



Hartzell Engine Technologies LLC

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AIRCRAFT ALTERNATOR & PARTS PRICE LIST

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Hartzell Engine Technologies (HET) is the leading OEM supplier of aircraft cabin heating solutions and engine accessories, including turbocharging systems, alternators, starters, and fuel pumps.

NOTE The following statements are excerpts from the FAA Advisory Circular 20-62C entitled "ELIGIBILITY, QUALITY, AND IDENTIFICATION OF APPROVED REPLACEMENT PARTS" All HET products offered herein meet the requirement of FAA Advisory Circular 20-62C.

FAA Advisory Notice » Background

An increasing amount of replacement parts (including standard parts), materials, appliances and instruments are offered for sale as being of aircraft quality and origin of these units are unknown. Users of such units are usually not aware of the potential hazards involved with replacement parts that are not eligible for use on certified aircraft. Frequently such units are deceptively advertised and presented as "unused," "like new," or "remanufactured." This implies that the quality of such units is equal to an original or appropriately repaired or overhauled.

The performance rules for replacement of parts and materials used in the maintenance and alteration of U.S. certificated aircraft are specified in Federal Aviation Regulations (FAR) 43.13 and FAR 145.57. The responsibility for the continued airworthiness of the aircraft, which includes the replacement of parts, is the responsibility of the owner/operator as outlined in FAR 91.163, FAR 121.363, FAR 123.45, FAR 127.131 and FAR 135.143 (a).

Identification of the Approved Parts

Approved serviceable replacement parts are identified as follows:

- By an FAA Form 8130-3 (Formerly FAA Form 186), Airworthiness Approval Tag. An Airworthiness Approval Tag identifies a part or group of parts that have been approved by an authorized FAA representative.
- By an FAA Technical Standard Order (TSO) number and identification mark that indicates the part or appliance has been manufactured under the requirements of FAR 37.
- By an FAA/PMA symbol, together with the manufacturer's name, trademark or symbol, part number, and the make and model of the type certificated product on which the part is eligible for installation, stamped on the part. An FAA Parts Manufacturer Approval (FAA/PMA) is issued under FAR 21.305. The make and model information may be on a tag attached to the part.
- By shipping ticket, invoice, or other document which provides evidence that the part was produced by a manufacturer holding an FAA Approved Production Inspection System issued under FAR 21, Subpart F, or by a manufacturer holding an FAA Production Certificate issued under FAR 21, Subpart G.



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- By a certificate of airworthiness for export issued by a foreign government under the provisions of FAR 21, Subpart N.

Know Your Supplier

It has come to our attention that many reproduced parts and components, particularly instruments which have been manufactured by persons other than the original manufacturer, are available for purchase and installation on U.S. certificated aircraft. Often, an original part is used as a sample to produce duplicates. The reproduced parts appear to be as good as the original part; however, there are many unknown factors to be considered that may not be readily apparent to the purchaser, i.e. heat treating, plating, inspections, tests, and calibrations. All too often the faulty part is not discovered until a malfunction or an accident occurs.

Summary

In accordance with FAR's, certification of materials, parts, and appliances for return to service, for use on aircraft, is the responsibility of the person or agency who signs the approval. The owner/operator, as denoted in paragraph 3 of this advisory circular, is responsible for the continued airworthiness of the aircraft. To assure continued safety in aircraft operation, it is essential that great care be used when inspecting, testing and determining the acceptability of all parts and materials. Particular caution should be exercised when the identity of materials, parts, and appliances cannot be established or when their origin is in doubt.

General Terms & Conditions

- All prices are subject to change without notice. Invoice prices will be seller's price in effect at time of shipment.
- All prices are F.O.B. Hartzell Engine Technologies plant point of shipment.
- All prices in this catalog are less sales and excise taxes. All quotations and/or contracts shall be subject to increase without notice by the amount of any sales, use or excise taxes levied against such transactions by any Federal, State, Municipal or other domestic or foreign government agency unless tax exemption certificate can be furnished which will meet the approval of such agency.
- All orders are payable in U.S. funds.
- Hartzell Engine Technologies is not responsible for any part left on the unit which is not part of the normal overhaul.
- HET reserves the right to return any unit that cannot be overhauled disassembled.



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FACTORY NEW AIRCRAFT ALTERNATORS

Limited Two (2) Years* Warranty or 1,000 Hours on New Components: Read full warranty policy on page 27. For more info visit: www.hartzellenginetech.com/aircraft-parts/aircraft-alternators.html

1. "AL" Series Aircraft Alternator » Factory New

| Part Number | Description | List Price | Core Charge |
|-------------|--------------------------|------------|-------------|
| ALT-8403 | Replaced by ALT-8520 | | |
| ALT-8404 | Replaced by ALT-8521 | | |
| ALT-8404R | Replaced by ALT-8521 | | |
| ALT-8404RS | Replaced by ALT-8521LS | | |
| ALT-8407 | Replaced by ALT-8520 | | |
| ALT-8420 | Replaced by ALT-8520 | | |
| ALT-8421 | Replaced by ALT-8521 | | |
| ALT-8421LS | Replaced by ALT-8521LS | | |
| ALT-8520 | 24V/50A BD CM652486 | \$920.00 | |
| ALT-8521 | 24V/50A BD | \$920.00 | |
| ALT-8521LS | 24V/50A BD | \$920.00 | |
| ALT-9405 | Replaced by ALT-9522 | | |
| ALT-9422 | Replaced by ALT-9522 | | |
| ALT-9522 | 24V/50A GD CM 641668 | \$920.00 | |
| ALU-6421LS | Replaced by ALU-6521LS | | |
| ALU-6521LS | 24V/70A BD LW14329 | \$864.00 | |
| ALU-84 | Replaced by ALU-8521 | | |
| ALU-84 | Replaced by ALU-8521LS | | |
| ALU-84 | Replaced by ALU-8521 | | |
| ALU-84 | Replaced by ALU-8521LS | | |
| ALU-84 | Replaced by ALU-8521 | | |
| ALU-84 | Replaced by ALU-8521LS | | |
| ALU-8521 | 24V/70A BD | \$926.00 | |
| ALU-8521LS | 24V/70A BD *** LW14326 | \$904.00 | |
| ALU-8532LS | 28V/75AMP BD ***32C21997 | \$904.00 | |



