

Tulsa Rotor Blades



The Hiller Wood Main Rotor Blades

Tulsa Rotor Blades uses some of the original equipment to repair your blades and can do the smallest repairs to a complete rebuild.

Complete repair includes **new** retention plates, retention plate straps, trim tabs, stainless leading edges, and fabric.

Rotor blade sets are balanced to factory specifications.

Custom paint jobs for higher visibility on request.

Exchange your set for one of ours to get you back in the air sooner.



Price on a Complete Repair is set at \$18,500.00 USD.

Right now TRB has one set for sale at \$25,500.00 USD.

Exchange your repairable blade set for \$19,500.00 USD.

Root end repairs. From root to stainless leading edge. Both blades \$8,500.00

Includes new retention plates, retention plate straps, and balancing.

Change Leading Edge Stainless. Both blades \$8,500.00

Includes balancing.

Fabric change. Includes balancing. \$7,000.00

Trim tab One blade \$650.00

Both blades \$1,000.00

These prices are estimates and subject to change according to the needs of repair.

Tulsa Rotor Blades



P.O. Box 471603
 Tulsa, Oklahoma, 74147
 Phone: 918-693-0336



<http://www.TulsaRotorBlades.com>

Name: Tom Valinti		Work Order #: 22 006
Address: 23902 127th. Ave. NE		Date In: 9/07/2022
City: Arlington WA 98223		Date Out: 03/28/2023
Phone:	Fax:	Today's Date: 03/29/2023
Blade Part #: 40-001-5	Blade Serial #: P2163H P2164H	Customer Order #: verbal

Labor charge

REPAIR ORDER INSTRUCTIONS

Overhaul, paint, and balance
 Repair 56' of spar due to cut outs.
 Replace tips caps.

PAID IN FULL: March 28, 2023
 WT

Hours @ \$55.00 per hour

X
 Customer signature When applicable
 Technician/Inspector signature When applicable
 Technician/Inspector name When applicable

Outside repairs
 Total labor
 Total parts
 Sub total
 Freight
 Tax
 Total Amount

\$22,500.00

:Karson-M: Branham.

INVOICE

971 412 5235
murdockak@yahoo.com

9950 NW Rex Brown Rd
Carlton, OR 97111

Tom. Valenti
23902127th Ave, NE
Arlington, Wash. [98223]

Date:06/23/2023

Project: N5072R maintenance items

Invoice No. 230623N5072R

Terms: upon receipt

Description	Quantity	Unit Price	Cost
Mobilization cost	300	\$0.66	\$198.00
N5072R align/check 1" tail rotor drive shaft	2	\$105.00	\$210.00
N5072R remove magnetos for repair	0.5	\$105.00	\$52.50
N5072R remove and re install mag drives time magnetos to engine	3	\$105.00	\$315.00
N5072R replace mag drive seals	2.5	\$105.00	\$262.50
N5072R replace o rings in fuel pump(eng. driven)	1	\$105.00	\$105.00
Magneto drive seals CR 4990	2	\$12.00	\$24.00
Ground run/check aircraft/engine for proper operation	1	\$105.00	\$105.00
Total		Worthless things	\$1,272.00

Make check payable to :Karson-M: Branham.

Thank you for your business. It's our aim to provide the best technical service on planet earth.

Sincerely yours,

Karson

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

EA-219

Number **SU446EA**

This certificate, issued to **Franklin Engine Company, Inc.**
Liverpool Road
Syracuse, New York 13208

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 6 of the Civil Air Regulations.

Original Product — Type Certificate Number: **6H1, 6H2**
Make: **Fairchild - Hiller**
Model: **UH-12A, UH-12B, UH-12C**

Description of Type Design Change:

Installation of Franklin Engine Model 6V-350B in Fairchild - Hiller UH-12B or UH-12C helicopter in accordance with Franklin Engine Company, Inc. Service Instruction No. 16 dated 21 March 1966.

Installation of Franklin Engine Model 6V-350B in Fairchild - Hiller UH-12A helicopter in accordance with Carson Helicopters Inc. Service Instruction No. 25 dated 25 April 1970.

Limitations and Conditions:

For Hiller UH-12B and UH-12C models, Franklin Engine Co. Inc. Helicopter Flight Manual Supplement No. 1, FAA approved 11/7/66 is required.

For Hiller UH-12A model, Franklin Engine Co. Inc. Helicopter Flight Manual Supplement No. 1, FAA approved 11/7/66, Revised 30 June 1970 is required.

