FBDS



TBIDS

"We deliver Horsepower!

GENERAL WARRANTY

Blower Drive Service Co. (BDS) strives to supply our customers with the highest quality parts and service available in the supercharger industry. BDS warrants and will repair or replace, at our option and after inspection in our facility, each new manufactured product, to the Original Purchaser (proof required), to be free from defects in material and/or workmanship for a period of 90 days from the invoice date of the product(s) purchased. "Original Purchaser" is defined as the person(s) or company name appearing in the "Bill To" section of the original BDS invoice.

The return of any item to BDS for warranty purposes must include the following:

- Return Authorization Number, provided by the BDS Customer Service Department.
- Letter of Explanation of the problem.
- Copy of the Original Invoice.
- 4. Product(s) must be returned Freight Prepaid. In the event that the product(s) is/are found to be defective, BDS will credit the surface transportation freight charges, within the continental United States, for the return of the warrantied product(s) by the customer. Credit will not be extended without a copy of the prepaid freight bill. Warranted parts will be returned by ground U.P.S. only. Upgrading to air services will be the responsibility of the purchaser and must be prepaid.

This warranty is for a specific time period only and does not apply to actual operational time or distance. It does not cover products which fail due to alteration, disassembly, accident, racing, misuse, neglect, improper installation, abuse, or when used in applications for which they were not designed or approved. BDS makes no representation as to the suitability of any product purchased for uses implied by the customer. Removal, installation, transportation, labor, loss of time, inconvenience, destruction of other components, and personal damages are not covered. Blower Drive Service Co. shall not be liable for all and/or any consequential damages occasioned by the breach of any written or implied warranty pertaining to this sale in excess of the purchase price of the product sold.

24 MONTH LIMITED WARRANTY

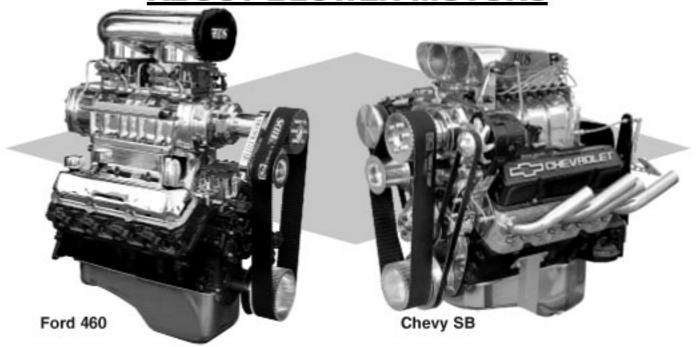
BDS warrants and will repair or replace, at our option and after inspection in our facility, each new manufactured product, that is part of a COMPLETE SUPERCHARGING KIT, to the original purchaser (as defined above), to be free from defects in material and/or workmanship for a period of 24 MONTHS from the invoice date of the kit purchased. A "COMPLETE SUPERCHARGING KIT" is defined as follows:

Carburetor Adapter Plate, Stage 1 Supercharger, Intake Manifold, and Drive Assembly.

Products not purchased as a COMPLETE SUPERCHARGER KIT are not covered by the 24 month limited warranty. All other warranty conditions apply as stated above.



20 MOST ASKED QUESTIONS ABOUT BLOWER MOTORS



1) Q: What cam works best with a supercharger?

A: A camshaft profile that has been designed to work with a supercharger system will provide more horsepower and torque. If you have a street application, BDS recommends a hydraulic or flat tappet profile cam shaft.

2) Q: What carbs do I need to run on my blown system?

A: The size of carb(s) or CFM required for a given application can be calculated by the following formula: {(CID x RPM) ÷ 3456} x {(Boost ÷ 14.7) + 1} = CFM required. The amount of CFM required will determine carburetor size and quantity. If you try to use a carb with less CFM than required, performance and economy may be greatly reduced. If you try to use a carb with less CFM than required, performance and economy may be greatly reduced. Bigger is not always better when selecting carbs that are 30% over what is required, you may encounter problems in fuel distribution.

3) Q: When do I start making boost?

A: The amount of boost and the RPM at which boost starts is controlled by the throttle, blower size and drive ratio, engine size, camshaft profile, and exhaust system. All of these factors determine the breathing capability of the blown engine. Boost should only be measured at wide open throttle when you reach 6,000 R.P.M. The BDS boost charts are great tools, all the boost levels in these charts are based at 6000 R.P.M. If there is only part throttle, the blower cannot get enough air to overcome the demands of the engine. Only when the blower can get enough air will there be boost.

4) Q: Why are my exhaust pipes red hot?

A: Exhaust pipes get red hot for two basic reasons. Either the ignition timing is incorrect or the engine is overly rich. There are other causes but these are the two most common. Ignition timing is extremely critical. Blown motors love advance. Without enough initial timing advance, blown motors will run hot and the exhaust pipes will glow in the dark. Blown motors should run as little as 16 degrees or as much as 26 degrees initial advance with the total advance of about 32-36 degrees at 2800 R.P.M. to 3000 R.P.M. Specific timing requirements depend on compression, blower drive ratio, engine load, carnshaft, and fuel octane.

5) Q: Why do you recommend such low compression for supercharged applications?

A: Low compression enables two things to be accomplished. One, the lower compression lets us run higher blower boost producing more torque and horsepower and two, when the engine does not have boost from the blower, the engine runs coolly and effortlessly making the engine last a long time.

6) Q: Why does my engine run hot?

A: Supercharged motors can run very high operating temperatures caused by too high compression ratio, too high blower drive ratio, improper timing, poor water flow through manifold, or an inadequate and inefficient cooling system.

7) Q: Why does retarded timing attribute to overheating?

A: Ignition timing deals with the time at which ignition occurs during the compression stroke. Retarded timing ignites the air/fuel mixture closer to maximum compression than advanced timing. Higher cylinder pressure at the point of ignition means greater temperatures during combustion, which translates into hotter running temperatures.

20 MOST ASKED QUESTIONS (CONTINUED)

8) Q: Which is stronger, 1/2 pitch or 8mm drives?

A: The 8mm, round tooth profile is capable of transferring as much as 40% more power than the 1/2" pitch, square tooth profile. As a general rule 1/2" pitch is good up to 12-15% overdrive on most blower applications. Large blowers and high drive ratios should use the 8mm or 14mm, round tooth design.

9) Q: How much space does a blower drive take in front of the engine?

A: The amount of space in front of the motor for the blower drive system depends on the width of the blower pulleys and the number of accessory vee groove pulleys needed for each application. An easy rule of thumb is to add the width of the blower pulleys to the front edge of the stock vee pulley furthest from the engine block.

10) Q: When I start my car it backfires, why?

A: There are many reasons why an engine will backfire but the most common problem with blown motors is
holding the throttle open while cranking the engine
over. It is better to give the throttle a few pumps (2),
and take your foot off the accelerator before turning the
engine over and count slowly to ten. When the engine
does fire and begin to run, quickly catch the throttle
and raise the engine idle at about 1500-2000 R.P.M.
until some heat can be built in the motor, about two
minutes. Trying to engage the engine before enough
heat is built usually results in an engine that spits, sputters, backfires, and/or dies.

11) Q: What type of oil do I put in my blower?

A: We recommend that 80-90 weight gear oil be used in the blower front cover. If you have a BDS blower, there is a sight gauge to help determine the level of the oil, and a pressure relief valve to use to fill the front cover, otherwise it will take approximately 16-20 ounces to fill the front cover to the right level. This oil will need to be changed every two or four years depending how many times a year you use your vehicle. If you do not add oil when it is needed, it will cause the gears to get hot and eventually fail.

12) Q: Should I use gapless rings?

A: Testing with gapless rings in a supercharged engine shows excellent increase in performance.

13) Q: Steel or aluminum rods, which are better?

A: Both style of rods are well suited for blown applications. Steel rods are generally used in motors that must produce a long service life. Aluminum rods are generally used for engines seeking high horsepower output and not long service lives.

14) Q: Can blower whine be eliminated or made louder?

A: Blower whine can be increased or decreased by tightening or loosening the blower belt tension. CAUTION! Improper belt tension can cause severe belt, blower, and engine damage. It is not recommended to adjust the belt to get the sound you want. Worn pulleys and belts as well as mis-machined pulleys can contribute to blower whine.

15) Q: What kind of headers should I use?

A: Most supercharger applications require larger than stock size to facilitate better exhaust flow. Steel, or stainless steel headers may be used. Engines with 400 CID or less should have exhaust tubes at least 1 3/4" to 1 7/8" diameter and larger engines should use 2" and bigger. Forcing more air in with the blower requires more exhaust to be passed through the exhaust system.

16) Q: My engine builder is determined not to use a crank hub on my blown motor, only a harmonic balancer, What do you say?

A: We do not recommend any type of cast iron balancer because they break easily. Any hi-quality heat treated after market steel harmonic balancer with two key ways (one 3/16" and the second a 1/4" key way located 180 degrees apart) will perform very well. Be sure to notify BDS at the time you order your blower kit if you will be using an after market harmonic balancer. BDS will accommodate this kit change when ordered initially. On any large cubic inch high horsepower system we recommend that you use our heat treated heavy duty 4130 chromally steel crank hubs.

17) Q: My car won't idle?

A: Idling problems with blown motors is usually a result of a severe vacuum leak, improper ignition timing, or improperly adjusted carbs or fuel injection.

18) Q: My plugs are black?

A: Black sooty spark plugs are the result of the motor burning too much fuel, usually at idle! This is caused by ignition timing being set incorrectly at idle. The carbs or fuel injection is not properly adjusted or set up for your engine, you'll need to correct your fuel delivery system.

19) Q: With the pump gasoline available today, 91-92 octane, can I run a blower on my engine?

A: With today's low octane pump gasoline, make sure to keep your final engine compression between 12:2 and 12:4 to 1(refer to the BDS Final Compression Ratio Chart). You may want to build an effective quench factor into your engine, because it will have a reduced requirement for octane. Quench is the distance between the top of the piston and the flat part of the combustion chamber. This design limits the detonation potential of your engine.

20) Q: What type of pistons and compression should I be running on my blower?

A: In the last decade as the octane rating of gasoline decreases and the demand for more horsepower increase, there is more of a possibility for detonation. The greater the octane the more resistance the gasoline is to detonation. Forged piston made for blown systems are highly recommended. Also using 8.5 to 9.1 compression ratio and less blower boost will keep the engine cooler. When you run a lower compression engine and raise the boost levels, this elevates the temperature of the air charge to your engine, requiring you to buy higher octane gasoline to suppress detonation.

BDS ENGINE RECOMMENDATIONS

The following information as compiled from over 38 years of supercharging experience on a wide variety of engines. The suggestions and recommendations below are for gasoline engines to be used on the street unless otherwise specified. The information is broad in nature and intended to be used as guidelines only.

Engine Blocks

BDS suggests that the engine block be in good condition and not overbored excessively. Two bolt mains are adequate for most mild applications with boost levels up to about 7 lbs. Four bolt mains are recommended and are considered a must for high performance systems. O-ringing is recommended for engines running 12 lbs. of boost or more. When rebuilding, the block should be thoroughly checked as you would in any high performance engine build up.

Crankshaft

Steel cranks are recommended whenever possible and are a requirement for high performance engines spinning high RPM's. Cast cranks are only recommended when the boost levels are below 7 lbs. and the engine is limited to 6000 RPM. When rebuilding, cranks should not be less than a 10/10 grind with both stock and 1/4" keys, and should have all the trick work as you would for any high performance engine.

Rods

Most factory rods will work well for mild blower systems up to 8-10 lbs. of boost. Factory and after market steel rods with heavy duty rod bolts are recommended and required for high performance applications. After market aluminum rods are recommended for high performance racing applications. The rods should be magnafluxed for cracks, shot peened, beams polished, balanced, and bushed to size for full floating pins.

Pistons

Factory cast pistons are not recommended but may be used in very low boost (3-5 lbs.) applications. Forged, low compression pistons (8:5 - 9:1) are the best choice for performance applications. Higher compression ratios are not recommended because of overheating and excessive final compression ratios (see the final Compression Ratio chart in this catalog). Pistons should use full floating pins and double spiro locks or buttons for high performance applications. For street applications, standard rings will perform well on pump gas, for high performance engines, we recommend stainless steel rings. In cases where alcohol is used, the compression ratio of the engine should be between 10-12:1.

Heads

Factory heads work well in most blower applications. The heads should be in good condition or have a three angle valve job. After market heads will provide increased performance. Stainless steel valves are recommended. Head modifications (porting, polishing, etc.) are not required unless high performance is the desired result. Resurfaced or shaved heads can cause problems with the blower and manifold. The secret to horsepower is cylinder head air flow. More air flow equals more "horsepower".

Cams

Choosing the proper camshaft would be the most important requirement for a blower motor. An improper cam will cause a variety of problems that can easily be avoided by following a few simple guidelines. Hydraulic cams are recommended if you intend to drive the vehicle frequently, require little or no maintenance, and the maximum engine RPM's are kept around 6500 or lower. Roller rocker arms are recommended. Flat tappet and roller cams are recommended for high performance applications especially where the engine will see high RPM's. Exact camshaft specifications vary depending on the performance level you wish to attain. BDS offers different types or stages of cam grinds specifically made for blower motors. Refer to the camshaft section in this catalog for BDS camshaft specifications and their intended uses.



BDS ENGINE RECOMMENDATIONS (CONTINUED)

If you wish to purchase your carm from one of the many fine carmshaft manufacturers, we suggest using our carmshaft specs as a guideline. Extremely high lift and long duration carms are recommended for high RPM, high performance racing only.

The lobe center of the cam will play an important role in determining the performance characteristics of an engine. Wide lobe centers (112 to 114 degrees etc.) will create higher cylinder pressure providing more horsepower with cooler burning fuel such as alcohol and methanol. We have found 110° lobe centers to produce the best overall power on gasoline.

Whatever cam you choose, make sure that it will operate and perform properly in the RPM range required for your application.

Carbs and Fuel Injection

The overall performance of the entire engine package will be determined by the fuel induction system. Carbs work very well in most applications as long as the carbs have been calibrated or blue printed by BDS or another reputable company. Refer to the carburetor section in this catalog for help in determining the correct carbs for your needs.

Mechanical fuel injection will provide greater performance and throttle response than carbs. However, these mechanical injection systems can be quite temperamental and are recommended for the experienced racing enthusiast only.

BDS Electronic Fuel Injection offers you the best of both worlds. Retaining all of the drive characteristics of a carburetor system with the performance and looks of mechanical fuel injection system. We deliver the 'Best of the Best', Performance-Looks-Economy with the driveability and ease of operation in a single package. For more information, please refer to the BDS Electronic Fuel Injection literature, also available on our web site.

Ignition

The ignition system and advance curve are very important to a blower motors longevity and performance. The general rule for ignition timing in a blower motor is as follows: Initial advance at idle should be set at 16-26 degrees with the total advance of approximately 32-36 degrees, all in by 2500-3000 RPM. It is very important to verify the advance curve. Locked out magnetos or distributors are recommended for racing applications only. Improper curves may cause a variety of problems including overheating. Spark plugs should be one or two heat ranges colder than the recommended stock factory plug (never use extended tip spark plugs). This is due to the higher cylinder pressure created by supercharging. Higher cylinder pressure means more heat. Ignition management systems that can vary the timing according to engine requirements are a good idea to help keep the engine from killing itself with detonation and to keep performing at its maximum.

Cooling Systems

The cooling system for a blower motor should be in good general operating condition. Inadequate air flow across the entire radiator at low speeds is one of the most common causes for overheating. Mechanical fans and shrouds are highly recommended. In a recent study of electric fans, especially anything from 18 to 20 amps with a 3000/4500 cfm capability, these fans seem to work efficiently on blower engines, but it may still require some experimenting with location to find the best operating position. A 180 degree thermostat is recommended. Water flow restrictors may also be used "however, you will have to experiment to find the size that works best with your system. Stock factory water pumps are recommended and required in most applications. After market "High Performance" water pumps work best in the mid to upper RPM ranges and therefore may not have adequate water flow at lower RPM's to keep a blower motor cool. Three core radiators or larger are recommended for most applications. Higher performance engines will require better cooling systems because of the additional heat generated by these types of engines.

Exhaust Systems

Exhaust systems are very important to the overall performance of the blower motor. The blower forces more air into the engine than it would normally take therefore the engine must be able to get rid of more air through the exhaust. Small restrictive exhausts will cause excessive back pressure, robbing the engine of power and causing additional heating problems as well as unusually high boost readings. Large free flowing exhaust and headers are recommended choices.



BDS ENGINE RECOMMENDATIONS (CONTINUED)

Fuel Requirements

The fuel requirements for a blower motor may vary greatly depending on the application and engine/blower specifications. Unleaded fuel is okay as long as the engine is setup for unleaded fuel. The "Final Compression Ratio" of the engine/blower combination is the determining factor in fuel octane requirements. Refer to the chart in this catalog to determine your final compression ratio (Pg. 14). As a general rule, the maximum final compression ratio should not exceed 12.4 to 1 for 92 octane fuel. Octane boosters and higher octane racing fuel will allow you to run a higher final compression ratio. Final compression ratios should not exceed approximately 24-26:1 for racing gas.

Marine Systems

BDS blower kits and components are directly applicable to most marine systems. There are minor differences between the requirements for marine and non-marine applications.

