

HARTZELL PROPELLER INC.

ALERT SERVICE BULLETIN

Propellers

Propeller - Hub Replacement

1. Planning Information

A. Effectivity

- (1) Aluminum hub part numbers D-6522-1, D-6522-2, D-6529-1, D-6552-2, and D-6559-3 with a serial number that is listed in Table 1 are affected by this Service bulletin.
- (2) ()HC-()2Y()-() two-bladed, aluminum hub, "compact" series propellers that have a hub with a serial number that is listed in Table 1 of this Service Bulletin installed are affected.

B. Concurrent Requirements

None

C. Reason

- (1) A quality problem with forgings received from our supplier has resulted in subsurface discontinuities in some two bladed, "compact" series, aluminum propeller hubs. These discontinuities could serve as initiation points for fatigue cracks in the hub arms. If undetected, in time a crack could propagate from a discontinuity and result in blade separation and catastrophic results.
- (2) These discontinuities may not be detectable by the use of conventional penetrant or Eddy current inspection techniques.
- (3) All hubs listed in Table 1, of this Service Bulletin, must be retired from service.
- (4) Regulatory action is expected.

D. Description

This Service Bulletin provides guidance and instructions for removing affected hubs from service and replacing them with serviceable hubs.

E. Compliance

- (1) An affected hub that is installed in a propeller on the following type aircraft must be replaced with a serviceable hub at the earliest convenience of the operator, not to exceed 50 hours time since new (TSN) or 12 months from the effective date of this Service Bulletin, whichever occurs first. Refer to Table 1 of this Service Bulletin for affected propeller serial numbers.
 - (a) Aerobatic aircraft (including certificated aerobatic aircraft, military trainers, or any aircraft routinely exposed to aerobatic usage)
 - (b) Agricultural aircraft
 - (c) Piper PA-32() series aircraft with Lycoming 540 series engines rated at 300 HP or higher
 - (d) Britten Norman BN-2() series aircraft with Lycoming 540 series engines

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- (2) An affected hub that is installed in a propeller on an aircraft type that is not listed in paragraph 1.E.(1) of this Service Bulletin must be replaced with a serviceable hub at the earliest convenience of the operator, not to exceed 100 hours time since new (TSN) or 12 months from the effective date of this Service Bulletin, whichever occurs first. Refer to Table 1 of this Service Bulletin for affected propeller serial numbers.
- (3) An affected hub (listed in Table 1 of this Service Bulletin) that is not installed on an aircraft is considered unserviceable and must be returned to Hartzell Propeller as soon as possible within 4 months from the effective date of this Service Bulletin.

F. Approval

FAA approval has been obtained on technical data in this publication that affects type design.

G. Manpower

If the hub is part of a propeller assembly that is installed on an aircraft, the approximate man hours required to accomplish this Service Bulletin are:

Propeller Removal/Installation	2.0 man hours
Propeller Hub Replacement	4.0 man hours
Dynamic Balancing	<u>3.0 man hours</u>
Total man-hours	9.0 man hours

H. Weight and Balance

Not Changed

I. Electrical Load Data

Not Changed

J. References

Hartzell Manual 113B (61-10-13), Compact Non-Feathering and Aerobatic Propeller Overhaul and Maintenance Manual

Hartzell Manual 117D (61-10-17), Compact Constant Speed and Feathering Propeller Overhaul Instructions

Hartzell Manual 202A (61-01-02), Standard Practices Manual

Hartzell Manual 115N (61-00-15), Propeller Owner's Manual & Logbook All "Compact" Models

Airframe Manufacturer's Maintenance Manual (AMM)

