

United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate

Number SH504GL

This certificate issued to Scott's-Bell 47, Inc.
100 Minnesota Avenue
Le Sueur, MN 56058

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 6 of the Civil Air Regulations. (See page 3 for complete certification basis).

Original Product--Type Certificate Number : 2H3
Make : Bell Helicopter Textron
Model : 47G-3B and 47G-3B-1

Description of Type Design Change:

Installation of Lycoming V0-435-A1F engine modified in accordance with STC SE144GL and associated changes in accordance with FAA stamped Tom-Cat Helicopters, Inc. modification instructions dated September 3, 1980, (23 pages), or later FAA approved revisions.

Limitations and Conditions:

(See continuation sheet 3 of 3)

This certificate and the supporting data, which is the basis for approval, shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application : September 03, 1980

Date reissued : January 27, 2004; December 15, 2010;
August 7, 2014

Date of issuance : February 18, 1981

Date amended :

By direction of the Administrator

Original Signed By:
Karol Mordasiewicz

(Signature)

Karol Mordasiewicz
Manager, Airframe and Administrative Branch
Chicago Aircraft Certification Office

(Title)



Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate
(Continuation Sheet)

Number SH504GL

United States of America
 Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
 (Continuation Sheet)

Number SH504GL

Date of Issuance: February 18, 1981

Date of Reissuance: August 7, 2014

Limitations and Conditions (Continued):

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

The limitations and conditions shown on Type Certificate Data Sheet Number 2H3 for Bell Model 47G-3B and 47G-3B-1 Rotorcraft remain applicable except:

Engine	Lycoming VO-435-A1F modified in accordance with Supplemental Type Certificate SE144GL	
Fuel	100/130 Minimum grade aviation gasoline	
Engine Limits	Maximum continuous (sea level) 24.1 in. Hg., 3200 rpm (220 hp.) Takeoff (2 minutes) 27.7 in. Hg., 3200 rpm (260 hp.)	
Carburetor	Marvel-Schebler MA4-5AA with setting No. 10-4025-12	
Rotor Limits & operational engine limits	<u>Power Off (Rotor Tach.)</u> Maximum 370 rpm Minimum 333 rpm	<u>Power On (Engine Tach.)</u> Maximum 3200 rpm Minimum 3000 rpm
Airspeed limits	S. L. to 6000 ft., 105 m.p.h. 5 m.p.h.(4K) per 1000 ft.	(91.5K). Reduce above 6000 ft.
C. G. Range	(-3.0) to (+4.0)	
Empty wt. C.G. Range	See required Rotorcraft Flight Manual Supplement	
Maximum Weight	2850 lbs	
Fuel Capacity	43 gal. (+5) (useable 41 gal.)	
Oil Capacity	3 gal. (+12) (useable 1 gal.) including 2.3 lb. Undrainable oil at (+15)	

FAA Approved Rotorcraft Flight Manual Supplement dated February 18, 1981, is required with this installation.

-----End-----