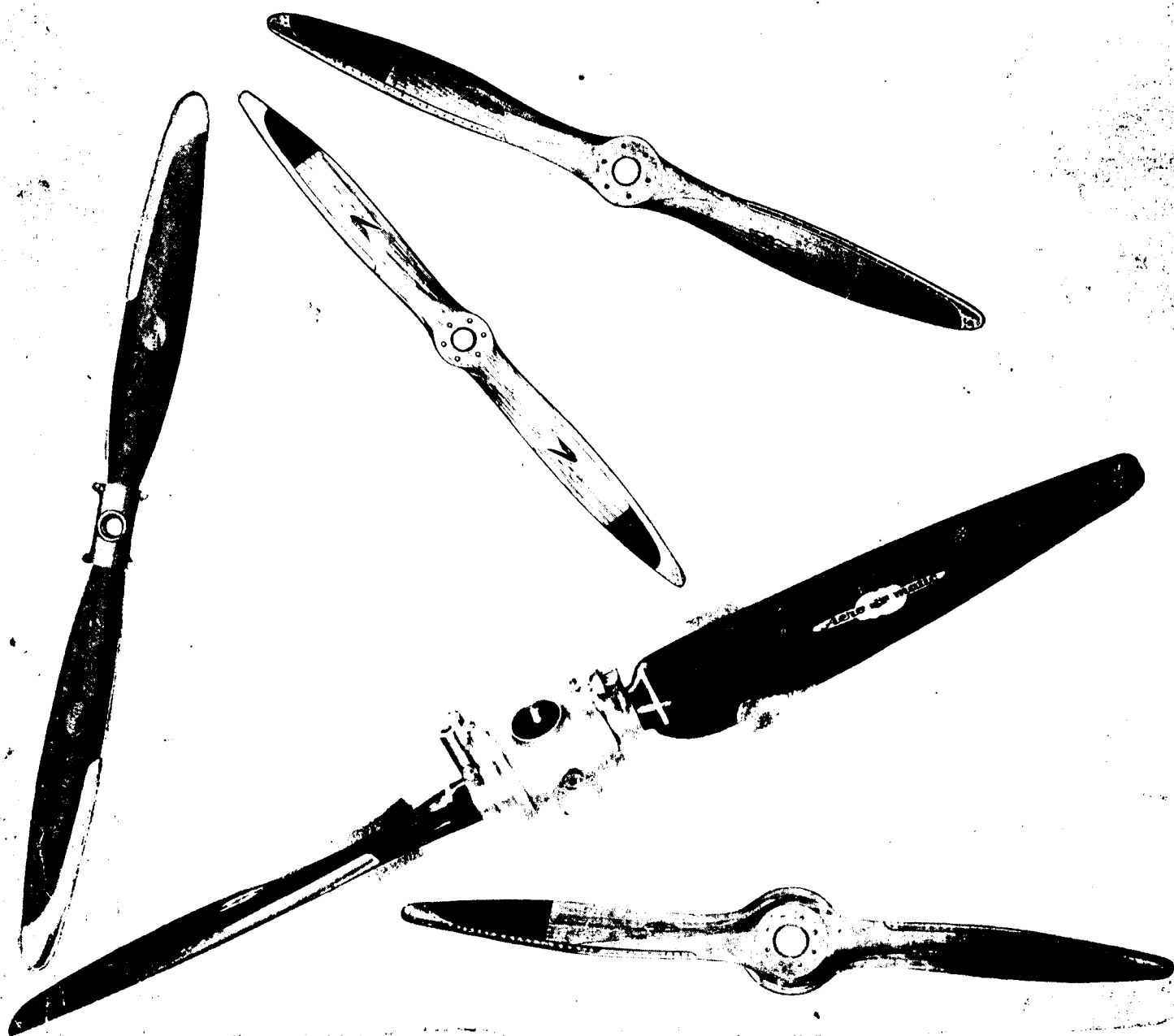


LASHER'S APPROVED PROPELLER INSTALLATION REFERENCE BOOK



INTRODUCTION

This handbook is compiled to provide a complete handy reference for 1060 propellers and their approved airplane and engine installations applicable to private and business airplanes up to 265 horse power.

The book is intended primarily for private owners, pilots, sales and repair agencies as an aid in aircraft maintenance and proper selection of propeller/engine/airplane combination. Questions regarding special problems, suggestions and recommendations toward the improvement of this book will be welcomed by the publisher. The cooperation of the following companies assisted in the compilation of this book: McCauley Industrial Corp., Sensenich Corp, Universal Aircraft Industries.

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STATEMENT OF POLICY

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190 E. 45 Street
Hialeah, Florida

AEROMATIC

<u>AIRPLANE</u>	<u>HP</u>	<u>HUB MODEL</u>	<u>PROPELLER ASSY. NO.</u>	<u>BLADE MODEL</u>	<u>CODE</u>
Aeronca 7AC, 11AC, S7AC, S11AC	65	F200	4324-1	00-72D or F	
Aeronca 15AC	145	F200	4336-1	00-73E or F	
Aeronca 15AC	145	F200	4389-1	00-74E	
Bellanca 14-13	150	F200	4256-1	00-74A	
Bellanca 14-13	150	F200	4275-1	00-74B or C	
Bellanca 14-13 with Hi-Cruise	150	F200H	4275H-1	00-74B or C	
Cessna 120, 140	85	F200	4312-1	00-73E or F	1
Cessna 120, 140	90	F200	4340-1	00-73E or F	
Cessna 170A with Hi-Cruise	145	F200H	4356H-1	00-74E	
Commonwealth 185	85	F200	4306-1	00-74C	
Ercoupe 415C, CD	75	F200	4305-1	00-73E or F	
Ercoupe E, G	85	F200	4305A-1	00-73E or F	
Goodyear GA-2	145	F200	4280-1	00-78BL	
Goodyear GA-2B	165	F200	4378-1	00-76BL	
Jamieson J-1 with HiCruise	115	F200H	4386H-1	00-74E	
Meyers MAC-125C	125	F200	4290-1	00-74E	
Monocoupe 90AF-100	100	F200	4283-1	00-74E	
Piper J3-C	85	F200	4369-1	00-72D or F	
Piper PA-11	90	F200	4348-1	00-73E or F	
Piper PA-12, -12S	100	F200	4292-1	00-74E	
Piper J5-C	104	F200	4330-1	00-74E	
Piper PA-12, PA-14 with Hi-Cruise	115	F200H	4292A-1	00-74E	
Piper PA-16	115	F200	4368-1	00-73E or F	2
Piper PA-16 with Hi-Cruise	115	F200H	4292AH-1	00-74E	2
Piper PA-18, PA-19	90	F200	4348-1	00-73E	
Piper PA-20 with Hi-Cruise	115	F200H	4292AH-1	00-74E	
Piper PA-20 with Hi-Cruise	125	F200H	4394H-1	00-74E	
Piper PA-22 with Hi-Cruise	125	F200H	4394H-1	00-74E	
Swift GC-1A	85	F200	4279-1	00-72D or F	
Swift GC-1A	85	F200	4242-1	00-72C	
Swift GC-1B	125	F200	4277-1	00-73E or F	
Swift GC-1B	125	F200	4261-1	00-73D	
Stinson 108, 108-1	150	F200	4243-1	00-76B	
Stinson 108, 108-1	150	F200	4296-1	00-76B	3
Stinson 108-2, 108-3	165	F200	4320-1	00-76B	4
Stinson 108-2, 108-3 with Hi-Cruise	165	F200H	4320H-1	00-76B	4
Temco TE-1A with Hi-Cruise	145	F200H	4383H-1	00-74E	
Temco TE-1A with Hi-Cruise	165	F200H	4396H-1	00-74E	
Aero Design L-3805	190	220	4350	0-82A	
Bellanca 14-19 with Hi-Cruise	190	220-1	4329-1	0-78A	
Cessna Airmaster C-145	145	220	4397	0-85	
Cessna Airmaster C-165	165	220	4347	0-85	
Fairchild 24W-41A, -46	165	220	4293	0-85	
Fairchild 24R-46	175	220	4321	0-85	5
Fairchild 24W-9, -40, -41	145	220	4319	0-85	
Grumman G-44, G-44A	200	220	4300	0-82A, 0-82AS	
Johnson 185	190	220	4236	0-78	
Monocoupe - Clipwing	185	220	4295	0-86A	

NOTE: 1. Hi-Cruise control available as optional equipment on both Models F200 and 220.

NOTE: 2. Extra heavy blade tipping available for seaplane or amphibian installations.

AEROMATIC — CONTINUED

<u>AIRPLANE</u>	<u>HP</u>	<u>HUB MODEL</u>	<u>PROPELLER ASSY. NO.</u>	<u>BLADE MODEL</u>	<u>CODE</u>
Ryan Navion - Hi-Cruise Optional	185	220,-1	4259,-1	0-85	6
Ryan Navion - Hi-Cruise Optional	205	220,-1	4259A,A1	0-85	
Ryan "Super 260"	260	220H	4373H	0-93	
Stinson L-5	190	220	4308	0-85	

NOTE: 1. Hi-Cruise control available as optional equipment on both Models F200 and 220.

NOTE: 2. Extra heavy blade tipping available for seaplane or amphibian installations.

CODE: 1. Modification necessary to engine cowling 1948 models only. See Aeromatic drawing 3323 furnished with propellers.

2. Requires Piper Aircraft part numbers 12833-00, 12826-00, 12832-00, 80002-09, and 7511-09.

3. 5" diameter bolt circle on mounting flange.

4. Requires under cylinder cooling baffles furnished by Aeromatic part No. 4086.

5. Requires extra aircraft parts from Aeronautical Division of Arkwin Corporation, Strother Field, Winfield, Kansas or through Aeromatic. Their part No. 48734.

6. Requires extra aircraft parts from Ryan factory, if not available through Ryan distributors.

FOREIGN AIRCRAFT

<u>AIRPLANE</u>	<u>HP</u>	<u>HUB MODEL</u>	<u>PROPELLER ASSY. NO.</u>	<u>BLADE MODEL</u>
Aeronautica Macchi MB-308 (Italy)	90	F200	4392-1	00-73E
Aeronautica Macchi MB-320 (Italy)	185	220	4370	0-85
Auster "Autocrat" J5(Australia)	120	F200	4375-1	00-76BL
Auster Mark V(England)	125	F200	4277-1	00-73E
Desford Trainer (England)	136	F200	4376-1	00-76BL
Fokker F-25 (Holland)	190	220	4289	0-86AL
Fokker S-11 (Holland)	190	220	4339	0-85
Karhu 48 (Finland)	190	220	4272	0-82
L'Aronautique S-90 (France)	85	F200	4313-1	00-68E
Lark KZ-VII (Denmark)	125	F200	4307-1	00-74E
Nord 1200 (France)	125	F200	4318-1	00-73E
Piaggio Model P-136 (Italy)	215	220	4360	0-82LS
Pilatus P-4 (Switzerland)	190	220	4308	0-85
SAAB 91 (Sweden)	190	220	4294	0-82
Iberavia I-11(Spain)	90	F200	4340-1	00-73E

BEECH ROBEY**CONTINENTAL POWERED AIRPLANES****65HP TO 100HP**

<u>AIRPLANE</u>	<u>H.P.</u>	<u>AIRPLANE</u>	<u>H.P.</u>
Aeronca 7AC Series	65	Luscombe 8D	75
Aeronca 7EC Series *	85	Mooney M18C,M18C55	65
Cessna 120	85-90	Mooney **	85
Cessna 140,140A	90	Piper J3	65
Culver V	85	Piper J4A	65
Culver LCA **	85	Piper J5A	75
Ercoupe 415 C	65-75	Stinson 10	75-80
Ercoupe E-G	85	Superior Satellite	90
Luscombe 8E	65	Swift GCLA	85
Luscombe 8C	75	Taylorcraft BC	65

Note 1: Model R003 Propeller applicable to all airplanes listed.
Flange shaft requires flange adapter.