Aircraft Alternator & Parts Price List

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1. "AL" Series Aircraft Alternator » Factory New

| Part Number | Description | List Price | Core Charge |
|-------------|---|------------|-------------|
| ALV-9610 | 24V 100AMP CM 646491, 649304 & ALV-9510 | \$1,172.00 | \$425.00 |
| ALX-8403 | Replaced by ALX-8521 | | |
| ALX-8403G | Replaced by ALX-8521 | | |
| ALX-8403LS | Replaced by ALX-8521LS | | |
| ALX-8403LSG | Replaced by ALX-8521LS | | |
| ALX-8403RG | Replaced by ALX-8521 | | |
| ALX-8403RS | Replaced by ALX-8521LS | | |
| ALX-8403RSG | Replaced by ALX-8521LS | | |
| ALX-8421 | Replaced by ALX-8521 | | |
| ALX-8421G | Replaced by ALX-8521 | | |
| ALX-8421LS | Replaced by ALX-8521LS | | |
| ALX-8421LSG | Replaced by ALX-8521LS | | |
| ALX-8421RG | Replaced by ALX-8521 | | |
| ALX-8421RSG | Replaced by ALX-8521LS | | |
| ALX-8521 | 12V/70A BD | \$926.00 | |
| ALX-8521LS | 12V/70A BD ***LW14318 | \$904.00 | |
| ALX-9402 | Replaced by ALX-9525B | | |
| ALX-9404L | Replaced by ALX-9522 | | |
| ALX-9404LG | Replaced by ALX-9522 | | |
| ALX-9404R | Replaced by ALX-9522 | | |
| ALX-9404RG | Replaced by ALX-9522 | | |
| ALX-9405 | Replaced by ALX-9524 | | |
| ALX-9422 | Replaced by ALX-9524 | | |
| ALX-9422L | Replaced by ALX-9522 | | |
| ALX-9422LG | Replaced by ALX-9522 | | |
| ALX-9422RG | Replaced by ALX-9522 | | |
| ALX-9425A | Replaced by ALX-9525B | | |
| ALX-9425B | Replaced by ALX-9525B | | |
| ALX-9524 | 12V/70A GD ***CM 641670 | \$948.00 | |
| ALX-9525B | 12V/70A GD ***CM 643008 | \$948.00 | |



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| Part Number | Description | List Price | Core Charge |
|-------------|------------------------|------------|-------------|
| ALY-6409 | Replaced by ALY-6522 | | |
| ALY-6421LS | Replaced by ALY-6521LS | | |
| ALY-6427 | Replaced by ALY-6527 | | |
| ALY-6427G | Replaced by ALY-6527 | | |
| ALY-6427RG | Replaced by ALY-6527 | | |
| ALY-6522 | 12V/60A BD | \$904.00 | |
| ALY-6527 | 12V/60A BD ***LW14315 | \$904.00 | |
| ALY-8403G | Replaced by ALY-8520 | | |
| ALY-8403LS | Replaced by ALY-8520LS | | |
| ALY-8403LSG | Replaced by ALY-8520LS | | |
| ALY-8403R | Replaced by ALY-8520 | | |
| ALY-8403RG | Replaced by ALY-8520 | | |
| ALY-8403RS | Replaced by ALY-8520LS | | |
| ALY-8403RSG | Replaced by ALY-8520LS | | |
| ALY-8420 | Replaced by ALY-8520 | | |
| ALY-8420G | Replaced by ALY-8520 | | |
| ALY-8420LS | Replaced by ALY-8520LS | | |
| ALY-8420LSG | Replaced by ALY-8520LS | | |
| ALY-8420RG | Replaced by ALY-8520 | | |
| ALY-8420RSG | Replaced by ALY-8520LS | | |
| ALY-8520 | 12V/60A BD | \$904.00 | |
| ALY-8520LS | 12V/60A BD ***LW14313 | \$882.00 | |

2. ES4000 Series Aircraft Alternator » Factory New

| Part Number | Description | List Price | Core Charge |
|-------------|-----------------------|------------|-------------|
| 32B20110 | Replaced by ES-4000LS | | |
| 32B20111 | Replaced by ES-4003LS | | |
| 32C20113 | Replaced by ES-4009LS | | |
| 32C20114 | Replaced by ES-4011LS | | |
| 32C21420 | Replaced by ES-4019LS | | |



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2. ES4000 Series Aircraft Alternator » Factory New

| Part Number | Description | List Price | Core Charge |
|-------------|--|------------|-------------|
| 4111810 | Replaced by ES-4020 | | |
| 633661 | Replaced by ES-4001 | | |
| 633962 | Replaced by ES-4004 | | |
| 634442 | Replaced by ES-4006 | | |
| 649280 | Replaced by ES-4008 | | |
| 649281 | Replaced by ES-4002 | | |
| 649283 | Replaced by ES-4009 | | |
| 653344 | Replaced by ES-4029 | | |
| 69670-04 | Replaced by ES-4020 | | |
| DOFF10300D | Replaced by ES-4006 | | |
| DOFF10300E | Replaced by ES-4004 | | |
| DOFF10300FR | Replaced by ES-4001 | | |
| DOFF10300JR | Replaced by ES-4000 | | |
| E3FF10300AA | Replaced by ES-4011 | | |
| EOFF10300AA | Replaced by ES-4003 | | |
| ES-10024 | 24V/100A ***CM656802 | \$1,438.00 | \$200.00 |
| ES-4000 | 15V/60A BD ***Cessna C611501-0102 | \$826.00 | |
| ES-4001 | 15V/60A GD ***Cessna C611502-0203, CM 633962 | \$948.00 | |
| ES-4002 | 15V/80A GD ***CM 649281 | \$894.00 | |
| ES-4003 | 15V/95A BD | \$1,048.00 | |
| ES-4004 | 28V/38A GD ***Cessna C611502-0203, CM 633962 | \$860.00 | |
| ES-4006 | 28V/60A GD ***CM 634442 | \$882.00 | |
| ES-4008 | 28V/70A GD ***CM 649280 | \$926.00 | |
| ES-4009 | 28V/70A BD ***CM 649283 | \$872.00 | |
| ES-4011 | 28V/90A BD | \$1,048.00 | |
| ES-4011LS | 28V/90A | \$1,058.00 | |
| ES-4019LS | 28V/130A BD ***32C21420 | \$1,428.00 | |
| ES-4020 | 14V/60A BD | \$716.00 | |
| ES-4029 | 28V/70A GD ***CM 653344 | \$926.00 | |
| ES-7024-14 | 24V/70A BD ***CM 657199 | \$894.00 | |



OVERHAUL/EXCHANGE AIRCRAFT ALTERNATORS

Limited Six (6) Months* Warranty on Overhauled Components: Read full policy on page 27.

For more info please visit: www.hartzellenginetech.com/aircraft-parts/aircraft-alternators.html

3. "AL" Series Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|------------------------|------------|-------------|
| ALE-6406 | Replaced by ALE-6520R | | |
| ALE-6406G | Replaced by ALE-6520R | | |
| ALE-6406RG | Replaced by ALE-6520R | | |
| ALE-6420 | Replaced by ALE-6520R | | |
| ALE-6420G | Replaced by ALE-6520R | | |
| ALE-6420RG | Replaced by ALE-6520R | | |
| ALE-6520R | 12V/40 BD | \$492.00 | \$100.00 |
| ALE-8406 | Replaced by ALE-8520R | | |
| ALE-8406G | Replaced by ALE-8520R | | |
| ALE-8406RG | Replaced by ALE-8520R | | |
| ALE-8408 | Replaced by ALE-8520R | | |
| ALE-8420 | Replaced by ALE-8520R | | |
| ALE-8420G | Replaced by ALE-8520R | | |
| ALE-8420R | Replaced by ALE-8520R | | |
| ALE-8420RG | Replaced by ALE-8520R | | |
| ALE-8520R | 12V/40A BD | \$518.00 | \$100.00 |
| ALE-8521R | 12V/40A BD | \$520.00 | \$100.00 |
| ALT-8403 | Replaced by ALT-8520R | | |
| ALT-8404 | Replaced by ALT-8521R | | |
| ALT-8404LS | Replaced by ALT-8521RS | | |
| ALT-8404R | Replaced by ALT-8521R | | |
| ALT-8404RS | Replaced by ALT-8521RS | | |
| ALT-8407 | Replaced by ALT-8520R | | |
| ALT-8420R | Replaced by ALT-8520R | | |
| ALT-8421 | Replaced by ALT-8521R | | |



