



# BC400

# QUICK

# FACTS

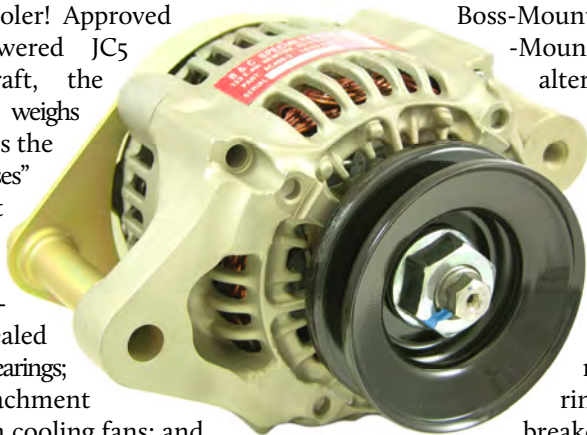
## STC'D ALTERNATOR FOR VINTAGE PIPER AIRCRAFT

Now you can replace your heavy, worn out generator or unreliable alternator with a dependable lightweight Alternator system — with NO expensive requirement to relocate your oil cooler! Approved for Lycoming-powered JC5 thru PA22 aircraft, the BC400-2 Alternator weighs 6.1 lbs., and features the same “no-compromises” construction that has been our hallmark since 1980 — a precision-balanced rotor; sealed heavy-duty ball-bearings; three solid attachment points; two built-in cooling fans; and provision for aircraft-style, external regulation.

The BC201-1 Controller (Regulator) features solid-state construction, with “quiet” linear voltage regulation; integral

over-voltage protection; low-voltage sensing and warning; and field-adjustable charging voltage.

The BC400 installation kits include either Boss-Mount (Wide Deck) or Case-Mount (Narrow Deck) alternator brackets, attachment hardware, belt tension arm, high-performance belt, field connector assembly, and panel-mount warning light. An “electrical package” option supplies necessary wire and ring terminals, circuit breakers, and a Mil-Spec “OFF-ON” toggle switch (useful for early aircraft requiring an “upgrade” of existing electrical components). *Note: this approved installation is applicable to aircraft with previously-existing electrical systems only.*



### FEATURES

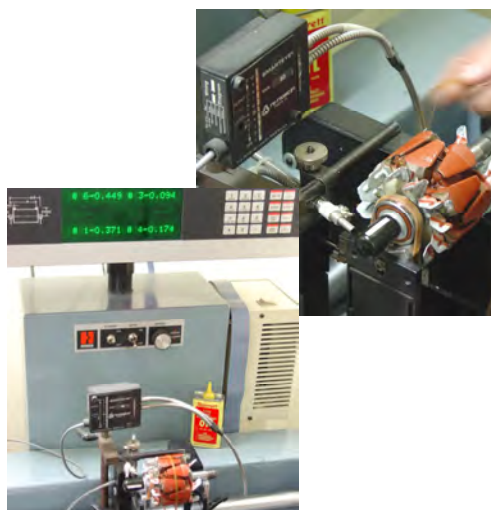
- Dynamically Balanced Rotor for Long Service Life
- Two Internal Cooling Fans
- Heavy Duty Sealed Ball Bearings
- Three Attachment Points, with a “Thru-Bolt”-type Pivot Arm
- Bracket Systems for Wide Deck (Boss) or Narrow Deck (Case) engines
- Linear (“Quiet”) External Regulation
- Over-Voltage Protection
- Field-Adjustable Charging Voltage
- Weight: 6.1 lbs.

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## METICULOUS PREPARATION

Few alternators available for light aircraft today are manufactured with the same attention to quality that every BC400 receives. Here's just a few of the hidden, “extra” steps that go into every alternator:

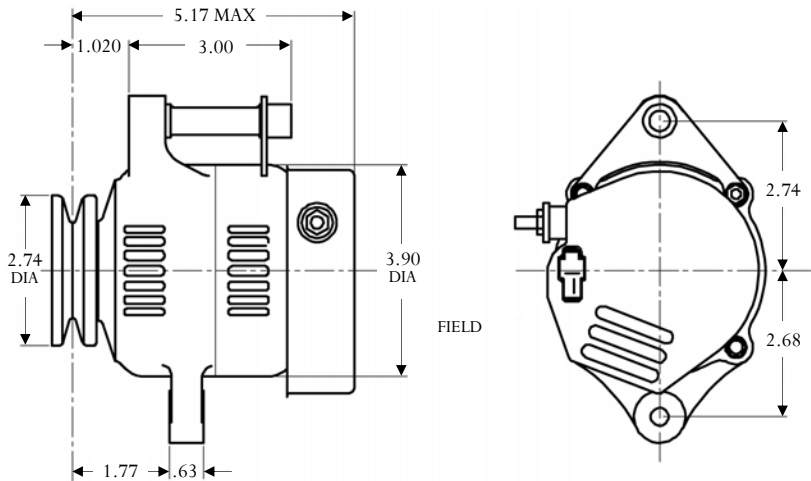
- Precision dynamic balancing of each alternator rotor (to promote good bearing and bracket life);
- Preparation for use with an advanced, external voltage regulator (and solid-state over-voltage protection);
- Provision of a solid “Thru-Bolt” pivot point (to insure stable support); and
- Plated for Corrosion Protection



### PRICING

|                                                                                               |       |
|-----------------------------------------------------------------------------------------------|-------|
| BC400-2 and BC201-1 (STC/PMA), includes Installation Kit for Aircraft with No/Rear Oil Cooler | \$735 |
| BC400-2 and BC201-1 (STC/PMA), includes Installation Kit for Aircraft with Front Oil Cooler   | \$925 |
| BC400 Electrical Package (optional)                                                           | \$275 |

BC400-2 DIMENSIONS



| PERFORMANCE DATA |                         |
|------------------|-------------------------|
| RPM              | OUTPUT AMPS, 14v (COLD) |
| 3000             | 30                      |
| 3500             | 35                      |
| 4000             | 39                      |
| 4500             | 42                      |
| 5000             | 44                      |
| 5500             | 46                      |
| 6000             | 48                      |
| 7000             | 49                      |
| 8000             | 50                      |
| 9000             | 50                      |
| 10000            | 50                      |

THE BC201-I LINEAR CONTROLLER

It may look plain, but in our biased opinion, the BC201-I Linear Controller is actually a remarkable little device.

More than a few of the regulators used in aviation have but one function — “regulating” alternator operation. Period. And sometimes they don’t even do that very well. Bus voltages can “drift” from the desired set-point without apparent explanation; and electrical noise (coming from old-fashioned, “switching” regulators) can find its way into intercom



or radio systems all too frequently. This is where the BC201-I really shines. Rather than a single function, it has three functions: linear voltage regulation, over-voltage protection, AND low-voltage

sensing, with a panel-mounted warning light. Moreover, it performs each of these tasks in a stable, “quiet” fashion (electrically-speaking). No more drifting bus voltages, and no more noise in your radios. Plus you can adjust the charging voltage of the BC201-I in the field to meet the manufacturer’s specifications for your battery (whether “flooded,” SLA/ VRSLA, or LiFePO) — a forward-thinking feature that’s not even available on many lesser regulators.

APPROVED MODELS LIST

| AIRPLANE MAKE | AIRPLANE MODEL                                                                                                                                                                                                                                                                        | SPEC. NO. | AIRPLANE MAKE | AIRPLANE MODEL                                                                        | SPEC. NO. |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|---------------------------------------------------------------------------------------|-----------|
| Piper         | J5C, AE-I, HE-1                                                                                                                                                                                                                                                                       | A-725     | Piper         | PA-18A (Restricted), PA-18A “135” (Restricted), PA-18A “150” (Restricted)             | AR-7      |
| Piper         | PA-11, PA-11S                                                                                                                                                                                                                                                                         | A-691     | Piper         | PA-20, PA-20S, PA-20 “115”, PA-20S “115”, PA-20 “135”, PA-20S “135”                   | 1A4       |
| Piper         | PA-12, PA-12S                                                                                                                                                                                                                                                                         | A-780     | Piper         | PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22-160, PA-22S-160 | 1A6       |
| Piper         | PA-14                                                                                                                                                                                                                                                                                 | A-797     |               |                                                                                       |           |
| Piper         | PA-16, PA-16S                                                                                                                                                                                                                                                                         | 1A1       |               |                                                                                       |           |
| Piper         | PA-18, PA-18S, PA-18 “105” (Special), PA-18S “105” (Special), PA-18A, PA-18 “125” (Army L-21A), PA-18S “125”, PA-18AS “125”, PA-18A “135” (Army L-21B), PA-18A “135”, PA-18S “135”, PA-18AS “135”, PA-18 “150”, PA-18A “150”, PA-18S “150”, PA-18AS “150”, PA-19 (Army L-18C), PA-19S | 1A2       |               |                                                                                       |           |