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Propeller/Hub Model	Propeller Serial Number	Hub Part Number	Hub Serial Number
BHC-J2YF-1BF/F7694	EF298B	D-6552-2	A61632B
BHC-J2YF-1BF/F7694	EF299B	D-6552-2	A61633B
HC-C2Y	AU11115B	D-6522-1	A61365B
HC-C2Y	AU11117B	D-6522-1	A61367B
HC-C2Y	AU11118B	D-6522-1	A61368B
HC-C2Y	AU11119B	D-6522-1	A61369B
HC-C2Y	AU11120B	D-6522-1	A61370B
HC-C2Y	AU11121B	D-6522-1	A61371B
HC-C2Y	AU11122B	D-6522-1	A61372B
HC-C2Y	AU11124B	D-6522-1	A61374B
HC-C2Y	AU11125B	D-6522-1	A61375B
HC-C2Y	AU11127B	D-6522-1	A61377B
HC-C2Y	AU11135B	D-6522-1	A61385B
HC-C2Y	AU11145B	D-6522-1	A61603B
HC-C2Y	AU11146B	D-6522-1	A61604B
HC-C2Y	AU11147B	D-6522-1	A61605B
HC-C2Y	AU11149B	D-6522-1	A61607B
HC-C2Y	AU11150B	D-6522-1	A61608B
HC-C2Y	AU11151B	D-6522-1	A61609B
HC-C2Y	AU11152B	D-6522-1	A61610B
HC-C2Y	AU11153B	D-6522-1	A61611B
HC-C2Y	AU11154B	D-6522-1	A61612B
HC-C2Y	AU11155B	D-6522-1	A61613B
HC-C2Y	AU11161B	D-6522-1	A61619B
HC-C2Y	AU11163B	D-6522-1	A61621B
HC-C2Y	AU11164B	D-6522-1	A61622B
HC-C2Y	AU11165B	D-6522-1	A61745B
HC-C2Y	AU11166B	D-6522-1	A61746B
HC-C2Y	AU11167B	D-6522-1	A61747B
HC-C2Y	AU11168B	D-6522-1	A61748B
HC-C2Y	AU11169B	D-6522-1	A61749B
HC-C2Y	AU11170B	D-6522-1	A61750B
HC-C2Y	AU11171B	D-6522-1	A61751B
HC-C2Y	AU11172B	D-6522-1	A61752B

Propeller/Hub Serial Number Effectivity
Table 1

HARTZELL PROPELLER INC.

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Propeller - Hub Replacement

Propeller/Hub Model	Propeller Serial Number	Hub Part Number	Hub Serial Number
HC-C2Y	AU11175B	D-6522-1	A61893B
HC-C2Y	AY514B	D-6522-2	A61396B
HC-C2Y	AY520B	D-6522-2	A61743B
HC-C2Y	AY523B	D-6522-2	A61625B
HC-C2Y_-1	CH36140B	D-6529-1	A61409B
HC-C2Y_-1	CH36141B	D-6529-1	A61410B
HC-C2Y_-1	CH36143B	D-6529-1	A61412B
HC-C2Y_-1	CH36151B	D-6529-1	A61420B
HC-C2Y_-1	CH36152B	D-6529-1	A61421B
HC-C2Y_-1	CH36154B	D-6529-1	A61423B
HC-C2Y_-1	CH36156B	D-6529-1	A61426B
HC-C2Y_-1	CH36157B	D-6529-1	A61427B
HC-C2Y_-1	CH36158B	D-6529-1	A61428B
HC-C2Y_-1	CH36160B	D-6529-1	A61554B
HC-C2Y_-1	CH36161B	D-6529-1	A61555B
HC-C2Y_-1	CH36163B	D-6529-1	A61557B
HC-C2Y_-1	CH36164B	D-6529-1	A61559B
HC-C2Y_-1	CH36167B	D-6529-1	A61562B
HC-C2Y_-1	CH36168B	D-6529-1	A61543B
HC-C2Y_-1	CH36169B	D-6529-1	A61544B
HC-C2Y_-1	CH36170B	D-6529-1	A61545B
HC-C2Y_-1	CH36171B	D-6529-1	A61546B
HC-C2Y_-1	CH36172B	D-6529-1	A61547B
HC-C2Y_-1	CH36173B	D-6529-1	A61548B
HC-C2Y_-1	CH36174B	D-6529-1	A61549B
HC-C2Y_-1	CH36175B	D-6529-1	A61550B
HC-C2Y_-1	CH36176B	D-6529-1	A61551B
HC-C2Y_-1	CH36177B	D-6529-1	A61552B
HC-C2Y_-1	CH36181B	D-6529-1	A61576B
HC-C2Y_-1	CH36182B	D-6529-1	A61577B
HC-C2Y_-1	CH36190B	D-6529-1	A61565B
HC-C2Y_-1	CH36191B	D-6529-1	A61566B
HC-C2Y_-1	CH36192B	D-6529-1	A61567B
HC-C2Y_-1	CH36193B	D-6529-1	A61568B

