DESCRIPTION AND MAINTENANCE INSTRUCTIONS

SUMMARY OF PROPELLER & GOVERNOR DATA FOR SERVICE AIRCRAFT

(This EO replaces EO 15-30-2A dated 7 Sep 56)

PURPOSE

1 To consolidate propeller and governor data.

GENERAL

2 This list contains approved propellers and governors for use on service aircraft. All governors listed opposite a particular aircraft are interchangeable. Any deviation from information given, or suggested changes are to be referred to AMCHQ.

LEGEND FIGURE 1

3 The following are abbreviations found in Figure 1:-

W	Wood	R	Reversible
A	Aluminum	CS	Constant speed
S	Steel	H	Hydromatic
2	2 blade	F	Feathering
3	3 blade	HS	Hamilton standard
4	4 blade	AP	Aero Products
FP	Fixed pitch	DH	DeHavilland

NOTE 1

Dakota Aircraft - Propeller 25A/256 (23E50-473) hub with 6353A-18 blade is to be used only on authority of AMCHQ.

NOTE 2

When reversing is not used on hydromatic reversing propellers, the reverse stop ring is to be set to the specified low pitch angle. Propellers 25A/257, 25A/280 and 25A/282 are interchangeable.

NOTE 3

Propellers 25A/244 and 25A/255 are interchangeable for Dakota installation. Propellers 25A/320 and 25A/220 are interchangeable for Mitchell installation. Propeller 23E50-505 incorporates a faired-knee cam.

NOTE 4

Model 5U18 governors are not interchangeable without altering the RPM and HPRV settings.

AIRCRAFT & ENGINE	PROPELLER REF 25A/	PROPELLER TYPE	BLADE DRAWING	HUB DRAWING	DIAMETER	BLADE CONTROL PITCH	GOVERNOR REF 25A	GOVERNOR OR REGULATOR TYPE
AUSTER 6 DH Gypsy Major 7 AUSTER 7	253	Horden Richmond W, 2, FP.	HR671/R		6'10"			
DH Gypsy Major 10	265	Fairey Reid A, 2, FP.	A94103A/ X11		6'9"			
BRISTOL FREIGHTER 170 Hercules 734	198	DH, A, 4, H, F.		PD122/ 446/2	14'	Basic pitch setting 26-102°. Fine pitch setting 26°.	192	DH PAY6200
CANSO "A" P&W R1830-92 or SIC-3G	209	HS, A, 3, H, F.	6353A-12	23E50-473	12'1"	High 88° Low 17° Range 10°-90°	301 302	HS 4G8-G30M HS 4G8-P30M
CESSNA L19 Continental 0-470-11	331	McCauley A, 2, FP	1A200 FM9047		7'6"			
CHIPMUNK 1 & 2 DH Gypsy Major 1G DH Gypsy Major 10	265	Fairey Reid A, 2, FP	A94103A/ X11		6'9"			
DAKOTA 3 P&W R1830-92	256 (Note 1)	HS, A, 3, H, F	6353A-18	23E50-473	11'7"	High 88° Low 16° Range 10°-90°	301	HS 4G8-G30M
DAKOTA 4	244	HS, A, 3, H, F	6477A-0	23E50-473	11'7"	High 88° Low 16° Range 10° - 90°		
P&W R1830-90C	255 (Note 3)	HS, A, 3, H, F	6477A-0	23E50-505	11'7"	High 88° Low 16° Range 10° - 90°	302	HS 4G8-P30M
EXPEDITOR 3 P&W R985-AN14B	305	HS, A, 2, H, F	6533A-21S	22D30-201	8'4"	High 84° Low 12° Basic 10° Range 10° - 90°	306	HS 4B2-P8

Figure 1 (Sheet 1 of 3) Summary of Propeller and Governor Data for Service Aircraft