Small pleasure crafts on up to offshore racing engines will benefit from the increases in torque and horsepower supplied by a blower system.

I 那DS STREET BLOWER BOOST CHARTS!

The boost levels listed in our charts are based upon an average that was determined by 38 years of experience testing superchargers. These boost readings were measured at wide open throttle and with the engine under load at 6000 RPM using a large bore blower unless otherwise specified.

There are two different 671 blowers commonly used. They are the larger diameter blower and the small diameter blower. The large bore blower (case thickness 1/2"-) is approximately 11 percent larger in volume than the small bore. The small bore blower (case thickness 3/4"+) is recommended for 370 CID engines or less for street applications. The large bore blower is recommended for 371-500 CID engines in high performance, racing applications.

The actual boost readings from your system may vary greatly from the figures shown here. Aside from the possible difference in blower diameters, there are numerous things that will determine maximum boost levels.

Six most basic items that affect boost are listed below:

- Cubic inches of the engine more cubic inches means less boost.
- Cam Shaft specifications lift, duration, and lobe center play a big part in boost levels.
- Size of the exhaust system a small, restrictive exhaust can cause high boost readings.
- CFM available to the blower carbs that are too small will keep the blower from making maximum boost.
- Blower size and drive ratio larger blowers and higher drive ratios can create more boost.
- Blower efficiency blower efficiency is determined by the materials used and the methods of assembly.

For more specific information on blower efficiency, see the "Blowers" section of this catalog.



THESE CHARTS ARE FOR "BDS" STAGE 1 & 2 BLOWERS ONLY

All BDS Blower Boost Charts shown are generic in nature. Variations in motor components used, will affect the actual boost achieved!

471 BLOWER

| Cubic Inches | -20% | -15% | -10% | -5% | 1:1 | +5% | +10% | +15% | +20% | +25% | +30% | +35% | +40% |
|-----------------|------|------|---------|-------|---------|-------|-------|-------|-------|------|------|------|------|
| 231 | | | 11.5lbs | 13lbs | 14.5lbs | 15lbs | 16lbs | 17lbs | 18lbs | | | | |
| 262 | | | 9.5lbs | 11lbs | 12.5lbs | 13lbs | 14lbs | 15lbs | 16lbs | | | | |
| 289 | | | 5lbs | 7lbs | 8lbs | 9lbs | 10lbs | 11lbs | 13lbs | | | | |
| 350 | | | 3lbs | 4lbs | 6lbs | 7lbs | 8lbs | 9lbs | 11lbs | | | | |
| 400 | | | 1lbs | 2lbs | 4lbs | 5lbs | 6lbs | 7lbs | 9lbs | | | | |

671 BLOWER (SMALL BORE)

| Dubic Inches | -20% | -15% | -10% | -5% | 1:1 | +5% | +10% | +15% | +20% | +25% | +30% | +35% | +40% |
|-----------------|------|------|------|------|--------|-------|-------|--------|-------|-------|-------|------|------|
| 289 | 3lbs | 5lbs | 7lbs | 9lbs | 11lbs | 13lbs | 15lbs | 17lbs | | | | | |
| 327 | 1lbs | 3lbs | 5lbs | 7lbs | 8.5lbs | 10lbs | 12lbs | 14lbs | 15lbs | 17lbs | | | |
| 350 | | 1lbs | 3lbs | 5lbs | 7lbs | 9lbs | 11lbs | 12lbs | 14lbs | 15lbs | 17lbs | | |
| 400 | | | 1lbs | 3lbs | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | | |
| 427 | | | | 2lbs | 3lbs | 5lbs | 7lbs | 8.5lbs | 10lbs | 11lbs | 13lbs | | |
| 454 | | | | | 2lbs | 4lbs | 5lbs | 7lbs | 8lbs | 9lbs | 10lbs | | |
| 500 | | | | | | 2lbs | 4lbs | 6lbs | 7lbs | 8lbs | 9lbs | | |

671 BLOWER (LARGE BORE)

| Cubic Inches | -20% | -15% | -10% | -5% | 1:1 | +5% | +10% | +15% | +20% | +25% | +30% | +35% | +40% |
|-----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 289 | 9lbs | 11lbs | 15lbs | 17lbs | 21lbs | 23lbs | 25lbs | 27lbs | | | | | |
| 327 | 7lbs | 9lbs | 11lbs | 13lbs | 15lbs | 16lbs | 18lbs | 21lbs | 24lbs | | | | |
| 350 | 5lbs | 7lbs | 9lbs | 11lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | | | |
| 400 | 3lbs | 5lbs | 7lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 19lbs | 22lbs | 24lbs | | |
| 427 | 2lbs | 4lbs | 6lbs | 7lbs | 9lbs | 11lbs | 13lbs | 15lbs | 17lbs | 19lbs | 21lbs | 24lbs | |
| 454 | 1lbs | 2lbs | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 24lbs |
| 500 | | | 1lbs | 2lbs | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 18lbs | 20lbs | 22lbs |
| 550 | | | | | | 2lbs | 4lbs | 6lbs | 8lbs | 10lbs | 14lbs | 16lbs | 18lbs |

871 BLOWER

| Cubic Inches | -20% | -15% | -10% | -5% | 1:1 | +5% | +10% | +15% | +20% | +25% | +30% | +35% | +40% |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 289 | 11lbs | 13lbs | 15lbs | 17lbs | 19lbs | 21lbs | 24lbs | 26lbs | | | | | |
| 327 | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 25lbs | | | | |
| 350 | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 23lbs | 26lbs | 29lbs | | |
| 400 | 5lbs | 7lbs | 9lbs | 11lbs | 13lbs | 15lbs | 17lbs | 19lbs | 21lbs | 23lbs | 25lbs | 27lbs | 29lbs |
| 427 | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 24lbs | 26lbs | 28lbs |
| 454 | 2lbs | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 24lbs | 26lbs |
| 500 | | 2lbs | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 24lbs |
| 550 | | | 2lbs | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs |



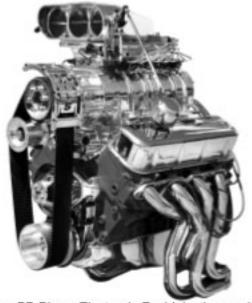
THESE CHARTS ARE FOR "BDS" STAGE 2 BLOWERS ONLY 871 BLOWER

| Cubic Inches | -20% | -15% | -10% | -5% | 1:1 | +5% | +10% | +15% | +20% | +25% | +30% | +35% | +40% |
|-----------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 289 | 13lbs | 15lbs | 17lbs | 19lbs | 21lbs | 23lbs | 26lbs | 28lbs | | | | | |
| 327 | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 24lbs | 27lbs | | | | |
| 350 | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 25lbs | 28lbs | 31lbs | | |
| 400 | 7lbs | 9lbs | 11lbs | 13lbs | 15lbs | 17lbs | 19lbs | 21lbs | 23lbs | 25lbs | 27lbs | 29lbs | 31lbs |
| 427 | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 24lbs | 26lbs | 28lbs | 30lbs |
| 454 | 4lbs | 6lbs | Blbs | 10lbs | 12lbs | 14lbs | 16lbs | 186lbs | 20lbs | 22lbs | 24lbs | 26lbs | 28lbs |
| 500 | | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 24lbs | 26lbs |
| 550 | | | 4lbs | 6lbs | 8lbs | 10lbs | 12lbs | 14lbs | 16lbs | 18lbs | 20lbs | 22lbs | 24lbs |

PHOTO GALLERY PIT STOP



Blower Drive Service is at its best when it is meeting the challanges of manufacturing a new blower kit. Early testing on our Chevy small block blown (stock 4.8) LS1 engine produced 488 horsepower on the Dyno.



Chevy BB Blown Electronic Fuel Injection engine (Shown in 2007 Dell commercial)



Chevy V6, 471 with 1/2' pitch drive, 4 barrel throttle body.



871 Blower Kit for the 500 Cadillac engine

BDSBLOWER DRIVE RATIO CHARTS

The drive ratio charts listed below show upper and lower pulley combinations and drive ratios for 1/2 pitch, 8mm, 13.9mm, and 14mm blower drive pulleys. These charts also provide information for help in determining the correct belt size to use with pulley combination for the desired drive ratios.

There are two numbers in the box at the intersection of the two pulleys chosen. The larger number represents the actual drive ratio of the pulley combination either in positive (overdrive) or negative (underdrive) figures. The smaller number represents the total tooth count of the number of teeth on each pulley added together. This total tooth count is to be used with the engine belt size chart to determine the proper belt length for your specific engine and blower pulley combination.

DRIVE CHARTS FOR 1/2" PITCH PULLEYS

UPPER PULLEY

| | | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 89 | 70 | 71 |
| | 30 | 1 | -3.2 | -6.2 | -9.1 | -11.7 | -14.2 | -18.9 | -20.0 | -21.0 | -23.1 | -25.0 | -26.8 |
| | | 61 | 62 | 63 | 64 | 65 | - 68 | 67 | 68 | 89 | 70 | 71 | 72 |
| | 31 | +3.3 | 1 | -3.1 | -6.0 | -8.8 | -11.4 | -13.8 | -16.2 | -18.2 | -20.5 | -22.5 | -24.4 |
| | | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 |
| | 32 | +6.6 | +3.2 | 1 | -3.0 | -5.9 | -8.6 | -11.1 | -13.5 | -15.8 | -17.9 | -20.0 | -21.9 |
| | | 63 | 64 | 65 | - 66 | 67 | 68 | 89 | 70 | 71 | 72 | 73 | 74 |
| | 33 | +10.0 | +6.4 | +3.1 | 1 | -2.9 | -5.7 | -8.3 | -10.8 | -13.1 | -15.4 | -17.5 | -19.5 |
| | | 64 | 65 | 66 | 67 | 68 | 89 | 70 | 71 | 72 | 73 | 74 | 75 |
| > | 34 | +13.3 | +9.6 | +6.3 | +3.0 | 1 | -2.8 | -5.5 | -8.1 | -10.5 | -12.8 | -15.0 | -17.0 |
| ۳ | | 65 | - 68 | 67 | 68 | 89 | 70 | 71 | 72 | 73 | 74 | 75 | 78 |
| PULLEY | 35 | +16.6 | +12.9 | +9.4 | +6.1 | +2.9 | 1 | -2.8 | -5.4 | -7.9 | -10.2 | -12.5 | -14.6 |
| _ | | - 68 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 78 | 77 |
| LOWER | 36 | +20.0 | +16.1 | +12.5 | +9.1 | +5.9 | +2.8 | 1 | -2.7 | -5.2 | -7.7 | -10.0 | -12.2 |
| 2 | | 67 | 68 | 89 | 70 | 71 | 72 | 73 | 74 | 75 | 78 | 77 | 78 |
| | 37 | +23.3 | +19.3 | +15.6 | +12.1 | +8.8 | +5.7 | +2.8 | 1 | -2.6 | -5.1 | -7.5 | -9.7 |
| | 000 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 78 | 77 | 78 | 79 |
| | 38 | +26.6 | +22.6 | +18.7 | +15.2 | +11.7 | +8.5 | +5.6 | +2.7 | 1 | -2.5 | -5.0 | -7.3 |
| | | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| | 39 | +30.0 | +25.8 | +21.9 | +18.2 | +14.7 | +11.4 | +8.3 | +5.4 | +2.6 | 1 | -2.5 | -4.9 |
| | 1.53 | 70 | 71 | 72 | 73 | 74 | 75 | 78 | 77 | 78 | 79 | 80 | 81 |
| | 40 | +33.3 | +29.0 | +25.0 | +21.2 | +17.6 | +14.2 | +11.1 | +8.1 | +5.3 | +2.6 | 1 | -2.4 |
| | | 71 | 72 | 73 | 74 | 75 | 78 | 77 | 78 | 79 | 80 | 81 | 82 |
| | 41 | +36.6 | +32.2 | +28.1 | +24.2 | +20.6 | +17.1 | +13.9 | +10.8 | +7.9 | +5.1 | +2.5 | 1 |



UPPER PULLEY

18 MM DRIVE RATIO CHART

LOWER PULLEY

| | LOWER PULLEY | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------------|------------|----------------|----------|----------|-----------|----------|-----------|----------|-------|----------|---------|-------|--------|---------|-------|---|-------|---------|-------|------------|-----------|-----------|------------|---------------------|--------|-----------|
| 8 | 8 | 8 | 67 | 8 | 8 | 9 | 8 | ß | 61 | 8 | 89 | 8 | 57 | 8 | 8 | Ÿ | 8 | 23 | 51 | 8 | å | Ė | 47 | ģ | t | 1 | t |
| . [3 | 1 | · [| · E | 1 [| . [| 1 1 | . 1 | . 1 | 41.00 | +39.5 | +37.2 | +34.8 | +32.5 | +302 | +27.9 | +25.5 | | +20.9 | | +16.3 | +13.9 | +11.6 | £9.3 | _ | _ | +2.3 | 0 E |
| + [1] | * [10] | + 1 | 'E | · [| . [0 | 1 0 | . [0] | +40.9 | +38.6 | ÷36.4 | 44 E | +31.9 | +29.5 | +27.3 | +25.0 | +22.7 | +20.5 | +18.2 | +15.9 | +13.6 | +11.3 | +9.0 e | 6.8 | # in 8 | + 20 20 20 | 0 8 | 20 2 |
| * [11] | . [| . 1 | · [# | · [| . [10 | 1 1 | +40.0 | +37.B | +35,6 | +33.3 | +31.3 | +28.9 | +28.7 | +24.4 | *22.2 | +20.0 | | | *13.3 | 11.1 | #B.8 | 9.8 | #4.4 E | †3.70 E | | 23 | 4 6 |
| · [| · [3 | · [| · [| · E | · [| ±39.1≡ | +37.0 | _ | _ | | +28.3 | _ | +23.0 | _ | +19.6 | +17.4 | | | | +8.7 | + 8.5 S | 4.3 | +2 S | 0 8 | 10 E | | 700 |
| , III | 107 | | | , [| +38.3 | | +34.0 | | | | | +23.4 | | | | +14.9 | | | | | 1 × | | | | $\overline{}$ | _ | 0.0 N |
| * E | 7 | | 0 | +37.5 | +35.4 | | +31.1 | +29.2 | +27 | +25.0 | +221 | +20.8 | | | | | +10.4 | | | | | | | | | | |
| * [8 | 10.13 | | +36.7 | 5 +34.7 | +327 | _ | 1+28.6 | | +24.5 | | | | | | | | # = = = = = = = = = = = = = = = = = = = | | | | | | | | | | _ |
| +40.0 | _ | +36.0 | _ | 7 +32.0 | 7 +30.0 | _ | 6 +26.0 | | 5 422.0 | | | 4 +10.0 | 3 +14 | 3+12.0 | *10 | | 2 +6.0 | | _ | | | _ | | | | | 9 -14.0 |
| .0 +37.3 | 0 +35.3 | 0+33.3 | 0+31.4 | 0+29.4 | 0 +27.5 | | 0+23.5 | | 2 | | | | | | | _ | 0 +3.9 | | | | 4.0 | _ | _ | _ | _ | 4 | 30 . |
| 3 +34.6 | | _ | # +28.8 | | 5 +25.0 | | 5 +21.2 | | _ | | | _ | _ | | _ | _ | 9 # | _ | _ | _ | 0 -5.8 | | | - | | 2 | 5.9 -17 |
| $\overline{}$ | | | _ | | _ | | 10 11 11 | 9.2 +17.0 | _ | | 15 +11.3 | - | _ | - | _ | | 0 III 0 | _ | _ | _ | _ | _ | _ | | | | 20 ° |
| #32.1 +2 | +30.2 +2 | +28.3 +2 | +26.4 +2 | +24.5 +2 | +22.6 +2 | +20.8 +1 | 9.9 +1 | | | - | _ | 10.4 | | | | | | | | | -7.6 -9 | | | | | | 6 K |
| +29.6 +2 | +27.8 +2 | +25 si | +24.1 +2 | 122 E | +20.4 +1 | | +16.7 +1 | | +13.0 +1 | _ | _ | _ | _ | _ | _ | | 10 10 | _ | _ | _ | -9.3 -1 | -112 -1 | _ | | | _ | 20.4 |
| +27.3 ti | +25.5 + | +23.6 + | +21.8 + | +20.0 +: | +18.2 + | - | +14.5 | +12.7 + | +10.9 + | _ | - | -5.5 | _ | 10 | | | 36 | _ | | _ | -11.0 | -12.8 -7 | 14.6 | 6.4 | 100 TE | 20.0 | 21.0 0 |
| #28.0 H | +23.2 + | 127.4 1 | 19.6 | +17.9 + | 16.1 | _ | _ | | | _ | _ | _ | | | | | å = | | | _ | -12.5 | 14.3 | | | 19.7 | 21.5 | 100 |
| B 252 | 12 is | +19.3 | +17.5 | 15.8 | 14.0 | 23 = | +10,5 | 8.8 | 7.0 | _ | _ | 5 8 | 0 2 | 8 3 | 65 5 | ů. | 7.1 | | _ | _ | -14.1 E | 15.8 | 17.6 | _ | 21.1 | 22.9 | - |
| 20.7 | 19.0 | 1772 | #15.5 F | 13.6 | +12.1 | 10.3 | 8.9 | 6.9 | 52 | 34 2 | 1/2 | 0 | 77 | 00 12 | 6 E | _ | _ | _ | -12.1 | 13.8 | -15.6 | -17.3 | _ | | _ | 24.2 | 8 19 |
| 18.6 | # 16.9 | +15.3 | +13,6 | 11.9 | 10.2 | in i | 88 | 5 = | 34 8 | +1.7 | 0 2 | 17 | 4 3 | 6 E | di (ii | 6 5 | 10.2 | 11.8 | -13.6 | 15.3 | -17.0 | -10.7 | -20,4 | -22,1 E | -23.6 | 25.5 | · [8 |
| +36.7 | +16.0 | +13.3 | +11.7 | | | t6.7 | | | | | | 05 | | | | | -11.7 | -13.3 | | -16.7 | -18,4 | -20.0 | 21.7 | -23.4 | -25.0 | · LIH | 8 |
| 16.7 +14.8 | 15.0 +13.1 | +11.5 | +9.8 H | *82 | 6.6 W | 1 0 | 23 | *16 | 0 11 | -1.6 | 3,3 | 4.9 | 0.6 | 60 | 8.8 | -11.5 | -13.1 | -14.8 | -16.4 | -18.0 | -19.7 | -21.4 | -23.0 | -24.6 | * 18 | · III | . E |
| to E | +11.3 | +9.7 | ±8.1 | _ | _ | +3 g | | | | _ | _ | | | _ | _ | 100 | | -16.1 | | | | | 24.2 | | | . [2 | F (8) |
| +11.1 11.1 | +9.5 11 | _ | _ | _ | _ | ± 50 E | _ | | _ | _ | _ | _ | | _ | -127 | | _ | _ | -19.0 | | -22.3 | | | . 10 | . 0 | · [10] | |
| +9.4 | +7.8 | _ | t _E | _ | +100 | | -16 | | | | | | | 12.5 | | _ | | | -20.3 | | 23.5 | , [| . [| . [| . 4 | | . |
| +7.7 | +6.2 | _ | _ | _ | - | -1.5 | _ | _ | _ | _ | _ | _ | | | | | | | | 23.1 | - 11 | · E | . [5] | . [1] | , [10 | | 8 |
| # (g | | _ | _ | | | 3.0 | | | | | 1 | | 0. | | 4 | | | | 5 -22.7 | | . [18 | · [| . [3 | . [1 | . [111 | | . 8 |
| - | _ | +1.5 | _ | _ | _ | 4.5 | _ | _ | _ | _ | _ | _ | _ | 16. | 7 -17.5 | | 7 -20.9 | 20 = | 46 | 9 | - 111 | + [= | . [| - Lin | | | + 111 |
| $\overline{}$ | +1.5 | _ | | | | 5.0 | | | - | | | | - | 4 | | 200 | 9 -22.1 | 1 [| , E | | | + [| + = | | | | |
| 9 +1.4 | _ | | _ | _ | _ | 9 -72 | _ | _ | _ | _ | _ | _ | | _ | _ | | - | | 100 | | - 1 | - 11 | | 1 11 | | | |
| | | | | | | 10 E | _ | _ | _ | | _ | 4. | | | 3 -21.4 | | | 1 19 | 1 11 | 1 = | 1 = | 10 | | | | | |
| 160 | 4 | 2.9 | 3 | 4 8 | = = | 0 6 | 0.0 | # # | 2.9 | S 8 | 15,7 | 17.1 | 10.6 | 0 8 | 4 | 9 4 | 1 10 | 8 | 101 | 000 | 110 | 110 | 4117 | 100 | 9116 | 110 | 100 |

