE EMPTYING MAIN TANKS."
(b) At rear fuselage fuel tank: "AS 4 PLACE 42 GALS., AS 5 PLACE 22 GALS."
(c) Baggage placarded to 75 lbs.
Similar instructions must be placed on subsequent airplanes when the actual weight and balance report is based on any but the most adverse (from balance standpoint) use of the fuel. Inspector's report and actual weight and balance report should specify restrictions applicable.

NOTE 2. Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook: (January 21, 1935)
(a) Canada - Landplane
Skiplane - not eligible.
(b) All other countries except Australia.

NOTE 3. Five place type must be placarded for 75 lbs. when 3 passengers occupy rear seat unless more is substantiated in actual weight and balance report.

BEECHCRAFT B17L, SB17L, B17B, ATC 560

I - SPECIFICATIONS PERTINENT TO ALL MODELS:

Placard speeds

Landplane	Level flight or climb	170 mph Ind.
	Glide or dive	225 mph Ind.
	Flaps extended	115 mph Ind.
Seaplane	Level flight or climb	150 mph Ind.
	Glide or dive	225 mph Ind.
	Flaps extended	100 mph Ind.
Fuel	50 gals. (Two tanks in upper wings at 25 gals. each) (+45.5)	
Oil	5 gals. (-13)	
No. passengers	4 maximum (Front +19, rear +60.5) (See NOTE 3)	
Standard weight	Landplane 3165 lbs.	
	Seaplane 3525 lbs.	
C.G. limits	Landplane (For serial Nos. 3 thru 25) (+16.6) and (+30.3) (For serial Nos. 26 and up) (+16.6) and (+29.4)	
	Seaplane (+19.4) and (+29.7)	
Spec. basis	Approved Type Certificate No. 560	
Serial Nos.	Landplane 3 and up mfrd. prior to 9-30-39 eligible.	
	Seaplane 40, 43 and up mfrd. prior to 9-30-39 eligible.	
	Approval of both expired as of 9-30-39	

EQUIPMENT: (Datum is leading edge of lower wing) (* Means net increase)

Class I:

A. Landplane (B17L and B17B)

101. Engine ring cowl	30 lbs.
102. Battery (under floor in front of rear seat)	17 lbs.
103. Starter (Electric or Heywood)	25 lbs.
104. Generator	10 lbs.
105. Heater	3 lbs.
106. 24 in. streamline wheels (with 4 or 6 ply tires)	
107. 10x3 tail wheel	10 lbs.
108. Propeller	
(a) Wooden - fixed or adj. pitch (for model B17L)	45 lbs.
(b) Fixed metal (for model B17B)	

B. Seaplane (SB17L): Items 101, 105, 104, 106, 108 (a) PLUS

151. Edo 38-3430 float installation	452 lbs.
152. Battery (under floor in front of rear seat)	36 lbs.

Class II.

200. Misc. items as noted in approved weight and balance report.

201. Golf bag compartment (Dwg. I-17006) (In bay of, and opens into, baggage compt.) (Maximum capacity 70 lbs. golf bag and clubs only.)

202. Ballast installation maximum 25 lbs. (+210)

203. Camera installation (Dwgs. B17E015, B17E016 and B17E902):
Camera and viewfinder 110 lbs. (+51); operator's stool 4 lbs. (+65); 25 gal. fuel tank in baggage compt. 15 lbs. (+86)
Remove: Rear seat 31 lbs. (+62); cover plates for camera and viewfinder 3 lbs. (+51) and rear fuselage fuel tank (+55)

Class III.

301. Radio, variable (location and actual weight of installation including controls, etc., or name of manufacturer and model if already installed and included in empty weight should be noted on Inspector's report.) (Dwg. I-17002 shows approved locations.) Manufacturer has substantiated 30 lbs. installed between limits of instrument board and baggage compt. so far as balance is concerned. Any additional must be substantiated by weight and balance.

302. Landing lights

(a) Under lower wing (Grimes)	3.5 lbs. ea.(+18)
(b) In wheel well (Hall)	3.6 lbs. ea.(+37)

303. Battery

(a) Under floor in front of rear seat	25 lbs. or 36 lbs.
(b) In first bay aft of baggage compt.	36 lbs.

304. Extra door	6 lbs.
305. Flares - three 1-1/2 min.	18 lbs. (+79)
306. Shielding (a)(Breese)	15 lbs.
(b)(Packard)	10 lbs.
307. Misc. extra instruments	
308. 6.50-10 or 7.50-10 wheels (Warner) with 7.50-10 (4 or 6 ply tires)	
309. Propeller - fixed metal (Curtiss 55501) (Large size elevator must be installed and so noted on inspector's report. Distance from hinge centerline to elevator trailing edge increased from 18 in. to 20 in.)	56 lbs.
310. Propeller - controllable metal (Lycoming Smith P-220 hub and Pittsburgh B50080 blades) (Large size elevator must be installed and so noted on Inspector's report. Item 22(b) must be installed also unless C.G. check is made.)	127 lbs.
311. One or two extra 20, 23 or 25 gal. fuel tanks in lower wings (+24) and one 20 gal. tank in fuselage (+50)	20 lbs. each
The 25 gal. tanks in upper wings may be replaced with 20 or 23 gal. tanks with no change in weight.	
312. 6,7,5 or 8.5 gal. oil capacity	
313. Electric motor and installation for aux. to manually operated retracting gear (25 amp. fuse required)	8 lbs.
314. Tail wheel steering device	No change in weight
315. Parachute seats	
316. "T" type or "throw-over" type controls	
317. Pressure fire ext. (Dwg. I-17001) (Container at +14)	
318. Metal tank cover (Dwg. I-17003)	
319. Camera well (Dwg. I-17005)	

NOTE 1. Serial Nos. B17L-3 to B17L-21, incl., may have aluminum firewalls at first fuselage bulkhead and must have original insulating material forward of this point removed. This material may be replaced by asbestos.
Serial Nos. B-17L-22 and up must have firewalls at first fuselage bulkhead conforming to Aero. Bulletin 7-A (as of 10-1-34), and may have asbestos insulating material forward of this point.

NOTE 2. Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook: (August 27, 1937)
(a) Canada - Landplane
Skiplane - not eligible
Seaplane - maximum standard weight 3430 lbs.
(b) Australia - Landplane only
(c) All other countries.

NOTE 3. Five place type must be placarded for 75 lbs. baggage when 3 passengers occupy rear seat unless more is substantiated by C.G. check.

II - MODEL B17L, 5 PCLB:

Engine	Jacobs L-4
Placard limits	Maximum, except take-off — in.Hg., 2000 rpm (225 hp)
	Take-off (one minute) — in.Hg., 2000 rpm (225 hp)

III - MODEL SB17L, 5 PCSB:

Engine	Jacobs L-4
Placard limits	Maximum, except take-off — in. Hg., 2000 rpm (225 hp)
	Take-off (one minute) — in.Hg., 2000 rpm (225 hp)

IV - MODEL B17B, 5 PCLB:

Engine	Jacobs L-6
Placard limits	Maximum, except take-off 22.5 in.Hg., 1950 rpm (225 hp)
	Take-off (one minute) — in. Hg., 2000 rpm (285 hp)