AIRCRAFT & ENGINE	PROPELLER REF 25A/	PROPELLER TYPE	BLADE DRAWING	HUB DRAWING	DIAMETER	BLADE CONTROL PITCH	GOVERNOR REF 25A	GOVERNOR OR REGULATOR TYPE
FAIRCHILD C119F Wright 3350-85	109	HS, S, 4, H, F, R	2J17G3-26R	24260-603	15'	High 84° Low 13° Reverse - 16°	225	10C HS88775
FAIRCHILD C119G Wright 3350-85	337	AP, S, 4, H, F, R	F40K1-198-18M2	A644FN-C2	15'	High 85.3° Low 13° Reverse - 155°	342	6502775
HARVARD 2 & 4 P&W R1340-AN1 or P&W S3H1	74	HS, A, 2, CS	6101A-12	12D40-211	9'1"	High 27° Low 11° Basic 27°	288 289	HS1M12-A HS1M12-G
LANCASTER 10 Packard Merlin	248	HS, A, 3, H, F	6519A-0	23EX-583	13'1"	High 91° Low 25° Range 22°-102°	334 300	HS4G8-G60N HS4G8-G27N
MENTOR T34A Continental 0-470-13A	326	Beech 2, CS	278-207-88	278-101	7'4"		327	Beech 278-202
MITCHELL 3 Wright Cyclone R2600-29, R2600-29A or R2600-13	220 320	HS, A, 3, H, F HS, A, 3, H, F	6359A-18 6359A-18	23E50-473 23E50-505	12'7" 12'7"	High 91° Low 22° Range 18° - 98° High 91° Low 22° Range 18°-98°	332	HS 4G8-G63M
MUSTANG 4 Packard Merlin	261	HS, A, 4, H	(J6523A-24)(K6523A-24)	24D50-65	11'2"	High 65.2° Low 24.2° Range 18.2°-118.2°	307	HS4G10-P29G
V1650-7	263	HS, A, 4, H	6547A-6	24D50-65	11'2"	High 65° Low 23° Range 18.2°-118.2°		
NEPTUNE P2V7 Wright 3350-32W	330	HS, S, 4, H, F, R	2J17Z3-36S	24260-313	14'	High 82° Low 17° Reverse 22°	329	HS5U18 (Note 4)

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Figure 1 (Sheet 2 of 3) Summary of Propeller and Governor Data for Service Aircraft

AIRCRAFT & ENGINE	PROPELLER REF 25A/	PROPELL-ER TYPE	BLADE DRAWING	HUB DRAWING	DIA-METER	BLADE CON-TROL PITCH	GOVERNOR REF 25A	GOVERNOR OR REGULATOR TYPE
NORTH STAR 1 & 1M Rolls Royce Merlin 622	257 280 282 (Note 2)	HS, A, 3 H, F, R	6813A-0	43D50-1 43D50-21 43F50-61	13'1"	High 93.5° Low 23.5° Reverse -15.5°	303	HS 5U18 (Note 4)
NORTH STAR 1MST Rolls Royce Merlin 622	266	HS, A, 4, H, F	6813A-6	24D50-125	12'8"	High 93.2° Low 23.2° Range 18.2° - 118.2°	303	HS 5U18 (Note 4)
C 5 P&W R2800-CA15	281	HS, A, 3, H, F, R	6873A-0	43D60-63	13'1"	High 95° Low 28° Reverse 18°	335	HS 5U18 (Note 4)
OTTER P&W 1340 (Geared)	323	HS, A, 3 CS	6631A-9	3D40-277	10'10"	High 32° Low 19° Basic 32°	287	1A2-G5

Figure 1 (Sheet 3 of 3) Summary of Propeller and Governor Data for Service Aircraft

(a) 25A/303 used on the North Star (Merlin 622) may be models 5U18-1, -18, -35, -50 or -62. It must have an HPRV setting of 750-800 PSI and an engine RPM setting of 3000.

(b) 25A/329 used on the Neptune (R3350-32W) may be model 5U18-28 or 5U18-47. HPRV setting 950-1000. Engine RPM setting 2950.

(c) 25A/335 used on the C5 (2800-CA15) may be model 5U18-1 or 5U18-35. HPRV setting 750-800. Engine RPM setting 2800.

ISSUED ON AUTHORITY OF THE CHIEF OF THE AIR STAFF

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