Propeller/Hub Serial Number Effectivity
Table 1, continued

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Propeller - Hub Replacement

Propeller/Hub Model	Propeller Serial Number	Hub Part Number	Hub Serial Number
HC-C2Y_-1	CH36197B	D-6529-1	A61572B
HC-C2Y_-1	CH36198B	D-6529-1	A61583B
HC-C2Y_-1	CH36199B	D-6529-1	A61584B
HC-C2Y_-1	CH36200B	D-6529-1	A61585B
HC-C2Y_-1	CH36201B	D-6529-1	A61586B
HC-C2Y_-1	CH36202B	D-6529-1	A61587B
HC-C2Y_-1	CH36203B	D-6529-1	A61588B
HC-C2Y_-1	CH36204B	D-6529-1	A61589B
HC-C2Y_-1	CH36205B	D-6529-1	A61590B
HC-C2Y_-1	CH36208B	D-6529-1	A61593B
HC-C2Y_-1	CH36209B	D-6529-1	A61594B
HC-C2Y_-1	CH36210B	D-6529-1	A61595B
HC-C2Y_-1	CH36211B	D-6529-1	A61596B
HC-C2Y_-1	CH36212B	D-6529-1	A61597B
HC-C2Y_-1	CH36213B	D-6529-1	A61598B
HC-C2Y_-1	CH36214B	D-6529-1	A61599B
HC-C2Y_-1	CH36215B	D-6529-1	A61601B
HC-C2Y_-1	CH36216B	D-6529-1	A61602B
HC-C2Y_-1	CH36221B	D-6529-1	A61765B
HC-C2Y_-1	CH36224B	D-6529-1	A61768B
HC-C2Y_-1	CH36226B	D-6529-1	A61770B
HC-C2Y_-1	CH36240B	D-6529-1	A61785B
HC-C2Y_-1	CH36241B	D-6529-1	A61786B
HC-C2Y_-1	CH36242B	D-6529-1	A61787B
HC-C2Y_-1	CH36243B	D-6529-1	A61788B
HC-C2Y_-1	CH36244B	D-6529-1	A61789B
HC-C2Y_-1	CH36245B	D-6529-1	A61790B
HC-C2Y_-1	CH36246B	D-6529-1	A61791B
HC-C2Y_-1	CH36247B	D-6529-1	A61792B
HC-C2Y_-1	CH36248B	D-6529-1	A61793B
HC-C2Y_-1	CH36249B	D-6529-1	A61794B
HC-C2Y_-1	CH36250B	D-6529-1	A61795B
HC-C2Y_-1	CH36251B	D-6529-1	A61796B
HC-C2YK-1BF/F7666A	CH36184B	D-6529-1	A61579B