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3. "AL" Series Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|------------------------|------------|-------------|
| ALT-8421LS | Replaced by ALT-8521RS | | |
| ALT-8421RS | Replaced by ALT-8521RS | | |
| ALT-8520R | 24V/50A BD | \$666.00 | \$150.00 |
| ALT-8521R | 24V/50A BD | \$712.00 | \$130.00 |
| ALT-8521RS | 24V/50A BD | \$686.00 | \$130.00 |
| ALT-9405 | Replaced by ALT-9522R | | |
| ALT-9422 | Replaced by ALT-9522R | | |
| ALT-9522R | 24V/50A BD | \$700.00 | \$165.00 |
| ALU-6421LS | Replaced by ALT-6521RS | | |
| ALU-6421RS | Replaced by ALT-6521RS | | |
| ALU-6521RS | 24V/70A BD | \$688.00 | \$130.00 |
| ALU-8403 | Replaced by ALU-8521R | | |
| ALU-8403LS | Replaced by ALU-8521RS | | |
| ALU-8403R | Replaced by ALU-8521R | | |
| ALU-8403RS | Replaced by ALU-8521RS | | |
| ALU-8421 | Replaced by ALU-8521R | | |
| ALU-8421LS | Replaced by ALU-8521RS | | |
| ALU-8421R | Replaced by ALU-8521R | | |
| ALU-8421RS | Replaced by ALU-8521RS | | |
| ALU-8521R | 24V/70A BD | \$694.00 | \$180.00 |
| ALU-8521RS | 24V/70A BD | \$688.00 | \$160.00 |
| ALU-8532RS | 28V/75A BD | | |
| ALU-9404R | Replaced by ALU-9522R | | |
| ALU-9404L | Replaced by ALU-9522R | | |
| ALU-9422L | Replaced by ALU-9522R | | |
| ALU-9422R | Replaced by ALU-9522R | | |
| ALU-9522R | 24V/70A GD | \$732.00 | \$150.00 |
| ALV-6403LS | Replaced by ALV-8512R | | |
| ALV-6403RS | Replaced by ALV-8512R | | |
| ALV-8402 | Replaced by ALV-8511R | | |



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3. "AL" Series Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|-----------------------|------------|-------------|
| ALV-8402L | Replaced by ALV-8511R | | |
| ALV-8511 | Replaced by ALV-8511R | | |
| ALV-8511R | Obsolete | | |
| ALV-8512R | Obsolete | | |
| ALV-9401 | Replaced by ALV-9510R | | |
| ALV-9401L | Replaced by ALV-9510R | | |
| ALV-9401R | Replaced by ALV-9510R | | |
| ALV-9407 | Replaced by ALV-9510R | | |
| ALV-9407S | Replaced by ALV-9510R | | |
| ALV-9510 | Replaced by ALV-9510R | | |
| ALV-9510L | Replaced by ALV-9510R | | |
| ALV-9510R | 24V/100A GD | \$1,514.00 | \$425.00 |
| ALX-6408 | Replaced by ALX-6523R | | |
| ALX-6423 | Replaced by ALX-6523R | | |
| ALX-6523R | 12V/70A BD | \$732.00 | \$165.00 |
| ALX-8403 | Replaced by ALX-8521R | | |
| ALX-8403G | Replaced by ALX-8521R | | |
| ALX-8403LS | Replaced by ALX-8521R | | |
| ALX-8403LSG | Replaced by ALX-8521R | | |
| ALX-8403R | Replaced by ALX-8521R | | |
| ALX-8403RG | Replaced by ALX-8521R | | |
| ALX-8403RS | Replaced by ALX-8521R | | |
| ALX-8403RSG | Replaced by ALX-8521R | | |
| ALX-8421 | Replaced by ALX-8521R | | |
| ALX-8421G | Replaced by ALX-8521R | | |
| ALX-8421LS | Replaced by ALX-8521R | | |
| ALX-8421LSG | Replaced by ALX-8521R | | |
| ALX-8421R | Replaced by ALX-8521R | | |
| ALX-8421RG | Replaced by ALX-8521R | | |
| ALX-8421RS | Replaced by ALX-8521R | | |



3. "AL" Series Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|------------------------|------------|-------------|
| ALX-8421RSG | Replaced by ALX-8521R | | |
| ALX-8521R | 12V/70A BD | \$732.00 | \$175.00 |
| ALX-8521RS | 12V/70A BD | \$710.00 | \$175.00 |
| ALX-9402 | Replaced by ALX-9525BR | | |
| ALX-9404L | Replaced by ALX-9522R | | |
| ALX-9404LG | Replaced by ALX-9522R | | |
| ALX-9404R | Replaced by ALX-9522R | | |
| ALX-9404RG | Replaced by ALX-9522R | | |
| ALX-9405 | Replaced by ALX-9522R | | |
| ALX-9422L | Replaced by ALX-9522R | | |
| ALX-9422LG | Replaced by ALX-9522R | | |
| ALX-9422R | Replaced by ALX-9522R | | |
| ALX-9422RG | Replaced by ALX-9522R | | |
| ALX-9424 | Replaced by ALX-9524R | | |
| ALX-9425 | Replaced by ALX-9525BR | | |
| ALX-9425A | Replaced by ALX-9525BR | | |
| ALX-9425B | Replaced by ALX-9525BR | | |
| ALX-9522R | 12V/70A GD | \$732.00 | \$135.00 |
| ALX-9524R | 12V/70A GD | \$732.00 | \$175.00 |
| ALX-9525BR | 12V/70A GD | \$714.00 | \$200.00 |
| ALY-6403 | Replaced by ALY-6520R | | |
| ALY-6403G | Replaced by ALY-6520R | | |
| ALY-6403R | Replaced by ALY-6520R | | |
| ALY-6403RG | Replaced by ALY-6520R | | |
| ALY-6406 | Replaced by ALY-6520R | | |
| ALY-6406G | Replaced by ALY-6527R | | |
| ALY-6406R | Replaced by ALY-6527R | | |
| ALY-6406RG | Replaced by ALY-6527R | | |
| ALY-6408 | Replaced by ALY-6521R | | |
| ALY-6409 | Replaced by ALY-6522R | | |



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3. "AL" Series Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|------------------------|------------|-------------|
| ALY-6420 | Replaced by ALY-6520R | | |
| ALY-6420G | Replaced by ALY-6520R | | |
| ALY-6420R | Replaced by ALY-6520R | | |
| ALY-6420RG | Replaced by ALY-6520R | | |
| ALY-6421 | Replaced by ALY-6521R | | |
| ALY-6422 | Replaced by ALY-6522R | | |
| ALY-6427 | Replaced by ALY-6527R | | |
| ALY-6427G | Replaced by ALY-6527R | | |
| ALY-6427R | Replaced by ALY-6527R | | |
| ALY-6427RG | Replaced by ALY-6527R | | |
| ALY-6520R | 12V/60A BD | \$698.00 | \$125.00 |
| ALY-6521R | 12V/60A BD | \$698.00 | \$110.00 |
| ALY-6522R | 12V/60A BD | \$714.00 | \$120.00 |
| ALY-6527R | 12V/60A BD | \$608.00 | \$110.00 |
| ALY-8402 | Replaced by ALY-8524R | | |
| ALY-8403 | Replaced by ALY-8520R | | |
| ALY-8403G | Replaced by ALY-8520R | | |
| ALY-8403LS | Replaced by ALY-8520RS | | |
| ALY-8403LSG | Replaced by ALY-8520RS | | |
| ALY-8403R | Replaced by ALY-8520R | | |
| ALY-8403RG | Replaced by ALY-8520R | | |
| ALY-8403RSG | Replaced by ALY-8520RS | | |
| ALY-8403RSG | Replaced by ALY-8520RS | | |
| ALY-8405 | Replaced by ALY-8526R | | |
| ALY-8405G | Replaced by ALY-8526R | | |
| ALY-8405R | Replaced by ALY-8526R | | |
| ALY-8411 | Replaced by ALY-8524R | | |
| ALY-8420 | Replaced by ALY-8520R | | |
| ALY-8420G | Replaced by ALY-8520R | | |



