

BC433-H

30 Amp Gear-Drive Alternator for Continental Engines (C-75 thru O-300)



The BC433-H replaces older gear-driven generators for Continental engines with more up-to-date alternator technology, while also offering greater reliability and increased output. Weighing only 4.4 lbs., and measuring 4" in diameter and 3.7" in installed length, the BC433-H combines innovative design and quality construction—

- billet aluminum mounting flange
- built-in cooling fins
- three-phase design
- 30 amps of power @ cruise RPM

Ships with a matching three-phase, 14v regulator. NOTE: the BC433-H must be purchased with PM/OV Kit 505-1, which provides crucial over-voltage protection for aircraft electrical systems.

The BC433-H is sold less the Continental drive gear assembly (which is customer supplied), and requires the latest revision of the Hub (P/N 653983) and Retainer (P/N 653982). B&C has a limited supply of used drive gear assemblies, available at additional cost—please call for price and availability.

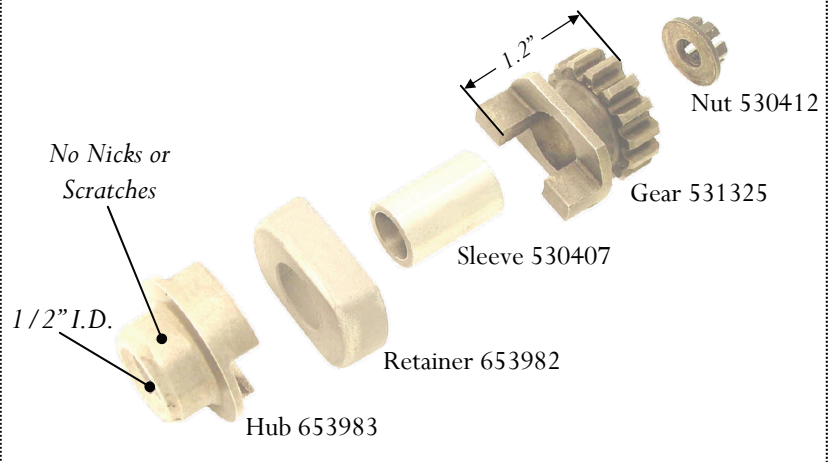
*This part is not STC'd or PMA'd
and is sold for amateur-built aircraft only.*

PRICING

BC433-H ALTERNATOR, 30 AMPS (HOMEBUILT, LESS GEAR)	\$530
505-1 PM/OV KIT, 14V	\$65
653983 HUB	\$175
653982 RETAINER	\$20

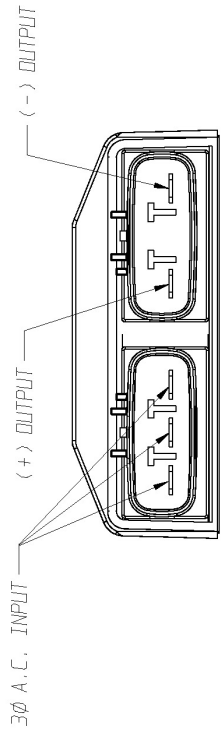
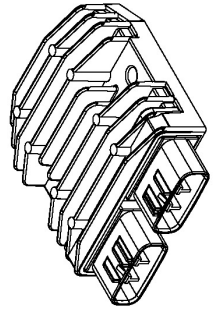
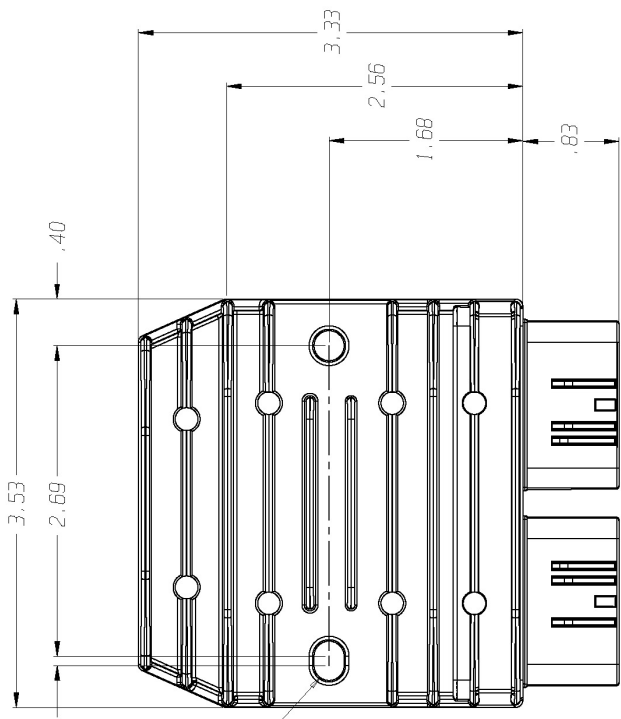
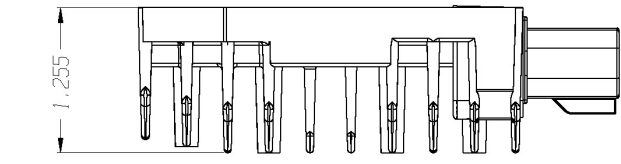
All Prices subject to change without notice.