* STC Approval

** ACA 337 Approval

FLOTORP

FIXED PITCHWOOD/ PLASTIC COATED

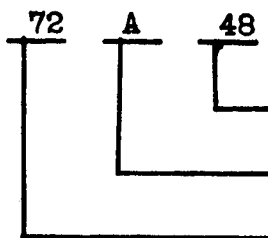
<u>AIRPLANE</u>	<u>MODEL</u>	<u>ENGINE</u>	<u>HP</u>	<u>RECOMMENDED PROPELLER</u>
Aeronca	65C, 65CA, 65TC, 65TAC, O-58, L-3, 7AC, 11AC	Continental A65	65	72A48, 72A50
Aeronca	S-65C, S65CA, S7AC	Continental A65	65	74A46
Aeronca	S11AC	Continental A65	65	72A46, 72A48
Aeronca	65LA, 65LB, 65TL 65TAL	Lycoming O-145-B	65	69L42, 69L44
Aeronca	65TF, 65TFA	Franklin 4AC-176-B	65	72K48, 72K50
Aeronca	11BC	Continental C85	85	72A46, 72A48
Aeronca	7DC, S7DC, 7BCM, 11CC, S11BC, S11CC	Continental C85	85	72A44, 72A46
Aeronca	7CCM, S7CCM, 7EC,	Continental C90	90	72A50, 72A52
Aeronca	15AC	Continental C145	145	74C50, 74C52
Bellanca	14-13	Franklin 6A4-150-B3	150	74C66, 74C68
Cessna	120, 140	Continental C85	85	74A48, 74A50
Cessna	120, 140	Continental C90	90	74A48, 74A50
Cessna	170	Continental C145	145	74C56
Commonwealth	185	Continental C85	85	74A48
Culver Cadet	LCA	Continental A75	75	69A54
Culver Cadet	LFA	Franklin 4AC-199-E	80-90	70KA52, 70KA54
Ercoupe	415C	Continental A65	65	72A50
Ercoupe	415C, 415D	Continental C75	75	74A51
Ercoupe	E	Continental C85	85	74A50
Interstate	S1A	Continental A65	65	72A48, 72A50
Interstate	S1A65F	Franklin 4AC-176-B	65	72K50
Luscombe	8A	Continental A65	65	74A48, 74A50
Luscombe	8A Seaplane	Continental A65	65	74A46
Luscombe	8B	Lycoming O-145-B	65	69L44, 69L46
Luscombe	8C, 8D	Continental A75	75	69A50
Luscombe	8E	Continental C85	85	72A48, 72A50
Luscombe	8F	Continental C90	90	72A52
Mooney	M18L	Lycoming O-145-B2	65	63L60
Mooney	M18C	Continental A65	65	65A64, 65A66
Piper	J3C65, PA11	Continental A65	65	72A48
Piper	J3C65S	Continental A65	65	74A46
Piper	J4A, PA17	Continental A65	65	72A48, 72A50
Piper	J3C65, Duster	Continental A65	65	72A44, 72A46
Piper	J3L65, J4F	Lycoming O-145-B	65	69L42, 69L44
Piper	PA15	Lycoming O-145-B	65	69L44, 69L46
Piper	J3F65	Franklin 4AC-176-B	65	72K48
Piper	J3C75 Duster	Continental A75	75	69A46
Piper	J3C85 Duster	Continental C85	85	72A42, 72A44
Piper	J4E, J5A	Continental A75	75	72A46
Piper	PA11, PA18, PA19	Continental C90	90	72A50, 72A52
Piper	J5C, AE1, HE1	Lycoming O-235	100	74B48, 74B50
Piper	PA12	Lycoming O-235-C	100	74B48, 74B50
Piper	PA12	Lycoming O-235-C1	108	74B50, 74B52
Piper	PA14, PA16	Lycoming O-235-C1	108	73B52, 73B54
Piper	PA18, PA19	Lycoming O-235-C1	108	74B48, 74B50

FLOTTORP - CONTINUED

<u>AIRPLANE</u>	<u>MODEL</u>	<u>ENGINE</u>	<u>HP</u>	<u>RECOMMENDED PROPELLER</u>
Piper	PA20	Lycoming O-235-C1	108	73B52, 73B54
Piper	PA20	Lycoming O-290-D	125	73B58
Porterfield	CP65	Continental A65	65	72A48, 72A50
Porterfield	LP65	Lycoming O-145-B	65	69L44
Porterfield	FP65	Franklin 4AC-176-B	65	72K48, 72K50
Porterfield	75C	Continental A75	75	72A46
Stinson	10A	Franklin 4AC-199-E	90	72KA48, 72KA49
Stinson	108	Franklin 6A4-151-B31	150	76HC55, 76HC57
Stinson	108, 108-1	Franklin 6A4-150-B3	150	76CC55, 76CC57
Stinson	108, 108-1			
	Seaplane	Franklin 6A4-150-B3	150	76CC51, 76CC53
Stinson	108-2, 108-3	Franklin 6A4-165-B3	165	76CC53, 76CC55
Stinson	108-2, 108-3			
	Seaplane	Franklin 6A4-165-B3	165	76CC51, 76CC53
Taylorcraft	BC65, BC1265, BC12D, BC12D1, DC65, L-2, DC0-65	Continental A65	65	72A48, 72A50
Taylorcraft	BCS65, BCS1265, BCS12D, BCS12D1	Continental A65	65	72A46
Taylorcraft	BF65, BF1265, DF65	Franklin 4AC-176-B	65	72K48, 72K50
Taylorcraft	BL65, BL1265, DL65	Lycoming O-145-B	65	69L44, 69L46
Taylorcraft	BC12D85	Continental C85	85	72A46, 72A48

NOTE: 1. All models equipped with stainless steel tipping, available in Plastic Armor coating or natural varnish finish.

2. Where 2 models are listed --- Lower Pitch is for Best Take-Off and Climb Performance. Higher Pitch is for best Cruise Performance.



PROPELLER DESIGNATION:

Effective Pitch.

Designates hub drilling.

First two numbers indicate diameter of propeller.

HARTZELL**WOOD FIXED/PITCH**

<u>AIRCRAFT</u>	<u>ENGINE</u>	<u>H.P.</u>	<u>HARTZELL PROP/BLADE</u>
Aero Commander	Lyc.-G0-435	260	* HC-82X20-2B/9333C-3
Aero Commander	Lyc.-G0-480	280	* HC-82X20-2B/9333C-3
Aero Commander	Lyc.-G0-480	275	* HC-83X20-2C/8433
Aero Commander	Lyc.-GSO-480-A1A6	340	* HC-83X20-2C/9333C
Aero Commander	Lyc.-G0-480	295	* HC-83X20-2C/8833-2
Aero Commander	Lyc.-G0-480-F6	270	HC-83XF-3A/8433
Beech B-50	Lyc.-G0-435-C2B	260	* HC-83X20-2C/9333C-3
Beech Mod.18	P and W R-985	450	* HC-B3Z30-2D/10152-5 1/2
Beech E-18	P and W R-985	450	* HC-B3Z30-2D/10160-6
Beech C-50	Lyc.-G0-480-F6	270	* HC-83X20-2C/9333C-3
Beech E-50	Lyc.-GSO-480-A1A6	340	* HC-93Z20-2C1/10151-8
Beech Bonanza	Cont.-E-185-225	185-225	HC-12X20-7D/8433
Beech Travel Air	Lyc.-0-360-A1B	180	HC-92ZK-2B/8447-12A
Bellanca	Lyc.-0-435	190	HC-12X20-8D/8433-6
Bellanca			
(Northern A/C)	Cont.-0-470-L	230	BHC-A2XF-1A/8433S-6
Cessna 180 Series	Cont.-0-470-K, L	230	BHC-A2XF-1A/8833
Cessna 180 Series	Cont.-0-470-A,K,L	225-230	HC-A2XF-1A/8433
Cessna 182 Series	Cont.-0-470-L	230	BHC-A2XF-1A/8433-2
Cessna 310	Cont.-0-470-B,M	240	HC-A2XF-2/8433 or 8433-4
Cessna 310	Cont.-10-470-D	260	HC-A2XF-2/8433 or 8433-4
Cessna T-50	Lyc.-R-680	300	* HC-93Z20-2C1/9350-5
Colonial	Lyc.-0-320-A2A	150	HC-92ZK-8L/L8447-12A
Mooney	Lyc.-0-320	150	HC-A2XL-1/7636D-2
			7636D-4
Navion	Cont.-E-185	185-225	HC-12X20-7D/8433
Navion	Lyc.-G0-435-C2	260	HC-12X20-8D/9333C
Navion Twin Riley	Lyc.-0-320	150	HC-A2XL-2/7636D-2
Navion Twin Temco	Lyc.-0-340	170	HC-A2XL-2/8433-12
Navion Twin Camair	Cont.-0-470B	240	HC-A2XF-2/8433-2
Piper Comanche	Lyc.-0-360	180	HC-92ZK-8D/8447-A-12A
Piper Comanche	Lyc.-0-540	250	HC-A2XK-1/8433-7
Piper Aztec	Lyc.-0-540	250	HC-A2XK-2C1/8433-10
Piper Apache	Lyc.-0-320	150	HC-A2XL-2/7636D-4
Royal Gull	Lyc.-G0-480B	280	* HC-83X20-2CL/L8433
Rolay Gull	Lyc.-GSO-480-A1A6	340	* HC-83X20-2CL/L9333CH-5
Seabee	Franklin 6A8-215-68F	280	
	(McCulloch Supercharged		HC-13X20-6L/L8433-H-2
Seabee	Franklin 6A8	215	HC-12X20-3E/L8433-H
Stinson 108	Lyc.-0-435	190	HC-12X20-8D/8433-6
Widgeon McKinnon	G0-435-C-2B	260	* HC-82X20-2B/9333C-3
Widgeon McKinnon	Lyc.-G0-480-B1	270	* HC-83X20-2C/8433

NOTE: * Spinner required to complete assembly.

HC-83X20-2C-2CL Spinner Assy.
 HC-93Z20-2C1 Spinner Assy.
 B3Z30-2D Spinner Assy.

HC-A2XL, K Spinner Assy.
 HC-A2XF-1 Spinner Assy.
 HC-A3XF-2A Spinner Assy.

WOOD FIXED PITCH

AIRPLANE MODELS	ENGINE	HP.	DIAM.	LEWIS DESIGN	NOTES
Aeronca KC	Continental A-40	40	70"	L33-2-22	1
Piper E2,J2,J340	Continental A-40	40	70"	L33-2-22	1
Porterfield CP40, CP40A	Continental A-40	40	70"	L33-2-22	1
Taylorcraft A	Continental A-40	40	70"	L33-2-22	1
Rose Parakeet	Continental A-40	40	70"	L33-2-22	1
Welch OW5M	Continental A-40	40	70"	L33-2-22	1
Aeronca KCA,50C, 50TC	Continental A-50	50	72"	L11B-45	1
Luscombe 8	Continental A-50	50	72"	L11B-45	1
Piper J3C50,J4	Continental A-50	50	72"	L11B-45	1
Porterfield CP50, CP55	Continental A-50	50	72"	L11B-45	1
Taylorcraft BC	Continental A-50	50	72"	L11B-45	1
Luscombe 8A	Continental A-65	65	72"	L11B-45	1&10
Taylorcraft BC	Continental A-65	65	72"	L11B-45	1&10
Aeronca TC,TAC,C, CA	Continental A-65	65	72"	L11B-42	1&10
Interstate S1A	Continental A-65	65	72"	L11B-42	1&10
Luscombe 8A	Continental A-65	65	72"	L11B-42	1&9
Piper J3C65,L4	Continental A-65	65	72"	L11B-42	1&10
Porterfield CP65	Continental A-65	65	72"	L11B-42	1
Taylorcraft Tandem DCO.	Continental A-65	65	72"	L11B-42	1&10
Aeronca TC,TAC,L3, C,CA	Continental A-65	65	72"	L11B-40 or L11BK-40	1&9
Interstate S1A	Continental A-65	65	72"	L11B-40 or L11BK-40	1&2
Luscombe 8A Sea- plane	Continental A-65	65	72"	L11B-40 or L11BK-40	1&2
Piper J3C,J4A	Continental A-65	65	72"	L11B-40 or L11BK-40	1&2
Piper J3C Sea- Plane	Continental A-65	65	72"	L11B-40 or L11BK-40	1&2
Taylorcraft BC, BCT, DC	Continental A-65	65	72"	L11B-40 or L11BK-40	1&2
Taylorcraft BC Seaplane	Continental A-65	65	72"	L11B-40 or L11BK-40	1&2
Luscombe 8A (opt. See L11B-45)	Continental A-65	65	70"	L11C-45 or L11CK-45	1&2
Taylorcraft BC12D	Continental A-65	65	70"	L11C-45 or L11CK-45	1&2
Culver LCA	Continental A-75	75	70"	L11C-45	1
Aeronca Chief	Continental A-65	65	70"	L11C-43 or L11CK-43	1&2
Aeronca Champion	Continental A-65	65	70"	L11C-43 or L11CK-43	1&2
Ercoupe 415C (Old)	Continental A-65	65	70"	L11C-43 or L11CK-43	1&2
Porterfield CP65	Continental A-65	65	70"	L11C-43 or L11CK-43	1,2&10
Taylorcraft BC, BC12,BCT,DC (Opt. with L11B-42)	Continental A-65	65	70"	L11C-43 or L11CK-43	1&2
Luscombe 8C,8D, Silvair	Continental A-75	75	70"	L11C-43	1&10
Piper J4E Coupe	Continental A-75	75	70"	L11C-43	1
Porterfield 75C	Continental A-75	75	70"	L11C-43	1
Rearwin Skyranger 175	Continental A-75	75	70"	L11C-43	1&10