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3. "AL" Series Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|------------------------|------------|-------------|
| ALY-8420LS | Replaced by ALY-8520RS | | |
| ALY-8420LSG | Replaced by ALY-8520RS | | |
| ALY-8420R | Replaced by ALY-8520R | | |
| ALY-8420RG | Replaced by ALY-8520R | | |
| ALY-8420RS | Replaced by ALY-8520RS | | |
| ALY-8420RSG | Replaced by ALY-8520RS | | |
| ALY-8424 | Replaced by ALY-8524R | | |
| ALY-8426 | Replaced by ALY-8526R | | |
| ALY-8426G | Replaced by ALY-8526R | | |
| ALY-8426R | Replaced by ALY-8526R | | |
| ALY-8426RG | Replaced by ALY-8526R | | |
| ALY-8520R | 12V/60A BD | \$636.00 | \$110.00 |
| ALY-8520RS | 12V/60A BD | \$622.00 | \$100.00 |
| ALY-8524R | 12V/60A BD | \$610.00 | \$100.00 |
| ALY-8526R | 12V/60A BD | \$660.00 | \$120.00 |
| ALZ-8401 | Replaced by ALZ-8523R | | |
| ALZ-8401G | Replaced by ALZ-8523R | | |
| ALZ-8401R | Replaced by ALZ-8523R | | |
| ALZ-8401RG | Replaced by ALZ-8523R | | |
| ALZ-8423 | Replaced by ALZ-8523R | | |
| ALZ-8423G | Replaced by ALZ-8523R | | |
| ALZ-8423RG | Replaced by ALZ-8523R | | |
| ALZ-8523R | 12V/50A BD | \$600.00 | \$100.00 |
| ALT-8521 | 12V/60A BD | \$920.00 | \$130.00 |

4. Chrysler Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|----------------------|------------|-------------|
| 4111810R | 12V/60 BD | \$484.00 | \$80.00 |
| 2642197 | Replaced by 4111810R | | |
| 2642210 | Replaced by 4111810R | | |



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4. Chrysler Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|----------------------|------------|-------------|
| 2642997R | Replaced by 4111810R | | |
| 3656624R | Replaced by 4111810R | | |

5. Continental Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|---------------------|------------|-------------|
| 642055 | Replaced by 646843R | \$734.00 | \$100.00 |
| 646842 | Replaced by 649304R | | |
| 646843R | 24V/60A GD | \$1,284.00 | \$300.00 |
| 649280R | 24V/70A GD | | |
| 649281R | 15V/80A GD | \$750.00 | \$160.00 |
| 649304R | 24V/100A GD | \$1,620.00 | \$375.00 |

6. ES4000 Series Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|-----------------------|------------|-------------|
| 32C20114 | Replaced by ES-4011 | | |
| 32C21420 | Replaced by ES-4019RS | | |
| 4111810 | Replaced by ES-4020R | | |
| 633661 | Replaced by ES-4001 | | |
| 633962 | Replaced by ES-4004 | | |
| 649280 | Replaced by ES-4008 | | |
| 649281 | Replaced by ES-4002 | | |
| 649283 | Replaced by ES-4009 | | |
| 653344 | Replaced by ES-4029 | | |
| 69670-04 | Replaced by ES-4020R | | |
| DOFF10300D | Replaced by ES-4006 | | |
| DOFF10300E | Replaced by ES-4004 | | |
| DOFF10300FR | Replaced by ES-4001 | | |
| DOFF10300JR | Replaced by ES-4000 | | |
| E3FF10300AA | Replaced by ES-4011 | | |
| EOFF10300AA | Replaced by ES-4003 | | |
| ES-4019RS | 28V/130A BD | \$1,202.00 | \$250.00 |



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6. ES4000 Series Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|-------------|-------------|------------|-------------|
| ES-4020R | 14V/60A BD | \$586.00 | \$80.00 |
| ES-4029R | 28V/70A | | |

7. Ford Aircraft Alternator » Overhaul / Exchange

| Part Number | Description | List Price | Core Charge |
|--------------|--------------------------|------------|-------------|
| C6FF10300B | Replaced by DOFF10300JR | | |
| C6FF10300C | Replaced by DOFF10300FR | | |
| C6FF10300D | Replaced by DOFF10300ER | | |
| C6FF10300F | Replaced by DOFF10300JR | | |
| C6FF10300L | Replaced by DOFF10300FR | | |
| C6FF10300N | Replaced by DOFF10300BR | | |
| C6FF10300R | Replaced by DOFF10300DR | | |
| C6FF10300S | Replaced by DOFF10300DR | | |
| C7FF10300C | Replaced by EOFF10300BAR | | |
| D7FF10300AA | Replaced by E3FF10300AAR | | |
| DOFF10300A | Replaced by EOFF10300BAR | | |
| DOFF10300BR | 28V/60A BD | \$508.00 | \$100.00 |
| DOFF10300C | Replaced by DOFF10300DR | | |
| DOFF10300JR | 15V/60A BD | \$508.00 | \$100.00 |
| DOFF10300FR | 15V/60A GD | \$636.00 | \$160.00 |
| DOFF10300ER | 28V/38A GD | \$696.00 | \$160.00 |
| DOFF10300G | Replaced by DOFF10300ER | | |
| DOFF10300DR | 28V/60A GD | \$726.00 | \$100.00 |
| DOFF10300H | Replaced by DOFF10300FR | | |
| DOFF10300M | Replaced by DOFF10300JR | | |
| E3FF10300AAR | 28V/95A BD | \$716.00 | \$175.00 |
| E3FF10300BAR | 28V/60A BD | \$528.00 | \$100.00 |
| EOFF10300AAR | 12V/95A BD | \$736.00 | \$175.00 |
| EOFF10300BAR | 28V/60A BD | \$526.00 | \$100.00 |



