

HARTZELL PROPELLER LLC Piqua, Ohio

Hartzell Governor Model F-4-21Z Revision _____

Serial No. D7794J Manufacturing Date _____

New _____ Overhauled _____ Repaired _____

Test Performed: 10/18/2024

TEST RESULTS

RPM Setting High 2286 Relief Valve Pressure 312 PSI
Low ~200

At 1750 RPM at 50 PSI input/150 PSI output:

Capacity 9.8 qts./min. Internal Leakage 1.5 oz./min.

Lever Quadrant Travel N/A @ 1810 RPM

GOVERNOR SERIES	PUMP CAPACITY (QTS/MIN)
	At 1755 RPM
A	8-12
B (without orifice)	8-12
B (with orifice)	7-12
C	8-12
D	8-12
D-1-6	7-12
E	7-12
F (with orifice)	8-12
F (without orifice)	16-20
H	7-12
S	8-12
U	8-12
V	8-12

Pump Capacity
Table 7-3

HARTZELL GOVERNOR OVERHAUL MANUAL 130B

Governor Specifications Table 8-1

MODEL	LOW RPM/ FEATHER +/- 25 RPM	HIGH RPM +/- 10 RPM SETTING	PRESSURE RELIEF	CONTROL SHAFT (1) LOCATION	INTERNAL PLUG LOCATION	CONTROL LEVER ANGLE (2)	DRIVE RATIO/ ROTATION	APPLICATION
F-4-18		2330	275-300	0	B	18	.866:1 CW	SOCATA LYC. O-360-A3A
F-4-18Z		2330	275-300	0	B	18	.866:1 CW	SOCATA LYC. O-360-A3A
F-4-19		2330	275-300	0	B		.895:1 CW	HI-COUNTRY AVIATION CALLAIR-AERO COMM.
F-4-20	1400	2100	275-300	90 CCW	B	32	.895:1 CW	PIPER PA-36 LYC. IO-720-D1CD
F-4-20Z	1400	2100	275-300	90 CCW	B	32	.895:1 CW	PIPER PA-36 LYC. IO-720-D1CD
F-4-21		2270	275-300	90 CCW	B	18	.947:1 CW	PIPER PA-28-236 LYC. O-540-J1A5D
F-4-21Z		2270	275-300	90 CCW	B	18	.947:1 CW	PIPER PA-28-236 LYC. O-540-J1A4D
F-4-22		2575	275-300	0	B	225	1.144:1 CW	GRUMMAN AMERICAN R-1340
F-4-22Z		2575	275-300	0	B	225	1.144:1 CW	GRUMMAN AMERICAN R-1340
F-4-23		2240	300-325	90 CCW	B	247	.895:1 CW	PIPER PA-36-375 LYC. IO-720-D1CD
F-4-23Z		2240	300-325	90 CCW	B	247	.895:1 CW	PIPER PA-36-375 LYC. IO-720-D1CD
F-4-24		2200	275-300	90 CW	B	135	1:1 CW	GERSCWENDER FORD V-8
F-4-24Z		2200	275-300	90 CW	B	135	1:1 CW	GERSCWENDER FORD V-8
F-4-25	1475	2440	275-300	90 CCW	B	90	.947:1 CW	BELLANCA T-250 A. GREENWOOD LYC. IO-540-A4B5
F-4-26		2295	275-300	90 CW	B	18	.850:1 CW	SOCATA LYC. O-360-A1AD
F-4-26Z		2295	275-300	90 CW	B	18	.850:1 CW	SOCATA LYC. O-360-A1AD
F-4-27		2330	275-300	90 CW	B	18	.866:1 CW	SOCATA LYC. O-360-A1A SOCATA TB-9 LYC. O-320-D1A
F-4-27Z		2330	275-300	90 CW	B	18	.866:1 CW	SOCATA LYC. O-360-A1A SOCATA TB-9 LYC. O-320-D1A

(1) See Figure 8-2.

(2) See Figure 8-3.

Copied 2-20-81

80 F-4-212	D7194J	11-7-80	F-4-112	D7454J	11-8-80	F-4-112	D7714J	12-8-80	F-4-112	D7974J	1-6-81	F-4-112	D8234J	1-6-80
↑	D7204J	↑		D7464J	↑	↓	D7724J	↑	↑	D7984J	↑	↑	D8244J	↑
	D7214J			D7474J		F-4-112	D7734J	12-8-80		D7994J			D8254J	
	D7224J		F-4-112	D7484J		F-4-212	D7744J	12-2-80		D8004J			D8264J	
↓	D7234J	↓	F-4-112	D7494J		↑	D7754J	↑		D8014J			D8274J	
F-4-212	D7244J	11-7-80	↑	D7504J			D7764J			D8024J			D8284J	
F-4-44L	D7254J	11-13-80		D7514J			D7774J			D8034J			D8294J	
↑	D7264J	↑		D7524J			D7784J			D8044J			D8304J	
↓	D7274J	↓		D7534J			D7794J			D8054J			D8314J	
F-4-112	D7284J	11-13-80		D7544J			D7804J			D8064J			D8324J	↓
F-4-232	D7294J	11-21-80		D7554J			D7814J		↓	D8074J	↓	F-4-112	D8334J	1-6-81
↑	D7304J	↑		D7564J			D7824J		F-4-112	D8084J	1-6-81	F-4-132	D8344J	1-7-81
	D7314J			D7574J			D7834J		F-4-112	D8094J	1-6-81	F-4-132	D8354J	↑
↓	D7324J	↓		D7584J			D7844J		↑	D8104J	↑	F-4-232	D8364J	
F-4-232	D7334J	11-21-80		D7594J			D7854J			D8114J		↓	D8374J	
F-4-112	D7344J	12-8-80		D7604J			D7864J			D8124J		F-4-232	D8384J	
↑	D7354J	↑		D7614J			D7874J			D8134J		F-4-212	D8394J	
	D7364J			D7624J			D7884J			D8144J		↑	D8404J	
	D7374J			D7634J			D7894J			D8154J			D8414J	
	D7384J			D7644J			D7904J			D8164J			D8424J	
	D7394J			D7654J			D7914J			D8174J			D8434J	
	D7404J			D7664J		↓	D7924J	↓		D8184J			D8444J	
	D7414J			D7674J		F-4-112	D7934J	12-22-80		D8194J			D8454J	
	D7424J			D7684J		F-4-112	D7944J	1-6-81		D8204J			D8464J	
↓	D7434J	↓		D7694J	↓		D7954J	↓	↓	D8214J	↓	↓	D8474J	↓