LEWIS - CONTINUED

AIRPLANE MODELS	ENGINE	HP.	DIAM.	LEWIS DESIGN	NOTES
Ercoupe 415C(new) Commonwealth	Continental C75	75	72"	L55C-49 or L55CK-49	1&2 ss
Skyranger 185	Continental C85	85	72"	L55C-43	1
Funk F2B	Continental C85	85	72"	L55CK-43	2
Piper J5, J5A	Continental A-75	75	72"	L55C-38	1&10
Rearwin Skyranger 175	Continental A-75	75	72"	L55C-38	1&10
Stinson HW, 105	Continental A-75	75	72"	L55C-38	1&10
Rearwin Skyranger 180	Continental A-80	80	72"	L55C-38	1&10
Stinson 10	Continental A-80	80	72"	L55C-38	1&10
Piper J5, J5A	Continental A-75	75	70"	L55C-2-34	1&9
Stinson HW, 105	Continental A-75	75	70"	L55C-2-34	1&9
Rearwin Skyranger 180	Continental A-80	80	70"	L55C-2-34	1&9
Stinson 10	Continental A-80	80	70"	L55C-2-34	1&9
Cessna 120, 140	Continental C-85	85	72.5"	L66C-45	1
Cessna 120, 140	Continental C-85	85	72.5"	L66CK-45	2
Aeronca TF, TAF	Franklin 4AC176B-	65	72"	L10A-42	4&10
Interstate S1A65	Franklin 4AC176B	65	72"	L10A-42	4&10
Porterfield FP65	Franklin 4AC176B	65	72"	L10A-42	4&10
Taylorcraft BF, BF12, BFT, DF.	Franklin 4AC176B	65	72"	L10A-42	4&10
Aeronca TF, TAF	Franklin 4AC176B	65	72"	L10A-40	4&9
Interstate S 1 A65	Franklin 4AC176B	65	72"	L10A-40	4&9
Porterfield FP65	Franklin 4AC176B	65	72"	L10A-40	4&9
Piper J3F65	Franklin 4AC176B	65	72"	L10A-40	4&9
Taylorcraft BF, BF12, BFT, DF.	Franklin 4AC176B	65	72"	L10A-40	4&9
Aeronca 60F	Franklin 4AC171	60	70"	L10A-2-34	4
Piper, J3F60, J4B	Franklin 4AC171	60	70"	L10A-2-34	4
Taylorcraft BF60	Franklin 4AC171	60	70"	L10A-2-34	4
Aeronca TF	Franklin 4AC150	60	70"	L10A-2-32	4
Piper J3F60 Sea- plane	Franklin 4AC171	60	70"	L10A-2-32	4
Aeronca 50K, 50KF	Franklin 4AC150	50	70"	L30-45	4
Piper J3F50	Franklin 4AC150	50	70"	L30-45	4
Taylorcraft BF	Franklin 4AC150	50	70"	L30-45	4
Taylorcraft BF	Franklin 4AC150	50&60	70"	L11F-35	4&9
Taylorcraft BF	Franklin 4AC171	50&60	70"	L11F-35	4&9
Taylorcraft BF	Franklin 4AC150	50&60	70"	L11F-38	4&10
Taylorcraft BF	Franklin 4AC171	50&60	70"	L11F-38	4&10
Culver LFA	Franklin 4AC176D3	80	70"	L55F-2-44	4
Stinson 10A, Voyager	Franklin 4AC199E	90	72"	L55F-42	4
Rearwin Skyranger 190F	Franklin 4AC199E	90	72"	L55F-42	4
Stinson 10A, Voyag- er	Franklin 4AC199E	90	72"	L55F-44	4&10
Rearwin Sky- ranger 190F	Franklin 4AC199E	90	72"	L55F-44	4&10
Aeronca 50L, 50LA					
50FL	Lycoming O-145B2	50	70"	L16B-45	3
Piper J3L	Lycoming O-145B2	50	70"	L16B-45	3

LEWIS - CONTINUED

<u>AIRPLANE MODELS</u>	<u>ENGINE</u>	<u>HP.</u>	<u>DIAM.</u>	<u>LEWIS DESIGN</u>	<u>NOTES</u>
Taylorcraft BL, BLT	Lycoming O-145B2	50	70"	L16B-45	3
May be substituted for L16B-45	Lycoming O-145A1	50	70"	L11L-35	3
Aeronca 50L, 50LA	Lycoming O-145A2	55	70"	L11L-35	3
50TL.	Lycoming O-145A2	55	70"	L11L-35	3
Piper J3L	Lycoming O-145A2	55	70"	L11L-35	3
Taylorcraft BL	Lycoming O-145A2	55	70"	L11L-35	3
Aeronca 65TL, 65TA1	Lycoming O-145B2	65	70"	L11L-35 or L11L-34	3&9
65LA, 65LB	Lycoming O-145B2	65	70"	L11L-35 or L11L-34	3
Luscombe 8B2	Lycoming O-145B2	65	70"	L11L-35 or L11L-34	3&9
Piper J3L65, J4	Lycoming O-145B2	65	70"	L11L-35 or L11L-34	3&9
J3L Seaplane	Lycoming O-145B2	65	70"	L11L-35 or L11L-34	3&9
Porterfield LP65	Lycoming O-145B2	65	70"	L11L-35 or L11L-34	3
Taylorcraft BL, BL12-65, BLT.	Lycoming O-145B2	65	70"	L11L-35 or L11L-34	3
Taylorcraft DL, Tandem	Lycoming O-145B2	65	70"	L11L-35 or L11L-34	3
Aeronca 50L, 50LA, 50TL.	Lycoming O-145A2	55	70"	L11L-38	3&10
Piper J3L	Lycoming O-145A2	55	70"	L11L-38	3&10
Taylorcraft BL	Lycoming O-145A2	55	70"	L11L-38	3&10
Aeronca 65TL, 65TAL	Lycoming O-145B2	65	70"	L11L-38 or L11L-37	3&10
65LA, 65LB	Lycoming O-145B2	65	70"	L11L-38 or L11L-37	3&10
Luscombe 8B2	Lycoming O-145B2	65	70"	L11L-38 or L11L-37	3&10
Piper J4	Lycoming O-145B2	65	70"	L11L-38 or L11L-37	3&10
Porterfield LP65	Lycoming O-145B2	65	70"	L11L-38	3&10
Taylorcraft BL, BL12-65, BLT.	Lycoming O-145B2	65	70"	L11L-38	3&10
Taylorcraft DL, Tandem	Lycoming O-145B2	65	70"	L11L-38	3&10
Monocoupe 90, 90A,	Lambert	90	80"	L23-44	8
Aeronca LA	LeBlond 5E; 5DE	70	76"	L23-4-54	8
Porterfield 35-70	LeBlond 5E; 5DE	70	76"	L23-4-54	8
Rearwin 4000	LeBlond 5E; 5DE	70	76"	L23-4-54	8
Aeronca LB	LeBlond 5DF; 5F	85-90	76"	L23-4-54	8
Rearwin KR	KenRoyce 5F; 5G	90	76"	L23-4-54	8
Fairchild M62A, PT-19	Ranger 6-440-C3	185	86"	L12R-56	5
Fairchild M62A3, PT-26	Ranger 6-440-C5	200	86"	L12R-56	5
Fairchild M62A, PT-19	Ranger 6-440-C3	185	86"	L12RA-56	6
Fairchild M62A3 PT-26	Ranger 6-440-C5	200	86"	L12RA-56	6
Fairchild C8E, C8C C8G.	Warner Super Sc.	145	86"	L12W-60	7
Fairchild 24W40 41, 9	Warner Super Sc.	145	86"	L12W-60	7&9
Fairchild 24 Seaplane	Warner Super Sc.	145	86"	L12W-60	7
Fairchild 22C7G, F	Warner Super Sc.	145	86"	L12W-64	7
Fairchild 24J, 24G	Warner Super Sc.	145	86"	L12W-64	7
Fairchild 24W40, 41, 9,	Warner Super Sc.	145	86"	L12W-64	7
Howard DGA145	Warner Super Sc.	145	86"	L12W-64	7

LEWIS - CONTINUED

<u>AIRPLANE MODELS</u>	<u>ENGINE</u>	<u>HP.</u>	<u>DIAM.</u>	<u>LEWIS DESIGN.</u>	<u>NOTES.</u>
Luscombe Phantom 1, 1S	Warner Super Sc.	145	86"	L12W-64	7
Meyers OTW 145	Warner Super Sc.	145	86"	L12W-64	7
Fairchild C8E, C8C, C8G	Warner Super Sc.	145	86"	L12WA-60	5
Fairchild 24W40, 24W41	Warner Super Sc.	145	86"	L12WA-60	5&9
Fairchild 24 Seaplane	Warner Super Sc.	145	86"	L12WA-60	5
Howard DGA 145	Warner Super SC.	145	86"	L12WA-60	5&9
Meyers OTW 145	Warner Super Sc.	145	86"	L12WA-60	5&9
Fairchild 22C7G, F	Warner Super Sc.	145	86"	L12WA-64	5
Fairchild 24J, 24G	Warner Super Sc.	145	86"	L12WA-64	5
Fairchild 24W40, 24W41	Warner Super Sc.	145	86"	L12WA-64	5
Fairchild C61, UC61	Warner Super Sc.	165	86"	L12WA-64	5
Howard DGA 145	Warner Super Sc.	145	86"	L12WA-64	5
Luscombe Phantom 1, 1 S	Warner Super Sc.	145	86"	L12WA-64	5
Meyers OTW 145	Warner Super Sc.	145	86"	L12WA-64	5

NOTES:

- 1 . Continental taper shaft hub.
- 2.. Continental flange shaft hub.
- 3 . Lycoming integral flange hub.
- 4 . Franklin integral flange hub.
- 5 . Warner 20 spline 8 bolt hub, 4-1/8" thick.
- 6 . A N Standard 20 spline 8 bolt hub, 6" thick.
- 7 . Taper shaft SAE #1 taper.
- 8 . Rearwin taper shaft hub.
- 9 . Take off.
10. Cruise.
11. Being discontinued.

(ss) Stainless steel tipping.

MC CAULEY**METAL FIXED PITCH****MET-L-PROP MODELS**

<u>AIRPLANE MODEL</u>	<u>ENGINE</u>	<u>STAND- ARD</u>	<u>CRUIS- ING</u>	<u>TAKE-OFF NOTES CLIMB HIGH ALTITUDE</u>
Aeronca 65-C, 65CA S65-C, S65-CA* 65-TAF(65-TAC) 058-B S058-B* 7AC S7AC*	Continental A65-3, 3J- 7, -7J, -8, -8J, -9, -9J Continental A65-8 Continental A65-8 Continental A65-8	CM7443 CM7443 CM7443 CM7443 CM7445 CM7445 CM7443	CM7445 CM7445 CM7445 CM7445 CM7447 CM7445	CM7441 1,2 1,2 1,2 1,2 CM7441 1,2 1,2
7BCM 7CCM S7CCM* 7DC S7DC* 7EC S7EC*	Continental C85-8J Continental C90-8, -8J Continental C85-8 Continental C90-12F, 12 FJ.	CM7144 CM7343 CM7341 CM7144 CM7142 CM7343 CM7341	CM7146 CM7345 CM7343 CM7146 CM7144 CM7345 CM7343	CM7142 1,2 CM7341 1,2 1,2 CM7142 1,2 1,2 1,2 1,2
11AC S11AC* 11BC S11BC* 11CC S11CC* 15AC S15AC*	Continental A65-8 Continental C85-8 Continental C85-8 Continental C145-2	CM7445 CM7443 CM7148 CM7142 CM7144 CM7142 DM7649 DM7644	CM7445 CM7150 CM7144 CM7146 CM7144 DM7653	CM7443 1,2 CM7441 1,2 CM7146 1,2 CM7142 1,2 CM7142 1,2 DM7647 1 1
Auster J1U Call Air A-2 A-6 Cessna 120, 140 120, 140* 140 140*	Lycoming O-360-A2a Lycoming O-290-A, B, C, Lycoming O-360-A2A, C2A Continental C85-12 Continental C90-12	FA8243 LL7649 FA8244 CM7148 CM7142 CM7152 CM7343	FA8246 CM7150 CM7144 CM7154	FA8242 1 CM7146 1,2 1,2 1,2 1,2
170, 170A, 170B 170A, 170B* 172 172A 172A* 175, 175A 175* 175A*	Continental C145-2, 2H Continental O-300-A, B Continental O-300-C Continental O-300-C Continental G0-300-A, B Continental G0-300-A, B Continental G0-300-A, B	DM7653 DM7647 DM7651 DM7654 SFC8040 MFC8467 MFC8455 OM9044	DM7653	DM7651 1 1 1 1 1 1,5 1 1,5 1 1
305A.C(USAF L-19A, Navy OE-1) Champion 7EC S7EC* A7EC Duster 7FC 7GC Sprayer 7HC DX-ER	Continental O-470-11 Continental C90-12F Lycoming O-290-D2B Lycoming O-290-D2B	FM9047 CM7345 CM7341 CM7345 GM7646 MGM7455	FM8570 CM7343	CM7343 1.6 1,2 1,2 CM7343 1,2 CM7343 1 GM7644 1
Commonwealth "Skyranger" 185 Culver Cadet LCA	Continental C85-12 Continental A75-8, -9	CM7146 CM7045		1,2 1,2

