

FEDERAL AVIATION ADMINISTRATION

H5SW
Revision 15
Scott's – Bell 47, Inc.
(Tom-Cat Helicopter, Inc.)
U.S. Army OH-13H
August 7, 2014

TYPE CERTIFICATE DATA SHEET NO. H5SW

This data sheet which is a part of type certificate No. H5SW prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder	Scott's – Bell 47, Inc. 100 Minnesota Avenue Le Sueur, MN 56058
Type Certificate Holder Record	Texas Helicopter Co. Inc. transferred H5SW to Tom-Cat Helicopters, Inc, on September 10, 1979 Tom-Cat Helicopters, Inc. transferred H5SW to Continental Copters, Inc., on October 12, 1981 Continental Copters, Inc. transferred H5SW to Coastal Helicopters, Inc, on January 7, 2011 Coastal Helicopters, Inc. transferred H5SW to Texas Helicopters, Inc, on October 20, 2011 Texas Helicopter Co. Inc. transferred H5SW to Scott's – Bell 47, Inc, on August 7, 2014

I - U.S. Army Model OH-13H, 3 PCLH (Restricted Category), Approved May 25, 1973

	See Note 3 for required modification to single place configuration, Tomcat Mark 5A or Tomcat Mark 6B, or Tomcat Mark 6C	
Engine Fuel	Lycoming 0-435-23 (VO-435-A1C); See Note 8 for alternates 80 minimum grade aviation gasoline	
Engine limits	Maximum (Sea Level) 26.8 in. Hg., 3200 r.p.m. (240 h.p.)	
Rotor limits and operational engine speeds	<u>Power Off (Rotor Tach.)</u>	<u>Power On (Engine Tach.)</u>
	Maximum 370	Maximum 3200
	Minimum 322	Minimum 2900
Airspeed limits	Vne 87 knots S.L. to 3000 ft. Reduce Vne 3 knots/1000 ft. above 3000 ft.	
C.G. range	(+82) to (+89) aft of datum	
Empty weight C.G. range	See TM 55-1520-224-10, "Operators Manual," Chapter 12, Section III	
Datum	87 inches forward of main rotor mast center line.	
Leveling means	Three leveling lugs lower left hand longeron and diagonal tube aft of mast and forward of aft cross tube.	
Maximum weights	2450 lb. design weight 2750 lb. operating weight.	

No. of seats	3 (Pilot and 2 passengers)
Maximum baggage	See loading instructions in TM 55-1520-224-10 Chapter 7, Section II.
Fuel capacity	41 gal. (+89.95)
Oil capacity	2 gal. (+111.5)
Rotor Blade and Control movements	For rigging information refer to TM 55-1520-224-20, Organizational Maintenance Manual Army Model OH-13 helicopters, dated 1 October 1969, updated to Change 4, Chapter 9, Section III.
Other operating limitations	Operators Manual (Model OH-13E, OH-13G, and OH-13H helicopters), "TM 55-1520-224-10, Basic October 1, 1969, updated to Change C-3 July 2, 1971, Chapter 7 and See Note 3 for special purpose modification and Note 7 for Noise Control Limitations.
Serial Nos. eligible	All U.S. Army serial numbers (TM 55-1520-224-20, Chapter 1, Section I) and CCI-73-1 and subsequent.
Certification basis	FAR 21.25(a)(2) (Special purpose modification ref. CAR Part 6 effective October 2, 1959), effective February 1, 1965. Type Certificate No. H5SW issued May 25, 1973, for agricultural use. Date of Application November 5, 1972.
Production Basis	None. No. OH-13H helicopters may be produced. OH-13H helicopters modified to Tomcat Mark 5A, Mark 6B, or Mark 6C helicopters may be produced in accordance with the type certificate. Prior to original airworthiness certification of each aircraft, an FAA representative must perform a detailed inspection for workmanship, materials, and conformity with the approved technical data. A check of flight characteristics must be performed.
Equipment:	The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification Basis) must be installed in the aircraft for certification except compass is optional. In addition, equipment for the special purpose must be installed.
NOTE 1.	Current weight and balance report, including list of equipment included in the certificated empty weight, and loading instructions, when necessary, must be provided for each aircraft at the time of original certification and at all times thereafter.
NOTE 2.	The appropriate placard must be displayed in view of the pilot as shown on TC-M&O-005. - For the OH-13H/Tomcat Mark 5A "This helicopter to be operated in compliance with the operating limitations specified in TM 55-1520-224-10 and the FAA approved supplement thereto or Continental Copters Flight Manual Model OH-13H-Tomcat MK5A." - For the OH-13/Tomcat Mark 6B or Mark 6C "This helicopter to be operated in compliance with the operating limitations specified in the FAA approved Continental Copter, Inc., U.S. Army OH-13H-Tomcat MK 6B or MK 6C Flight Manual." All placards required in the approved helicopter flight manual supplement or the approved helicopter flight manual must be installed in appropriate locations.
NOTE 3.	Prior to original airworthiness certification of the OH-13H helicopters one of the following must be accomplished: - Incorporate the single place modification, Tomcat Mark 5A described by FAA approved Drawing List - Tomcat Mark 5A, dated March 15, 1973. This list also includes E.O. No. 51 that requires compliance with certain A.D.s and that requires modifications based on military service experience. See Note 5 for the limitations applicable to the single place modification, Tomcat Mark 5A. - Incorporate the single place modification, Tomcat Mark 5A as noted in a. and incorporate the S.T.C. No. SH1878SW modification for the Continental Copters, Inc. Model OH-13H/Tomcat Mark 6B or Mark 6C. See Note 9 for the limitations applicable to the OH-13H/Tomcat Mark 6B or Mark 6C configuration.
NOTE 4.	Information essential for proper maintenance of the helicopter is contained in TM 55- 1520-224-20, dated