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: **21 March 1966**

Date of issuance: **7 November 1966**

Date received:

Date awarded: **30 June 1970**

By direction of the Administrator
Original signed by
W. Oleksak

(Signature)

W. P. NORTON
Chief, Engineering & Manufacturing Br.

(Title)



Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.
This certificate may be transferred in accordance with FAR 21.47.

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

Number SH277WE

This certificate, issued to
PENLAND HELICOPTER REPAIR, Inc.
P. O. BOX 1838
Porterville, California 93258

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 6 of the Civil Air Regulations.

Original Product — Type Certificate Number: 6H2
Make: Hiller
Model: UH-12B Normal Category

Description of Type Design Change: Installation of UH-12C Upper Canopy in accordance with Helicopter Repair Service, Inc. Installation Instructions HRSI 1002, dated November 17, 1980.

Helicopter Repair Service, Inc. FAA Approved RFM Supplement dated December 10, 1980, is required.

Limitations and Conditions: The approval of this change in type design applies to Hiller UH-12B airplanes only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of that aircraft.

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: May 27, 1980

Date issued: June 8, 1994

Date of issuance: December 10, 1980

Date amended:



By direction of the Administrator

[Handwritten Signature]
(Signature)

Manager, Technical & Administrative Support Staff

(Title)

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

This certificate may be transferred in accordance with FAR 21.47.

89/28/2806 21:42

9413781784

DTAMPW

PHONE NO. : 405 324 3100

REF. 87 1393 01:36PM F1

HILLER AIRCRAFT

HILLER AIRCRAFT



April 7, 1998

FACSIMILE

TO: RICK SHARP
FAX: 713-649-8136

SUBJECT: ALTERNATE FUEL PUMP UH-12 B/C

The Facett Fuel Pump P/N 476-411 approved on STC SH46WE is an acceptable alternate for the original factory installed component.

STC SH46WE is to be used as the basis for approval. Replacement fuel lines must be of equal capacity to the original and installed in a similar manner. Fuel pressure must be adjusted to that found in the limitations section of the Rotorcraft Flight Manual.

The Facett pump meets the requirement of Hiller Dwg. 72157, Note 17, which requires a Weldon Commercial Pump P/N 4023 or Equivalent.

Sincerely,

Nick Parkinson
Project Engineer

NP/et
npx37.98

CRASH D/N 476088
AIRCRAFT SERVICE
1-877-477-7823
ASC. 85

HILLER AIRCRAFT



August 13, 1999

Sid Evans
5870 Dove St.
Sarasota, FL 34241

Subject: HILLER SERVICE BULLETIN 69 - "INSTALLATION OF 50 AMPERE GENERATOR"

Dear Sir,

The subject Bulletin was introduced in 1958 to provide means to drive a generator of increased capacity when compared to the existing engine driven component.

The drive system and associated structure was designed for use with a Eclipse-Pioneer No. 30B24-1 generator, modified by Hiller in accordance with drawing 76210.

Hiller has no technical objection to the use of an alternator in place of the generator as long as the following conditions are complied with:

- The alternator is lighter than the unit it is replacing.
- The alternator shaft incorporates a shear section that will separate if the alternator bearings seize.
- The drive load is no greater than required by the existing unit. (Alternator output less than 50 amps.)

Wiring changes should be in accordance with standard practices and the requirements of the alternator and control unit.

These precautions were all addressed when Hiller certified a similar alternator for generator installation for the later UH-12D and E models. (Ref. Hiller S.B. UH-12-83-3).

Yours Sincerely,

Nick Parkinson
NRP/st
Enclosures
scvns

INVOICE

971 412 5235
murdockak@yahoo.com

9950 NW Rex Brown Rd
Carlton, OR 97111

Tom. Valenti
23902127th Ave, NE
Arlington, Wash. [98223]

Date:07/02/2023

Project: N5072R maintenance items
Invoice No. 020723N5072R
Terms: upon receipt

Description	Quantity	Unit Price	Cost
mobilization	1	\$38.75	\$38.75
perform cyl compression check on engine	1	\$105.00	\$105.00
clean inspect, test and reinstall spark plugs	2	\$105.00	\$210.00
test/check all spark plug leads	0.5	\$105.00	\$52.50
check/adjust magneto timing	1	\$105.00	\$105.00
Ground run/check aircraft/engine for proper operation	0.75	\$105.00	\$78.75
Total		Worthless things	\$590.00

Make check payable to :Karson-M: Branham.

Thank you for your business. It's our aim to provide the best technical service on planet earth.