Mc CAULEY-CONTINUED

MET-L-PROP MODELS

AIRPLANE MODEL	ENGINE	TAKE-OFF NOTES			
		STAND- ARD	CRUIS- ING	CLIMB HIGH ALTITUDE	
Emigh A-2 Trojan	Continental C85-12	CM7148		CM7146	1,2
Ercoupe 415	Continental A65-8	CM7443	CM7445	CM7441	1,2
415-C, 415-CD, 415-D	Continental C75-12	CM7351			1,2
415-D, 415-E, 415-G	Continental C85-12	CM7150		CM7148	1,2
Fleet Canuck 80	Continental C-85	CM7148		CM7146	1,2
Canuck 80*		CM7144			1,2
Forney Aircoupe F-1	Continental C90-12F	CM7152			1,2
Funk B85-C	Continental C85-12	CM7148	CM7150	CM7146	1,2
	Continental C90-12F	CM7152	CM7154		1,2
Interstate S-1A-65F	Continental A65-8	CM7445			1,2
Luscombe 8A	Continental A65-3, 3J, 6J	CM7447	CM7449		1,2
8AS*	6J, -7, -7J, -8, -9, -9J	CM7447	CM7449		1,2
8C	Continental A75-6, -8, 8J	CM7144	CM7146		1,2
8CS*	9, -9J	CM7144	CM7146		1,2
8D	Continental A75-8, 8J, 9, -9J	CM7144	CM7146		1,2
8E	Continental C85-12	CM7151		CM7148	1,2
8ES*		CM7144		CM7142	1,2
8F	Continental C90-12	CM7152	CM7154		1,2
8FS*		CM7347			1,2
T8F	Continental C90-12	CM7152	CM7154		1,2
T-8S*		CM7347			1,2
T-8F					
Sprayer	Continental C90-12J	CM7347		CM7345	1,2
11A	Continental C185-2	FM8369	FM8372	FM8367	1
Meyers Mac-15	Continental C145-2	DM7460			1
Monocoupe 90AL-115	Lycoming O-235-C1	LM7254	LM7256		1,3
Piper J3C-65	Continental A65-3, 6, 7, 8, -9, -14	CM7443	CM7445		1,2
J3C-65*		CM7443	CM7445		1,2
J3C-65	Continental A75-8, -9,	CM7040		CM7038	1,2
J3C-65*		CM7038	CM7040		1,2
J3C	Continental C75-8, -12	CM7449			1,2
J3C-75*		CM7447			1,2
J3C-85	Continental C85-8-12	CM7144	CM7146		1,2
J3C-85		CM7142		CM7138	1,2
Sprayer					
J3C-85*		CM7142			1,2
J3C-90	Continental C90-8F	CM7148			1,2
J3C-90*		CM7146			1,2
J4A	Continental A65-3, 6, -7, 8, -9	CM7443	CM7445		1,2
J4A-S *		CM7443	CM7445		1,2
J4E	Continental A75-8, -9	CM7038			1,2
	Continental C75-12	CM7148			1,2
J5A-J5B	Continental A75-8, -9	CM7038			1,2
	Continental C75-12	CM7449			1,2
	Continental C85-12	CM7146	CM7148	CM7144	1,2
	Continental C90-8	CM7347			1,2
J5C	Lycoming O-235-B	LM7249		LM7246	1,3

MET-L-PROP MODELS

AIRPLANE MODEL	ENGINE	STAND- ARD	CRUIS- ING	TAKE-OFF NOTES CLIMB HIGH ALTITUDE
PA-11 (65 HP.) (85 HP.) (90 HP.) (65 HP.)* (90 HP.)*	Continental A65-3,-6,-8,-9,-14 Continental C85-8FJ,-12 Continental C90-8F Continental A65-8 Continental C90-8	CM7445 CM7144 CM7149 CM7443 CM7146	CM7447 CM7146 CM7445	1,2 1,2 1,2 1,2 1,2
PA-12 Sea Plane Land Plane Sea Plane	Lycoming O-235-C Lycoming O-235-C1	LM7249 LM7240 LM7252 LM7243	LM7254	LM7246 1,3 1,3 1,3 1,3
PA-14 PA-16 PA-17 PA-18	Lycoming O-235-C1 Lycoming O-235-C1 Continental A65-8,-8F Lycoming O-235-C1 Continental C90-8	LM7252 LM7252 CM7247 LM7252 CM7150	LM7254 LM7254 LM7254	LM7249 1,3 1,3 1,2 1,3
PA-18,18A,125"(SA1-59) PA-18S,18AS,125" (SA1-155)* PA-18,18A,135"(SA1-32,33) PA-18S,18AS,135"(SA1-156)*	Lycoming O-290-D Lycoming O-290-D Lycoming O-290-D2 Lycoming O-290-D2	GM7448 GM7446 GM7450 GM7448	CM7450	1,4 1,4 GM7448 1,4
PA-18,18A,150"(SA1-41) PA-19 PA-20	Lycoming O-320-A Series Lycoming O-235-C1 Continental C90-8 Lycoming O-235-C1	GM7452 LM7252 CM7150 LM7254	GM7454 LM7254	GM7450 1,4 1,3 CM7146 1,2
PA-20,125"(SA1-89) PA-20S,125"(SA1-157)* PA-20,135"(SA1-24) PA-22,125"(SA1-90) PA-22,135"(SA1-23) PA-22,150"(SA1-22) PA-25	Lycoming O-290-D Lycoming O-290-D Lycoming O-290-D2 Lycoming O-290-D Lycoming O-290-D2 Lycoming O-320-A Series Lycoming O-320-A2A,A2B	GM7454 GM7450 GM7455 GM7454 GM7455 GM7459 GM7448	GM7452 GM7453 GM7452 GM7453 GM7457	1,4 1,4 1,4 1,4 1,4 1,4 1
Rawdon T-1(150) T-1(180) Stinson HW-10, HW-75 108-1 108-1 * 108-2,-3 108-2,-3 *	Lycoming O-320-A2A,A2B Lycoming O-360-A2A Continental A75-3,-6,-8,9 Continental A80-6,6J,7-7J,8,-8J,-9,9J Continental C85-12,12F Franklin 6A4-150-B3 Franklin 6A4-165-B3	GM7648 FA8243 CM7038 CM7040 CM7146 DM7652 DM7649 DM7654 DM7649	FA8241 DM7654 DM7652 DM7652	GM7646 FA8241 CM7038 CM7144 1 1 1 1
Swift GC-1B Taylorcraft BC-65 BC-65* BC12-65 BC12-D,D1	Continental C125-2 Continental C145-2 Continental A65-8 Continental A65-7,-7J,8,-8J Continental A65-7,7J,8,-8J	DM7357 DM7458 CM7445 CM7443 CM7445 CM7445	DM7355 CM7443 CM7447 CM7447	1 1 1,2 1,2 1,2 1,2

Mc CAULEY — CONTINUED

MET-L-PROP MODELS

<u>AIRPLANE MODEL</u>	<u>ENGINE</u>	<u>TAKE-OFF NOTES</u>			
		<u>STAND- ARD</u>	<u>CRUIS- ING</u>	<u>CLIMB HIGH ALTITUDE</u>	
Taylorcraft BCS-12-D*		CM7443	CM7445		1,2
BC12-D-85,-4-85	Continental C85-8	CM7148	CM7150	CM7146	1,2
BCS12-D-85,4-85*		CM7144			1,2
DCO-65	Continental A65-8	CM7443	CM7445		1,2
15-A	Continental C145-2	DM7651			1
19	Continental C85-12,- 12F	CM7151		CM7148	1,2

NOTES

* Means Sea Plane.

- 1.A CM7154 Basic Design 1390,71 inch diameter,54 inch pitch.
DM7651 Basic Design 1A170,76 inch diameter, 51 inch pitch.
EM7654 Basic Design 1C172,76 inch diameter, 54 inch pitch.
FA8243 Basic Design 1A200,82 inch diameter, 43 inch pitch.
FC8467 Basic Design 1A175,84 inch diameter, 67 inch pitch.
FM9044 basic Design 1A200,90 inch diameter, 44 inch pitch.
GM7455 Basic Design 1A170,74 inch diameter, 55 inch pitch.
LL7649 Basic Design 1A170,76 inch diameter, 49 inch pitch.
LM7252 Basic Design 1C90,72 inch diameter, 52 inch pitch.
MDM7653 Basic Design 1C172,76 inch diameter, 53 inch pitch.
MFC8467 Basic Design 1B175,84 inch diameter, 67 inch pitch.
MGM7457 Basic Design 1C172,74 inch diameter, 57 inch pitch.
OM9044 Basic Design 1D200,90 inch diameter, 44 inch pitch.
SFC8040 Basic Design 1A175,80 inch diameter, 40 inch pitch.
- B. Met-L-Prop Weights (Including attaching parts, but not spinners, and adapters on LM Model only).
CM Models, 70 inch-22½ lbs, 72 inch-22½ lbs,74 inch-22 3/4 lbs.
DM,LL Models, 76 inch-33½ lbs.,73 inch-33¼ lbs.
EM Models, 76 inch-31 lbs.
FA Models, 82 inch-45 lbs.
FC Models,84 inch-37 lbs.
FM Models, 90 inch-45 lbs.
GM Models, 74 inch-33 lbs.
LM Models, 72 inch-24 3/4 lbs.
MDM, MGM Models, 76 inch-32¼ lbs.,74 inch-32 lbs.
MFC Models, 84 inch-36 lbs.
OM Models, 90 inch-43 lbs.
SFC Models, 80 inch--36¼lbs.
2. 1A90/CF elliptical tip models and 1B90/CM square tip models having the same diameter and pitch are directly interchangeable.
3. The LM Series Met-L-Props are only for installation on SAE#2 flanged crankshaft. An adapter,P/NC-1210 is necessary for these installations

4. Some Met-L-Prop installations are approved by supplemental aircraft type certification as noted in parenthesis in aircraft model column.
5. Propeller models noted in parenthesis have been superseded by later models as shown.
6. The FM8570 on Cessna 305 is used by the Military, but is not listed on F. A. A. Aircraft Specifications.

