

Pitch Setting at 72-inch station:

Low Pitch	14° (± 0.5°)
Feathered	+82°
Reverse	-22°

Interchangeable blades - These blades can be used interchangeably in the same propeller provided they are used in pairs and installed in opposite arms and that the prefix letters for opposite blades and the cutoff dash numbers for all blades are the same.

Airspeed Limits	V _{NO} (Maximum Operating) at sea level	406 m.p.h. (350 knots)
	V _{FE} (Flaps extended 5°)	242 m.p.h. (210 knots)
	V _{FE} (Flaps extended 10°)	242 m.p.h. (210 knots)
	V _{FE} (Flaps extended 15°)	230 m.p.h. (200 knots)
	V _{FE} (Flaps extended 20°)	201 m.p.h. (175 knots)
	V _{FE} (Flaps extended 25°)	178 m.p.h. (155 knots)
	V _{FE} (Flaps extended 32°)	167 m.p.h. (145 knots)
	V _{LE} (Maximum speed gear extended)	178 m.p.h. (155 knots)
	V _A (Maximum speed)	184 m.p.h. (160 knots)
	V _{MC} (Minimum control speed)	124 m.p.h. (108 knots)

Fire Retardant Dumping Envelope (See NOTE 2)

120 knots to 145 knots (full flaps)

120 knots to 150 knots (all other flap settings)

C.G. Range	Aft of datum, landing gear extended
	362.91 to 375.53 @ 80,000
	354.71 to 375.53 @ 61,400
	Straight line variation between points given

Empty Weight C.G. Range	None
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Datum	The reference datum is located at fuselage station 0.
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Mean Aerodynamic Chord (MAC)	The leading edge of the MAC is located at fuselage station 330.1. The length of the MAC is 126.2 inches.
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Leveling Means	Level the aircraft by dropping a plumb bob from the leveling hook through the leveling grid in the nose wheel well.
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Maximum Weights	Takeoff	80,000 lbs
	Landing	67,000 lbs

Minimum Crew	Two - Pilot and co-pilot at +158"
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Number of Seats	One at +180" occupancy limited to persons essential to perform the special purpose operation.
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Fuel Capacity

	No. Tanks	U.S. Gal.	Total Fuel		ARM
			U.S. gal	Lbs	
Center Section	2	790	1580	9480	+382.5"
Wing (main)	2	715	1430	8580	+376.5"
Total permanent tankage			3010	18,060	

Oil Capacity

	No. Tanks	U.S. Gal	Total Oil		ARM
			U.S. gal	Lbs	
Nacelle Tank (expansion space)	2	80 20	160 -	1136 -	+382.7"
Jet Pod Oil Tank	2	2.75	5.5	41	+311"
ADI Fluid	2	25	50	375	+316"

Fluid - AMS- 3006 Type I which specifies 48- 52% methyl alcohol by volume and 48 - 52% water by volume.

Control Surface Movements

Aileron	Up	22° + -1°	Down	15°30' + 1°
Aileron Tab	Up	15°45' + -2°	Down	16°20' + -2°
Elevator	Up	27°37' + -1°30'	Down	27° + -1°30'
Elevator Trim Panel	Up	7° (+1/2 -0°)	Down	3° (+1/2 -0°)
Spoiler	Up	55° - 60°		
Rudder Trim Tab	Left	10°	Right	10°30'
Rudder	Left	21°	Right	21°

Aileron Spring Tab: Adjust spring tab in accordance with NAVWEPS 01-75-EEB-2-3, figure 3-16

Serial Numbers Eligible

140443, 145906 only

Certificate Basis

The certificate basis is FAR 21.25 (a) (2) and (b) (2) Type Certificate issued May 4, 1990, for the special purpose of forest and wildlife conservation (fire fighting). Date of application August 1, 1989.

Production Basis

Prior to original certification of each aircraft, an FAA representative must perform an inspection for workmanship, materials, and conformity with the approved technical data. All applicable Technical Orders affecting airworthiness must be accomplished.

Equipment

The basic required equipment as prescribed in the applicable Airworthiness Regulations (see Certification Basis) must be installed in the aircraft for certification. Equipment necessary for the particular special purpose operation must be installed. In addition, an FAA approved airplane Flight Manual Supplement is required. See NOTE 2

NOTE 1

The current weight and balance report including a list of equipment included in the certificated empty weight, and loading instructions when necessary must be in each aircraft at the time of original airworthiness certification, and at all times thereafter.

NOTE 2

The aircraft shall be operated in accordance with:

- (a) NATOPS Flight Manual NAVAIR 01-75EEB-1 dated September 1, 1969, changed April 15, 1973.
- (b) Flight Manual Supplement, dated May 4, 1990, or later FAA approved revision.

NOTE 3

Prior to civil certification, compliance with the following Department of the Navy Service Bulletins, Aircraft Bulletins, Aircraft Service Changes, Engine and Propeller Bulletins and Powerplant Changes.