Sincerely yours,

Karson

971 412 5233
murdockak@yahoo.com

9950 NW Rex Brown Rd
Carlton, OR 97111

Date:07/21/2023

Project: N5072R maintenance items

Invoice No. 210723N5072R

Terms: upon receipt

Description	Quantity	Unit Price	Cost
mobilization	550	\$0.66	\$363.00
Remove transmission, replace crankshaft seal and transmission input seal, reassemble aircraft from parts removed for seal change, clutch inspection performed. (Daily rate)	2	\$950.00	\$1,900.00
Technical consult	2	\$100.00	\$200.00
Crankshaft oil seal 415295	1	\$55.00	\$55.00
Transmission input shaft seal 472015	1	\$30.00	\$30.00
Shop consumables	1	\$50.00	\$50.00
Motel	2	\$120.00	\$240.00
AN5H5A Bolt	1	\$8.00	\$8.00
Total		Worthless things	\$2,846.00

Make check payable to :Karson-M: Branham.

Thank you for your business. It's our aim to provide the best technical service on planet earth.

Sincerely yours,

Karson

VELOCITY SHOPPE
724 BRITTON RD. N.E
EL RENO, OK. 73036
405-413-4972

WORK ORDER
488021

CUSTOMER'S ORDER NO.	DEPARTMENT	DATE	
	977090	6-19-23	
NAME TOM VALENTI			
ADDRESS 23902 127 TH AVE NE			
CITY, STATE, ZIP ARLINGTON WA 98223			
SOLD BY	CASH	C.O.D.	
10-52350-2		SN 289156	
ON. ACCT.	MOSE. RETD.	PAID OUT	
	56RN-23		
QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	2-202 BEARING		94 50
2	1 10-92815-37 RETAINER		5 50
3	1 10-160844 BRUSH		14 50
4	1 10-357173 BREAKER ASSY		124 50
5	1 10-400554 SEAL		38 50
6	1 10-90751-18 COTTER KEY		3 50
7	PARTS		281 50
8			
9			
10	REPAIR MAG REPLACING LISTED PARTS - RUN ON TEST BENCH AS PER I.A.W. TCM X42002-1 MANUAL		185 50
11	TOTAL		466 50
12			
13			
14			
15			
16			
17			
18			

RECEIVED BY

VELOCITY SHOPPE
724 BRITTON RD. N.E
EL RENO, OK. 73036
405-413-4972

WORK ORDER
488020

CUSTOMER'S ORDER NO.	DEPARTMENT	DATE	
	977090	6-19-23	
NAME TOM VALENTI			
ADDRESS 23902 127 TH AVE NE			
CITY, STATE, ZIP ARLINGTON WA 98223			
SOLD BY	CASH	C.O.D.	
10-52350-2		SN 282202	
ON. ACCT.	MOSE. RETD.	PAID OUT	
		56RN-23	
QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	10-81806 BEARING		89 50
2	2-202 BEARING		94 50
3	1 10-92815-37 RETAINER		5 50
4	1 10-160844 BRUSH		14 50
5	1 10-357173 BREAKER ASSY		124 50
6	1 10-400554 SEAL		38 50
7	1 10-90751-18 COTTER PIN		3 50
8	PARTS		370 50
9			
10	REPAIR MAG REPLACING LISTED PARTS - TEST RUN ON TEST BENCH AS PER I.A.W. TCM X42002-1 MANUAL		185 50
11	TOTAL		556 00
12			
13			
14			
15			
16			
17			
18			

RECEIVED BY

VELOCITY SHOPPE
 724 BRITTON RD. N.E.
 EL RENO, OK. 73036
 405-413-4972

WORK ORDER
 488047

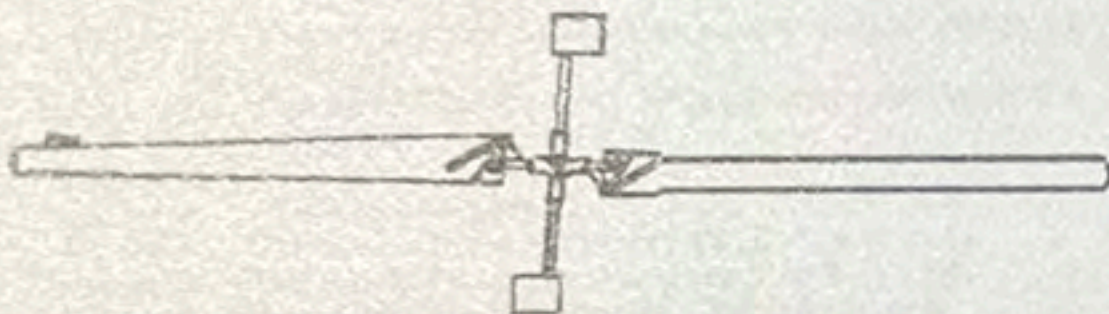
CUSTOMER'S ORDER NO.	DEPARTMENT 776560	DATE 9-3-73
NAME TOM VALINTI		
ADDRESS 23902 127 TH AVE NE		
CITY, STATE, ZIP ARLINGTON WA 98223		