Typical Continental Drive Gear Components



B&C Specialty Products • 123 E. 4th Street • P.O. Box B • Newton, KS 67114
Voice: 316-283-8000 • Fax: 316-283-7400 • Web: www.BandC.biz

SYMBOL	REVISION	DRAWN	APPROVED



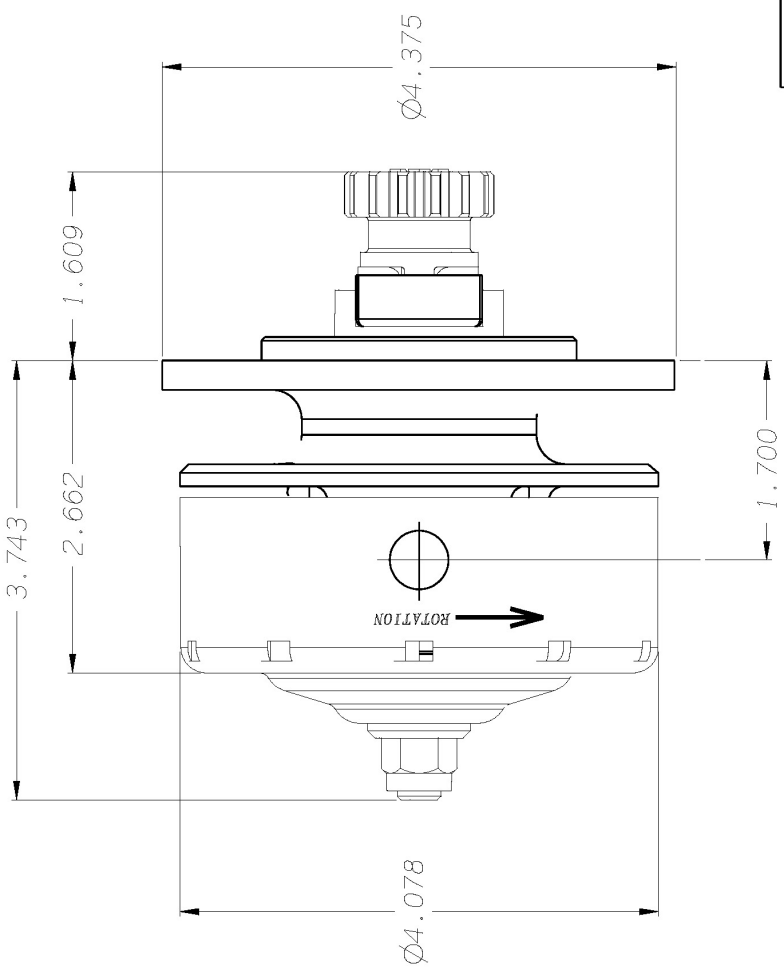
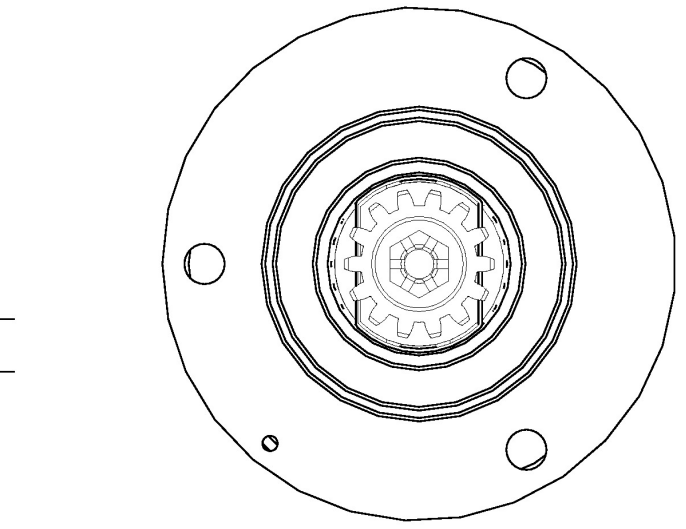
NOTES:

1. REGULATOR WEIGHT: 0.73 LBS.
2. MAXIMUM THROUGHPUT: 35 AMPS
3. OVER TEMPERATURE PROTECTED. MAXIMUM HEATSINK TEMPERATURE: 221°F
4. RECOMMENDED COOLING AIR FLOW: 7 FT/SEC.
5. FURNISHED WITH MATING CONNECTORS AND CRIMP-TYPE TERMINALS

ITEM	QTY	DESCRIPTION	DATE

B & C Specialty Products P.O. Box B, Newton, Kansas 67114	
TITLE REGULATOR, 3 PHASE PERMANENT MAGNET PMR3A	
DRAWN BY TH	DATE 10/26/07
CHECKED PRELST	DATE 10/26/07
SCALE FULL	JOB NO. BC220SS
PAGE 1P	OF 1P

SYMBOL	REVISION	DATE	APPROV
A	CORRECTED NOTE 4 DRAWING NUMBER	TH	7/19/06



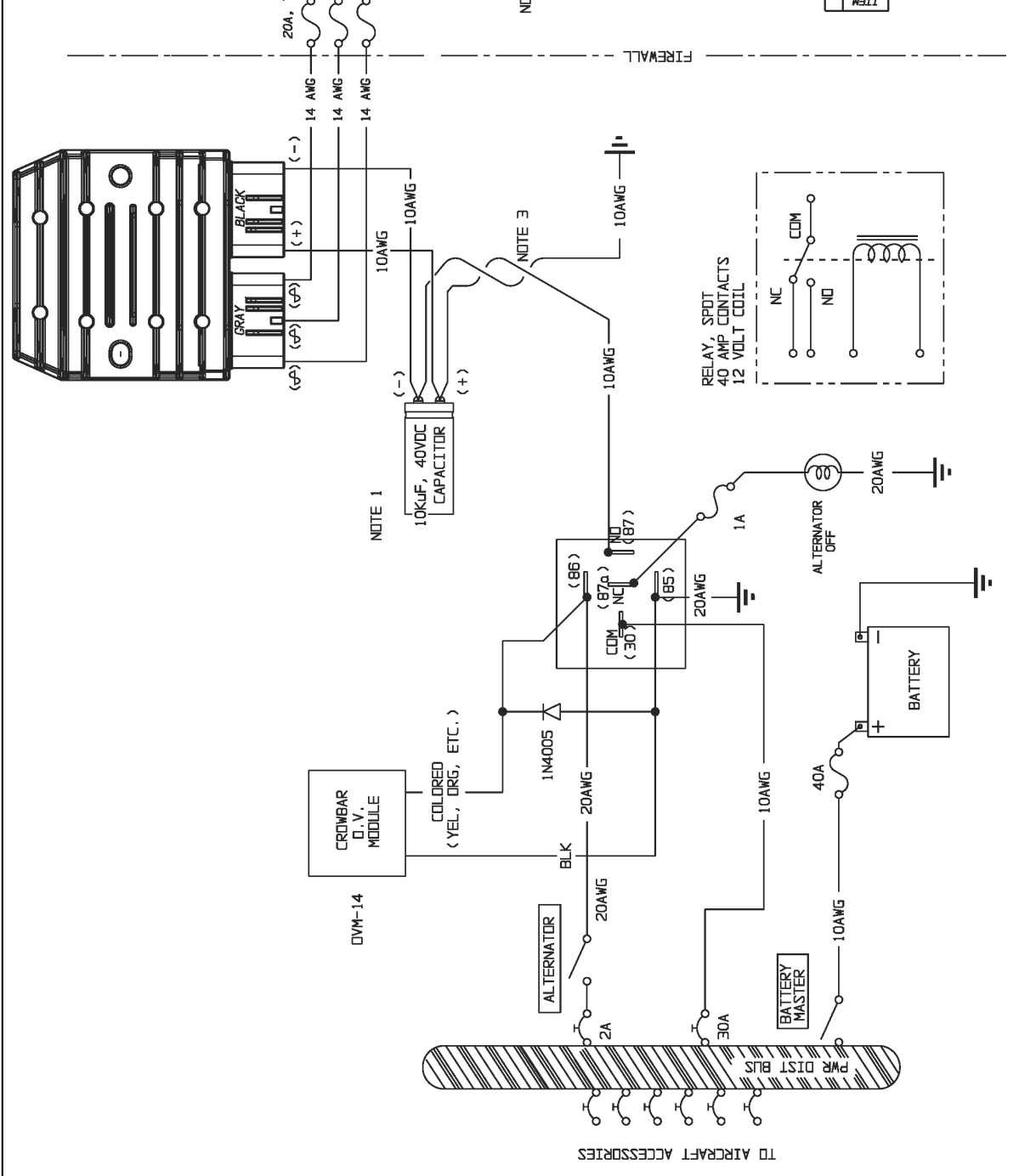
ALTERNATOR RPM	OUTPUT AMPS
2250	2.0
2500	6.8
2750	11.8
3000	14.9
3250	18.0
3500	20.4
4000	23.8
4500	26.5
5000	29.1
5500	29.4
6000	30.4
6500	31.1