DRIVE RATIO CHARTS

13.9mm & 14m Pulleys

| | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |
|----|------------|---|---|---|---|--------|-------|------------|--|---|--|---|-------------------------|
| - | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 80 | 61 | 62 |
| 25 | 1 | -3.9 | -7.5 | -10.8 | -13.8 | -16.7 | -19.4 | -21.4 | -24.3 | -26.5 | -28.6 | -30.6 | -32.5 |
| | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 80 | 61 | 62 | 63 |
| 26 | +4.0 | 1 | -3.8 | -7.2 | -10.4 | -13.4 | -16.2 | -18.8 | -21.3 | -23.6 | -25.8 | -27.8 | -29.8 |
| | 52 | 53 | 54 | 55 | 58 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 27 | +8.30 | +3.8 | 1 | -3.6 | -6.9 | -10.0 | -13.0 | -15.7 | -18.2 | -20.6 | -22.9 | -25.0 | -27.1 |
| | 53 | 54 | 100000000000000000000000000000000000000 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 66 |
| 28 | +12.0 | +7.7 | +.37 | 1 | -3.6 | -6.7 | -9.7 | -12.5 | -15.2 | -17.7 | -20.0 | -22.3 | -24.4 |
| 00 | 54 | | | | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 |
| 29 | 7.5 | +11.5 | +7.4 | | 1 | -3.4 | -6.5 | -9.4 | -12.2 | -14.8 | -17.2 | -19.5 | -21.7 |
| 20 | 55 | | 57 | | The Later Control | | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| 30 | +20.0 | Total Control | | +7.1 | | 1 | -3.3 | -6.3 | -9.1 | -11.8 | -14.3 | -16.7 | -19.0 |
| 21 | 56 | - | 58 | 9.5 | | | | | 100000 | 65 | | 100000000000000000000000000000000000000 | 60 |
| 31 | +24.0 | | +14.8 | +10.7 | | +3.3 | 1 | -3.2 | -6.1 | -8.9 | -11.5 | -13.9 | -16.3 |
| 22 | 57 | Section 1997 | 200000000000000000000000000000000000000 | 60 | 100000000000000000000000000000000000000 | | | 64 | 12.5-11. | 0.183 | 10000 | | 69 |
| 32 | +28.0 | +23.1 | | | | +6.7 | +3.2 | 1 | -3.1 | -5.9 | -8.6 | -11.2 | -13.6 |
| 22 | 58 | | 100 | 100,000 | 0.00 | 63 | 100 | 100000 | | 2577 | 68 | 5155 | 70 |
| 33 | +32.0 | +26.9 | +22.2 | +17.9 | | +10.0 | +6.5 | +3.1 | 1 | -3.0 | -5.8 | -8.4 | -10.9 |
| 34 | 59 | 90 | 61 | 0.0000000000000000000000000000000000000 | 100000000000000000000000000000000000000 | 100000 | 66 | 100.000 | 0.000 | | 00000 | 2750-0 | 71 |
| 34 | +36.0 | +30.8 | +25.9 | +21.4 | | | +9.7 | | +3.0 | 1 | -2.9 | -5.6 | -8.2 |
| 35 | 60 | 0.000 | | 1000000 | 0 00000 | | | 67 | | | 70 | | 72 |
| 33 | +40.0 | +34.6 | | +25.0 | | +16.7 | +12.9 | | +6.7 | +2.9 | 1 | -2.8 | -5.5 |
| 36 | 61 | 100000000000000000000000000000000000000 | 100000000000000000000000000000000000000 | | 100000000 | 88 | | DeVIDE SOM | 10000 | 0.000.000 | 195000 | 200 | |
| 30 | +44.0 | +38.5 | | | | +20.0 | | | +9.1 | +5.9 | +2.9 | 1 | -2.8 |
| 37 | 62 | | . 27.0 | | - 07.6 | 67 | -10.4 | | 70 | .0.0 | | 100 | 74 |
| 31 | +48.0 | +42.3 | | +32.1 | | | | +15.6 | +12.1 | | | +2.8 | 1 |
| 38 | +52.0 | Name of the last | +40.7 | +35.7 | +31.0 | +26.7 | | +18.8 | | +11.8 | | +5.6 | +2.7 |
| 50 | +52.0 | | | | | | | 71 | | | | | |
| 39 | | | +44.4 | | | | - | | | | | _ | +5.4 |
| - | | | | | | | | | | | | | |
| 40 | | | +48.1 | | | | | | | | | | |
| | | | 140.1 | | | | | | | | | | |
| 41 | | | +51.9 | | | | | | | | | | |
| | | | 60 | | | | | | | | | | |
| 42 | | | +55.6 | | | | | | A STATE OF THE PARTY OF THE PAR | CONTRACTOR OF THE PARTY OF THE | And the last of th | | District Control of the |
| | | | 70 | | | | | | | | | | |
| 43 | | 0.00 | +59.3 | | | | | | | | | +19.4 | |
| | | | 71 | | | | | | | | | | |
| 44 | 1300000000 | | +63.0 | | | | | | | | CONTRACTOR OF THE PARTY OF THE | | |
| | | | 72 | | | | | | | | | | |
| 45 | | | +66.7 | | | | | | | | | | |
| | +00.0 | +/3.1 | +00.7 | +00.7 | +00.2 | +50.0 | 140.2 | 140.0 | +30.4 | 102.4 | +20.0 | TZ3.0 | TZ1.0 |



IFINAL COMPRESSION RATIO CHARTI

This chart shows the final compression ratio by combining the static compression ratio of an engine and the maximum blower boost from the blower system. It is to be used as a guideline in determining the proper maximum boost level for a specific application. Final compression ratios in excess of 12.4:1 are not recommended for use with "pump gas". The higher the final compression ratio, the higher the octane rating of the fuel must be in order to help prevent detonation and serious engine damage.

The formula for calculating your exact final compression ratio is as follows:

Final Compression Ratio (FCR) = [(Boost ÷ 14.7) + 1] x CR

Boost = Maximum blower boost

14.7 = psi at sea level

CR = engine compression ratio

Altitude plays an important role in determining compression ratios. If the altitude in the area where you normally drive is significantly higher than sea level, then your compression ratios will also vary. To determine the effects of the altitude on a calculated compression ratio, use the following formula:

Corrected Compression Ratio = FCR - [(altitude / 1000) x 0.2]

FINAL COMPRESSION RATIO CHART

BLOWER BOOST

| COMP RATIO | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 6.5 | 7.4 | 8.3 | 9.2 | 10 | 10.9 | 11.8 | 12.7 | 13.6 | 14.5 | 15.3 | 16.2 | 17.0 |
| 7 | 8 | 8.9 | 9.9 | 10.8 | 11.8 | 12.7 | 13.6 | 14.5 | 15.3 | 16.2 | 17.0 | 17.9 |
| 7.5 | 8.5 | 9.5 | 10.6 | 11.6 | 12.6 | 13.6 | 14.6 | 15.7 | 16.7 | 17.8 | 18.6 | 19.5 |
| 8 | 9.1 | 10.2 | 11.3 | 12.4 | 13.4 | 14.5 | 15.6 | 16.7 | 17.8 | 18.9 | 19.8 | 20.9 |
| 8.5 | 9.7 | 10.8 | 12 | 13.1 | 14.3 | 15.4 | 16.6 | 17.8 | 18.9 | 19.8 | 20.9 | 21.9 |
| 9 | 10.2 | 11.4 | 12.7 | 13.9 | 15.1 | 16.3 | 17.6 | 18.8 | 20.0 | 21.2 | 22.4 | 23.6 |
| 9.5 | 10.8 | 12.1 | 13.4 | 14.7 | 16 | 17.3 | 18.5 | 19.8 | 21.1 | 22.4 | 23.6 | 24.8 |
| 10 | 11.4 | 12.7 | 14.1 | 15.4 | 16.8 | 18.2 | 19.5 | 20.9 | 22.2 | 23.6 | 24.8 | 26.0 |
| 10.5 | 11.9 | 13.4 | 14.8 | 16.2 | 17.6 | 19.1 | 20.5 | 21.9 | 23.4 | 24.8 | 26.2 | 27.6 |
| 11 | 12.5 | 14.0 | 15.5 | 17.0 | 18.5 | 20.0 | 21.5 | 22.9 | 24.5 | 26.0 | 27.5 | 28.9 |

Pump Gas Good Gas



BDS ENGINE BELT SIZE CHART

This chart will enable you to correctly determine the belt length required for a specific engine and pulley combination utilizing standard BDS blower systems. These charts may not be accurate for custom blower systems and systems not manufactured by BDS. To find the belt you need for your application, you must have four items of information:

- Make and model of engine.
- Total tooth count of both pulleys.
- 2) Style of pulleys (1/2 pitch, 8mm, etc.)
- Center to center distance between upper and lower blower pulley.

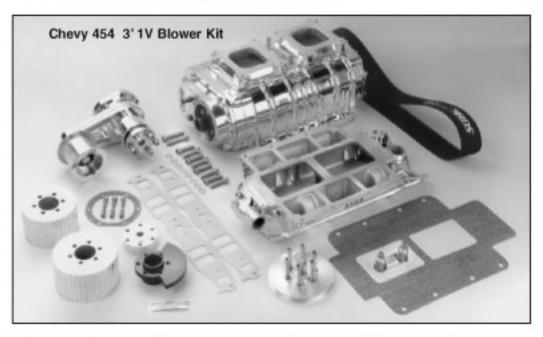
If you do not have a complete standard BDS blower system, you will need to measure the center to center distance from the drive snout on the blower to the crankshaft of the engine. Look at the belt chart to find a measurement that comes closest to your measurement. If you cannot decide which belt will work for your application, we suggest calling the BDS customer service department.

Locate your engine and belt style in the chart below. This chart will give a total teeth range for a specific belt length.

| ENGINE | CENTER TO CENTER | 1/2 PITCH | 8MM | 13.9 / 14 MM |
|-----------------|---------------------|-------------------------|--|---|
| AMC (all) | 19.00" | 61-68 TEETH = 555H300 | 112-117 TEETH = 14408M75 | SPECIAL ORDER |
| BUICK V6 | 19.00" | 61-68 TEETH = 555H300 | 112-117 TEETH = 14408M75 | SPECIAL ORDER |
| BUICK V8 | 19.50* | 60-67 TEETH = 570H300 | 103-110 TEETH = 14408M75 | SPECIAL ORDER |
| | 21.00" | 61-66 TEETH - 586H300 | 96-105 TEETH = 15208M75 | |
| CHEVROLET | 7/24 13 | | | 25/25/2 N-Ag |
| 229-292 V6 | 17,60" | 65-71 TEETH = 540H300 | 86-90 TEETH = 12808M75 | 62-68 TEETH = 140014M75 |
| 265-400 V8 | 17.60" | 65-71 TEETH = 540H300 | 96-112 TEETH = 13608M75 | 62-68 TEETH = 140014M75 |
| | 8570000 | | 123-133 TEETH = 14408M75 | |
| WINTERCOOLER | 21.60" | 60-64 TEETH = 600H300 | 116-122 TEETH = 16008M75 | 68-71 TEETH = 161014M75 |
| LS-1 | 18.250" | 61-68 TEETH = 540H300 | 121-127 TEETH = 14408M75 | |
| ₩8007-M | 18.825* | 63-70 TEETH = 540H300 | 97-108 TEETH = 13608M75 | 62-67 TEETH = 140014M75 |
| CHEVY 409 | 19.375" | 62-69 TEETH = 570H300 | 101-108 TEETH = 14408M75 | |
| 396-454-V8 | 7,000,000 | | The state of the s | 100 |
| STREET INTAKE | 19.06" | 68-74 TEETH = 570H300 | 112-117 TEETH = 14408M75 | 75-81 TEETH = 1543-75HT |
| WINTERCOOLER | 23.06" | 60-67 TEETH - 630H300 | 96-106 TEETH = 16009M75 | 13.9MM N/A |
| | | 74-80 TEETH = 660H300 | 137-140 TEETH = 17608M75 | 55-60 TEETH = 161014M75 |
| #8026T | 19.80" | 60-67 TEETH = 570H300 | 92-103 TEETH = 14408M75 | 00.00 (EE11) = 1010198610 |
| #8027S | 19.70" | 63-69 TEETH = 570H300 | 97-107 TEETH = 14408M75 | 68-76 TEETH = 1543-75HT |
| FOULTO | 10.70 | COTOS TEETIT - GYOTECO | SI TOT TEETIT - THYOURING | 73-86 TEETH = 161014M75 |
| WINTERCOOLER | 23.70" | 69-75 TEETH = 660H300 | 91-101 TEETH = 16008M75 | 51-54 TEETH = 161014M75 |
| MINTERIOR DELLI | 20.70 | and the transfer | 128-139 TEETH = 17608M75 | 63-67 TEETH = 1543-75HT |
| #8027T | 20.30* | 64-69 TEETH = 586H300 | 91-100 TEETH = 14408M75 | 63-75 TEETH = 1543-75HT |
| POOLIT | 20.00 | OF OF TEETH - SOUTHOOD | 132-140 TEETH = 16008M75 | 68-76 TEETH = 177814M75 |
| WINTERCOOLER | 24.30" | 62-68 TEETH = 660H300 | 86-89 TEETH = 16008M75 | 59-65 TEETH = 169414M75 |
| MINITERIOUSEERI | 6.4.00 | te to reciti - the foot | 119-131 TEETH = 17608M75 | 68-76 TEETH = 177814M75 |
| CHRYSLER | | | TIO TOT TEETT - TOOMING | CONTRACTOR OF THE PROPERTY OF |
| 318 - 340 | 19.50" | 66-72 TEETH - 600H300 | 102-110 TEETH = 14408M75 | 66-74 TEETH = 1543-75HT |
| 360 | 20.75" | 61-68 TEETH = 585H300 | 86-93 TEETH = 14408M75 | 7 |
| | 33036 | | 102-113 TEETH = 15208M75 | |
| ₩8386-H | 20.75" | 66-72 TEETH = 600H300 | 102-113 TEETH = 15208M75 | SPECIAL ORDER |
| #8386-W | 18.89" | 70-76 TEETH - 570H300 | 112-119 TEETH = 14408M75 | 73-80 TEETH = 1543-75HT |
| 354 | 21.10" | 64-70 TEETH = 600H300 | 98-109 TEETH = 15208M75 | SPECIAL ORDER |
| 426 HEMI | 18,89" | 70-76 TEETH = 570H300 | 112-119 TEETH = 14408M75 | 73-80 TEETH = 1543-75HT |
| 440 | 18.25" | 61-68 TEETH = 540H300 | 121-127 TEETH = 14408M75 | 77-84 TEETH = 1543-75HT |
| FORD | | | | |
| 289,302,351W | 18.50" | 66-73 TEETH = 586H300 | 92-103 TEETH = 14408M75 | 63-73 TEETH = 1543-75HT |
| 351C | 19,65" | 64-71 TEETH = 570H300 | 106-112 TEETH = 14408M75 | 71-76 TEETH = 1543-75HT |
| ₩8446-H | 20.80" | 66-72 TEETH = 600H300 | 102-113 TEETH = 15208M75 | SPECIAL ORDER |
| ₩8456 | 21.25" | 61-68 TEETH - 600H300 | 97-107 TEETH = 15208M75 | SPECIAL ORDER |
| | 2012 | | 118-128 TEETH = 16008M75 | 67-73 TEETH = 161014M75 |
| MINTERCOOLER | 25.25 | 71-76 TEETH = 700H300 | 105-113 TEETH = 17608M75 | 60-66 TEETH = 177814M75 |
| DLDSMOBILE | | | 1, 2, 3, 11 | |
| 350-455 | 19.75" | 61-68 TEETH - 570H300 | 100-107 TEETH = 14408M75 | SPECIAL ORDER |
| PONTIAC | | | | |
| 350-455 | 17.17 | 60-64 TEETH = 510H300 | 93-100 TEETH = 12808M75 | SPECIAL ORDER |
| | | 72-78 TEETH = 540H300 | 108-119 TEETH = 13608M75 | 100 |
| | | | 134-140 TEETH = 14408M75 | |
| CAD | | | | |
| 427-500 | 19.75 | 62-68 TEETH = 570H300 | 96-106 TEETH = 14408M75 | 67-75 TEETH = 1543-75HT |
| | | | 11130000 | 72-84 TEETH = 161014M75 |