SOLD BY 10-4809	CASH 9/11 BC-16-644	C.O.D.	CHARGE	ON. ACCT.	MDSE. RETD. MAH-5	PAID OUT
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QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	2 15-A21 SCREW	5.50	11 00
2	2 15-A23 SCREWS	4.50	9 00
3	1 16-6725 MARET SET		117 50
4	1 24-A30 SPRING		5 50
5	2 82-11 COTTER PINS	3.50	7 00
6	1 82-1 COTTER PIN	"	3 50
7	1 229-585 IDEE TUBE	CUSTOMER FURNISHED	
8	1 242-528 MIX VALVE		128 50
9	1 66274 GASKET		5 50
10	1 657158 GASKET		6 50
11	PARTS		294 00
12			
13	REPAIR LAB REPLACING		
14	LISTED PARTS - FLOAT LEVEL		
15	SET AS PER MARVEL MAGAFSM		
16	MANUAL		
17			185 50
18	TOTAL		466 50

RECEIVED BY

HILLER HELICOPTERS



ILLUSTRATED
PARTS BREAKDOWN LISTS
FOR
HILLER MODEL
UH-12A*
and
UH-12B**
Helicopters

*UH-12A Use information contained herein for Model H-23A, except for the Cyclic Floor Stick Inst. and 24 volt Electrical System.

**UH-12B Use information contained herein for Model H-23B.

HILLER HELICOPTERS

HELICOPTER MODEL

HILLER 300

(301-128)

H-23A

EQUIPPED WITH SKID GEAR
OR FOUR-WHEEL GEAR

HELICOPTER

FLIGHT MANUAL

This Document Must be Carried In
The Aircraft at all Times

TYPE CERTIFICATE
NO. 6E2

REGISTRATION NO.

Approved by: Morton J. Brown / CTR.
CHIEF, AIRCRAFT ENGINEERING BRANCH

Date of Approval: March 27, 1952

Hiller Helicopters, Palo Alto, California

TM 1-1H-23A-1

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

FLIGHT HANDBOOK ARMY MODELS H-23A B, ASD C HELICOPTERS

"NOT LIABLE FOR ACCURACY
AND
EFFECTIVENESS OF
ORIGINAL TEXT."

Air Service Caravan Co., Inc.

Note. This manual replaces AF TO 1H-23A-1, 15 January 1958, for
use within the Department of the Army.

This manual supersedes TM 1-1H-23A-1, 10 August 1956.

"NOT LIABLE FOR ACCURACY
AND EFFECTIVENESS OF
ORIGINAL TEXT."
Air Service Caravan Co., Inc.



HEADQUARTERS, DEPARTMENT OF THE ARMY

APRIL 1958

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(if more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

USA N8109H

October 8, 2014

Nationality and Registration Mark

Date

The following modification of the helicopter UH-12A was completed at an unknown date and by persons unknown as previous logbooks are not available. I have inspected and verify the absence of a Weldon Aux Electrical fuel pump P/N 4013 Serial number N/A from the fuel strainer bracket located at 78 inches at #3 and the installation of a Facet Aux Electric Fuel Pump P/N 476-411 located at 78 inches at #3 I.A.W. Hiller MIM and Far 43.2. I verify this change was done in accordance with STC SH46WE and is an acceptable alternate for the original factory installed component. Replacement fuel lines are of equal capacity to the original and installed in a similar manner. Fuel pressure is adjusted to that found in the limitations section of the Rotorcraft Flight Manual. The Facett pump meets the requirement of Hiller Dwg. 72157, note 17, which requires a Weldon Commercial Pump P/N 4013 or equivalent. Ground and flight check is normal. Weight and balance is not affected. I have made an appropriate note in the present logbook to that effect. In addition a supplemental notation was installed in the Flight Manual.

-end-

TO: STEVE

THREE HOURS TO SPOT TRANSMISSION CASE AND INSTALL
NEW HOLD DOWN STUD THAT WAS BROKEN RESEALED +

3 HAS \$240.00

SPARE PARTS

- | | |
|------------------------------------|-----------|
| 1. COOLING FAN GEAR BOX OVERHAULED | \$ 560.00 |
| 2. " " COUPLER (NEW) | 49.00 |
| 3. ELECT FUEL PUMP (NEW) | 109.00 |
| 4. ENGINE DRIVEN FUEL PUMP | 290.00 |
| 5. NEW AIR FILTER | 39.00 |

TOTAL DUE

\$1,238.00