4. Some Met-L-Prop installations are approved by supplemental aircraft type certification as noted in parenthesis in aircraft model column.
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Mc CAULEY

CONSTANT SPEED

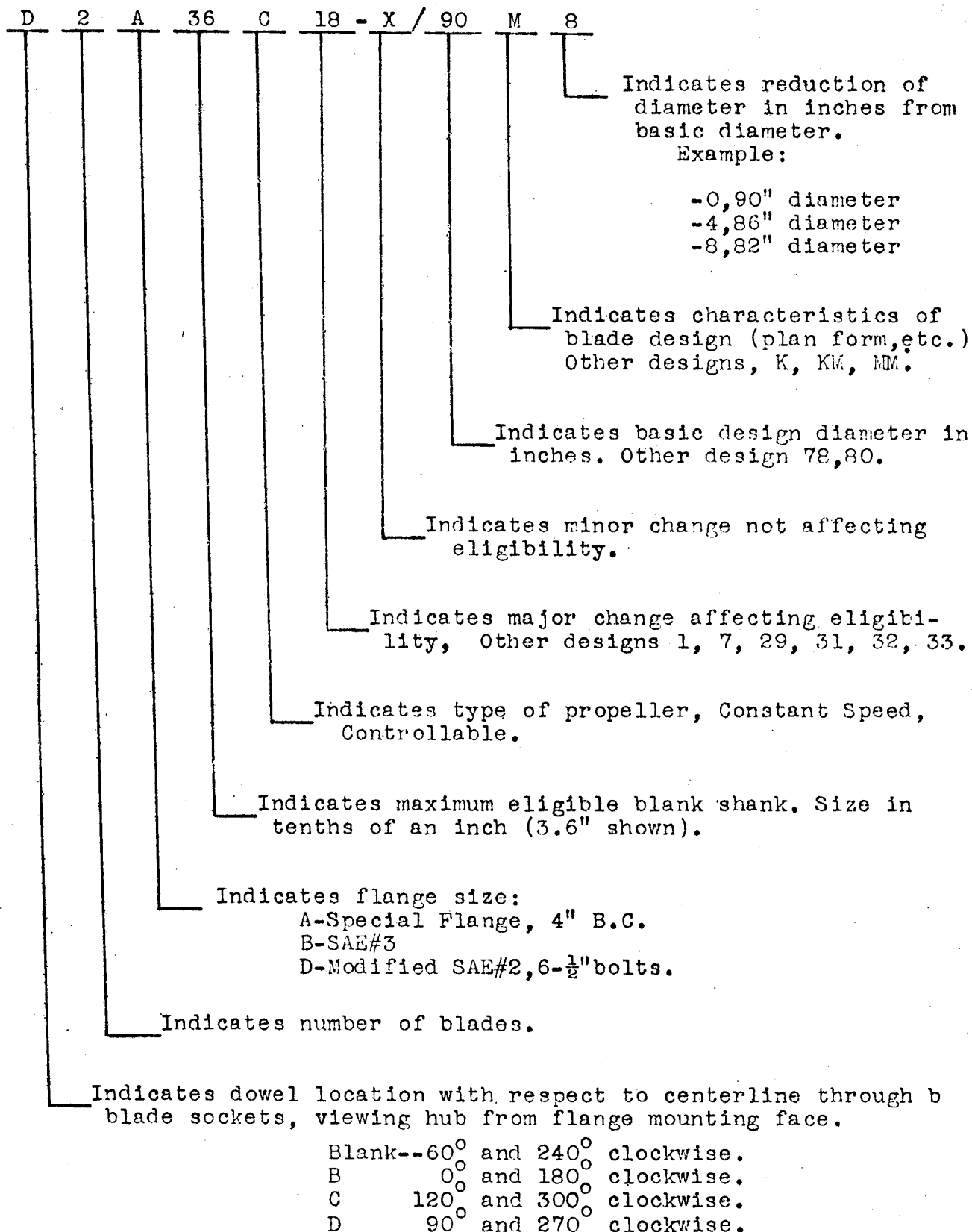
AIRPLANE MODEL	ENGINE	PROPELLER MODEL	GOVERNOR (WOODWARD)	BLADE ANGLE			HIGH NOTES
				REF. STA.	LOW	HIGH	
Aeronca S15AC Sea Plane	Continental C145-2H O-300-B	(2B36C7/ 78K-2)	Not Required	30	11.0	16.0	1,3
Auster B-8 Series 1	Continental O-470-M, Spec. 2	2A36C18-X /90M-4	210105	36	9.5	22.3	1
Bellanca 14-19-2	Continental O-470-K	2A36C18-X /90M-12	210105	36	12	25	1
14-19-3	Continental 10-470-F	B2A36C1-X /90M-8	210105	36	10.7	27.5	1
Call Air A-6	Lycoming O-360-C1A	2D3614-X /78KM-4	210105	30	12.7	27.5	1
Cessna 170A, B	Continental C-145-2H, O-300-B	(2B36C7/ 78K-2)	not Required	30	13	17.5	1,3
Land & Ski Plane							
172 Land Plane	Continental O-300-B	(2B36C7/ 78K-2)	Not Required	30	12	16.5	1,3
	Continental O-300-B	(2B36C7/ 78K-4)		30	12.5	17.0	1,3
180 A/C Series Land Plane	Continental O-470-A, J, K, L	(2A36C1- X/90MB) (2A36C18- X/90M-8 2A36C29-X /90M-8)	210155	36	10.2	22.3	1,2,7,8
				36	10.2	22.3	1,2,8
				36	10.2	22.3	1
180 A/C Series Sea Plane	Continental O-470-A, J, K, L	(2A36C1-X /90M-2) (2A36C18- X/90M-2) 2A36C29- X/90M-2	210155	36	7.2	20	1,2,7,8
				36	7.2	20	1,2,8
				36	7.2	20	1
182 A/C Series Land Plane	Continental O-470-L	(2A36C18- X/90M-8 2A36C29- X/90M-8)	210155	36	10.5	22	1,2,8
				36	10.5	22	1
210 Land Plane	Continental 10-470-E	D2A36C33- X/90M-8	210270	36	10.8	25.8	1
305B(USAF TL-19D)	Continental	(2A36C1-U /90M-0) 2A36C1- US/90M-0	210105	36	7	22.5	1,2
				36	7	22.5	1

MC CAULEY— CONTINUED

AIRPLANE MODEL	ENGINE	PROPELLER MODEL	GOVERNOR (WOODWARD)	BLADE ANGLE			NOTES
				REF. STA.	LOW	HIGH	
Cessna (Cont.) 321 (Navy OE-2)	Continental O-470-2	(2A36C1-T/ 90M-0) 2A36C1-TS/ 90M-0	210105	36	9.5	23	1,2
				36	9.5	23	1
Fletcher FU 24	Continental O-470-N	2A36C18-X /90M-4	210065	36	10	22.3	1
Meyers 200 200A	Continental O-470-M	2A36C18-X /90M-6	210105AD	36	10	25	1
	Continental 10-470-D	B2A36C31- X/90M-6	210105AD	36	11	27.5	1
Mooney Mark 20A Mark 21	Lycoming O-360-A1A	2D36C14-X /78KM-4	210315	30	12.7	27.5	1,9
	Lycoming O-540-A1A5	2D36C28-X /80MM-6	210105	30	15.8	31.5	1
Navion "D" "E" "F"	Continental O-470-P	2A36C18-X /90M-4	210105	36	10	22.3	1
	Continental 10-470-C	C2A36C32-X /90M-4	210105	36	10.2	22.3	1
	Continental 10-470-H	B2A36C31-X /90M-4	210105	36	9.5	27.5	1
Piper PA-24 PA-25	Lycoming O-360-A1A	2D36C14-X 78KM-4	210305	30	12.7	27.5	1,4
	Lycoming O-540-A1A, A1A5	2D36C28-X /80MM-6	A210305	30	15.8	31.5	1,5,6
Saab Safir 91D	Lycoming O-360-A1A	2D36C14-X /78KM-4	210105	30	12.7	27.5	1
Taylorcraft 20	Continental O-470-A,J	(2A36C1-X /90M-8)	210065	36	10.2	22.3	1,2,7
	Continental O-470-J	2A36C18-X /90M-8		36	10.2	22.3	1

MC CAULEY—CONTINUEDNOTES

1. a. Typical explanation of model designation:



MC CAULEY— CONTINUED

- b. Met-L-Matic Weights: Following weights include attaching bolts or nuts as required

Model 2A36C1	63lbs.	Model 2D36C14	59.5 lbs.
Model 2A36C18	64lbs.	Model 2D36C28	61.5 lbs.
Model 2B36C7	59lbs.	Model 2D36C29, B2A36C31, C2A36C32 and D2A36C33	60 lbs.

2. Propeller models enclosed by brackets are superseded by later models as shown. Both models fully interchangeable.
3. Propeller models enclosed by parenthesis are no longer in production. Spare parts are available for propellers no longer in production.
4. Governor listed is preferred. 201250, 210260 and 210185 governors have been used.
5. Governor listed is preferred. 210185 governor has been used.
6. Propellers installed on A1A5 engine require no placard, while A1A installation requires tachometer "red band" placard to avoid continuous operation from 2225 to 2275 rpm.
7. Spring kits are available for C1 Models. if installed these models change from C1-X to C1-XS.
8. Current production governor is listed. 210065 and 210105 models have been used.
9. Current production governor is listed. 210105 model has been used.

SENSENICH

FIXED PITCH—METAL

AIRPLANE MODEL	ENGINE	H.P.	PROP. MODEL	TYPE
Aeronca 15AC	Continental C-145	145	M74DR52	Standard
Aeronca S15AC	Continental C-145	145	M74DR54	Cruise
Call A-4	Lycoming O-290-D2	135	M74DR48	Standard
Call A-5	Lycoming O-320	150	M74DM50	Standard
Cessna 150	Continental O-200	100	M74DM52	Standard
Cessna 170 Series	Continental C-145	145	M69CK52	Standard
Cessna 172	Continental O-300	145	M74DR56	Standard
Cessna 172A	Continental O-300-C	145	M74DR58	Cruise
Champion 7GC	Lycoming O-290-D2	135	M74DR54	Take Off
Champion 7GC, Sprayer	Lycoming O-290-D2	135	M74DR55	Standard
Champion 7GCA, 7GCB	Lycoming O-320	150	M74DR56	Cruise
Champion 7GCA, 7GCB Spray.	Lycoming O-320	150	M74DR53	Take Off
Champion 7HC	Lycoming O-290-D2	135	M74DC56	Standard
Globe GCLB	Continental C-125-2	125	M74DM57	Standard
Globe GCLB (SPCSAI-335)	Continental C-145	145	M74DR-1-58	Standard **
Meyers MAC145	Continental C-145	145	M74DR-1-59	Cruise **
Morrissey 2150	Lycoming O-320	150	M74DR-1-57	Take Off **
Piper PA18 "125"	Lycoming O-290-D	125	M74DR-1-62	Standard
Piper PA18A, PA18S "125"	Lycoming O-290-D	125	M74DR58	Standard
Piper PA18 "135"	Lycoming O-290-D2	135	M74DM60	Standard
Piper PA18A, PA18S "135"	Lycoming O-290-D2	135	M74DM50	Standard
Piper PA18 "150"	Lycoming O-320	150	M74DM52	Cruise
Piper PA18A, PA18S "150"	Lycoming O-320	150	M74DM48	Standard
Piper PA20, PA22 "125"	Lycoming O-290-D	125	M74DM52	Standard
Piper PA20S "125"	Lycoming O-290-D	125	M74DM56	Standard
Piper PA20, PA22 "135"	Lycoming O-290-D2	135	M74DM58	Cruise
Piper PA20S "135"	Lycoming O-290-D2	135	M74DM54	Take Off
Piper PA20S "150"	Lycoming O-320	150	M74DM52	Standard
Piper PA20, PA22 "150"	Lycoming O-290-D	125	M74DM56	Standard
Piper PA20S "150"	Lycoming O-290-D	125	M74DM54	Take Off
Piper PA20S "150"	Lycoming O-290-D	125	M74DM52	Standard
Piper PA20, PA22 "150"	Lycoming O-290-D2	135	M74DM57	Standard
Piper PA20S "150"	Lycoming O-290-D2	135	M74DM55	Take Off
Piper PA20S "150"	Lycoming O-290-D2	135	M74DM52	Standard