BDS BLOWER KITS

BDS Blower Kits are designed and manufactured for a wide variety of engines, using the highest quality materials available. Each blower kit has been designed to deliver outstanding performance with a "long service life" and show winning appear-Backed by an ance. unprecedented 24 month limited warranty, you will enjoy the satisfaction of knowing that your blower components have been utilized by race teams in classes such as door slammers, monster trucks, mud boggers, nostalgic cars, offshore boats and wheel standers.



Each blower kit comes unpolished and includes all the necessary parts, along with installation instructions and diagrams to enable you to bolt the blower kit onto your engine. Polishing is available as an option. If you can change an intake manifold on your engine, you will be able to install the BDS blower kit. There are the number of options available to customize your blower system to meet your exact needs.

BDS Blower Kits include:

- Carb Adapter
- Blower Stage 1
 - Billet End Plates
- PR Valve
- Sight Gauge
- Blower Manifold
- Backfire Valve
- Idler Arm or Bracket
- Drive Kit 1/2" pitch
- Blower Pulleys
- Gaskets Bolts
- Blower Belt
- · Steel Crank Hub
- Accessory Vee Groove(s)
- Idler Pulley
- Snout
 Gear Coupler

(For more information on the specific items listed above, please refer to the appropriate sections in this catalog)

Unpolished



The 471, 671 and 871 **STANDARD** blower kits are available for most V6 and V8 engines manufactured by Chevrolet. Special manifolds must be ordered for use with some after market heads. The drive kit includes a neutral balance or counter weighted steel crank hub. All systems require a short water pump. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be moved or modified for clearance of the blower system. An option to show polish blower only or blower kit can be easily added. If you want a more competitive edge to your drive kit, you can upgrade to 8mm pulleys and belt.

| Part No. | Description |
|---|--|
| 304-3S1/1 | Chevy 229-262 V6 3" 1V 471 Blower Kit |
| 304-3S2/1 | Chevy 229-262 V6 3" 2V 471 Blower Kit |
| 304-3S3/1 | Chevy 229-262 V6 3" 3V 471 Blower Kit |
| 316-3S1/2 | Chevy 265-350 3" 1V 671 Blower Kit (Specify if using 1206 Gastwitz) |
| 316-3S2/2 | Chevy 265-350 3" 2V 671 Blower Kit (Specify if using 1206 Gashats) |
| 316-3S3/2 | Chevy 265-350 3" 3V 671 Blower Kit (Specify if using 1206 Gastwitz) |
| 328-3S1/2 | Chevy 396-427 3" 1V 871 Blower Kit |
| 328-3S2/2 | Chevy 396-427 3" 2V 871 Blower Kit |
| 328-3S3/2 | Chevy 396-427 3" 3V 871 Blower Kit |
| 348-3S1/2 | Chevy 454 3" 1V 871 Blower Kit |
| 348-3S2/2 | Chevy 454 3" 2V 871 Blower Kit |
| 348-3S3/2 | Chevy 454 3" 3V 871 Blower Kit |
| 11157 W 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | A CHARLES OF THE CONTROL OF THE CONT |





The 871 STANDARD blower kits are available for most V8 engines manufactured by Chrysler. The year of manufacturer for the heads must be supplied in order for BDS to supply the proper manifold. Special manifolds must be ordered for use with some after market heads. Customers with externally balanced engines are required to send their stock factory balancer along with their order so that it may be converted for use with the blower system. The drive kit includes a neutral balance steel crank hub. Customer must provide specifications on heads in order to choose the proper intake in kit. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be moved or modified for clearance of the blower system. Options for show polish blower only or blower kit can be easily added. We can change your 1/2" pitch pulleys and belt to 8mm for a more competitive edge. This can be upgraded to your kit.

| Part No. | Description | |
|-----------|--|--|
| 428-3S1/2 | Chrysler 428 Hemi 3" 1V 871 Blower Kit | |
| 428-3S2/2 | Chrysler 428 Hemi 3" 2V 871 Blower Kit | |
| 428-3S3/2 | Chrysler 428 Hemi 3" 3V 871 Blower Kit | |
| 438-3S1/2 | Chrysler 440 3" 1V 871 Blower Kit | |
| 438-3S2/2 | Chrysler 440 3" 2V 871 Blower Kit | |
| 438-3S3/2 | Chrysler 440 3" 3V 871 Blower Kit | |



The 871 STANDARD blower kits are available for most V8 engines manufactured by Ford. The year of manufacture for the heads must be supplied in order for BDS to supply the proper manifold. Special manifolds must be ordered for use with some after market heads. Due to the locations of the distributor, Ford motors require a flat cap style distributor (not supplied with kit) for proper manifold clearance. This kit can be easily upgraded to 8mm pulleys and belt. You can add show polish to blower only or blower kit. The kit includes a neutral balance steel crank hub. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditoning. Some factory brackets may need to be moved or modified for clearance of the blower system.

| | Part No. | Description | |
|-----|-----------|-----------------------------------|-----|
| le. | 598-3S1/2 | Ford 429-460 3" 1V 871 Blower Kit | 100 |
| NEW | 598-3S2/2 | Ford 429-460 3" 2V 871 Blower Kit | |
| 140 | 598-3S3/2 | Ford 429-460 3" 3V 871 Blower Kit | |

PONTIAC

The 871 STANDARD blower kits are available for most V8 engines manufactured by Pontiac. The year of manufacture for the heads must be supplied in order for BDS to supply the proper manifold. Special manifolds must be ordered for use with some after market heads. The blower kit utilities stock vee grooves to be used in conjunction with BDS pulleys. You can add show polish to blower only or blower kit. The drive kit includes a neutral balance steel crank hub. Some factory brackets may need to be moved or modified for clearance of the blower system.

| Part No. | Description | |
|-----------|--------------------------------------|--|
| 708-3S1/2 | Pontiac 400-455 3" 1V 871 Blower Ki | |
| 708-3S2/2 | Pontiac 400-455 3" 2V 871 Blower Kit | |
| 708-3S3/2 | Pontiac 400-455 3" 3V 871 Blower Kit | |

Custom Blower kits are sold as individual components. Use chart to convert previous blower kit part numbers to new component part numbers.

Also priced separately are systems using racing blowers.

AMC KITS (CUSTOM)

The 871 **CUSTOM** blower kits are available for V8 engines manufactured by AMC. The drive kit includes a neutral steel harmonic balancer. Some factory brackets may need to be modified for clearance of the blower system. Accessory drive vee grooves are available for water pump, alternator, and power steering. See BDS pricing for upgrade options.

| Old Part No. | Description | New Drive Kit (Polish) | Manifolds | (Polish) | Carb Adptr. (Polish) |
|--------------|-----------------------------|---------------------------|-----------|----------|-------------------------|
| 108-3S1/2 | AMC V8 3" 1V 871 Blower Kit | 106-3S1 | 8106A | 871 | 24B6-2 |
| 108-3S2/2 | AMC V8 3" 2V 871 Blower Kit | 106-3S2 | 8106A | 871 | 2486-2 |
| 108-353/2 | AMC V8 3" 3V 871 Blower Kit | 106-3S3 | 8106A | 871 | 2486-2 |



BUICK (CUSTOM)

The 471 and 871 **CUSTOM** blower kits are available for most V6 and V8 engines manufactured by Buick. Special manifolds must be ordered for use with heads other than stock. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be modified for clearance of the blower system. See BDS pricing for upgrade options.

| Old Part No. | Description | New Drive Kit (Polish) | Manifolds | Blower (Polish) | Carb Adptr. (Polish) |
|--------------|------------------------------------|---------------------------|-----------|--------------------|-------------------------|
| 214-3S1/1 | Buick Even V6 3" 1V 471 Blower Kit | 214-3S1 | 8204A | 471 | 14B4-2 |
| 214-3S2/1 | Buick Even V6 3" 2V 471 Blower Kit | 214-3S2 | 8204A | 471 | 14B4-2 |
| 214-3S3/1 | Buick Even V6 3" 3V 471 Blower Kit | 214-3S3 | 8204A | 471 | 14B4-2 |
| 228-3S1/2 | Buick 401-425 3" 1V 871 Blower Kit | 226-3S1 | 8216 | 871 | 24B6-2 |
| 228-3S2/2 | Buick 401-425 3" 2V 871 Blower Kit | 226-3S2 | 8216 | 871 | 24B6-2 |
| 228-3S3/2 | Buick 401-425 3" 3V 871 Blower Kit | 226-3S3 | 8216 | 871 | 24B6-2 |
| 238-3S1/2 | Buick 400-455 3" 1V 871 Blower Kit | 236-3S1 | 8256 | 871 | 24B6-2 |
| 238-3S2/2 | Buick 400-455 3" 2V 871 Blower Kit | 236-3S2 | 8256 | 871 | 24B6-2 |
| 238-3S3/2 | Buick 400-455 3" 3V 871 Blower Kit | 236-3S3 | 8256 | 871 | 24B6-2 |



CHEVROLET (CUSTOM)

The 671 **CUSTOM** blower kits are available for most V8 engines manufactured by Chevrolet. Special manifolds must be ordered for use with some after market heads. All systems require a short water pump. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| Old Part No. | Description | New Drive Kit (Polish) | Manifolds | Blower (Polish) | Carb Adptr. (Polish) |
|--------------|------------------------------------|---------------------------|-----------|--------------------|-------------------------|
| 358-3S1/2 | Chevy 348-409 3" 1V 671 Blower Kit | 356-3S1 | 8036 | 671 | 24B6-2 |
| 358-3S2/2 | Chevy 348-409 3" 2V 671 Blower Kit | 356-3S2 | 8036 | 671 | 24B6-2 |
| 358-3S3/2 | Chevy 348-409 3" 3V 671 Blower Kit | 356-3S3 | 8036 | 671 | 24B6-2 |



FORD (CUSTOM)

The 871 and 871 CUSTOM blower kits are available for most V6 and V8 engines manufactured by Ford. The year of manufacture for the heads must be supplied in order for BDS to supply the proper manifold. Special manifolds must be ordered for use with some after market heads. Due to the locations of the distributor, Ford motors require a flat cap style distributor (not supplied with kit) for proper manifold clearance. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Kit does not include stock crank seal sleeve. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| Old Part No. | Description | New Drive Kit (Polish) | Manifolds | Blower (Polish) | Carb Adptr. (Polish) |
|--------------|------------------------------------|---------------------------|-------------|--------------------|-------------------------|
| 526-3S1/2 | Ford 289-302 3" 1V 671 Blower Kit | 526-3S1 | 8406 | 871 | 24B6-2 |
| 526-3S2/2 | Ford 289-302 3" 2V 671 Blower Kit | 526-3S2 | 8408 | 671 | 24B6-2 |
| 526-3S3/2 | Ford 289-302 3" 3V 671 Blower Kit | 526-3S3 | 8408 | 871 | 24B6-2 |
| 536-3S1/2 | Ford 351C 3" 1V 671 Blower Kit | 536-3S1 | 8416A/8416B | 871 | 24B6-2 |
| 536-3S2/2 | Ford 351C 3" 2V 671 Blower Kit | 536-3S2 | 8416A/8416B | 871 | 24B6-2 |
| 536-3S3/2 | Ford 351C 3" 3V 671 Blower Kit | 536-3S3 | 8416A/8416B | 871 | 24B6-2 |
| 586-3S1/2 | Ford 351W 3" 1V 671 Blower Kit | 588-3S1 | 8426/8427 | 871 | 24B6-2 |
| 586-3S2/2 | Ford 351W 3" 2V 671 Blower Kit | 588-3S2 | 8426/8427 | 671 | 24B6-2 |
| 566-3S3/2 | Ford 351W 3" 3V 671 Blower Kit | 588-3S3 | 8426/8427 | 871 | 24B6-2 |
| 588-3S1/2 | Ford 390-428 3" 1V 871 Blower Kit | 586-3S1 | 8446-H/1002 | 871 | 24B6-2 |
| 588-3S2/2 | Ford 390-428 3" 2V 871 Blower Kit | 586-3S2 | 8446-H/1002 | 871 | 24B6-2 |
| 588-3S3/2 | Ford 390-428 3" 3V 871 Blower Kit | 586-3S3 | 8448-H/1002 | 871 | 24B6-2 |
| 598B3S1/2 | 429 Boss Ford 871 3" 1V Blower Kit | 598B3S1 | 8466B | 871 | 24B6-2 |
| 598B3S2/2 | 429 Boss Ford 871 3" 2V Blower Kit | 598B3S2 | 8466B | 871 | 24B6-2 |
| 598B3S3/2 | 429 Boss Ford 871 3° 3V Blower Kit | 598B3S3 | 8466B | 871 | 24B6-2 |

CHRYSLER (CUSTOM)

The 671 **CUSTOM** blower kits are available for most V6 and V8 engines manufactured by Chrysler. The year of manufacturer for the heads must be supplied in order for BDS to supply the proper manifold. Special manifolds must be ordered for use with some after market heads. Customers with externally balanced engines are required to send their stock factory balancer along with their order so that it may be converted for use with the blower system. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| Old Part No. | Description | New Drive Kit (Polish) | Manifolds | Blower (Polish) | Carb Adptr. (Polish) |
|--------------|---|---------------------------|-----------|--------------------|-------------------------|
| 406A3S1/2 | Chrys 273-318 66+ 3" 1V 671 Bl. Kit | 406-3S1 | 8306A | 671 | 24B6-2 |
| 406A3S2/2 | Chrys 273-318 66+ 3" 2V 671 Blower Kit | 406-3S2 | 8306A | 671 | 24B6-2 |
| 406A3S3/3 | Chrys 273-318 66+ 3" 3V 671 Blower Kit | 406-3S3 | 8306A | 671 | 24B6-2 |
| 406-3S1/2 | 273 Chrys 671 65- 3" 1V Blower Kit | 406-3S1 | 8306B | 671 | 24B6-2 |
| 406-3S2/2 | 273 Chrys 671 65- 3" 2V Blower Kit | 406-3S2 | 8306B | 671 | 24B6-2 |
| 406-3S3/2 | 273 Chrys 671 65- 3' 3V Blower Kit | 406-3S3 | 8306B | 671 | 24B6-2 |
| 406B3S1/2 | Chrys 340-360 Early 3" 1V 671 Blower Kit | 406-3S1 | 8306C | 671 | 24B6-2 |
| 406B3S2/2 | Chrys 340-360 Early 3" 2V 671 Blower Kit | 406-3S2 | 8306C | 671 | 24B6-2 |
| 406B3S3/3 | Chrys 340-360 Early 3" 3V 671 Blower Kit | 406-3S3 | 8306C | 671 | 24B6-2 |
| 416-3S1/2 | Chrys 383-400 3" 1V 671 Blower Kit | 416-3S1 | 8356 | 671 | 24B6-2 |
| 416-3S2/2 | Chrys 383-400 3" 2V 671 Blower Kit | 416-3S2 | 8356 | 671 | 24B6-2 |
| 416-3S3/2 | Chrys 383-400 3" 3V 671 Blower Kit | 416-3S3 | 8356 | 671 | 24B6-2 |
| 446H3S1/2 | Chrys 330-392 (H) Hemi 3" 1V 671 Blower Kit | 446-3S1 | 8386-H | 671 | 24B6-2 |
| 446H3S2/2 | Chrys 330-392 (H) Hemi 3" 2V 671 Blower Kit | 446-3S2 | 8386-H | 671 | 24B6-2 |
| 446H3S3/2 | Chrys 330-392 (H) Hemi 3" 3V 671 Blower Kit | 446-3S3 | 8386-H | 671 | 24B6-2 |
| 446W3S1/2 | Chrys 330-392 (W) Hemi 3" 1V 671 Blower Kit | 446-3S1 | 8386 | 671 | 24B6-2 |
| 446W3S2/2 | Chrys 330-392 (W) Hemi 3" 2V 671 Blower Kit | 446-3S2 | 8386 | 671 | 24B6-2 |
| 446W3S3/2 | Chrys 330-392 (W) Hemi 3" 3V 671 Blower Kit | 446-3S3 | 8386 | 671 | 24B6-2 |