Propeller/Hub Serial Number Effectivity
Table 1, continued

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Propeller - Hub Replacement

Propeller/Hub Model	Propeller Serial Number	Hub Part Number	Hub Serial Number
HC-C2YK-1BF/F7666A	CH36185B	D-6529-1	A61580B
HC-C2YK-1BF/F7666A	CH36186B	D-6529-1	A61581B
HC-C2YK-1BF/F7666A-2	CH36188B	D-6529-1	A61563B
HC-C2YK-1BF/F7666A-2	CH36196B	D-6529-1	A61571B
HC-C2YK-1BF/F7666A-4	CH36159B	D-6529-1	A61553B
HC-C2YK-1BF/F7666A-4	CH36162B	D-6529-1	A61556B
HC-C2YK-1BF/F7666A-4	CH36165B	D-6529-1	A61560B
HC-C2YK-1BF/F7666A-4	CH36194B	D-6529-1	A61569B
HC-C2YK-1BF/F7666A-4	CH36195B	D-6529-1	A61570B
HC-C2YK-1BF/F8477D-5R	CH36153B	D-6529-1	A61422B
HC-C2YL-2CUF/FC7663-4	AY515B	D-6522-2	A61397B
HC-C2YL-2CUF/FC7663-4	AY516B	D-6522-2	A61398B
HC-C2YR-1BF/F7666A	CH36179B	D-6529-1	A61574B
HC-C2YR-1BF/F8475T+2	CH36178B	D-6529-1	A61573B
HC-C2YR-1BF/F8475T+2	CH36183B	D-6529-1	A61578B
HC-C2YR-2CEUF/FC7666A-2R	AU11131B	D-6522-1	A61381B
HC-C2YR-4BF/FC7666A-2	AU11141B	D-6522-1	A61391B
HC-C2YR-4CF/FC7666A-2	AU11116B	D-6522-1	A61366B
HC-C2YR-4CF/FC7666A-2	AU11129B	D-6522-1	A61379B
HC-C2YR-4CF/FC7666A-2	AU11134B	D-6522-1	A61384B
HC-F2YL-1F/F7663-3	EU376B	D-6559-3	A61443B

Propeller/Hub Serial Number Effectivity
Table 1, continued

HARTZELL PROPELLER INC.

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2. Material Information

A. Parts required for hub replacement, if the hub is installed in a propeller assembly:

Refer to the information in Table 1 to determine the applicable parts list group required for compliance with this Service Bulletin.

(1) Propeller models HC-C2Y(K,R)-1BF

Part Group A

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
D-6529-1	Hub Unit	1
A-1381	Washer, 1/2 inch	6
A-2043-1	Nut, 3/8-24 Hex	10
A-2067	Mounting Stud	6
A-2069	Mounting Nut	6
A-279	Lubrication Fitting	4
B-3359	Hex Nut, 3/8-24	1
B-3838-3-5	Cotter Pin	1
B-3842-0750	Spring Pin, 3/32 inch	6
B-3883-4339	Quad-Ring	2
B-6544	Lubrication Fitting Cap	4
B-6747	Washer Seal	1
C-3317-018	O-Ring	1
C-3317-115-1	O-Ring	1
C-3317-228	O-Ring	1
C-3317-247	O-Ring	1
C-3317-348-1	O-Ring	1

(2) Propeller models HC-C2Y(K,R)-2C(E)UF

Part Group B

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
D-6522-1	Hub Unit	1
A-1381	Washer, 1/2 inch	6
A-2043-1	Nut, 3/8-24 Hex	10
A-2067	Mounting Stud	6
A-2069	Mounting Nut	6
A-279	Lubrication Fitting	4
A-3205	Cap Screw, 5/16-24	1
B-3842-0750	Spring Pin, 3/32	6
B-3883-4339	Quad-Ring	2
B-6544	Lubrication Fitting Cap	4
C-3317-115-1	O-Ring	1
C-3317-117	O-Ring	1
C-3317-210-1	O-Ring	1
C-3317-228	O-Ring	1
C-3317-247	O-Ring	1
C-3317-427-1	O-Ring	1

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(3) Propeller model HC-C2YL-2CUF

Part Group C

Part Number	Description	Quantity
D-6522-2	Hub Unit	1
A-2043-1	Nut, 3/8-24 Hex	10
A-2247-1	Prop Mounting Stud	6
A-2498	Nut, 7/16-20	6
A-279	Lubrication Fitting	4
A-3205	Cap Screw, 5/16-24	1
B-3842-0625	Spring Pin, 3/32 inch	6
B-3883-4339	Quad-Ring	2
B-6544	Lubrication Fitting Cap	4
C-3317-115-1	O-Ring	1
C-3317-117	O-Ring	1
C-3317-210-1	O-Ring	1
C-3317-228	O-Ring	1
C-3317-247	O-Ring	1
C-3317-427-1	O-Ring	1