SENSENICH — CONTINUED

<u>AIRPLANE MODEL</u>	<u>ENGINE</u>	<u>H.P.</u>	<u>PROP. MODEL</u>	<u>TYPE</u>
Piper PA22"150"	Lycoming 0-320	150	M74DM60	Standard
Piper PA22S"150"	Lycoming 0-320	150	M74DM58	Take Off
Piper PA22"160"	Lycoming 0-320	160	M74DM56	Standard
			M74DM60	Standard
			M74DM58	Take Off
Piper PA22S"160"	Lycoming 0-320	160	M74DM56	Standard
Piper PA25	Lycoming 0-320	150	M74DM52	Standard
Stinson 108-2,-3	Franklin 6A4-165-B3	165	M74DR56	Standard *
			M74DR58	Cruise *
Stinson 108-2, -3 Seaplane	Franklin 6A4-165-B3	165	M74DR52	Standard *
Aeronca 65TL, 65LA, 65LB, 65TAL	Lycoming 0145B2	65	M74CK-2-36	Standard
Aeronca 65TC, 65TAC, L3, Y058, 65C, 65CA	Continental A65	65	M74CK-46	Standard
			M74CK-44	Take Off
			M74CK-40	Dust & Spray
Aeronca S65C, S65CA	Continental A65	65	M74CK-40	Standard
Aeronca 7AC, 11AC	Continental A65	65	M74CK-46	Standard
			M74CK-44	Take Off
			M74CK-40	Dust & Spray
Aeronca S7AC, S11AC	Continental A65	65	M74CK-40	Standard
Aeronca 7BCM, 11BC	Continental C85	85	M74CK-2-46	Standard
			M74CK-2-44	Take Off
Aeronca 7DC, 11CC	Continental C85	85	M74CK-2-44	Standard
			M74CK-2-42	Take Off
Cessna 120, 140	Continental C85	85	M76AK-2-44	Standard
			M76AK-2-42	Take Off
Cessna 120S, 140S	Continental C85	85	M76AK-2-40	Standard
Cessna 140A	Continental C90	90	M76AK-2-48	Standard
			M76AK-2-46	Take Off
Champion 7EC, 7FC, 7CCM	Continental C90	90	M76AK-2-46	Standard
			M76AK-2-48	Cruise
			M76AK-2-44	Take Off
			M76AK-2-42	Dust & Spray
Champion S7EC, S7CCM	Continental C90	90	M76AK-2-42	Standard
Commonwealth 185 Skyranger	Continental C85	85	M76AK-2-42	Standard
Ercoupe 415C, 415CD, 415D	Continental C75	75	M76AK-2-48	Standard
Ercoupe 415D, E, G	Continental C85	85	M76AK-2-46	Standard
			M76AK-2-48	Cruise
Fleet 80 Canuck	Continental C85	85	M76AK-2-42	Standard
			M76AK-2-40	Take Off
Interstate 31A	Continental A65	65	M74CK-46	Standard
			M74CK-44	Take Off
Luscombe 8A	Continental A65	65	M74CK-50	Standard
			M74CK-48	Take Off

SENSENICH—CONTINUED

<u>AIRPLANE MODEL</u>	<u>ENGINE</u>	<u>H.P.</u>	<u>PROP.MODEL</u>	<u>TYPE</u>
Luscombe 8A Seaplane	Continental A65	65	M74CK-44	Standard
Luscombe 8B	Lycoming 0145B	65	M74CK-2-40 M74CK-2-38	Standard Take Off
Luscombe 8C, 8D	Continental A75	75	M74CK-2-40	Standard
Luscombe 8E	Continental C85	85	M74CK-2-48 M74CK-2-46	Standard Take Off
Luscombe 8F	Continental C90	90	M74CK-2-50 M74CK-2-48	Standard Take Off
Piper J3C65	Continental A65	65	M74CK-46 M74CK-44 M74CK-40	Standard Take Off Dust & Spray
Piper J3C65S	Continental A65	65	M74CK-40	Standard
Piper J3C85	Continental C85	85	M76AK-2-38	Dust & Spray
Piper J4A, PA-11	Continental A65	65	M74CK-46 M74CK-44	Standard Take Off
Piper PA-11S	Continental A65	65	M74CK-42	Standard
Piper J3L65	Lycoming 0-145B	65	M74CK-2-36	Standard
Piper PA-15	Lycoming 0-145B	65	M74CK-4-38 M74CK-4-36	Standard Take Off
Piper PA-17	Continental A65	65	M74CK-2-48 M74CK-2-46	Standard Take Off
Piper J3C75, J4E, J5A	Continental A75	75	M74CK-2-36	Standard
Piper PA-11, PA-18	Continental C90	90	M76AK-2-42 M76AK-2-46	Standard Cruise
Piper PA-11S, PA-18S	Continental C90	90	M76AK-2-40	Standard
Piper PA-11	Lycoming 0235C	100	M76AM-2-46	Standard
Piper PA-12	Lycoming 0235C	100	M76AM-2-46 M76AM-2-44	Standard Take Off
Piper PA-12, PA-14	Lycoming 0235C1	108	M76AM-2-48 M76AM-2-46	Standard Take Off
Piper PA-14	Lycoming 0235C1	108	M76AM-2-50	Standard
Piper PA-12A	Lycoming 0235C	100	M76AM-2-42	Standard
Piper PA-12S	Lycoming 0235C1	108	M76AM-2-44	Standard
Piper PA-16, PA-20	Lycoming 0235C1	108	M76AM-2-50 M76AM-2-52 M76AM-2-48	Standard Cruise Take Off
Piper PA-16S, PA-20S	Lycoming 0235C1	108	M76AM-2-44	Standard
Piper PA-18	Lycoming 0235C1	108	M76AM-2-48 M76AM-2-50 M76AM-2-44	Standard Cruise Dust & Spray
Piper PA-18S	Lycoming 0235C1	108	M76AM-2-46	Standard
Porterfield CP65	Continental A65	65	M74CK-46	Standard
Porterfield LP65	Lycoming 0145B	65	M74CK-2-38 M74CK-2-36	Standard Take Off
Rearwin 175	Continental A75	75	M74CK-2-38 M74CK-2-36	Standard Take Off

<u>AIRPLANE MODEL</u>	<u>ENGINE</u>	<u>H.P.</u>	<u>PROP. MODEL</u>	<u>TYPE</u>
Stinson 10, HW75	Continental A75	75	M74CK-2-38 M74CK-2-36	Standard Take-Off
Taylorcraft BC65, BC1265,L2 BC12D,BC12D1, DC65,DC065	Continental A65	65	M74CK-48 M74CK-46	Standard Take-Off
Taylorcraft BCS12D,BCS65, BCS1265,BCS12D1	Continental A65	65	M74CK-42	Standard
Taylorcraft BL65,BL1265, DL65	Lycoming O145B	65	M74CK-2-38	Standard
Taylorcraft BC12D85, BC12D485,19	Continental C85	85	M74CK-2-46 M74CK-2-44	Standard Take-Off
Taylorcraft BCS12D85, BCS12D485	Continental C85	85	M74CK-2-44	Standard

Use attaching kit #M1 for Continental Flange Shaft.

Use attaching kit #M71 for Continental Taper Shaft.

Use attaching kit #M1L for Lycoming O145.

* Use #3 Spinner

** SAE #3 Standard Flange only. Use #3 Spinner

SENSENICH

FIXED PITCH — WOOD

AIRPLANE MODEL	ENGINE MFG.	ENGINE MODEL	H.P.	RECOMMENDED SENSENICH PROPELLER	HUB NOTES
Aeronca C3	Aeronca	E 113, A, B, C,	36	69A28	6
Aeronca K	Aeronca	E 113, CB, CDB	40-45	69A30	6
Aeronca KC	Continental	A40	40	69J28	8
Aeronca LB	Rearwin	5DF, 5F	85	78R54	33
Aeronca LC	Warner	Scarab Jr.	90	80W	29
Aeronca KCA, 50C, 50FC	Continental	A50	50	76B51, 76B49	9
Aeronca 50F	Franklin	4AC 150	50	70F45, 70F47	16
Aeronca 50L, 50LA, 50TL	Lycoming	O 145 A1	50	70L45, 70L47	12
Aeronca 50L, 50LA, 50TL	Lycoming	O 145 A2	55	70L47, 70L45	12
Aeronca 60TF	Franklin	4AC 150	60	70F47, 70F45	16
Aeronca 65TC, 65TAC, 058, 65C, 65CA	Continental	A65	65	72CK42, 72CK44	1
Aeronca S65C, S65CA	Continental	A65	65	76CK34, 76CK36	1
Aeronca 65TL, 65TAL, 65LA, 65LB	Lycoming	O 145 B2	65	70LY34, 70LY36	12
Aeronca 65TF, 65TAF	Franklin	4AC 176 B2	65	72F42, 72F44	16
Aeronca 7AC, 11AC, 11ACS	Continental	A65	65	72CK42, 72CK44	1
Aeronca S7AC, S11AC	Continental	A65	65	76CK34, 76CK36	1
Aeronca 7BCM, 11BC	Continental	C85	85	72GK50, 72GK48	1
Aeronca 7DC, 11CC	Continental	C85	85	72GK44, 72GK46	1
Aeronca 15AC	Continental	C145	145	73BR44, 73BR44	3
Aeronca 7EC, 7CCM	Continental	C90	90	72GK48, 72GK50	1
Bellanca 149B	Rearwin	5F, 5G	90	74B58	33
Bellanca 14 12F3	Franklin	6AC264F3	120	74CF57, 74LN60	19
Bellanca 14 13, 14 13 2	Franklin	6A4 150 B3	150	74RR66	3
Bellanca 149L	Lenape	LM5	95	74LN60	33
Bird B K	Kinner	K5	100	90BA49	37
Boeing PT13, N2S575 Series	Lycoming	R68011	220- 225	98AA68	5
Boeing PT17, N3S375 Series	Continental	R6705	220	98AA64, 98AA68	5
Boeing PT17, N2S375 Series	Continental	R6705	220	98AB64, 98AB68	22
Boeing PT17, N2S375 Series	Continental	R6705	220	98AC64, 98AC68	11
Call A	Lycoming	O 235	100	74FE44, 74FE46	14
Call A2	Lycoming	O 290	125	76JB48	15
Call A3	Continental	C 125	125	76JR48	3

<u>AIRPLANE MODEL</u>	<u>ENGINE MFG.</u>	<u>ENGINE MODEL</u>	<u>H.P.</u>	<u>RECOMMENDED SENSENICH PROPELLER</u>	<u>HUB NOTES</u>
Cessna AW	Warner	Scarab	125	90BA51	35
Cessna C34, C37, C38, C145	Warner	Super Scarab	145	82R81	37
Cessna C34, C37, C38, C145	Warner	Super Scarab	145	82RA81	35
Cessna C165	Warner	Super Scarab	165	82RA81	35
Cessna UC78, T50, AT17	Jacobs	L4 MB	225 245	90JA81	5
Cessna 120, 140	Continental	C85	85	74FK49, 74FK47	1
Cessna 140	Continental	C90	90	74FK51	1
Cessna 170, 170A	Continental	C145	145	73BR50	3
Champion 7EC	Continental	C90	90	72GK48, 72GK50	1
Commonwealth 185	Continental	C85	85	74FK47	1
Culver LCA	Continental	A75	75	70A52, 70A54	9
Culver LFA	Franklin	4AC 176F3	80	70AF54	16
Culver LFA	Franklin	4AC 176D3	80	70AF52	16
Culver Dart G	Lambert	R 266	90	76D57	
Culver Dart GK	Rearwin	5F	90	78R54	33
Culver Dart GW	Warner	Scarab JR	90	78RW63	35
Ercoupe 415C	Continental	A65	65	72CK44, 72CK42	1
Ercoupe 415C, 415CD, 415D	Continental	C75	75	74FKT48, 74FKT50	1
Ercoupe 415D, E, G	Continental	C85	85	74FKT48, 74FKT50	1
Fairchild 24J, 24G, 24W9, 24W40, 24W41	Warner	Super Scarab	145	86C67	37
Fairchild 24J, 24G, 24W9, 24W40, 24W41	Warner	Super Scarab	145	86CA67, 86CA69	35
Fairchild 24C8F, 24H	Ranger	6 390 D3	150	86BS58	37
Fairchild 24C8F, 24H	Ranger	6 390 D3	150	86BAS58	35
Fairchild 24K, 24R9, 24R9S	Ranger	6 410 B1, B2	165	86BS58, 86BS55	37
Fairchild 24C8E, 24C8C, 24 Sea- Plane	Warner	Super Scarab	145	86C63	37
Fairchild 24C8E, 24C8C, 24 Sea- plane	Warner	Super Scarab	145	86CA63	35
Fairchild 24C8F, 24C8D	Ranger	6 390 B, D, D3	145	86BS53	37
Fairchild 24C8F, 24C8D	Ranger	6 390 B, D, D3	145	86BAS53	35
Fairchild 24R40	Ranger	6 410 B3	175	86BS55	37
Fairchild 24R40	Ranger	6 410 B3	175	86BAS55	35
Fairchild M62A, PT19	Ranger	6 440 C3	180	86R61, 86R58	35