OLDSMOBILE (CUSTOM)

The 471, 671 and 871 **CUSTOM** blower kits are available for most V6 and V8 engines manufactured by Oldsmobile. The year of manufacture for the heads must be supplied in order for BDS to supply the proper manifold. Special manifolds must be ordered for use with some after market heads. Customers with externally or neutral balanced engines are required to send their stock factory balancer along with their order so that it may be converted for use with the blower system. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| Old Part No. | Description | New Drive Kit (Polish) | Manifolds | (Polish) | Carb Adptr. (Polish) |
|--------------|---|---------------------------|-----------|----------|-------------------------|
| 606-3S1/2 | Oldsmobile 350-403 3" 1V 671 Blower Kit | 606-3S1 | 8506 | 671 | 24B6-2 |
| 606-3S2/2 | Oldsmobile 350-403 3" 2V 671 Blower Kit | 606-3S2 | 8506 | 671 | 24B6-2 |
| 606-3S3/2 | Oldsmobile 350-403 3" 3V 671 Blower Kit | 606-3S3 | 8506 | 671 | 24B6-2 |
| 618-3S1/2 | Oldsmobile 455-3" 1V 871 Blower Kit | 616-3S1 | 8556 | 871 | 24B6-2 |
| 618-3S2/2 | Oldsmobile 455 3" 2V 871 Blower Kit | 616-3S2 | 8556 | 871 | 24B6-2 |
| 618-3S3/2 | Oldsmobile 455 3" 3V 871 Blower Kit | 616-3S3 | 8556 | 871 | 24B6-2 |
| 624-3S1/1 | Oldsmobile 215 3" 1V 471 Blower Kit | 624-3S1 | 8514 | 471 | 14B4-2 |
| 624-3S2/1 | Oldsmobile 215 3" 2V 471 Blower Kit | 624-3S2 | 8514 | 471 | 14B4-2 |
| 624-3S3/1 | Oldsmobile 215 3" 3V 471 Blower Kit | 624-3S3 | 8514 | 471 | 14B4-2 |



那DSBLOWER DRIVE KITS!

Show Polish



BDS Drive Kits are manufactured from aircraft aluminum and steel alloys to ensure maximum performance and durability. A number of options are available to customize your drive kit for your specific requirements (see the Blower Kits and Drive Kits Options section in this catalog). Accessory vee grooves can be provided to drive the water pump, alternator, power steering, and air conditioning accessories. All drive kits utilizes a steel crank hub or harmonic balancer to replace the stock factory harmonic balancer. For more information on harmonic balancers and crank hubs, please refer to the "Blower Crank Hub" section in this catalog.

The complete BDS Drive Kit comes polished and includes:

- · Blower Gear Coupler
- Drive Snout
- 1/2 pitch Upper Blower Pulley
- Idler Pulley
- · Idler Mounting Assembly
- 1/2 pitch Blower Belt
- Steel Crank Hub or Harmonic Balancer

- Accessory Vee Groove (s)
- 1/2 pitch Lower Blower Pulley
- Bolts
- Spacers
- Gaskets
- Instructions

The drive kits are listed below in alphabetical order by engine manufacturer. If your engine/blower combination is not listed, BDS may be able to build a custom drive kit specifically designed to meet your needs. Contact the BDS customer service department for additional details.



AMC DRIVE KITS

Drive kits for the 871 are available for all AMC V8's. Whether your engine is externally balanced or internally balanced, a steel harmonic balancer will be provided in your kit. Some factory brackets may need to be modified for clearance of the blower system. Accessory drive vee grooves are available for water pump, alternator, and power steering. See BDS pricing for upgrades options.

| · | Part No. | Description | |
|---|----------|-------------------------|--|
| | 108-3S1 | AMC 3" 1V 871 Drive Kit | |
| | 108-3S2 | AMC 3" 2V 871 Drive Kit | |
| | 108-3S3 | AMC 3" 3V 871 Drive Kit | |

BUICK

Drive kits for the 471, 671 and 871 are available for most V6 and V8 engines manufactured by Buick. Customers with externally balanced V6 - V8 engines are required to send their stock factory balancer along with their order so that it may be converted for use with the blower system. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be modified for clearance of the blower system. See BDS pricing for upgrades options.

| Part No. | Description |
|----------|-----------------------------------|
| 214-3\$1 | Buick Even V6 3" 1V 471 Drive Kit |
| 214-3\$2 | Buick Even V6 3" 2V 471 Drive Kit |
| 214-3S3 | Buick Even V6 3" 3V 471 Drive Kit |
| 228-3\$1 | Buick 401-425 3" 1V 871 Drive Kit |
| 228-3S2 | Buick 401-425 3" 2V 871 Drive Kit |
| 228-3\$3 | Buick 401-425 3" 3V 871 Drive Kit |
| 238-3S1 | Buick 400-455 3' 1V 871 Drive Kit |
| 238-3\$2 | Buick 400-455 3" 2V 871 Drive Kit |
| 238-3\$3 | Buick 400-455 3" 3V 871 Drive Kit |

CADILLAC

Drive kits for the 671-871 are available for most V8 engines manufactuered by Cadillac. Accessory drive vee grooves are available for water pump, alternator, and power steering. This drive kit includes a steel crank hub. Some factory brackets may need to be modified for clearance of the blower system. See BDS pricing for upgrades options.

| Part No. | Description |
|----------|--------------------------------------|
| 808-3S1 | 500 Cadillac 671-871 3" 1V Drive Kit |
| 808-3S2 | 500 Cadillac 671-871 3" 2V Drive Kit |

BLOWER KIT AND DRIVE UPGRADE OPTIONS

A number of options are listed below and are available to customize your blower kit to meet the exact requirements of your installation.

| Part | No. | Description | |
|-------|------|--|--|
| 6000- | В | Add for serpentine accessories in kit for Chevy BB only. | |
| 6000- | S | Add for serpentine accessories in kit for Chevy SB only. | |
| 6200 | 200 | Add for cutting to 2" wide drive. | |
| 6400 | | Add for 400 Chevy crank hub to kit. | |
| 6451 | | Add for steel balancer to Chevy 427. | |
| 6452 | | Add for steel balancer to Chevy 454. | |
| 6453 | | Add for steel balancer to Chevy 350. | |
| C705 | 9HAR | Hard anodized blower case in kit. Stage 2 option | |
| C705 | 9HAC | Hard anodized blower rotors in kit. Stage 2 option | |



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CHEVROLET

Drive kits for the 471, 671, and 871 are available for V6 and V8 engines manufactured by Chevrolet. All systems required a short water pump. This drive kit includes neutral or counter weighted crank hub. Accessory vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| Part No. | Description |
|----------|--|
| 304-3S1 | Chevy 229-262 V6 3" 1V 471 Drive Kit |
| 304-3S2 | Chevy 229-262 V6 3" 2V 471 Drive Kit |
| 304-3S3 | Chevy 229-262 V6 3" 3V 471 Drive Kit |
| 314-3S1 | Chevy 265-350 3" 1V 471 Drive Kit |
| 314-3S2 | Chevy 265-350 3" 2V 471 Drive Kit |
| 314-3S3 | Chevy 265-350 3" 3V 471 Drive Kit |
| 316-3S1 | Chevy 265-350 3" 1V 671 Drive Kit |
| 316-3S2 | Chevy 265-350 3" 2V 671 Drive Kit |
| 316-3S3 | Chevy 265-350 3" 3V 671 Drive Kit |
| 328-3S1 | Chevy 396-427 3" 1V 871 Drive Kit |
| 328-3S2 | Chevy 396-427 3" 2V 871 Drive Kit |
| 328-3S3 | Chevy 396-427 3" 3V 871 Drive Kit |
| 328-380 | Chevy 396-427 3" 8mm Competition Drive Kit |
| 348-3S1 | Chevy 454-3" 1V 871 Drive Kit |
| 348-3S2 | Chevy 454-3" 2V 871 Drive Kit |
| 348-3S3 | Chevy 454 3" 3V 871 Drive Kit |
| 348-380 | Chevy 454 3" 8mm Competition Drive Kit |
| 348-3M3 | Chevy 427- 454 3" 3V Marine Drive Kit |
| 358-3S1 | Chevy 348-409 3" 1V 671-871 Drive Kit |
| 358-3S2 | Chevy 348-409 3" 2V 671-871 Drive Kit |
| 358-3S3 | Chevy 348-409 3" 3V 671-871 Drive Kit |

CHRYSLER

Drive kits for the 671 and 871 are available for V8 engines manufactured by Chrysler. This drive kit includes a neutral balance crank hub. Accessory vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| Part No. | Description |
|----------|--|
| 408-3S1 | Chrysler 318-340-380 3" 1V 671 Drive Kit (Early or Late) |
| 406-3S2 | Chrysler 318-340-360 3" 2V 671 Drive Kit (Early or Late) |
| 406-3S3 | Chrysler 318-340-380 3" 3V 671 Drive Kit (Early or Late) |
| 416-3S1 | Chrysler 383-400 3" 1V 871 Drive Kit |
| 416-3S2 | Chrysler 383-400 3" 2V 671 Drive Kit |
| 416-3S3 | Chrysler 383-400 3" 3V 671 Drive Kit |
| 428-3S1 | Chrysler 426 Hemi 3" 1V 871 Drive Kit |
| 428-3S2 | Chrysler 426 Hemi 3" 2V 871 Drive Kit |
| 428-3S3 | Chrysler 426 Hemi 3" 3V 871 Drive Kit |
| 438-3S1 | Chrysler 440 3" 1V 871 Drive Kit |
| 438-3S2 | Chrysler 440 3" 2V 871 Drive Kit |
| 438-3S3 | Chrysler 440 3" 3V 871 Drive Kit |
| 446-3S1 | Chrysler 392 Hemi 3" 1V 671 Drive Kit (H or W) |
| 446-3S2 | Chrysler 392 Hemi 3" 2V 671 Drive Kit (H or W) |
| 448-3S3 | Chrysler 392 Hemi 3" 3V 671 Drive Kit (H or W) |



FORD

Drive kits for the 671 and 871 are available for V8 engines manufactured by Ford. This drive kit includes a neutral or counter weighted steel crank hub. Accessory drive vee grooves are available for water pump, alternator, power steering, and air conditioning. Kit does not include stock crank seal sleeve. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| Part No. | Description |
|----------|---------------------------------------|
| 526-3S1 | Ford 289-302 3" 1V 671 Drive Kit |
| 526-3S2 | Ford 289-302 3" 2V 671 Drive Kit |
| 528-3S3 | Ford 289-302 3" 3V 671 Drive Kit |
| 536-3S1 | Ford 351C 3" 1V 671 Drive Kit |
| 536-3S2 | Ford 351C 3' 2V 671 Drive Kit |
| 536-3S3 | Ford 351C 3" 3V 671 Drive Kit |
| 548-3S1 | Ford Boss 302 3" 1V 671 Drive Kit |
| 546-3S2 | Ford Boss 302 3" 2V 671 Drive Kit |
| 546-3S3 | Ford Boss 302 3" 3V 671 Drive Kit |
| 566-3S1 | Ford 351W 3' 1V 671 Drive Kit |
| 568-3S2 | Ford 351W 3" 2V 671 Drive Kit |
| 566-3S3 | Ford 351W 3" 3V 671 Drive Kit |
| 578-3S1 | Ford 400M 3' 1V 871 Drive Kit |
| 578-3S2 | Ford 400M 3" 2V 871 Drive Kit |
| 578-3S3 | Ford 400M 3" 3V 871 Drive Kit |
| 588-3S1 | Ford 390-428 3" 1V 871 Drive Kit |
| 588-3S2 | Ford 390-428 3" 2V 871 Drive Kit |
| 588-3S3 | Ford 390-428 3" 3V 871 Drive Kit |
| 598-3S1 | Ford 429-480 3" 1V 871 Drive Kit |
| 598-3S2 | Ford 429-460 3" 2V 871 Drive Kit |
| 598-3S3 | Ford 429-460 3" 3V 871 Drive Kit |
| 598B3S1 | 429 Boss Ford 671-871 3" 1V Drive Kit |
| 598B3S2 | 429 Boss Ford 671-871 3" 2V Drive Kit |
| 598B3S3 | 429 Boss Ford 671-871 3" 3V Drive Kit |

OLDSMOBILE

Drive kits for the 671 and 871 are available for most V8 engines manufactured by Oldsmobile. Customers with external or neutral balanced engines are required to send their stock factory balancer along with their order so that it may be converted for use with the blower system. Accessory vee grooves are available for water pump, alternator, power steering, and air conditioning. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| 335 | Part No. | Description |
|-----|----------|--|
| | 606-3S1 | Oldsmobile 350-403 3* 1V 671 Drive Kit |
| | 606-3S2 | Oldsmobile 350-403 3" 2V 671 Drive Kit |
| | 606-3S3 | Oldsmobile 350-403 3" 3V 671 Drive Kit |
| | 618-3S1 | Oldsmobile 455 3" 1V 871 Drive Kit |
| | 618-3S2 | Oldsmobile 455 3" 2V 871 Drive Kit |
| | 618-3S3 | Oldsmobile 455-3" 3V 871 Drive Kit |
| | | |

PONTIAC

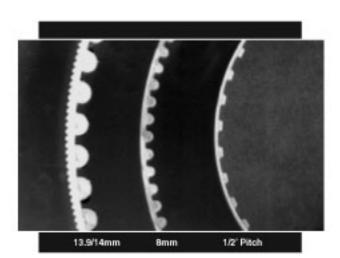
Drive kits for the 871 are available for most V8 engines manufactured by Pontiac. This drive kit includes neutral balance steel crank hub. The drive kit utilizes stock vee grooves in conjunction with BDS pulleys. Some factory brackets may need to be moved or modified for clearance of the blower system. See BDS pricing for upgrade options.

| Part No. | Description | |
|----------|-------------------------------------|--|
| 708-3S1 | Pontiac 400-455 3" 1V 871 Drive Kit | |
| 708-3S2 | Pontiac 400-455 3" 2V 871 Drive Kit | |
| 708-3\$3 | Pontiac 400-455 3" 3V 871 Drive Kit | |



BDS BLOWER BELTS





BDS offers one of the widest selection of blower belt sizes and styles available. Replacement belts are available for almost any application. There are three basic belt designs and a variety of different lengths and widths. The correct belt style and length are critical to belt performance and life. To determine the correct style of belt for your application, refer to the picture and explanations. Once you have determined the correct style for your application, please refer to the BDS Engine Belt size chart in this catalog.

1/2 PITCH, SQUARE TOOTH STYLE

This is the most common rubber belt style and has been in use since the 1950's on blower systems. Commonly referred to as a "Gilmer" belt. It is designed to be used in mild applications with 471 and 671 blowers with drive ratios up to 15% overdrive. Higher drive ratios and larger blowers may cause this style of belt to jump teeth and or break.

8mm, ROUND GT TOOTH STYLE

The 8mm rounded tooth style rubber power grip belt is capable of transferring more horsepower than the 1/2 pitch style. The 8mm belt is used for looks as well as performance. BDS recommends that the 8mm style belt be used in all blower applications running 15% and up to approximately 35% overdrive. When higher drive ratios are used it can shortened belt life expectancy.

13.9mm & 14mm ROUND GT TOOTH STYLE

The 13.9mm and 14mm rounded tooth polychain is the strongest style blower belt available. These belts are designed for high performance competition style blower systems and are used on the majority of top alcohol and top fuel racers. These belts are manufactured from a special polyurethane material lined with kevlar for maximum strength. You should never use a 13.9mm pulley with a 14mm belt, or a 14mm pulley with a 13.9mm belt.