8. Alternator Overhaul Kit

| Part Number | Description | List Price | Core Charge |
|-------------|--|------------|-------------|
| 90-3032 | For ALE-6406,G; ALE-6420,G; ALE-6520; ALE-8105A; ALE-8406,G; ALE-8408; ALE-8420,G; ALE-8421; ALE-8520; ALE-8521 | \$329.50 | |
| 90-3035 | For ALT-8403; ALT-8404; ALT-8404LS; ALT-8407; ALT-8420; ALT-8421; ALT-8421LS; ALT-8520; ALT-8521; ALT-8521LS | \$240.00 | |
| 90-3036 | For ALT-9405; ALT-9422; ALT-9522 | \$217.50 | |
| 90-3037 | For ALU-6421LS; ALU-6521LS; ALU-8403; ALU-8403LS; ALU-8421LS; ALU-8521; ALU-8521LS | \$234.00 | |
| 90-3038 | For ALU-9404L; ALU-9422L; ALU-9522 | \$217.50 | |
| 90-3039 | For ALV-6403LS; ALV-8402,L; ALV-8511; ALV-8512 | \$240.50 | |
| 90-3040 | For ALV-9401; ALV-9401L; ALV-9405L; ALV-9407,S | \$233.50 | |
| 90-3042 | For ALV-9510 | \$249.00 | |
| 90-3044 | For ALX-8403,G,R,RG; ALX-8403LS,RS,LSG,RSG; ALX-8421,G,R,RG; ALX-8421LS,RS,LSG,RSG; ALX-8521; ALX-8521LS | \$240.00 | |
| 90-3045 | For ALX-9402 | \$197.50 | |
| 90-3046 | For ALX-9404L,LG,R,RG; ALX-9422L,LG,R,RG; ALX-9424; ALX-9522; ALX-9524 | \$217.50 | |
| 90-3048 | For ALY-6403,G; ALY-6406,G; ALY-6420,G; ALY-6427,G; ALY- 6520,G; ALY-6520LS; ALY-6527,G; ALY-8403,G; ALY-8403LS,G; ALY-8410; ALY-8420,G; ALY-8420LS,G; ALY-8423; ALY-8520; ALY-8520LS | \$233.00 | |
| 90-3049 | For ALY-6408; ALY-6409; ALY-6412; ALY-6421; ALY-6422; ALY-6425; ALY-6521; ALY-6522; ALY-6525; ALY-8402; ALY-8405,G; ALY-8411; ALY-8424; ALY-8426,G; ALY-8523; ALY-8524; ALY-8526 | \$203.00 | |
| 90-3052 | For ES4020 | \$247.50 | |
| 90-3053 | For ES4000; ES4000LS; ES4005; ES4005-2; ES4007; ES4009; ES4009LS; ES4013; ES4013LS; ES4017; ES4018; ES4018LS; ES4023; ES4024; ES4030; ES4031; ES4040 | \$133.50 | |
| 90-3054 | For ES4021; ES4024L; ES4024LP | \$133.50 | |
| 90-3055 | For ES4003; ES4003LS; ES4011; ES4011LS; ES4011-1; ES4011-1LS; ES4014; ES4016; ES4019; ES4019LS; ES4019-2LS; ES4022 | \$436.00 | |



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8. Alternator Overhaul Kit

| Part Number | Description | List Price | Core Charge |
|-------------|---|------------|-------------|
| 90-3056 | For ES4001; ES4002; ES4004; ES4006; ES4008; ES4028; ES4029 | \$145.00 | |
| 90-3057 | For 4111810R | \$261.00 | |
| 90-3058 | For DOFF10300B; DOFF10300J; EOFF10300BA; E3FF10300BA | \$129.00 | |
| 90-3059 | For DOFF1030D; DOFF10300E; DOFF10300F | \$143.50 | |
| 90-3060 | For EOFF10300AA; E3FF10300AA | \$73.00 | |



PARTS SECTION

Limited One (1) Year* Warranty on New Components: Read full warranty policy on page 27.

For more info please visit: www.hartzellenginetech.com/aircraft-parts/aircraft-alternators.html

9. Aircraft Alternator Replacement Parts

| Part Number | Description | List Price | Core Charge |
|-------------|----------------------|------------|-------------|
| 19X-4634 | Package | \$12.60 | |
| 2A41435A04 | Nut, Hex | \$1.50 | |
| 32B70247A01 | O Ring | \$7.60 | |
| 40009-1 | Rotor, Long Shaft | \$476.00 | |
| 40024 | Adapter, Harness | \$32.00 | |
| 40048 | Rotor Assembly | \$510.00 | |
| 50027 | Flat Washer | \$2.00 | |
| 635796RS | TCM Alternator Hub | \$1,520.00 | \$500.00 |
| 646655RS | TCM Alternator Hub | \$1,520.00 | \$500.00 |
| 8X-4075 | Nut | \$21.00 | |
| 90-2030 | Term Stud Pkg | \$32.00 | |
| 90-2040 | Term Stud Pkg | \$86.50 | |
| 90-2043 | Term Stud Pkg | \$11.50 | |
| 90-2046 | Term Stud Pkg | \$71.00 | |
| 90-2049 | Retainer & Seal Pkg | \$15.00 | |
| 90-2121 | Term Stud Pkg | \$17.50 | |
| 90-2213 | Insulation Pkg | \$19.00 | |
| 90-2232 | Washer Pkg | \$10.50 | |
| 90-2241 | Vent Fan Pkg | \$31.50 | |
| 90-2259 | Vent Fan Pkg | \$34.50 | |
| 90-2500 | SRE Head & Rotor Kit | \$554.00 | \$50.00 |
| 90-2501 | SRE Head & Rotor Kit | \$554.00 | \$50.00 |
| 90-2503 | SRE Head & Rotor Kit | \$554.00 | \$50.00 |
| 90-2504 | SRE Head & Rotor Kit | \$626.00 | \$50.00 |
| 90-2505 | SRE Head & Rotor Kit | \$580.00 | \$50.00 |



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9. Aircraft Alternator Replacement Parts

| Part Number | Description | List Price | Core Charge |
|-------------|-------------------------------|------------|-------------|
| 90-2506 | SRE Head & Rotor Kit | \$598.00 | \$50.00 |
| 90-2507 | SRE Head & Rotor Kit | \$598.00 | \$50.00 |
| 90-2508 | SRE Head & Rotor Kit | \$554.00 | \$50.00 |
| 90-2509 | SRE Head & Rotor Kit | \$626.00 | \$50.00 |
| 90-2510 | SRE Head & Rotor Kit | \$564.00 | \$50.00 |
| 90-2511 | SRE Head & Rotor Kit | \$553.00 | \$50.00 |
| 90-2512 | SRE Head & Rotor Kit | \$598.00 | \$50.00 |
| 90-2513 | SRE Head & Rotor Kit | \$570.50 | \$50.00 |
| 90-2520 | Gear Assembly | \$78.50 | |
| 90-2521 | Brush & Terminal Stud Package | \$56.50 | |
| 90-2522 | Hardware & Insulation Package | \$14.00 | |
| 90-2523 | Brush Spring Package | \$9.00 | |
| 90-2524 | Thru-Bolt Package | \$8.50 | |
| 90-2525 | Thrust Washer Package | \$35.50 | |
| 90-2639 | Lock Tab Pkg | \$70.00 | |
| 90-2822 | Rotor Shaft Spacer | \$36.00 | |
| 90-300 | Woodruff Key Pkg | \$16.50 | |
| 90-33 | Nut & Washer Pkg | \$12.00 | |
| 90-419B | Term Stud Pkg | \$6.50 | |
| 90-726 | Terminal Stud Pkg | \$40.00 | |
| 90-818 | Eyelet Pkg | \$5.00 | |
| 90-833 | Term Stud Pkg | \$20.00 | |
| 90-850 | Ring & Brg Pkg | \$61.00 | |
| 90-851 | Ring & Brg Pkg | \$129.50 | |
| 90-990 | Term Stud Pkg | \$35.00 | |
| 4219 | Woodruff Key | \$7.50 | |
| 4224 | Woodruff Key | \$3.50 | |
| ALA-19AS | Spring Set | \$4.50 | |
| ALA-19S | Spring Set, Brush | \$2.50 | |