SP-2H (P2V-7) Airframe Bulletins - - Nos. 1, 3, 4, 5, 6, Int 7, Int 8, Int 9, Int 10, Int 11 and Amend 1, Int 12, Int 13, Int 14, Int 17, Int 18, Int 19, Int 20 Rev B, Int 21 and Amend 1, Int 22, Int 23, Int 24, Int 25, Int 26 and Amend 1, Int 27 Rev A, Int 29 and Amend 1, Int 31 and Amend 1, Int 32, Int 33 and Amend 1, Int 36, 37, Int 38, Int 39, Int 40, Int 41, 42, Int 43, Int 44, 45, Int 46, Int 47, Int 48, Int 49 and Amend 1, Int 51

Rev A, Int 53, Int 55, Int 56, Int 59, Int 60 and Amend 1, Int 61, Int 62, Int 63, Int 65, Int 67, Int 69 and Amend 1, Int 72, Int 74, Int 75, Int 78, Int 81, Int 82, 83 Amend 1, 86, Int 88, Int 90, Int 91, Int 92, Int 93, 94, 95 and Amend 1, Int 98, 100, Int 101, 102, 103, Int 104, Int 105, 107, 108, Int 110, Int 114, Rev A, Int 115, Int 116 and Amend 1, Int 117, Int 118, and Int 119.

P2V-7 Aircraft Service Changes - - Nos. 605, 676, 681, 688, 693, 694, 697, 699, 706, 709, 711, 714, 721, 722, 724, 726, 733, 735, 736A, 737, 746, 751, 752, 753A, 758A, 765A, 767C, 768, 770, 773, 781, 783, 785, 787A, 793, 795, 798, 799, 802, 803A, 806A, 807, 808, 812, 815, 816, 817, 819, 822, 825A, 826, 831B, 839C, 841, 843, 845A, 847, 848A, 851, 856, 861A, 862, 864, 877B, 878, 882, 885, 894 Amend 1, 896 Amend 1, 896, 900, 901, 903, 904, 906, Amend 1, 912, 920, 923, 924, Amend. 1, 928, 929, Int. 931, Amend 1, 932, 934, 935, 937, 940, 941, 948, 952, 953 Amend 1, 955A, 959 Amend 2, 971, 974, 979, 980, 981, 984, 987, 988, and 991.

Wright R3350-32WA Engine Bulletins - - Nos. 115 Rev B, 296 Amend 2, 360 Rev B, 396 Amend 2, 461 Amend 1, 420, 423 Rev B, 445 Rev C, 469 Rev A, Amend 2, 474 Rev A, 485 Rev A, 486 Amend 1, 489 Rev B, 490 Rev A, 491 Rev A, 515, 516, 517, 518, 519 Amend 1, 520 Amend 1, 562 Rev A, 563 Amend 2, 564 Rev B, Amend 2, 566 Rev B, 599 Rev A, 622 Rev A, 625 Rev A, Amend 1, 635 Rev C, 642, 646 Rev A, 653 Amend 1, 656 Rev A, 663, 680 Rev A, 681, 682 Rev A, 685, 686, 688, 689, 691 Amend 1, 693, 694 Amend 1, 697, 698, 699, 700, 702, 703, 705, 706, 707, 708, 709, 710, 711 Amend 1, 713 Rev A, 714 Rev B, 715, 716 Amend 1, 717, 718, 719, 720, 721 Rev B, Amend 1, 722, 726 Amend 1, 727, 731, 732, 735, 736, 737, 742 Amend 2, 748, 750, 751 Rev A, and 752.

J-34-WE-36 Turbo - Jet Engine Bulletins - - Nos. Engine Bulletin No. 0, 181, 183, 199, 202, 208, 232, 236, 241, 244, 245, 246, 247, 265, 266A and Amend 1, 275 and Amend 3, 279, 280, 291, 296 Rev B, 303, 308 Rev A, 312, 313, 314, 320, 322, 323 Rev A, 326 Rev A, 328 Amend 1, 332, 333, 334, 335, 338 Rev A, 339, 341, 342, 343 Amend 1, 345, 346, 347, 349 Rev A, Amend 1, 350, 351, Amend 1, 353, 354 Rev A, 355 Rev B, Amend 1, 356, 361, 363, 364, 365, 366, 368, 370 Rev A, 371 Rev A, 374, 376 Amend 1, 378, 380, 381 Rev A, Amend 1, and 382.

Hamilton Standard Propeller P/N 24260 Propeller Bulletins - - Nos. 270, 272, 275, 276, 277, 293, 311, 312, 317, 318, 324, 338, 346A, 360, 361A, 362, 368A, 370, 373A, 376, 377, 390, 401, 402, 405, 415A Amend 3, 417, 419, 422B, 429, 432, 435 and Amend 1, 436, 440A and Amend 1, 447, 450, 462, 463, 467 Amend 2, 474, 486, 488, 489, 491, 492, Rev A, 494, 502, 505A, 506A, 509, 515A, 516, 527A, 531, 532, 535A, 541, 544A, 551, 555, 600A.

- NOTE 4 This approval applies to basic P2V-7 (Sp-2H) aircraft modified by Hawkins and Powers Aviation, Inc. Drawing Lists HPA-8000DL and HPA-8100DL, or other approved data.
- NOTE 5 Restricted Aircraft Airworthiness Certificates issued are effective under FAR 21.181 (a) (1) as long as maintenance and preventive maintenance are performed in accordance with FAR 43 and FAR 91, Subpart E.
- NOTE 6 All autopilot equipment must be removed.

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