1/2 PITCH BELTS

| 0 | Part No. | Description |
|---|----------|--|
| | 480H200 | 96T, 48" x 2", 1/2" Pitch Blower Belt |
| | 480H300 | 96T, 48" x 3", 1/2" Pitch Blower Belt |
| | 510H200 | 102T, 51" x 2", 1/2" Pitch Blower Belt |
| | 510H300 | 102T, 51" x 3", 1/2" Pitch Blower Belt |
| | 540H200 | 108T, 54" x 2", 1/2" Pitch Blower Belt |
| | 540H300 | 108T, 54" x 3", 1/2" Pitch Blower Belt |
| | 555H200 | 111T, 55.5" x 2", 1/2" Pitch Blower Belt |
| | 555H300 | 111T, 55.5" x 3", 1/2" Pitch Blower Belt |
| | 560H200 | 112T, 56" x 2", 1/2" Pitch Blower Belt |
| | 560H300 | 112T, 56" x 3", 1/2" Pitch Blower Belt |
| | 570H200 | 114T, 57" x 2", 1/2" Pitch Blower Belt |
| | 570H300 | 114T, 57" x 3", 1/2" Pitch Blower Belt |
| | 585H200 | 117T, 58.5" x 2", 1/2" Pitch Blower Belt |
| | 585H300 | 117T, 58.5 x 3", 1/2" Pitch Blower Belt |
| | 600H200 | 120T, 60" x 2" 1/2" Pitch Blower Belt |
| | 600H300 | 120T, 60" x 3" 1/2" Pitch Blower Belt |
| | 630H200 | 126T, 63" x 2" 1/2" Pitch Blower Belt |
| | 630H300 | 126T, 63" x 3" 1/2" Pitch Blower Belt |
| | 660H200 | 132T, 66" x 2" 1/2" Pitch Blower Belt |
| | 660H300 | 132T, 66" x 3" 1/2" Pitch Blower Belt |
| | 700H200 | 140T, 70" x 2" 1/2" Pitch Blower Belt |
| | 700H300 | 140T, 70" x 3" 1/2" Pitch Blower Belt |
| | 6350 | Cut Belt Width to Size |

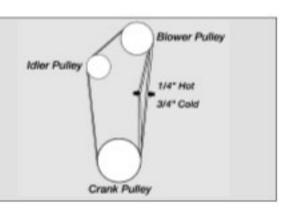
8mm BLOWER BELTS

| Part No. | 8mm BL | Description |
|------------|---|--|
| 10408M30 | | 130T, 40.9" x 1 3/8" 8mm Blower Belt |
| 10408M50 | | 130T, 40.9" x 2" 8mm Blower Belt |
| 10408M75 | | 130T, 40.9" x 3" 8mm Blower Belt |
| 11208M30 | | 140T, 44.1" x 1 3/8" 8mm Blower Belt |
| 12008M30 | | 150T, 47.2' x 1 3/8' 8mm Blower Belt |
| 12008M50 | | 150T, 47.2" x 2" 8mm Blower Belt |
| 12008M75 | | 150T, 47.2" x 3" 8mm Blower Belt |
| 12808M30 | | 160T, 50.4" x 1 3/8" 8mm Blower Belt |
| 12808M50 | | 160T, 50.4" x 2" 8mm Blower Belt |
| 12808M75 | | 160T, 50.4" x 3" 8mm Blower Belt |
| 13608M50 | | 170T, 50.4" x 2" 8mm Blower Belt |
| 13608M75 | | 170T, 53.54" x 3" 8mm Blower Belt |
| 14408M50 | | 180T, 56.69" x 2" 8mm Blower Belt |
| 14408M75 | | 180T, 56.69" x 2" 8mm Blower Belt |
| | | Control Programme and the Control of |
| 15208M50 | | 190T, 59.84 x 2" 8mm Blower Belt |
| 15208M75 | | 190T, 59.84" x 3" 8mm Blower Belt |
| 16008M50 | | 200T, 62.99" x 2" 8mm Blower Belt |
| 16008M75 | | 200T, 62.99" x 3" 8mm Blower Belt |
| GT16008M50 | | 200T, 62.99" x 2" 8mm Blower Belt, Polychain |
| GT16008M75 | | 200T, 62.99" x 3" 8mm Blower Belt, Polychain |
| 16968M50 | | 212T, 66.7" x 2" 8mm Blower Belt |
| 16988M75 | | 212T, 66.7" x 3" 8mm Blower Belt |
| 17608M50 | | 220T, 69.29" x 2" 8mm Blower Belt |
| 17608M75 | | 220T, 69.29" x 3" 8mm Blower Belt |
| GT17608M50 | | 220T, 69.29" x 2" 8mm Blower Belt, Polychain |
| GT17608M75 | 100000000000000000000000000000000000000 | 220T, 69.29" x 3" 8mm Blower Belt, Polychain |
| 18008M50 | | 225T, 70.87" x 2" 8mm Blower Belt |
| 18008M75 | | 225T, 70.87" x 3" 8mm Blower Belt |
| 20008M75 | | 250T, 78.4" x 3" 8mm Blower Belt |
| 6350 | | Cut Belt Width to Size |
| | 13.9mm B | SLOWER BELTS |
| Part No. | | Description |
| 1543-65HT | | 111T, 60.75" x 2.56" 13.9mm Blower Belt, Polychain |
| 1543-75HT | | 111T, 60.75" x 3" 13.9mm Blower Belt, Polychain |
| | 14mm Bl | LOWER BELTS |
| Part No. | | Description |
| 140014M75 | | 100T, 55.12" x 3" 14mm Blower Belt, Polychain |
| 1568-75GT | | 112T, 61.73" x 3", 14mm Blower Belt, Polychain |
| 181014M75 | | 115T 83 88" v 3" 14mm Blower Belt Polychain |

| Part No. | | Description | |
|-----------|--|--|--|
| 140014M75 | | 100T, 55.12" x 3" 14mm Blower Belt, Polychain | |
| 1568-75GT | | 112T, 61.73" x 3", 14mm Blower Belt, Polychain | |
| 161014M75 | | 115T, 63.68" x 3" 14mm Blower Belt, Polychain | |
| 169414M75 | THE PERSON OF TH | 121T, 66.69" x 3" 14mm Blower Belt, Polychain | |
| 177814M75 | | 127T, 70.00" x 3" 14mm Blower Belt, Polychain | |
| 189014M75 | | 135T, 74.4" x 3" 14mm Blower Belt, Polychain | |
| 6350 | | Cut Belt Width to Size | |

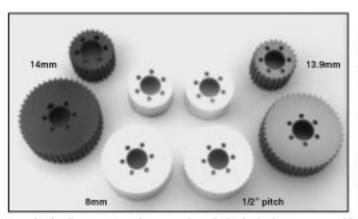
BELT TENSION

Proper belt tension is essential to the longevity of the blower belt and pulleys utilized in the BDS drive systems. The diagram shows the proper method for checking belt tension. Final belt tension should be checked and verified only when the motor has reached its normal operating temperature. If the belt is too tight, it puts excessive strain on the crank shaft and drive snout, resulting in the failure of one or both parts as well as causing excessive belt and pulley wear. If the belt is too loose it may cause the belt to ratchet or jump teeth causing belt failure.





BDS BLOWER PULLEYS



BDS offers one of the largest selections of blower pulley styles and sizes available. All blower pulleys are manufactured from billet aircraft aluminum alloy 6061 and are T6 heat treated ensuring performance and durability. Manufactured to the tightest tolerances in the industry. BDS blower pulleys are guaranteed to mesh properly with the belt, reducing excessive wear and drag on the entire drive system. The pulleys are polished on the face and edge for show quality appearance. 13.9mm and 14mm style pulleys are hard anodized for additional wear resistance. Hard anodizing is available as an option on the 1/2 pitch and the 8mm style pulleys. Each pulley is stamped with the number of teeth for easy identification and is manufactured 3.5" wide with a

two inch diameter register and a six hole bolt pattern, with a 2.760" BDS bolt pattern. This design allows the BDS pulleys to be used as replacement parts for a majority of the blower systems manufactured today. Some blower manufacturers' pulley designs are not compatible with the standard BDS pulleys, however, in most cases, the BDS pulleys can be modified to work with almost any system.

1/2 PITCH PULLEYS

| Part No. | Description |
|----------|--|
| 6300 | Cut Pulley to size |
| 6330 | 30T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6331 | 31T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6332 | 32T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6333 | 33T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6334 | 34T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6335 | 35T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6336 | 36T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6337 | 37T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6338 | 38T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6339 | 39T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6340 | 40T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |
| 6341 | 41T x 3-1/2", 1/2" Pitch Billet Aluminum Blower Pulley |

8mm PULLEYS

| Part No. | 0.500.0000.0000.0000 | Description |
|----------|----------------------|--|
| 6300 | | Cut Pulley to size |
| 6843 | | 43T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6844 | | 44T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6845 | | 45T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6846 | | 46T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6847 | | 47T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6848 | | 48T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6849 | | 49T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6850 | | 50T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6851 | | 51T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6852 | | 52T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6853 | | 53T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6854 | | 54T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6855 | | 55T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6856 | | 56T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6857 | | 57T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6858 | | 58T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6859 | | 59T x 3-1/2" 8mm Billet Aluminum Blower Pulley |



BDS BLOWER PULLEYS (CONTINUED)

| Part No. | | Description |
|--------------|---|---|
| 6860 | | 60T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6861 | | 61T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6862 | | 62T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6863 | | 63T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6864 | | 64T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6865 | | 65T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6866 | | 66T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6867 | | 67T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6868 | | 68T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6869 | | 69T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| 6870 | | 70T x 3-1/2" 8mm Billet Aluminum Blower Pulley |
| | 13.9mm PULLEY | |
| Part No. | | Description |
| 6300 | | Cut Pulley to size |
| 6925 | | 25T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6926 | | 26T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6927 | | 27T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6928 | | 28T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6929 | | 29T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6930 | | 30T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6931 | | 31T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6932 | | 32T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6933 | | 33T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6934 | | 34T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6935 | | 35T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6936 | | 36T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6937 | | 37T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6938 | | 38T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6939 | | 39T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6940 | | 40T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6941 | | 41T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6942 | | 42T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6943 | | 43T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6944 | | 44T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| 6945 | | 45T x 3-1/2" 13.9mm Billet Aluminum Blower Pulley |
| | NOTE: 13.9mm pulleys should ne | |
| Part No. | 14mm PULLEYS | (Black Hard Anodized) Description |
| 6300 | | |
| | *************************************** | Cut Pulley to size |
| 6725 | | 25T x 3-1/2" 14mm Billet Aluminum Blower Pulley |
| 6726 | | 26T x 3-1/2" 14mm Billet Aluminum Blower Pulley |



6727

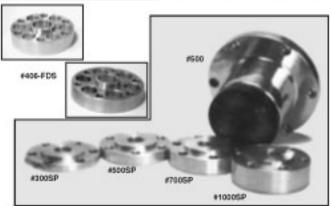
27T x 3-1/2" 14mm Billet Aluminum Blower Pulley

BDS BLOWER PULLEYS (CONTINUED)

| Part No. | | Description | |
|----------|---|---|--|
| 6728 | (| 28T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6729 | | 29T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6730 | | 30T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6731 | | 31T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6732 | | 32T x 3-1/2* 14mm Billet Aluminum Blower Pulley | |
| 6733 | | 33T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6734 | | 34T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6735 | | 35T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6736 | | 36T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6737 | | 37T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6738 | | 38T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6739 | | 39T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6740 | | 40T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6741 | | 41T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6742 | | 42T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6743 | | 43T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6744 | | 44T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6745 | | 45T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| 6746 | | 46T x 3-1/2" 14mm Billet Aluminum Blower Pulley | |
| | | | |

NOTE: 14mm pulleys should never be used with a 13.9mm belt

BDS PULLEY SPACERS



BDS pulley spacers are manufactured from the same high quality aircraft aluminum alloy as the blower pulleys. Machined to precise specifications, there are a variety of sizes that may be mixed and stacked together to provide the necessary spacing for almost any application. The spacers have the same two inch register and six hole universal pattern as our blower pulleys. Spacers longer than two inches in total length are not recommended due to the additional stresses induced on the drive assembly. Extreme care should be used when installing pulley spacers, making sure they are installed flat and straight, eliminating excessive "pulley wobble".

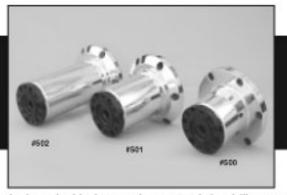
BLOWER DRIVE PULLEY SPACERS

| Part No. | Description |
|----------|---|
| 300SP | .300" Blower Pulley Spacer. |
| 400SP | .400" Blower Pulley Spacer, Special order. |
| 406-FDS | Gear coupler spacers for front discharge blowers. |
| 500SP | .500" Blower Pulley Spacer. |
| 600SP | .600" Blower Pulley Spacer, Special order. |
| 700SP | .700" Blower Pulley Spacer. |
| 800SP | .800" Blower Pulley Spacer, Special order. |
| 900SP | .900" Blower Pulley Spacer, Special order. |
| 1000SP | 1.000" Blower Pulley Spacer. |
| 1400SP | 1.400" Blower Pulley Spacer, Special order. |



| 第DS BLOWER DRIVE COMPONENTS|





BDS high performance street blower drive components are designed with the toughness and durability required for the most demanding of blower drive systems. The drive snouts utilize a heavy-duty double ball bearing and heavy-duty oil seal. The snout housing is made from aircraft billet aluminum and the snout shaft is made from 4100 series heat treated steel. The 1-1/8" -48 male spline of the shaft connects to the blower gear coupler bolted to the face of the blower gear. Designed to bolt directly to a stock style blower gear cover, the drive snouts are available in three standard lengths and combined with our pulley spacers, there is a wide variety of drive spacing available to accommodate almost any application.

BDS DRIVE SNOUTS

| Part No. | Description |
|----------|--|
| 500 | 3-3/4" billet aluminum blower short drive snout with 2.760" BDS bolt pattern two inch diameter pulley register has a 1-1/8" -48 spline shaft. The snout comes with mounting bolts (5/16-18 thread), o-ring, and instructions. This snout requires the #407 Gear Coupler. |
| 501 | 5-3/4" billet aluminum blower medium drive snout with 2.760" BDS bolt pattern and two inch diameter pulley register has a 1-1/8" -48 spline shaft. The snout comes with mount ing bolts (5/16-18 thread), o-ring, and instructions. This snout requires the #407 Gear Coupler. |
| 502 | 8-1/8" billet aluminum blower long drive snout with 2.760" BDS bolt pattern and two inch diameter pulley register has a 1-1/8" -48 spline shaft. The snout comes with mounting bolts (5/16-18 thread), o-ring, and instructions. This snout requires the #402 Gear Coupler. |
| 510 | 3.930" competition short super snout with 2.76" BDS bolt pattern and two inch diame ter pulley register has a 1-1/4" -48 spline shaft. The snout comes with mounting bolts (5/16-18 thread), o-ring, and instructions. This snout requires #410 gear coupler. Specify street or race application. |
| 511 | 5.700" competition medium super snout with 2.76" BDS bolt pattern and two inch diam eter pulley register has a 1-1/4" -48 spline shaft. The snout comes with mounting bolts (5/16-18 thread), o-ring, and instructions. This snout requires #411 gear coupler. Specify street or race application. |
| 512 | 7.125" competition long super snout with 2.76" BDS bolt pattern and two inch diameter pulley register has a 1-1/4"-48 spline shaft. The snout comes with mounting bolts (5/16- 18 thread), o-ring, and instructions. This snout requires #412 gear coupler. Specify street or race application. |

BDS DRIVE SNOUT REPLACEMENT PARTS

| Part No. | Description |
|----------|---|
| 500BK | Bearing and seal kit for #500, 501 and 502 drive snout. |
| | Includes bearing, seal, shaft snap ring, and housing snap ring. |
| 500BG | Snout bolts and gasket for #500, 501, 502, 510 and 511. |
| 500G | Drive snout gasket for #500, 501 and 502 drive snout. |
| 500-1 | Billet aluminum drive snout housing for #500 drive snout. |
| 500-2 | Drive snout housing snap ring for #500, 501 and 502 |
| | drive snout. |
| 500-3 | Drive snout oil seal for #500, #501 and #502 drive snout. |
| 500-4 | Drive snout bearing for #500, #501 and #502 drive snout. |
| 500-5 | Steel drive shaft 1 1/8"-48 splines for the #500 drive shout. |



BDS DRIVE SNOUT REPLACEMENT PARTS (CONTINUED)

| Part No. | Description |
|----------|--|
| 500-6 | Drive snout shaft snap ring. |
| 500-7 | Snout housing o-ring. |
| 501-1 | Billet aluminum snout housing for the #501 drive snout. |
| 501-5 | Steel drive shaft 1 1/8"-48 splines for the #501 and #502 drive shout. |
| 502-1 | Billet aluminum snout housing for the #502 drive snout. |
| 510-1 | Super Snout Housing, Short |
| 510-2 | Super Snout Housing Snap Ring |
| 510-3 | Super Snout Seal |
| 510-4 | Super Snout Bearing (2 required) |
| 510-5 | Super Snout Shaft 1 1/4"-48 splines, Short |
| 510-6 | Super Snout Shaft Snap Ring |
| 511-1 | Super Snout Housing, Medium |
| 511-5 | Super Snout Shaft 1 1/4"-48 splines, Medium |
| 512-1 | Super Snout Housing, Long |
| 512-5 | Super Snout Shaft 1 1/4"-48 splines, Long |