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9. Aircraft Alternator Replacement Parts

| Part Number | Description | List Price | Core Charge |
|---------------|----------------------------|------------|-------------|
| ALA-20DS | Thru Bolt Pkg | \$6.00 | |
| ALA-20GS | Thru Bolt Pkg | \$26.00 | |
| ALA-20JS | Thru Bolt Pkg | \$21.00 | |
| ALA-20S | Thru Bolt Pkg | \$8.00 | |
| ALB-20AS | Thru Bolt Pkg | \$29.50 | |
| ALB-20AS-1 | Thru Bolt Pkg | \$52.00 | |
| ALB-21 | Spacer | \$21.00 | |
| ALB-25 | Insert | \$131.00 | |
| ALB-28 | Retainer | \$32.00 | |
| ALB-36 | Bushing | \$16.50 | |
| ALB-37 | Stud | \$28.50 | |
| ALC-21E | Spacer | \$8.00 | |
| ALC-21F | Spacer, Rotor Shaft | \$5.00 | |
| ALD-21 | Spacer, Rotor Shaft | \$12.00 | |
| ALD-21A | Spacer, Rotor Shaft | \$8.00 | |
| ALE-1003 | D E Head Assy | \$93.00 | |
| ALE-1003K | D E Head Assy | \$84.50 | |
| ALE-1004S | Pos Rect & Plate Assy | \$58.00 | |
| ALE-1012AS | Brush Set Pkg | \$22.50 | |
| ALE-1012BS | Brush Set Pkg | \$28.50 | |
| ALE-1012DS | Brush Set Pkg | \$30.00 | |
| ALE-1012LS | Brush Set Pkg | \$23.50 | |
| ALE-1012NS | Brush Set Pkg | \$30.00 | |
| ALE-1013AS | Brush Set Pkg | \$21.00 | |
| ALE-1054A | Pos-Rect & Plate Assy | \$61.00 | |
| ALE-1054B | Neg-Rect & Bracket Assy | \$81.50 | |
| ALE-1242AAS-2 | SRE Head Assy with Bearing | \$250.50 | |
| ALE-20 | Insert | \$7.50 | |
| ALE-2008 | Stator Assy | \$289.50 | |



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9. Aircraft Alternator Replacement Parts

| Part Number | Description | List Price | Core Charge |
|--------------|--------------------------|------------|-------------|
| ALE-2008AAS | Stator Assy | \$255.00 | |
| ALE-2008ABS | Stator Assy | \$289.00 | |
| ALE-2008ADS | Stator Assy | \$289.00 | |
| ALE-2008AES | Stator Assy | \$248.00 | |
| ALE-2008AGS | Stator Assy | \$279.00 | |
| ALE-2008AH | Stator Assy | \$243.00 | |
| ALE-2008AL | Stator Assy | \$243.00 | |
| ALE-2008AM | Stator Assembly | \$180.00 | |
| ALE-2008K | Stator Assy | \$177.50 | |
| ALE-2008M | Stator Assy | \$264.50 | |
| ALE-2013AS | Brush Set Pkg | \$22.00 | |
| ALE-2273S-1 | Rotor Assy | \$471.50 | |
| ALE-23A | Brush Set Pkg | \$32.50 | |
| ALE-24 | Insert | \$3.00 | |
| ALE-3045BS | Brush Holder Assembly | \$128.00 | |
| ALE-55 | Insulation, Brush Holder | \$2.00 | |
| ALH-2228S-1 | Rotor Assy | \$489.00 | |
| ALH-2306S-1 | Rotor Assy | \$352.00 | |
| ALK-1232BS-2 | SRE Head Assy | \$285.00 | |
| ALK-1232CS-2 | SRE Head Assy | \$263.50 | |
| ALK-1232ES-2 | SRE Head Assy | \$271.50 | |
| ALK-1232LS-2 | SRE Head Assy | \$263.50 | |
| ALP-1034S | Fan Assy Pkg | \$33.00 | |
| ALU-1003 | D E Head Assy | \$285.00 | |
| ALU-1043 | D E Head Assy | \$260.50 | |
| ALU-1062 | SRE Cover | \$66.00 | |
| ALU-1062A | SRE Cover | \$55.00 | |
| ALU-1062AE | SRE Cover Assy | \$117.50 | |
| ALU-2228S-1 | Rotor Assy | \$436.00 | |



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9. Aircraft Alternator Replacement Parts

| Part Number | Description | List Price | Core Charge |
|--------------|------------------------|------------|-------------|
| ALU-23 | Spacer | \$16.00 | |
| ALU-3045BS | Assembly, Brush Holder | \$120.00 | |
| ALV-1004 | Plate, Rectifier | \$60.00 | |
| ALV-1004A | Plate, Rectifier | \$60.00 | |
| ALV-1012S | Brush Set Pkg | \$50.00 | |
| ALV-1015 | Brush Holder | \$131.00 | |
| ALV-1102AS | Slip Ring End Housing | \$615.50 | |
| ALV-21 | Rotor Shaft Spacer | \$30.00 | |
| ALV-74 | Washer | \$1.50 | |
| ALX-1062S | SRE Cover | \$199.00 | |
| ALX-2238AS-1 | Rotor Assy | \$500.00 | |
| AMA-19S | Brush Spring Set | \$32.50 | |
| ANG-2128S-1 | Rotor Assy | \$632.00 | |
| GAR-171B | Snap Ring | \$6.00 | |
| GJC-49BS | SRE Cover Packge | \$19.00 | |
| GJT-47 | Bearing Cover | \$10.50 | |
| GR-32 | D.E. Retainer | \$7.50 | |
| MF3A | IGN Filter/Cap | \$195.00 | |
| PU-604A | Backing Plate - Fan | \$134.50 | |
| PU-604B | Plate | \$134.50 | |
| PU-672A | Pulley, Drive | \$101.50 | |
| PU-676A | Pulley, Drive | \$141.50 | |
| PU-692A | Pulley, Drive | \$97.00 | |
| PU-702 | Pulley | \$117.50 | |
| X-3416 | Bearing, Drive End | \$19.50 | |
| X-3626A | Bearing, Ball | \$19.50 | |
| X-4086 | Bearing | \$34.50 | |
| X-4087 | Bearing, DE | \$19.50 | |
| X-4130 | Bearing, Needle | \$17.00 | |
| X-4140 | Bearing, Ball | \$86.00 | |