(4) Propeller models HC-C2YR-4(B,C)F

Part Group D

Part Number	Description	Quantity
D-6522-1	Hub Unit	1
A-1381	Washer, 1/2 inch	6
A-2043-1	Nut, 3/8-24 Hex	10
A-2067	Mounting Stud	6
A-2069	Mounting Nut	6
A-279	Lubrication Fitting	4
B-3807	Hex nut, 5/8-18	1
B-3838-3-5	Cotter Pin	1
B-3842-0750	Spring Pin, 3/32 inch	6
B-3883-4339	Quad-Ring	2
B-6544	Lubrication Fitting Cap	4
C-3317-018	O-Ring	1
C-3317-115-1	O-Ring	1
C-3317-210-1	O-Ring	1
C-3317-228	O-Ring	1
C-3317-247	O-Ring	1
C-3317-348-1	O-Ring	1

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(5) Propeller model HC-F2YL-1F

Part Group E

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
D-6559-3	Hub Unit	1
A-2043-1	Nut, 3/8-24 Hex	10
A-2247-1	Mounting Stud	6
A-2498	Nut, 7/16-20	6
A-279	Lubrication Fitting	4
B-3359	Hex Nut, 3/8-24	1
B-3838-3-5	Cotter Pin	1
B-3842-0625	Spring Pin, 3/32 inch	6
B-3883-4339	Quad-Ring	2
B-6544	Lubrication Fitting Cap	4
B-6747	Washer Seal	1
C-3317-018	O-Ring	1
C-3317-115-1	O-Ring	1
C-3317-226	O-Ring	1
C-3317-228	O-Ring	1
C-3317-247	O-Ring	1
C-3317-348-1	O-Ring	1

(6) Propeller model BHC-J2YF-1BF

Part Group F

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
D-6552-2	Hub Unit	1
A-1381	Washer, 1/2 inch	6
A-2043-1	Nut, 3/8-24 Hex	10
A-2044	Hex Nut, 1/2-20	6
A-2429-5	Mounting Stud	6
A-279	Lubrication Fitting	4
B-3359	Hex Nut, 3/8-24	1
B-3838-3-5	Cotter Pin	1
B-3883-4339	Quad-Ring	2
B-6138-8-9	Dowel Pin	2
B-6544	Lubrication Fitting Cap	4
B-6747	Washer Seal	1
C-3317-018	O-Ring	1
C-3317-115-1	O-Ring	1
C-3317-226	O-Ring	1
C-3317-228	O-Ring	1
C-3317-247	O-Ring	1
C-3317-348-1	O-Ring	1

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B. Consumables

Refer to the applicable Overhaul Manual for consumables required to perform propeller assembly and disassembly procedures.

C. Special Tooling

None

3. Accomplishment Instructions

A. If the propeller is installed on an aircraft, remove the propeller in accordance with the airframe manufacturer's maintenance manual (AMM) and Hartzell Manual 115N (61-00-15).

B. Hub Replacement (Assembled Propeller)

NOTE: Complete propeller overhaul is not required.

(1) Disassemble the propeller in accordance with the applicable propeller overhaul manual.

CAUTION: MAKE SURE THAT THE SERVICEABLE HUB IS NOT LISTED IN TABLE 1 OF THIS SERVICE BULLETIN.

(2) Reassemble the propeller with a serviceable hub in accordance with the applicable propeller overhaul manual.

NOTE: Refer to the Service Bulletin Appendix for information concerning availability and distribution of replacement hubs.

(3) Perform additional tasks required to return the propeller to service in accordance with the applicable propeller overhaul manual and Hartzell Manual 202A (61-01-02), Standard Practices.

(4) Make a logbook entry to indicate compliance with this Service Bulletin.

(5) Attach a completed Service Bulletin Compliance form (copy attached to this Service Bulletin) to the unserviceable hub and return the hub to Hartzell Propeller, Inc.

C. Affected hubs that are in stock must be returned to Hartzell Propeller for replacement.

NOTE: Refer to the Service Bulletin Appendix for information concerning availability and distribution of replacement hubs.

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1. Pricing Information

<u>Part Number</u>	<u>Keyword</u>	<u>List Price</u>
D-6522-1	Hub Unit	\$2,529
D-6522-2	Hub Unit	\$2,563
D-6529-1	Hub Unit	\$2,536
D-6552-2	Hub Unit	\$3,675
D-6559-3	Hub Unit	\$3,858

NOTE: Hub list prices are provided as information only. Refer to paragraph 4., Warranty, in this appendix, for instructions regarding replacement hubs.