BDS BLOWER DRIVE GEAR COUPLERS

| | Part No. | Description |
|-----|----------|---|
| | 402 | Steel gear coupler 4.250 "long, 1 1/8"-48 male splines bolts to the face of the blower gear and connects the #502 snout shaft to the blower. Includes bolts, washers, and instructions. |
| | 407 | Steel gear coupler fits 1 1/8"-48 male splines 1.800" long, with dual bolt patterns 1.750", bolts to the face of the blower gear and connects the #500-5 and the #501-5 shout shaft to the blower.Includes bolts, washers and instructions. Available for front discharge blowers gear coupler spacer (.700"). Use Part # 406FDS. |
| | 410 | Competition short steel gear coupler, fits 1 1/4-48 male splines that bolts to the face of the blower gear and connects the #510-2 shout shaft to the blower,includes bolts, washers and instructions. |
| | 411 | Competition medium steel gear coupler, fits 1 1/4-48 male splines that bolts to the face of the blower gear and connects the #511-5 shout shaft to the blower includes bolts, washers and instructions. |
| | 412 | Competition long steel gear coupler, fits 1 1/4-48 male splines that bolts to the face of the blower gear and connects the #512-5 shout shaft to the blower includes bolts, washers and instructions. |
| | 425 | 2.8' Long Gear Coupler, fits 1 1/4-48 male splines. |
| | 426 | 3.8" Long Gear Coupler, fits 1 1/4-48 male splines. |
| 376 | 430 | 4.2" Long Gear Coupler, fits 1 1/4-48 male splines. |

BDS TIMING ACCESSORIES

| Part No. | Description |
|----------|---|
| #198-S | Chevy SB timing pointer for BDS degree wheel |
| #198-B | Chevy BB timing pointer for BDS degree wheel |
| #199 | BDS timing degree wheel for supercharged motors. Only 1/16 of an inch thick overall, add 0.050 thousands thick in spacing, this 7 inch diameter black anodized "Lazer Etched" degree wheel installs between the first vee pulley and the crank hub. With marks every 2 degrees and with larger marks every 10 degrees, using this wheel eases the chore of setting the ignition timing. |
| #199K | Timing pointer and degree wheel kit. (Specify SB/BB) |





■ 33DS ACCESSORY VEE GROOVE PULLEYS

BDS accessory vee grooves are made from billet 6061 aircraft aluminum and T6 heat treated for durability. The vee groove pulleys are sold individually and are designed to stack together along with the pulley spacers to allow the use of multiple vee grooves and special spacing, when required. The vee grooves are .700" wide with a diameter of 6.25".



| Part No. | Description | |
|-------------|---|--------------|
| 150-12 | Aluminum vee groove pulley with 1/2" center hole for the crank bolt. (Chovy) | |
| 150-12-BB-1 | Aluminum vee groove pulley for Chevy BB with stock bolt pattern. | |
| 150-12-BB-2 | Aluminum 2 vee groove pulley for Chevy BB with stock bolt pattern. | |
| 150-12-SB-1 | Aluminum vee groove pulley for Chevy SB with stock bolt pattern. | - |
| 150-12-SB-2 | Aluminum 2 vee groove pulley for Chevy SB with stock bolt pattern. | |
| 150-34 | Aluminum vee groove pulley with 3/4" center hole for the crank bolt. (Chrys) | |
| 150-58 | Aluminum vee groove pulley with 5/8" center hole for the crank bolt. (Ford) | Market Prof. |
| 150-73 | Aluminum 3 vee groove pulley for marine applications only. Black hard anodized and they are 2.250" wide with a diameter of 5". | |
| 150-SP | Aluminum accessory serpentine 6 ribbed pulley, 1-1/4" wide with a 6-7/8" diameter. The pulley has a dual bolt pattern, stock and BDS. | #150- |

那DS IDLER PULLEYS



BDS Idler Pulleys are made from billet 6061 aircraft aluminum and T6 heat treated for outstanding durability and performance. The 2" and 3" idler pulleys utilize two, single row, factory lubricated, rubber sealed ball bearings pressed into the idler housing. The belt running surface of the idler has been "crowned" in the center to help keep the blower belt centered in the idler pulley and on track. The 5/8" idler pulley mounting bolt is not supplied with the idler pulley due to the various length requirements for different mounting applications.

| Part No. | Description |
|----------|---|
| 2002 | 2" wide, 4.3" diameter, polished billet aluminum idler pulley assembly. Includes 2 sealed |
| | bearings, idler pulley standoff and heavy duty washer. |
| 2002-0 | 2" wide, 4.3" diameter, polished billet aluminum idler pulley housing. |
| 3002 | 3" wide, 4.3" diameter, polished billet aluminum idler pulley assembly. Includes 2 sealed |
| | bearings, idler pulley standoff, and heavy duty washer. |
| 3002-0 | 3" wide, 4.3" diameter, polished billet aluminum idler pulley housing. |
| 3002-1 | Black hard anodized billet aluminum idler pulley standoff for 2" and 3" wide idler pulleys. |
| 3002-2 | Heavy duty hardened steel washer for 2" and 3" idler pulleys. |
| 3002-3 | Snap ring for the 2" and 3" idler pulley housing. |
| 3002-4 | Single row, rubber sealed, factory lubricated idler pulley bearing. Two are required for each |
| | idler pulley. |
| 3002HA | Same as 3002 except it is black hard anodized. |



■ **BDS** IDLER BRACKETS & HARDWARE

BDS Idler brackets and idler arms are made from billet 6061 aircraft aluminum plate and T6 heat treated for added strength. There is a blower mounted bracket, a snout mounted idler arm, and a block mounted bracket available for various idler mounting requirements. The brackets are available by themselves or as a complete bracket kit that includes all the necessary mounting hardware.



#600KD-1



#605K



#606K



#607

| Part No. | Description | |
|--------------|--|--|
| 312-40591 | 5/16-18 x 4 1/2" Socket head bolts. | |
| 600 | Idler pulley bracket mounting plate that is designed to bolt | |
| 000.4 | directly to the blower. | |
| 600-1 | .200" Aluminum idler bracket spacer for blower mounted idler bracket. | |
| 600-1-BB | New BDS Chevy SB/BB billet idler bracket only. This bracket has extra thickness design to support higher horespower application. (Photo pg 59) | |
| 600-1-BB-2 | BDS new polished Chevy BB shout and front cover mounted billet idler bracket. (Photo pg 59) | |
| 600-2 | 1.250" Aluminum idler bracket spacer for blower mounted idler bracket. | |
| 625-40081 | 5/8-11x 4" Idler pulley mounting bolt for idler arm. | |
| 625-40082 | 5/8-18 x 4" Hex bolts for brackets with tee nuts. | |
| 625-40581 | 5/8-11 x 4-1/2" Idler pulley mounting bolt for idler arm. | |
| 625-40582 | 5/8-18 x 4 1/2" Hex bolts for brackets with tee nuts. | |
| 625-50081 | 5/8-11 x 5" Idler pulley mounting bolt for idler arm. | |
| 625-50581 | 5/8-11 x 5-1/2" Idler pulley mounting bolt for idler arm. | |
| 600KD-1 | Billet idler bracket assembly that bolts to the front of the blower for 1V drive assemblies, includes plate, mounting bolts, washers, spacers, idler mounting bolt, and tee nut. | |
| 600-KD-2 | Billet idler bracket assembly that bolts to the front of the blower for 2V drive assemblies. Includes plate, mounting bolts, washers, spacers, idler mounting bolt, and tee nut. | |
| 600-KD-1-BB | | |
| 600-KD-1-BB- | 2 BDS new polished snout and front cover mounted billet idler bracket kit. Includes polish plate, stand offs, mounting bolts, washers, idler mounting bolts and tee nut. (Photo pg 59) | |
| 606 | Small block Chevy competition billet idler bracket. | |
| 606K | Small block Chevy competition billet idler bracket kit. Designed to bolt to the block. Includes spacers, bolts and tee nut. | |

| Part No. | Description | |
|-----------|--|--|
| 325-30091 | 3/8-16 x 3" Socket head bolts. | |
| 602-2 | Water pump block off plate for 454 Chevy. For use with #602 idler bracket. | |
| 604K | Chevy BB competition billet idler bracket designed to bolt to the block. Includes spacers, bolts and tee nut. | |
| 605 | Billet idler pulley mounting bracket for 454 Chevy that is designed to bolt to the block. | |
| 605K | Billet idler pulley mounting bracket kit for 454 Chevy designed to bolt to the block. Includes spacers, bolts and tee nut. | |
| 610 | .400" Idler pulley spacer designed to mount between the idler pulley standoff and the idler bracket or arm. | |
| 620 | .700" Idler pulley spacer design to mount between the idle pulley standoff and the idler bracket or arm. | |
| 630 | 1" Idler pulley spacer designed to mount between the idle pulley standoff and the idler bracket or arm. | |
| 640 | 1.4" Idler pulley spacer designed to mount between the idler pulley standoff and the idler bracket or arm. | |
| 690 | Idler pulley tee nut with 5/8-18 thread for mounting the idler pulley to the bracket. | |
| | | |

| I MILLIAM. | Decemption |
|------------|--|
| 607 | Billet aluminum idler arm with 5/8-11 thread that is designed to clamp to the #500, 501, or 502 drive snout. To mount the arm onto any other drive snout, the snout diameter where the |
| | arm is to clamp, must be machined to 3.370". |
| 375-20591 | 3/8-16 x 2-1/2" Socket head bolt for mounting the idler arm. |
| 609BG | New BDS belt guard. (Photo pg 40). |
| | |

Description

BDS CRANK HUBS



BDS crank hubs are made from 4100 series aircraft alloy hardened steel, designed to replace the stock factory harmonic balancer for blower applications only, and are necessary for proper operation and longevity of the complete blower drive assembly. Factory harmonic balancers are not designed to handle the additional stress of driving a supercharger along with other accessories. They will normally crack or break near the keyway, and come off the engine causing



severe damage. The crank shaft, water pump, radiator, fenders are all subject to damage, including anything else near the front of the motor.

After market harmonic balancers are capable of withstanding the additional stress of a blown motor even in high performance applications. These highly effective harmonic dampeners are considerably heavier than the BDS steel crank hubs and therefore may not be desirable for all applications. Some modifications to the blower drive system are required in order for the lower drive assembly to bolt directly to the after market balancer. Since there are numerous configurations of after market balancers available, you will be required to send your after market balancer to us so that we may make the necessary modifications to the blower drive assembly.

BDS also recommends using two keys along with the crank hub to prevent the hub from spinning on the crank snout. All BDS crank hubs come equipped with a stock size keyway and a 1/4" keyway located 180 degrees from the stock size keyway. Key stock material is not supplied. Stock single keys are not adequate, especially if the blower drive ratio and RPM's of the motor are high. Using the stock keyway and a second 1/4" keyway is highly recommended for all applications, and a requirement for high performance or racing systems.

| Part No. | Description |
|----------|---|
| 100 | 265-350 Chevy crank hub, neutrally balanced with six evenly spaced 3/8-16 bolt holes on |
| 00000 | a 2.760" bolt circle and a 2" center male register for pulley mounting. Includes timing tape. |
| 100C | 400 Chevy crank hub, counter-weighted, with six evenly spaced 3/8-16 bolt holes on a |
| | 2.760" bolt circle and a 2" center male register for pulley mounting. Includes timing tape. |
| 105 | 265-350 Chevy crank hub with BB Chevy crank, neutrally balanced with six evenly spaced |
| | 3/8-16 bolt holes on a 2.760" bolt circle and a 2" center male register for pulley mounting. |
| | Includes timing tape. |
| 109 | 396-427 Chevy crank hub, neutrally balanced with six evenly spaced 3/8-16 bolt holes on a |
| | 2.760" bolt circle and a 2" center male register for pulley mounting. Includes timing tape. |
| 110C | 454 Chevy crank hub, counter-weighted, with six evenly spaced 3/8-16 bolt holes |
| | on a 2.760" bolt circle and a 2"center male register for pulley mounting. Includes |
| | timing tape. |
| 111 | Chevy SB harmonic balancer with six evenly spaced 3/8-16" bolt holes on a 2.760" |
| | bolt circle and a 2" center male register for drive pulley mounting. Made to replace the |
| | factory unit, it is fully degreed, (60° BTDC to 10° ATDC). Has 2 keyways, one is stock, and |
| | the other is 1/4" located 180" from the stock size. |
| 111C | Same as #111 except counterweighted. |
| | 100C 100C 105 109 110C |



BDS CRANK HUBS (CONTINUED)

| 112 | 427 Chevy neutrally balanced harmonic balancer with six evenly spaced 3/8-16" bolt holes on a 2.760" bolt circle and a 2" center male register for pulley mounting. This pro series all steel harmonic balancer with high grade neoprene elastomer is designed to be street safe and race legal (SFI 18-1). Made to replace the factory unit, it is fully degreed, (60 degree BTDC to 10 degree ATDC) with an overall diameter of 6 3/16". It is equipped with a stock size keyway and a 1/4" |
|------|---|
| 112C | keyway located 180 degrees from the stock size. (Photo on page 33). 454 Chevy counter-weighted harmonic balancer, same as part #112 except designed for externally balanced engines. (Photo on page 33). |
| 115 | AMC neutrally balanced harmonic balancer has six evenly spaced 3/8-16 bolt holes on a 2.760" bolt circle and a 2" center male register for pulley mounting. Includes timing tape. |
| 120C | 289-302, 351C, 351M, 351W, 400M Ford crank hub, counter- weighted, with evenly spaced 3/8-16 bolt holes on a 2.760" bolt circle and a 2" center male register for drive pulley mounting. Includes timing tape. |
| 125 | 390-428 & 429-460 Ford crank hub, neutrally balanced with six evenly spaced 3/8-16 bolt holes on a 2.760" bolt circle and a 2" center male register for drive pulley mounting. Includes timing tape. |
| 135 | 318, 340, 360, 383, 440 Chrysler crank hub, neutrally balanced with six evenly spaced 3/8-16 bolt holes on a 2.760" bolt circle and a 2" center male register for drive pulley mounting. Includes timing tape. For street and competition applications. Specify application. |
| *136 | 426 Hemi Chrysler Comp. crank hub, neutrally balanced with six evenly spaced 3/8-16 bolt holes on a 2.760" bolt circle and 2" center male register for drive pulley mounting. Includes timing tape. Specify street or competition. |
| *139 | 392 Hemi Chrysler crank hub, neutrally balanced with six evenly spaced 3/8-16 bolt holes on a 2.760" bolt circle and a 2" center male register for drive pulley mounting. Includes timing tape. Specify street or competition. |
| 145C | Buick V8 steel harmonic balancer counter with counterweight. |
| 170 | 350-455 Pontiac crank hub, neutrally balanced and will accept the stock factory steel vee groove pulleys with the Pontiac six (5/16-18) bolt pattern. |
| 180 | Cadillac 500 steel crank hub with six evenly spaced 3/8-16 bolt holes on a 2.76" bolt circle and a 2" center male register for drive pulley mounting. This crank hub has two keyways. |

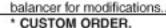
CUSTOM CRANK HUB ADAPTORS: Specially modify crank hub adaptors are available to convert stock harmonic balancer to be used on blown systems. Customer will need to supply harmonic balancer to complete the conversion.

AMC V8 crank hub adaptor, counterweighted. Customer is to supply a stock 115C balancer for modification. 231 Buick V6, counter-weighted crank hub adaptor with six evenly spaced 3/8-16 bolt *140 holes on a 2.760" bolt circle and a 2" center male register for pulley mounting. Customer is to supply a stock balancer for modifications. *145 350-455 Buick V8, counter-weighted crank hub adaptor with six evenly spaced 3/8-16 bolt holes on a 2.760" bolt circle and a 2" center male register for drive pulley mounting. Customer is to supply a stock balancer for modifications. 350 Oldsmobile crank hub adaptor, neutrally balanced with six evenly spaced 3/8-16" 160 bolt holes on a 2.760" bolt circle and a 2" center male register for drive pulley mounting. Includes timing tape. Customer is to supply a stock balancer for modifictions. 455 Oldsmobile crank hub adaptor, neutrally balanced with six evenly spaced 3/8-16 165 bolt holes on a 2.760" bolt circle and a 2" center male register for drive pulley mounting, Includes timing tape. Customer is to supply a stock balancer for modifications. 165C 455 Oldsmobile counter-weighted crank hub adaptor, with six evenly spaced 3/8-16 bolt

holes on a 2.760" bolt circle and a 2" center male register for drive pulley mounting.

215 Oldsmobile crank hub adaptor neutrally balanced. Customer is to supply a stock

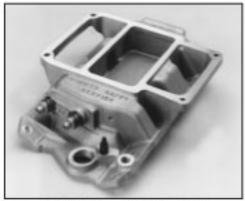
Includes timing tape. Customer to supply a stock balancer for modifications.