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9. Aircraft Alternator Replacement Parts

| Part Number | Description | List Price | Core Charge |
|-------------|---------------------------|------------|-------------|
| X-4612 | Bearing, Ball | \$19.50 | |
| X-5398 | Bearing, DE | \$19.50 | |
| XA-0744AB | O-Ring | \$7.00 | |
| XA-1026 | Shaft Seal | \$8.00 | |
| XA-1441 | Oil Seal | \$34.00 | |
| XA-1540S | O Ring Seal | \$11.00 | |
| XA-744AB | O Ring Seal | \$8.00 | |
| XA-744AN | O Ring Seal | \$8.00 | |
| XA-744AZ | O Ring Seal | \$8.00 | |
| XA-943FS | Rectifier Pkg Pos | \$40.50 | |
| XA-944JS | Rectifier Pkg Neg | \$40.50 | |
| ES4101 | Nut | \$15.00 | |
| ES4102 | Fan & Pulley Assy | \$230.00 | |
| ES4103 | Housing- Alt Front | \$92.00 | |
| ES4104 | Bearing-Front | \$25.50 | |
| ES4105 | Retainer- Front BRG (BD) | \$8.50 | |
| ES4106-1 | Screw | \$1.80 | |
| ES4106-2 | Screw- Bearing Retainer | \$1.80 | |
| ES4107 | Stop-Rotor | \$12.00 | |
| ES4108 | Ring- Rotor Stop | \$2.00 | |
| ES4109 | Rotor Assy-24V-Belt Drive | \$230.50 | |
| ES4110 | Stator & Coil Assy - 70A | \$259.00 | |
| ES4111 | Bolt-Rect | \$2.00 | |
| ES4112 | Washer - Insulator Rect | \$2.00 | |
| ES4113 | Rectifier Assy | \$170.00 | |
| ES4114 | Capacitor | \$17.00 | |
| ES4115 | Insulator Battery Inter | \$3.50 | |
| ES4116 | Insulator Stator Inter | \$3.00 | |
| ES4117 | Screw-Brush Holder | \$3.50 | |
| ES4118 | Kit Brush | \$27.50 | |



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9. Aircraft Alternator Replacement Parts

| Part Number | Description | List Price | Core Charge |
|-------------|------------------------------------|------------|-------------|
| ES4119 | Spring - Brush | \$1.80 | |
| ES4120 | Holder - Brush | \$19.50 | |
| ES4121 | Stud- Field Term | \$2.50 | |
| ES4122 | Insulator - Field Inter | \$3.00 | |
| ES4123 | Housing - Alt Rear | \$92.00 | |
| ES4124 | Insulator- Batt Outer | \$2.60 | |
| ES4125 | Nut Washer Assy-Batt | \$2.00 | |
| ES4126 | 1/4" Bolt-Housing must be modified | \$11.00 | |
| ES4127 | Insulator- Field Outer | \$4.00 | |
| ES4128 | Insulator- Stator Outer | \$3.00 | |
| ES4129 | Nut & Washer Assy .19-24 | \$2.00 | |
| ES4135 | Lead- Stator Term | \$4.00 | |
| ES4136 | Key- Woodruff | \$1.80 | |
| ES4137 | Fan Assy | \$159.00 | |
| ES4138 | Retain.-Front Bearing | \$12.50 | |
| ES4139 | Housing- Alt Front | \$151.00 | |
| ES4140 | O Ring | \$2.50 | |
| ES4141 | Spacer- Drive Gear | \$32.50 | |
| ES4142 | Seal-Drive End | \$13.00 | |
| ES4143 | Rotor Assy 24V GD | \$291.00 | |
| ES4144 | Rotor Assy 12V GD | \$291.00 | |
| ES4145 | Rotor | \$291.00 | |
| ES4146 | Stator & Coil Assy 38A | \$142.50 | |
| ES4147 | Stator & Coil Assy 60A | \$142.50 | |
| ES4149 | Stator & Coil Assy 80A | \$317.00 | |
| ES4184 | Rectifier Insulator | \$5.00 | |
| ES4185 | Fan Spacer | \$1.50 | |
| ES4186 | Pulley Spacer | \$12.50 | |
| ES4187 | Screw- Capacitor Terminal | \$2.00 | |



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9. Aircraft Alternator Replacement Parts

| Part Number | Description | List Price | Core Charge |
|-------------|----------------------------|------------|-------------|
| ES4188 | Thru- Bolt Rev A | \$2.50 | |
| ES4189 | Screw- Capacitor Attaching | \$2.50 | |
| ES4190 | Brush Holder Screw | \$3.00 | |
| ES4191 | Screw/Washer Assy- Rect. | \$2.00 | |
| ES4192 | Front Bearing Ret. Screw | \$6.50 | |
| ES4193 | Rear Housing | \$103.50 | |
| ES4194 | Stator Assy | \$437.00 | |
| ES4195 | Washer- Lock | \$2.60 | |
| ES4196 | Nut | \$6.00 | |
| ES4199 | Rotor Assy 15V-90A | \$513.00 | |
| ES4200 | Rotor Assy 28V-90A | \$275.00 | |
| ES4201 | Brush Holder Assy | \$99.00 | |
| ES4202 | Capacitor | \$15.50 | |
| ES4203 | Rectifier Assembly | \$262.50 | |
| ES4204 | Front Housing | \$151.00 | |
| ES4207 | #10 Nut - Ground | \$1.00 | |
| ES4208 | LOCKWASHER 1/4" | \$1.00 | |
| ES4209 | #10 Nut (10-24) | \$1.00 | |
| ES4210 | 1/4" Nut (1/4-20) | \$1.00 | |
| ES4235 | Stator Assembly | \$327.00 | |
| ES4239 | Rectifier Kit | \$163.00 | |
| ES4242 | Retainer- Thru Bolts | \$6.00 | |
| ES4243 | Thru Bolt 10-24 | \$4.50 | |
| ES4301 | Insulator Batter Outer | \$2.50 | |
| ES4302 | Insulator - Capacitor | \$2.00 | |
| ES4303 | Insulator Washer-Pos Brush | \$3.50 | |
| ES4304 | Pulley Assy | \$42.00 | |
| ES4305 | Terminal Plate | \$9.00 | |
| ES4306 | Neg Brush - Flat Washer | \$2.50 | |



Aircraft Alternator & Parts Price List

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| Part Number | Description | List Price | Core Charge |
|-------------|-----------------------------|------------|-------------|
| ES4307 | Rotor | \$232.00 | |
| ES4308 | Neg Brush - Holder | \$3.00 | |
| ES4309 | Lock Tab - Thru Bolt | \$4.50 | |
| ES4310 | Thru Bolt | \$2.50 | |
| ES4311 | Pos Brush Holder | \$2.00 | |
| ES4312 | Pos Brush Assy | \$32.00 | |
| ES4313 | Screw Brush Holder | \$2.80 | |
| ES4314 | Neg Brush Assy | \$32.00 | |
| ES4315 | Screw - Grounding | \$1.60 | |
| ES4316-4 | Coned Washer | \$2.50 | |
| ES4317 | Screw - Term Plate | \$1.60 | |
| ES4318 | Insert - Mounting | \$8.00 | |
| ES4320 | Stator Assy | \$191.00 | |
| ES4326 | Drive End Shield | \$88.00 | |
| ES4327 | Slip Ring End Shield | \$88.00 | |
| ES4328 | Retainer, Drive End Bearing | \$11.50 | |
| ES4330 | Stud--Slip Ring End Kit | \$2.00 | |
| ES4331 | Terminal Block | \$14.50 | |
| ES4332 | Insulator - Battery Inter | \$2.50 | |
| ES4333 | Term Block Att Screw | \$1.80 | |
| ES4334 | Nut-Term Block | \$2.00 | |
| ES4335 | Insulator-Pos Rect | \$1.80 | |
| ES4336 | Capacitor | \$18.50 | |
| ES4337 | Pos. Rectifier | \$64.00 | |
| ES4338 | Neg. Rectifier | \$61.00 | |
| ES4339 | Screw-Neg Rectifier | \$1.80 | |
| ES4340 | Grease Slinger | \$10.00 | |
| OE-A2 | Alternator Aircraft Manual | \$1,575.00 | |