2. Availability/Lead Time

- A. A sufficient quantity of parts and replacement hubs are being produced to allow replacement of the affected hubs within 2 months of the effective date of this Service Bulletin.
- B. Every effort is being made to ensure adequate inventory; however, there may be instances when we are temporarily out of stock. To avoid unnecessary down time, contact the Hartzell Product Support Department (937.778.4379) to check availability and to schedule delivery of your replacement hub before beginning any work.

3. Price/Lead Time Validity

List prices and lead times are valid through the 2002 calendar year.

Propeller Model: HC-()2Y()-() Document No. HC-ASB-61-259 Rev. No. N/A
Component Part Number: Various Date of Issue: Sept 4/02 Rev. Date: N/A

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4. Warranty

Warranty to cover hub replacements will be approved and administered as follows:

- A. Contact (phone, fax or email) the Hartzell Product Support Department to schedule the hub replacement and to enter an order for the replacement hub.

Phone: 937.778.4379
Fax: 937.778.4391
Email: techsupport@hartzellprop.com

- B. Complete the attached Service Bulletin Compliance form and mail or fax (preferred method) it to the attention of the Hartzell Product Support Department, as indicated on the Service Bulletin Compliance form.

NOTE: An order for a replacement hub will not be entered until the completed Service Bulletin Compliance form is received.

- C. Upon receipt of the completed Service Bulletin Compliance form, Hartzell will ship a replacement hub at no charge.

NOTE 1: Packaging will include a shipping label and an Airborne Express account number to be used for the return of the unserviceable hub.

NOTE 2: If the unserviceable hub is not returned, an invoice for the list price will be generated for the replacement hub.

- D. Complete work.

- E. Ship the unserviceable hub to Hartzell Propeller:

NOTE: Failure to return the unserviceable hub will cause an invoice to be generated for the full list price of the replacement hub.

Use the shipping label and Airborne Express account number provided and ship the unserviceable hub to:

Hartzell Propeller Service Center
Attn.: Service Bulletin Coordinator
5465 W. State Route 185
Piqua, Ohio 45356-2634 USA

Propeller Model: HC-()2Y()-() Document No. HC-ASB-61-259 Rev. No. N/A
Component Part Number: Various Date of Issue: Sept 4/02 Rev. Date: N/A

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F. Reimbursement:

If the affected hub was installed in a propeller, upon receipt of the unserviceable hub Hartzell will:

- (1) At your discretion, either:
 - (a) Issue a check or credit memo to cover materials removed from previously purchased stock used for reassembly (see Table 2 below).
 - (b) Provide no charge replacement parts as listed in paragraph 2.A. of this Service Bulletin.

NOTE: Please specify on the compliance form your preference of the above two choices.

- (2) Issue a check or credit memo to cover the following allowables:
 - (a) \$280 - Labor - L, K, R Flange
 - (b) \$350 - Labor - F Flange
 - (b) \$150 - Removal and Installation if the propeller was installed on an aircraft
 - (c) \$200 - Dynamic Balance (if dynamic balance had previously been done)
 - (d) Materials allowable, if requested (Refer to Table 2 below)

NOTE 1: Unless otherwise requested, one check or credit memo will be issued for the full amount.

NOTE 2: A check or credit memo will not be issued until the affected hub is received by Hartzell.

Parts Group Number	Propeller Models Covered	Materials Allowable
A	HC-C2Y(K,R)-1BF	\$159
B	HC-C2Y(K,R)-2C(E)UF	\$170
C	HC-C2YL-2CUF	\$254
D	HC-C2YR-4(B,C)F	\$168
E	HC-F2YL-1F	\$244
F	BHC-J2YF-1BF	\$170

Materials Allowable List
Table 2

Propeller Model: HC-()2Y()-() Document No. HC-ASB-61-259 Rev. No. N/A
 Component Part Number: Various Date of Issue: Sept 4/02 Rev. Date: N/A