SENSENICH — CONTINUED

<u>AIRPLANE MODEL</u>	<u>ENGINE MFG.</u>	<u>ENGINE MODEL</u>	<u>H.P.</u>	<u>RECOMMENDED SENSENICH PROPELLER</u>	<u>HUB NOTES</u>
Fairchild M62A, PT-19	Ranger	6 440 C3	180	86RA61, 86RA58	5
Fairchild M62A3, PT-26	Ranger	6 440 C5	200	86R61, 86R58	35
Fairchild M62A3, PT-26	Ranger	6 440 C5	200	86RA61, 86RA58	5
Fairchild M62B	Warner	Super Scarab 165	165	86CA69	35
Fairchild M62B	Warner	Super Scarab 165	165	86CB69	36
Fairchild PT-23, M62C	Continental	W670	220	90LA78	5
Fairchild C61, UC61K	Ranger	6 440 C5	200	86AB54	36
Fairchild C61, UC61.24W41A	Warner	Super Scarab 165	165	86CA69	35
Fairchild 24W46, C61, UC61.24W41A	Warner	Super Scarab 165	165	86CB69	36
Fairchild 24R46	Ranger	6 440 C3	175	86RB60	36
Fairchild 24R46 Seaplane	Ranger	6 440 C3	175	86BB55	36
Fairchild 24C8E 24C8C	Warner	Super Scarab	145	86C63	35
Fleet 1	Warner	Scarab	125	90BA45	37
Fleet 7, 8, 9, 10, 16B	Kinner	B5	125	90D67	24
Fleet 7, 8, 9, 10, 16B	Kinner	B5	125	90DA67	26
Fleet 2	Kinner	K5	100	90BA49	37
Fleet 80 Canuck	Continental	C85	85	74FK47, 74FK49	1
Fleet 80 Canuck Seaplane	Continental	C85	85	76RK40	1
Funk B	Funk	E	63	755CF40	20
Funk B75L	Lycoming	G0 145 C	75	76L56, 76L58	13
Funk B85C	Continental	C85	85	72GK48	1
Globe Swift GC1B	Continental	C125	125	73BR54	3
Globe Swift GC1B	Continental	C125	125	73BE54	27
Globe Swift GC1B	Continental	C125	125	73EG54	10
Grumman Widgeon G44, G44A	Ranger	6 440 C5	200	82RS72	35
Howard DGA 18	Warner	Scarab	125	90BA45	37
Howard DGA18K	Kinner	R 52	160	92HBSPA74	24
Howard DGA 18K	Kinner	R 56	160	92H72	28
Interstate S1A	Continental	A 65	65	72CK44, 72CK42	1
Interstate S1A65F	Franklin	4AC 176B2	65	72F44, 72F42	16
Interstate S1A90F	Franklin	4AC 199E2	90	72DF49, 72DF48	17
Luscombe Phantom 1	Warner	Super Scarab	145	86C69	37

<u>AIRPLANE MODEL</u>	<u>ENGINE MFG.</u>	<u>ENGINE MODEL</u>	<u>H.P.</u>	<u>RECOMMENDED SENSENICH PROPELLER</u>	<u>HUB NOTES</u>
Luscombe 8	Continental	A50	50	76B51	9
Luscombe 8A	Continental	A65	65	76CK44, 76CK42	1
Luscombe 8A Seaplane	Continental	A65	65	76CK38, 76CK40	1
Luscombe 8B	Lycoming	O 145 B	65	70LY38	12
Luscombe 8C, 8D	Continental	A75	75	72GK46, 72GK48	1
Luscombe 8E	Continental	C85	85	72GK50, 72GK52	1
Luscombe 8F	Continental	C90	90	72GK52	1
Luscombe 11A	Continental	E165	165	80EY80	4
Luscombe 8F	Continental	C90	90	72RK56, 74FK51	1
Meyers OTW 120	Warner	Scarab	125	90BA45	37
Meyers OTW 145	Warner	Super Scarab	145	86CA67	35
Meyers OTW160	Kinner	R56	160	92H76	28
Mooney M-18L	Lycoming	O 145 B	65	66CB54, 60MY49	12
Monocoupe 90AL115	Lycoming	O 235 C1	108	72TM50	2
Monocoupe 90, 90A	Lambert	R266	90	76D57	
Monocoupe 90AF	Franklin	4 AC199 E3	90	74FDS48	17
Piper E2	Continental	A40	40	69C23, 69C26	8
Piper J2, J3	Continental	A40	40	69C23, 69C26	8
Piper J3C50	Continental	A50	50	76B47, 76B49	9
Piper J3C65	Continental	A65	65	72CK42, 72CK44	1
Piper J3C65 (Dusters)	Continental	A65	65	72CK40	1
Piper J3C75 (Dusters)	Continental	A75	75	70D40	9
Piper J3 Duster & Sprayer	Continental	C85	85	72GK44, 72GK42	1
Piper J3C65S	Continental	A65	65	76CK34, 76CK36	1
Piper J3F50	Franklin	4AC 150	50	70F43, 70F45	16
Piper J3F60	Franklin	4AC171, 4AC150	60	70F47, 72F40	16
Piper J3F65	Franklin	4AC 176B	65	72F42, 72F44	16
Piper J3L	Lycoming	O 145 A1	50	70L43, 70L45	12
Piper J3L	Lycoming	O 145 A2	55	70L45, 70L47	12
Piper J3L65	Lycoming	O 145 B	65	70LY34, 70LY36	12
Piper J3L65S	Lycoming	O 145 B	65	70LY32	12
Piper J4	Continental	A50	50	76B47, 76B49	9
Piper J4A	Continental	A65	65	72CK42, 72CK44	1
Piper J4B	Franklin	4AC 171	60	70F47, 72F40	16
Piper J4E	Continental	A75	75	70D42, 70D44	9
Piper J4F	Lycoming	O 145 B	65	70LY36, 70LY34	12
Piper J5A	Continental	A75	75	70D40, 70D42	9
Piper J5B	Lycoming	G0 145C	75	78LY52	13
Piper AE1, J5C	Lycoming	O 235	100	74FE46, 74FE44	14
Piper L14	Lycoming	O 290	125	76JB44	15
Piper PA-11, PA-17	Continental	A65	65	72CK42, 72CK44	1
Piper PA-11, PA-18	Continental	C90	90	72GK50, 72GK52	1
Piper PA-11 Seaplane	Continental	A65	65	76CK34, 76CK36	1

SENSENICH — CONTINUED

<u>AIRPLANE MODEL</u>	<u>ENGINE MFG.</u>	<u>ENGINE MODEL</u>	<u>H.P.</u>	<u>RECOMMENDED SENSENICH PROPELLER</u>	<u>HUB NOTES</u>
Piper PA-11 Seaplane	Continental	C90	90	72GK48, 76CK38	1
Piper PA-12	Lycoming	O 235 C	100	76RM44, 76RM43	2
Piper PA-12	Lycoming	O 235 C1	108	76RM46, 74FM50	2
Piper PA-12 Seaplane	Lycoming	O 235 C	100	76RM41	2
Piper PA-14, PA-16, PA-18, PA-20	Lycoming	O 235 C1	108	74FM52, 74FM50	2
Piper PA-15	Lycoming	O 145 B	65	70LY36, 70LY38	12
Piper PA-20, PA-22 "125"	Lycoming	O 290 D	125	74FM57	2
Piper PA-20, PA-22 "135"	Lycoming	O 290 D2	135	74FM57	
Piper PA-18, PA-18A	Lycoming	O 290 D	125	74FM52, 74FM50	2
Piper PA-18, PA-18A	Lycoming	O 290 D2	135	74FM52, 74FM50	2
Porterfield 35 70	Rearwin	5 D E	70	78R50	33
Porterfield 35W	Warner	Scarab, Jr.	90	80W	29
Porterfield CP50, CP55	Continental	A50	50	76B49, 76B47	9
Porterfield CP65	Continental	A65	65	72CK44, 72CK42	1
Porterfield FP65	Franklin	4 AC 176 B1	65	72F46, 72F44	16
Porterfield LP65	Lycoming	O 145 B	65	70LY38, 70LY36	12
Rearwin 3000JR	Szekely	SR3	45	755	38
Rearwin 9000	Warner	Scarab Jr	90	80W	29
Rearwin 7000	Rearwin	5DE	70	78R50	33
Rearwin 8125, 8135, 8135T	Rearwin	7F, 7G	120	78R57, 78R59	33
Rearwin 8500, 9000 KR, 9000L	Rearwin	5G	85- 90	78R50	33
Rearwin 165	Continental	A65	65	72CK44, 72CK42	1
Rearwin 175	Continental	A75	75	70D44, 70D42	9
Rearwin 180 F	Franklin	4 AC 176 F3	80	70DF 48	16
Ryan STA	Menasco	C4	125	80R70	31
Ryan SCW 145	Warner	Super Scarab	145	82RA77	35
Ryan SCW 145	Warner	Super Scarab	145	82R77	37
Ryan ST3KR, PT22	Kinner	R56	160	90H86	28
Ryan ST3KR, PT22	Kinner	R56	160	90HA86	5A
Stearman Hammond YLS	Menasco	C4S	150	80CL	32
Stinson 10, HW75	Continental	A75	75	70D40, 70D42	9
Stinson 10, 105, HW75	Continental	A80	80	70D42, 70D40	9
Stinson 10A	Franklin	4AC 199E2	90	72DF48, 72DF49	17
Stinson L5	Lycoming	O 435	190	85RW57	35
Stinson L5	Lycoming	O 435	190	85RB57	36
Stinson 108	Franklin	6A4 150 B31	150	76JA53	18
Stinson 108-1	Franklin	6A4 150 B3	150	76JR53, 76JR55	3

SENSENICH — CONTINUED

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AIRPLANE MODEL	ENGINE MFG.	ENGINE MODEL	H.P.	RECOMMENDED SENSENICH PROPELLER	HUB. NOTES.
Stinson 108, 108-1 Seaplane	Franklin	6A4 150 B3	150	76JR51, 76JR53	3
Stinson 108-2, 108-3	Franklin	6A4 165 B3	165	76JR53, 76JR55	3
Stinson 108-2 Seaplane	Franklin	6A4 165 B3	165	76JR51, 76JR53	3
Taylorcraft BC	Continental	A50	50	76B51, 76B49	9
Taylorcraft A	Continental	A40	40	69J28	8
Taylorcraft BC65, BC1265, L2	Continental	A65	65	72CK42, 72CK44	1
Taylorcraft BC12D, BC12D1	Continental	A65	65	72CK44, 72CK42	1
Taylorcraft BCS12D, BCS65, BCS1265, BCS12D1	Continental	A65	65	76CK34, 76CK36	1
Taylorcraft BF60	Franklin	4AC 171	60	70F47, 72F40	11-19
Taylorcraft BF	Franklin	4AC 150	50	70F45, 70F43	16
Taylorcraft BF65, BF1265	Franklin	4AC 176 B2	65	72F42, 72F44	16
Taylorcraft BL65, BL1265, DL65	Lycoming	O 145 B	65	70LY36, 70LY38	12
Taylorcraft BL	Lycoming	O 145 A1	50	70L45, 70L43	11-19
Taylorcraft BL	Lycoming	O 145 A2	55	70L47, 70L45	11-19
Taylorcraft DC65, DC065	Continental	A65	65	72CK42, 72CK44	1
Taylorcraft DF65	Franklin	4AC 176	65	72F42, 72F44	16
Taylorcraft BC12D85, BC12D485	Continental	C85	85	72GK48, 72GK50	1
Taylorcraft 19	Continental	C85	85	72GK46, 72GK48	1
Thorp T-11 Skyscooter	Lycoming	O 145 B2	65	66CB45, 66CB43	11-19
Waco RNF, RBA	Warner	Scarab	125	90BA45	37
Waco UKC, UIC, UBA, UEC	Continental	R 670 A	210	100CC65	11
Waco UPT14, UPF7, UIC	Continental	W 670 BA	225	98C70, 98AC68	11
Waco YMF, YQC, YOC, YKS, YKC	Jacobs	L4	225	100CD67	23
Waco QCF, QDC, QSO	Continental	A70, A702	165	100CC58	11