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GENERAL WARRANTY POLICY

10. Limited Warranty Policy

Hartzell Engine Technologies LLC (HET) warrants that all new, rebuilt or overhauled products (or minor revision derivatives thereof), sold by Hartzell Engine Technologies LLC, Montgomery, Alabama, shall be free from defects in material and workmanship under normal use and service for a period of:

| New & Rebuilt Aircraft Alternators | Overhauled Aircraft Alternators |
|------------------------------------|---------------------------------|
| 2 Years* or 1,000 Hours | 6 Months* |
| New Replacement Components | |
| 1 Year* | |

The warranty period begins (unless otherwise noted) from the date of installation into the aircraft if, and only if, the following conditions are met:

- A. The unit and warranty claim, with all requested information properly supplied has been returned to any authorized Hartzell Engine Technologies LLC, distributor. International Customers may utilize a HET Authorized Service Center or a HET Distributor. Units must be returned within 30 days of the product failure date.
- B. No substitute parts shall have been installed in the product without prior authorization of Hartzell Engine Technologies LLC, Montgomery, Alabama USA.
- C. The product shall not have been disassembled, repaired, or altered outside of HET approved facilities unless express prior authorization was granted in writing.
- D. The product shall not have been subject to misuse, accident, or improper installation unless proof is submitted to the satisfaction of Hartzell Engine Technologies LLC, that such abuse was not a cause for the claimed defect.
- E. The duration of this Limited Warranty shall be for the unused portion of the original warranty period. Any replacement unit or repair shall not establish a new warranty period.



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***NOTE** * Units will be activated automatically for a shelf stock warranty period and in all cases shall expire thirty-six (36) months from date of manufacture (see I.D. plate). Units held in distribution stock over thirty-six (36) months can be returned to the factory for complete testing, recertification, new warranty, and new packaging for a charge of 20 percent of list price.*

11. Limitations and Exclusions

- A. The sole responsibility and liability of Hartzell Engine Technologies LLC and your exclusive remedy under this claim arising out of, connected with, or resulting from, this sale or the performance or breach of any condition or warranty thereunder, or from the manufacture, delivery, or use of the product shall be the repair of, or replacement, or credit for this defective product at Hartzell Engine Technologies LLC's option.
- B. IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), OR OTHERWISE, SHALL HARTZELL ENGINE TECHNOLOGIES BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR PENAL DAMAGES OR EXPENSES, INCLUDING BUT NOT LIMITED TO, COSTS OF REMOVAL AND REPLACEMENT OF THE PRODUCT(S), LOSS OF PROFIT, GOODWILL, OR REVENUES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, DAMAGE TO ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE PRODUCTS, FACILITIES, OR SERVICES, DOWN TIME, OR COSTS OR CLAIMS OF THIRD PARTIES FOR SUCH DAMAGES OR EXPENSES.

12. Warranty Registration

- A. Warranty Registration is required on every new unit sold by Hartzell Engine Technologies LLC and sold through an authorized Hartzell Engine Technologies distributor.
- B. Warranty Registration must be completed by logging on to the internet via www.HartzellEngineTech.com and following the path to warranty registration. The installing agency must file the registration showing all information required therein. The warranty registration must be accomplished within 10 days of the date of installation or this warranty is void.
- C. An owner copy of the warranty registration may be printed out once registration is completed and should be kept with the aircraft's log book and/or paperwork file carried in the aircraft. When requesting warranty consideration, the Warranty Registration copy should be returned with the unit to an authorized Hartzell Engine Technologies distributor along with information pertaining to the removal and installation dates and suspected difficulty.



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13. Specific Terms

- A. The foregoing warranty is exclusive and in lieu of all other warranties or remedies whether written, oral, implied, or statutory. Any and all implied warranties of merchantability, fitness for a particular purpose, course of dealing or usage of trade are hereby expressly disclaimed and excluded. The Warranty Registration must be completed within 10 days from the date of installation of the equipment or this warranty is void.
- B. Acceptance of the product by you shall constitute your acknowledgment and acceptance of the terms, provisions, limitations, and exclusions set forth herein. Such terms, provisions, limitations, and exclusions shall not be modified, deleted, or supplemented except by an express written acknowledgment of Hartzell Engine Technologies.

14. General

- A. **Any claims under this warranty should be made through a Hartzell Engine Technologies LLC authorized distributor or service center.** Any claim made, which cannot be reasonably duplicated, will not be considered applicable to warranty and shall be returned "as is". All claims shall be handled according to standard warranty procedures; see your authorized distributor for details. A list of HET distributors may be obtained from Hartzell Engine Technologies LLC via Internet at www.HartzellEngineTech.com or by Tel: (334) 386-5400.
- B. All products returned by a distributor for warranty consideration are to be shipped to Hartzell Engine Technologies LLC, 2900 Selma Highway, Montgomery, Alabama 36108 (USA) freight prepaid. If the warranty claim is accepted, the replacement parts, if shipped individually, will be shipped surface freight, prepaid.



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CORE RETURN & RETURN GOODS POLICY

15. Core Return Policy

Any unit being returned for core or warranty core credit shall be, as removed from the engine, complete and not disassembled. No core or warranty core credit will be allowed for automotive units. Units that are rusty or cannot be overhauled for any reason will be classified as scrap, having no value. Units which have been weld repaired, as well as units which have been disassembled and then reassembled with old parts, will also be classified as scrap, having no value. A percentage of the core value will be charged for all missing or damaged parts. At no time will the damaged or missing parts charge on any unit exceed the core value of that unit.

- Cores will only be accepted for credit 12 months from date of invoice.
- Cores returned in excess of cores invoiced will become the property of Hartzell Engine Technologies LLC and will only be credited for up to 10% of core value.
- Cores must be of like purchase or a direct superseded unit.

| Description | Percentage of Core Charge |
|--|---------------------------|
| ALTERNATORS » | |
| Fan Worn-Out/Bent - Prestolite | 5% |
| Pulley Worn-Out/Bent - Prestolite | 15% |
| Comm or Drive End Damaged | 15% |
| Pulley/Fan Worn-Out/Bent-Ford/Chrysler | 20% |
| Dust Cover or Brush Holder Damaged Rotor | 20% |
| Shaft Bent or Threads Damaged | 20% |
| Automotive Rotor | 20% |
| End Frames - Elongated Bolt Holes | 20% |
| Rotor Frozen or Binding | 35% |



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CORE RETURN ADDRESS:

Hartzell Engine Technologies LLC
4570 Newcomb Avenue
Montgomery, AL 36108 USA

Please feel free to contact us if you have any questions or concerns regarding your returned goods;
(877) 359-5355 Toll free » (334) 386-5400 Phone » (334) 386-5410 Fax

16. Return Goods Policy

Hartzell Engine Technologies will accept returned goods with the following conditions:

- A. The part must have been originally purchased from Hartzell Engine Technologies LLC and must be a current production part.
- B. Parts may be returned within 90 days after invoice without restocking charge as long as the product is in its original packaging.
- C. Parts returned after 90 days are subject to a minimum of 20% restocking charge. No merchandise may be returned after one year.
- D. All returns must include: Date of purchase, Hartzell Engine Technologies LLC invoice number, and the reason for return.