- NOTES:
1. ALTERNATOR WEIGHT (WITH GEAR ASSEMBLY): 4.4 LBS WITH REGULATOR ; 5.0 LBS
 2. CONTINENTAL DRIVE GEAR ASSEMBLY NOT INCLUDED
 3. SEE DRAWING "200G GEAR DRIVE ASSEMBLY" FOR PROPER INSTALLATION OF CONTINENTAL GEAR DRIVE
 4. SEE DRAWING 505-500 FOR CORRECT WIRING

THIS PART IS NOT STC'd OR PMA'd AND IS SOLD FOR AMATEUR BUILT AIRCRAFT ONLY

B & C Speciality Products P.O. Box B, Newton, Kansas 67114	
TITLE: BC433 ALTERNATOR OUTLINE	
DRAWN: TH CHECKED: TH PROJECT:	DATE: 6-26-03 DATE: 6-26-03
SCALE: FULL	JOB NO.: BC433 REVISION: A DATE: 7/19/06 PAGE: 01

SYMBOL	REVISION	DRAWN	APPROV
A	ADDED 1 AMP FUSE	TH	4/03
B	ADDED REGULATOR GRN WIRE	TH	2/04
C	ADDED 15 AMP FUSES	TH	9/04
D	CAPACITOR REDRAWN	TH	10/04
E	ADDED 3 PHASE FUSE RATING TO DNG FACE	TH	2/05
F	14 AWG WAS 16 AWG; 20 AMP FUSES WERE 15 AMP	TH	3/05
G	REVISED FOR PHR3A REGULATOR	TH	1/7/08
H	NOTE 3 WAS NOTE 2	TH	1/9/08
J	ADDED NOTE 5 AND CONNECTOR COLORS	TH	2/5/08



- NOTES:
- REGULATOR AND CAPACITOR SHOULD BE MOUNTED IN CLOSE PROXIMITY TO ONE ANOTHER. RECOMMENDED LEAD LENGTH 6 IN., MAXIMUM.
 - MAXIMUM HEATSINK TEMPERATURE 221°F. RECOMMENDED COOLING AIR FLOW 7 FT./SEC.
 - TWIST ALTERNATOR POWER LEADS APPROX 4 TURNS PER FOOT BETWEEN VOLTAGE REGULATOR AND GROUND CONNECTION.
 - ALTERNATOR WARNING LAMP IS ILLUMINATED WHEN ALTERNATOR SWITCH IS OFF OR WHEN DV MODULE HAS TRIPPED
 - USE B8C RCT-4 CRIMP TOOL FOR CONNECTOR TERMINALS. SOLDER WIRE END CRIMP.

ITEM	USED ON	QTY	DATE	BY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS = ±0.005
DECIMALS = ±0.005
ANGLES = ±0.5 DEGREES

ENGINEER	TH	DATE	12/24/02
DRAWN	TH <td>DATE</td> <td>12/24/02</td>	DATE	12/24/02
CHECKED			
PROJECT			

B & C Speciality Products
P.O. Box B, Newton, Kansas 67114

POWER DISTRIBUTION DIAGRAM
3 PHASE P.M. ALTERNATOR

SCALE: FULL
JOB NO. 505-500
REVISION: J
DATE: 2/5/08
PAGE 1 OF 1