SENSENICH—CONTINUEDHUB NOTES

No.	Manufacturer	Type	Hub Model No.	Propeller Hub Dimensions			
				Thick- ness	Bore	Bolt Circle Dia.	No. & Dia. of Bolt Holes
1	Engine Mfg.	Integral Flange	SAE Standard				
2	Engine Mfg.	Integral Flange	No. 1 Flange SAE Standard	3 3/8	2.255	4 3/8	6@3/8
3	Engine Mfg.	Integral Flange	No. 2 Flange SAE Standard	3 1/2	2.255	4 3/4	6@3/8
4	Engine Mfg.	Integral Flange	No. 3 Flange SAE Standard	4	2.255	5 1/4	8@3/8
			No. 4 Flange	5	2.255	6	8@7/16
5	Air Force	SAE 20 Spline	41G2325-9	6	3.880	7	8@7/16
5A	Air Force	SAE 20 Spline	41G2325-6	5 1/4	3.880	7	8@7/16
6	Aeronca	Taper	805	2 1/2	1.755	5	6@3/8
8	Continental	SAE No. 0 Taper	A3482	3 1/4	2.255	4	6@3/8
9	Continental	SAE No. 0 Taper	A3746	3 3/8	2.255	4 3/8	6@3/8
10	Continental	SAE 10 Spline	A40611	4	2.755	5 1/4	8@3/8
11	Continental	SAE 20 Spline	A4064	6	3.151	6.693	8@1/2
12	Lycoming	Integral Flange		3 1/4	1.875	4 3/8	6@3/8
13	Lycoming	Integral Flange		3 1/2	1.875	4 3/4	6@3/8
14	Lycoming	Integral Flange		4	2.192	4 3/4	6@3/8
15	Lycoming	Integral Flange		4	2.192	5 1/4	8@3/8
16	Franklin	Integral Flange		3 1/4	2.005	4	6@3/8
17	Franklin	Integral Flange		4	2.005	4	6@3/8
18	Franklin	Integral Flange		4	2.005	5	8@3/8
19	Franklin	Integral Flange		4	2.005	5	8@7/16
20	Funk	Taper	14	4	2.380	4 23/32	6@3/8
22	Jacobs	SAE 20 Spline	90205	6	3.817	6.693	8@41/64
23	Jacobs	SAE 20 Spline		6	3.443	6.693	8@1/2
24	Kinner	SAE No. 1 Taper	610	4	2.692	5 1/4	8@3/8
26	Kinner	SAE 10 Spline	1475	4	3.255	5 1/4	8@3/8
27	Kinner	SAE 10 Spline	1475	4	3.255	5 1/4	8@7/16
28	Kinner	SAE 20 Spline	1609, 42K14179	4	4.130	6 1/4	8@7/16
29	Menasco	Taper Shaft	2016A	4	2.692	5 1/4	8@3/8
31	Menasco	(Propeller Model 80R)		4 3/8	2.949	5 1/4	8@3/8
32	Menasco	SAE 10 Spline	2257A				
33	Rearwin	Leblond No. 1 Taper	05057	4	2.692	4 5/8	6@7/16
35	Warner	SAE 20 Spline	7900, 8530, 8599	4 1/8	3.255	5 1/4	8@3/8
36	Warner	SAE 20 Spline	8808, 43D24385	4 1/8	3.255	6 3/16	6@3/8
37	None	SAE No. 1 Taper	0 X 5	4	2.692	5 1/4	8@3/8
38	Szekely	Taper Shaft					

SENSENICH
CONTROLLABLE

<u>AIRPLANE</u>	<u>MODEL</u>	<u>ENGINE MFG.</u>	<u>SENSENICH INSTALLATION KIT</u>	<u>H.P.</u>	<u>RECOMMENDED PROPELLER</u>	<u>HUB. NOTES</u>
Piper	PA-12		C-2922		C-2FM5/PC-276A6	
Piper	PA-14		C-2922		CS-2FM6/PC-276A6-2	
Stinson	108-2	Franklin	C-3922	165	C-3FR4/PC-376B3	
Stinson	108-3	Franklin	C-3982	165	C3FR4/PC-376B3	

8 January 1945

AIRCRAFT AND MAINTENANCE PARTS

VULTEE—REPLACEMENT OF FIXED PITCH WOOD PROPELLERS—L-5

This Technical Order replaces T. O. No. 01-50DB-18, dated 15 November 1944, revised to include the 43K23447 propellers in the list of propellers to be replaced.

NOTE As prescribed in T. O. No. 00 20A, appropriate reference to this Technical Order will be entered on AAF Forms 60-A for the aircraft affected. The work directed herein will be accomplished as soon as possible and not later than the next 100-hour inspection period by activities at which the aircraft are located with the aid of base maintenance facilities and area Air Technical Service Commands, if necessary.

1. To eliminate possible failure of the propeller while in flight due to the inherent weakness at the hub section of the propeller, all fixed pitch wood propellers, part Nos. 85LY57, 85LY58, 43K23447, and 44K17191, will be removed from the subject airplanes and replaced with fixed pitch propeller of a new design as listed in paragraph 2. Metal hubs will be modified as prescribed in paragraph 3., if not previously modified.

2. Install propeller, part No. 44K15005, with modified hub, part No. 8808M (Warner) or part No. 8803 (Warner), on all L-5 airplanes.

3. Hubs, part Nos. 8599 and 8530, removed with the propellers listed in paragraph 1., will be modified as follows:

- Remove the metal hub from the propeller.
- Locate the centers of the six holes on the hub and hub flange as shown in figure 1,
- Drill holes as shown in figure 1.

NOTE Drill and ream holes to $.375 + .001$
 $-.000$.

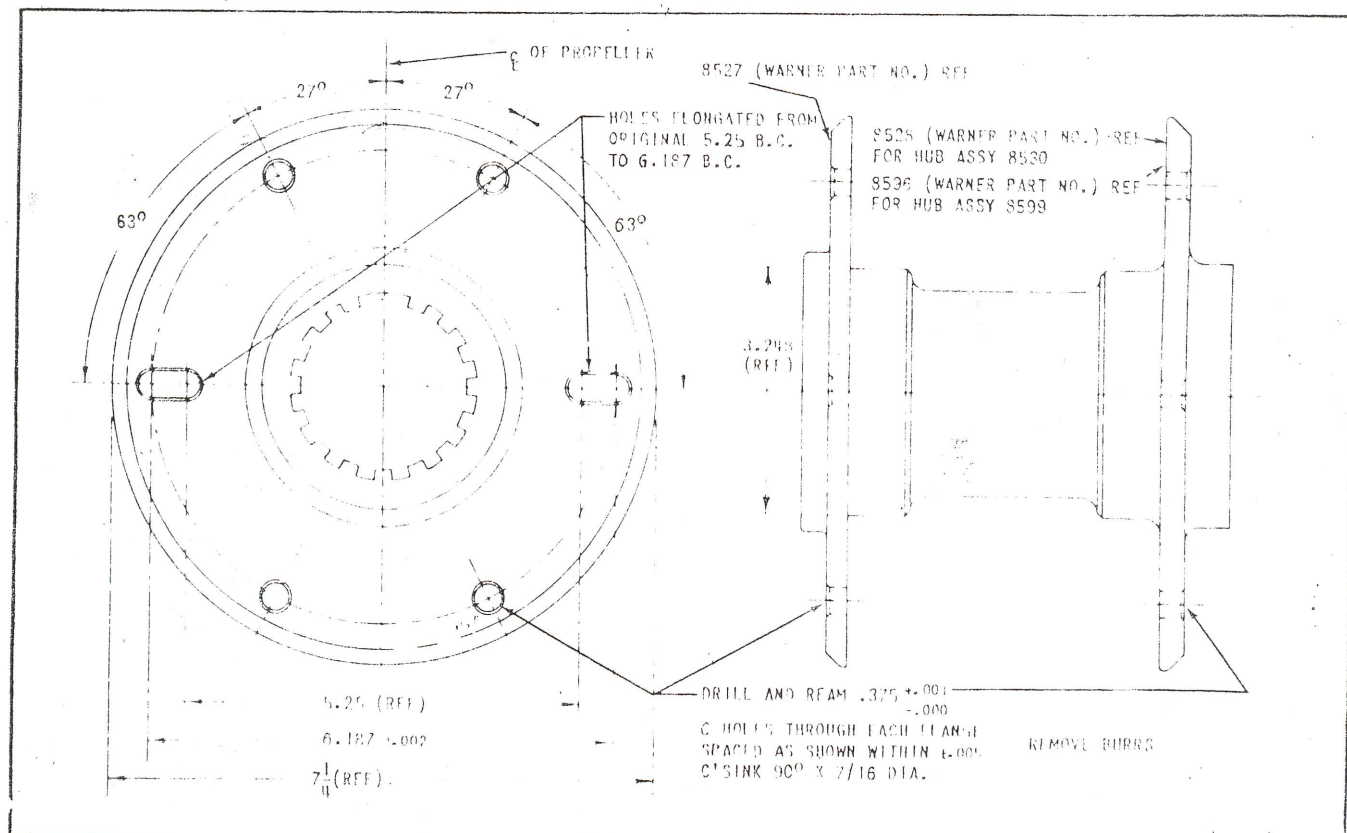


Figure 1 - Hub Assembly Propeller (Rev)

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Classification Cancelled
Auth: CG

8-7/16 bolts in 6.673
c/d
Air Force SAE 20 spline
Hub P/N 41G 2325-6 (57)
41G 2325-9 (60) (chuck)

d. Rework the two flanges in each flange located 90 degrees from the center line of the wide spline as shown in figure 1.

NOTE This can be accomplished either on a milling machine or by hand filing and the tolerance on the dimension $\phi .187$ between centers of the elongated bolt holes (figure 1) is for guidance only.

g. Chamfer the outside edges of the holes. (See figure 1.)

f. Upon completion of this modification, Warner hub assemblies, part Nos. 8599 and 8530, will appear as shown in figure 2.

g. Hubs, after completion of modification, will have part No. 8808M stamped or etched on the outside face of each flange. The old part number will be removed and hubs stocked under new part No. 8808M.

4. a. The following propeller is required per airplane to accomplish this change:

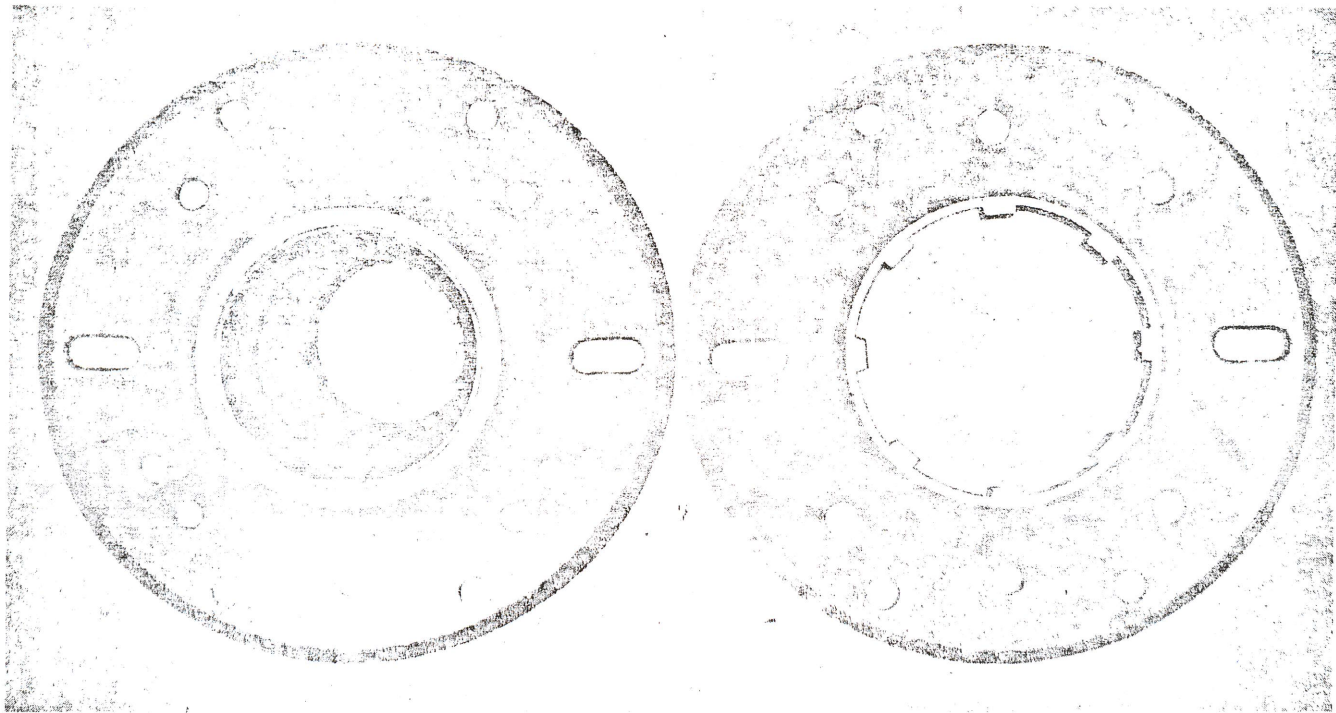


Figure 2 - Modified Hub Assemblies

QTY	STOCK NO.	NOMENCLATURE	CLASS	SOURCE
1	4004-44K15J05	Propeller - Fixed pitch wood	03-A	AF Stock

b. The following parts removed in accordance with the preceding instructions, and all like items in stock will be condemned at once, and so tagged for disposition as condemned property.

PART NO.	NOMENCLATURE	CLASS
44K17130	Propeller - Fixed pitch wood	03-A
85LY57	Propeller - Fixed pitch wood	03-A
85LY58	Propeller - Fixed pitch wood	03-A
43K23447	Propeller - Fixed pitch wood	03-A

By Command of General ARNOLD:

Prepared by
Maintenance

Section,

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