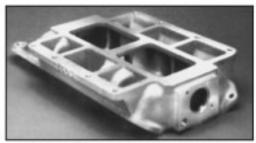


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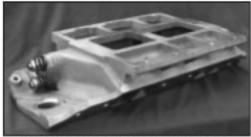
BDS BL



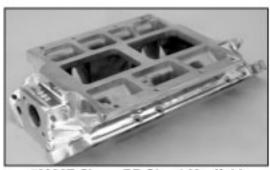
#8014 Chevy V-6 Manifold



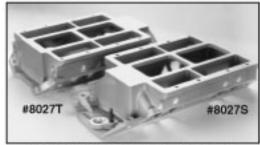
#8006 Chevy SB Street Manifold



#8026 Chevy BB Street manifold



#8026T Chevy BB Street Manifold



Chevy BB Tall Block and Standard Competition Manifold

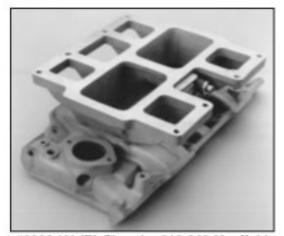
| Part No. | Description |
|----------|--|
| 8006 | 265-400 Chevy 671 blower manifold, includes back fire valve thermostat housing with 180° thermostat, water neck gasket and intake gaskets. The manifold is 3.9" high and has solid sides for added strength and rigidity, tented floor for improved airflow and |
| | is capable of accepting up to an 871 blower. An HEI distributo will not work, small diameter distributor required for 871 blower Designed for stock factory heads. Will not fit Vortech heads |
| | Specify if using a Fel Pro gasket #1206. The 471 adapto #10004 to fit on S.B. is available. (see page 59). Polish option: Part #C7080P. |
| 8006-LS | 1 New LS1 671-871 modified intake base and adaptor plate, this intake includes a backfire valve. It is 4.5" tall. If you would like to have show polish on this part, use Part# C7080P-LS1. |
| 8007-M | Chevy 265-400, 671-871 competition blower manifold. The manifold is 4.10" tall and has two 3/8" NPT water outlets on the front. It can be opened up to accept 1071 blower, and will need an offset distributor with this size blower. Designed for rectangle port heads. This manifold can be machined for backfire valve of burst panel. Specify if using a Fel Pro gasket #1206. Polisi option: Part#C7081P. (See photo on page 72.) |
| 8014 | 229-292 V6 Chevy 471 blower manifold includes back fire valve thermostat housing with 180° thermostat, and water neck gas ket. An HEI distributor will work with minor modifications. The manifold is 3.9" high and designed for stock factory heads. Polisi option: Part #C7080P. |
| 8026 | 396-454 Chevy 671/871 blower manifold, includes back fir valve, thermostat housing with 180° thermostat, water neck gas ket and intake gaskets. The manifold is 4.4" high and has soli sides for added strength and rigidity, tented floor for improve airflow, and is capable of accepting up to a 1071 blower with se back plate. An HEI distributor will not work, offset distributor required for 1071 and larger blowers. Designed for stock factory rectangle port heads. Extra material has been added around the ports to allow port matching. Will not fit Vortech heads Polish option: Part #C7080P. |
| 8026T | Same as #8026 except the manifold is designed to fit the Chev BB tall deck style block without the use of spacers. The intak is 4.10" tall. Includes backfire valve, thermostat housing, with 180° thermostat and water neck gasket. Polish option: Part #C7080P. |
| 8027S | 396-454 Chevy competition blower manifold. The manifold i 4.9" tall, has 3/4" NPT water outlets in the front, 1/2" on back solid sides for extra strength and rigidity, tented floor for improved airflow and is drilled and tapped 1/8" NPT for port noz zle injection. The manifold comes with the standard 671-87 opening and can be opened up to accept 1071, 1271 and 147 blowers. Offset distributor required for 1071 to 1471 blowers Designed for rectangle port heads. Polish option: Part #C70818 |
| 8027T | Same as #8027 except it is designed to fit the Chevy big bloc tall deck style blocks without the use of manifold spacers. The intake is 5.2" tall. Requires standard deck height distributor Polish option: Part #C7081P. |
| 8036 | 348-409 Chevy 671-871 manifold is 5 3/4 tall and includes factory style water outlet and backfire valve. Designed for sma port heads. Water neck not included. Polish option: Part #C7091P. (See photo on page 36.) |
| 8106A | AMC V8 671/871 blower manifold. The manifold is 6.2" tall an includes factory style water outlet and backfire valve. Polision: Part #C7091P (See photo on page 79) |

option: Part #C7091P. (See photo on page 72).

BDS BLOWER MANIFOLDS (CONTINUED)



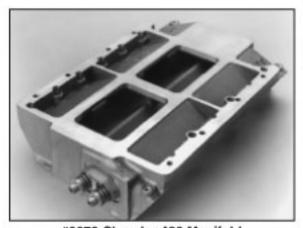
#8036 Chevy 348-409 (671-871) Manifold



#8306 (A) (B) Chrysler 318-340 Manifold



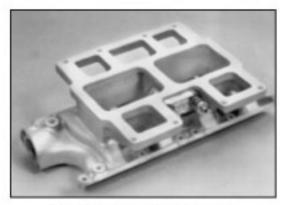
#8366 Chrysler 440 Manifold



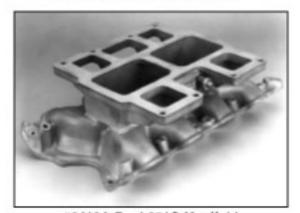
#8376 Chrysler 426 Manifold

| Part No. | Description |
|-----------|---|
| 8204A | Buick oddfire V6 471 blower manifold is 5.9" tall and |
| | includes factory style water outlet and back fire valve. |
| | Designed to fit stock factory heads. Water neck not |
| | included. Polish option: Part # /C7091P. (See page 72) |
| *8216 | 425 Buick V8 671-871 blower manifold. SPECIAL |
| | ORDER. Polish option: Part # /C7091P. |
| 8256 | 455 Buick V8 671-871 blower manifold. The manifold is |
| | 5.7" tall and includes factory style water outlet and back- |
| | fire valve. Designed for stock factory heads. Water neck |
| | not included. Polish option: Part # /C7091P. |
| NOTE: Spe | ecifications on head must be provided to choose proper intake. |
| 8306A | 273-318 Chrysler V8 66+ 671-871 blower manifold. The |
| | manifold is 5.7" tall and includes factory style water out- |
| | let and backfire valve. Designed for large port stock fac- |
| | tory heads. Water neck not included. Polish option: |
| | Part # /C7091P. |
| 8306B | 273 Chrysler V8 65- 671-871 blower manifold. The man- |
| | ifold is 5.7" tall and includes factory style water outlet and |
| | backfire valve. Designed for small port stock factory |
| | heads. Water neck not included. |
| | Polish option: Part # /C7091P. |
| 8306C | 340-360 Chrysler V8 671-871 blower manifold. The |
| 00000 | manifold is 6,960" tall and includes factory style water |
| | outlet and backfire valve. Designed for large port stock |
| | factory heads. The port size is 2.2" x 1.060". Polish |
| | option: Part # /C7091P. |
| 8356 | 383 Chrysler V8 671-871 blower manifolds. The manifold |
| 0000 | is 5.4" tall and includes factory style water outlet and |
| | backfire valve. Designed for stock factory heads. Water |
| | neck not included. Polish option: Part # /C7091P. |
| 8366 | 440 Chrysler V8 671-871 blower manifold. Competition |
| 0000 | style manifold is 3.3" tall and has a tented floor for excep- |
| | tional air flow. Includes backfire valve. |
| | Polish option: Part # /C7080P. |
| 8376 | 426 Hemi Chrysler V8 671-871 blower manifold is 4.1" |
| 83/6 | tall. Competition style manifold has tented floor and back- |
| | fire valve. Designed for factory cast iron heads. Accepts |
| | 1071-1471. Polish option: Part # /C7080P. |
| 8386 | 392 Hemi Chrysler 671-871 blower manifold is 3.8" tall. |
| 0300 | Competition style manifold includes backfire valve. |
| | Accepts 1071-1471. Polish option: Part # /C7081P. |
| 8386-H | 331,354 & 392 Herni "Hot Heads" Chrysler 671-871 |
| | 마다가 하면 어린 중인 경기 시간 경기를 다 있다. 경기 등이 되는 이 경기는 경기에 가지 않는 바다 하는 바를 가면 하는 것이다. 그리고 하는 다시 아니라 다른 사람이 되었다. |
| | blower is 6.250" tall. Runner style intake includes back- |
| | fire valve. Designed for factory cast iron heads. Accepts |
| | 671-1071. Please specify street or competition style. |
| 10404 | Polish option: Part # /C7084P. (Photo on page 72). |
| *8404 | 289-302 Ford V8 471 blower manifold. The manifold is |
| | 5.7" tall and includes factory style water outlet and back- |
| | fire valve. Requires Flat Cap style distributor |
| | (BDS#8555102 / #8570402). Water neck not included. |
| | Polish option: Part # /C7089P. |

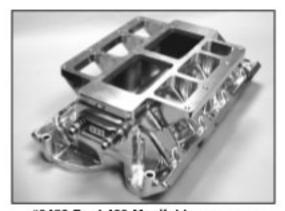
BDS BLOWER MANIFOLDS (CONTINUED)



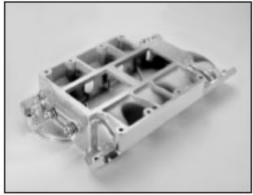
#8406 Ford 289-302 Manifold



#8416A Ford 351C Manifold



#8456 Ford 460 Manifold (Shown polished)

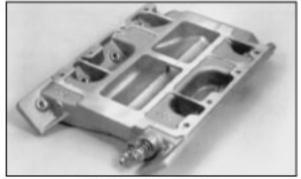


#8466B Ford manifold



| Dort No | Description |
|----------|--|
| Part No. | Description |
| 8406 | 289-302 Ford V8 671-871 blower manifold. The manifold is 5.7° tall and includes factory style water outlet and backfire valve. Requires flat cap style distributor (BDS #8555102 or #8570402). Water- |
| | neck not included. Polish option: Part # /C7089P. |
| 8416A | 351C Ford V8 671-871 blower manifold. The manifold is 5.8" tall and includes a backfire valve. Requires Flat Cap style distributor (BDS #8556702). Designed for 4 barrel factory heads. Available for 2 barrel heads. Part #8416B. Polish option: Part # /C7089P. |
| 8426 | 351W Ford V8 671-871 blower manifold. The manifold is 6.3" tall and includes a factory style water outlet and backfire valve. Requires flat cap style distributor (BDS #8555402). Designed for stock factory heads. Specify 6 or 8 bolt. (Use Part # 8427 for 8 bolt). Polish option: Part # /C7089P. |
| 8436 | 400M Ford V8 671-871 Blower Manifold. The man- ifold is 6.4" tall and includes a backfire valve. Requires flat cap style distributor (special order). Designed for factory heads. Polish option: Part # /C7089P. |
| 8446-H | 390-428 Ford V8 671-871 'Blue Thunder' Blower manifold. The manifold is 6.6" tall includes factory style water outlet and comes o-ringed. It is drilled and tapped 1/8" npt for port nozzle injection. Requires flat cap style distributor. Design for factory heads. Water neck not included. Backfire valve optional: #C7015BF, Polish option: Part # /C7087P. |
| 8456 | New BDS 429-460 Ford V8 671-871 blower manifold. This runner style intake has a tented floor for better fuel delivery. The manifold is 6.9" tall and includes a backfire valve and factory style water outlet. Designed for factory CJ heads. Water neck not included. Polish option: Part #7090-2P. |
| 8466B | Boss 429 Ford V8 671-871 blower manifold. The competition style manifold is 5.1" tall and includes a backfire valve. Requires crank trigger ignition. Designed for factory heads. Accepts 671-1471. Polish option: Part # /C7082P. |
| 8506 | 350 Oldsmobile V8 671-871 blower manifold. The manifold is 5.9" tall and includes factory style water outlet and backfire valve. Designed for stock factory heads. Water neck not included. Polish option: Part # /C7091P. |
| 8514 | 215 Oldsmobile V8 471 blower manifold. The manifold is 5.3" tall and includes factory style water outlet and backfire valve. Designed for stock factory heads. Water neck not included. Polish option: Part # /C7091P. |
| 8556 | 455 Oldsmobile V8 671 Blower Manifold. The man- ifold is 5.7" tall and includes factory style water out- let and backfire valve. Designed for stock factory heads. Water neck not included. Polish option: Part# /C7092P. |

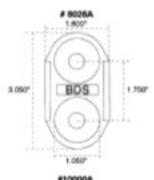
BDS BLOWER MANIFOLDS (CONTINUED)

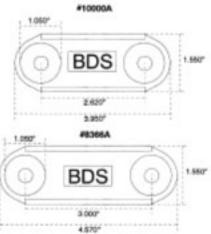


#8607 Pontiac Manifold

| Part No. | Description |
|----------|---|
| 8607 | 326-455 Pontiac V8 671 Blower Manifold. The manifold is 2.6" tall and includes the water neck, backfire valve, belly pan, intake gaskets, and necessary mounting hardware. Polish option: Part# /C7080P. |
| 8708 | Cadillac 500 Modified intake base, Specially designed to accept adaptor plate #10003 to be used with 671-871 blower. This manifold iand plate is 4.8" tall and comes with backfire valve. If you would like to show polish, use Part# C7091P. (See complete engine photo on pg. 10) |

BLOWER MANIFOLD BACKFIRE VALVES



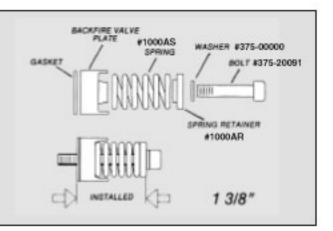


The following list includes all the parts and pieces, as well as complete blower manifold backfire valve kits. These spring loaded valves are designed to relieve the excess pressure caused by mild engine backfires. This helps prevent damage to the blower and other related components. The proper assembly and the setting of the spring pressure are shown in the following diagram.

| Part No. | Description |
|-----------|---|
| 8026A | Small Backfire Valve Plate |
| 8026AG | Small Backfire Valve Gasket |
| 8026AK | Small Backfire Valve Kit |
| 8366A | Large Backfire Valve Plate |
| 8366AG | Large Backfire Valve Gasket |
| 8366AK | Large Backfire Valve Kit |
| 10000A | Medium Backfire Valve Plate |
| 10000AG | Medium Backfire Valve Gasket |
| 10000AK | Medium Backfire Valve Kit |
| 10000AR | Aluminum Spring Retainer, universal 2 required |
| 10000AS | Backfire Valve Spring, universal 2 required |
| 8027SBP | Burst Panel Kit - SFI-23.1 |
| 375-00000 | Washer, 3/8 AN, can be used with all backfire |
| | valves, universal 2 required |
| 375-20091 | Backfire Valve Bolt, 3/8-16 x 2" Socket head, can be used with all backfire valves, universal 2 required |

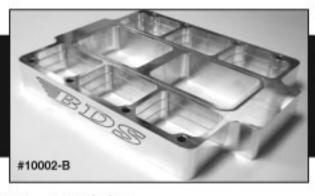
BACKFIRE VALVE INSTRUCTIONS

- Install backfire valve on the intake after the intake manifold is installed on the motor.
- Install gasket, backfire valve plate springs and spring retainers with 3/8" - USS x 2 inch bolts supplied.
- The "Installed Spring Height" should be 1-3/8
 inches from the intake manifold, to the top of the
 spring retainer.





BLOWER MANIFOLD ACCESSORIES



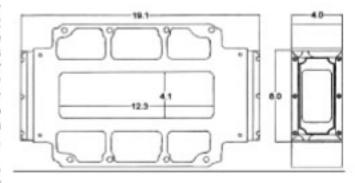


| Part No | Description |
|-----------|--|
| 125OR | 1/8" Viton O-ring material. Sold by the foot. |
| 316OR | 3/16" Viton O-ring material. Sold by the foot. |
| 671-8 | 671 Set back adapter plate, polished for front discharge blower. Includes machine work on intake or inter- cooler and o-ringing the plate. Also supplied with custom fitted 8 studs, (7/16" x 2 1/2"), washers, nuts and 8 socket bolts (7/16" x 5"). SPECIAL ORDER. |
| 871-8 | 871 Set back adapter plate, polished for front discharge blower. Includes machine work on intake or intercooler and o-ringing the plate. Also supplied with custom fitted 8 studs, (7/16" x 2 1/2"), washers nuts, and 8 socket bolts (7/16" x 5"). SPECIAL ORDER. |
| 1000-1 | Mechanical Vacuum/Boost Gauge, 2" dash mounted, round dial, 0-30" vacuum and 0-20 psi boost, has 1/8" and 1/4" NPT male connection, includes 6 foot nylon tubing. |
| 10002-B | New BDS 2" tall aluminum blower spacer plate. Blanchard ground on both sides. Includes 1/8" O-ring. Use part# C70921P for polish option. |
| 10003 | Cadillac 1/2" tall polished adapter plate with backfire valve. To be used with part#8708 |
| 10004 | 471 Adapter plate is designed to fit 671 opening to 471 blower to be used with part #8006, unpolished. (Photo on page 59). |
| 1071-8 | 1071 Set back adapter plate, polished for front discharge blower. Includes machine work on intake or intercooler and o-ringing the plate. Also supplied with custom fitted 8 studs, (7/16" x 2 1/2"), washers, nuts, and 8 socket bolts (7/16" x 5"). SPECIAL ORDER. |
| 1400 | Externally mounted thermostat housing. Accepts GM thermostat and water neck. Designed for use with manifolds that do not have provisions for a thermostat or water neck. Has three 3/4" NPT and one 1/4" NPT outlets. #1401 |
| 1401 | BDS polished aluminum water neck designed for use with Chevy and Pontiac BDS blower manifolds. Includes thermostat 180°, water neck, mounting bolts, and gasket. |
| 1471-8 | 1471 Set back adapter plate, polished. Includes machine work on intake or intercooler and o-ringing the plate. Also supplied with custom fitted 8 studs, (7/16" x 2 1/2"), washers, nuts, and 8 socket bolts (7/16" x 5"). SPECIAL ORDER. |
| 1671-8 | 1671 Set back adapter plate, polished for front discharge blower. Includes machine work on intake or intercooler and o-ringing the plate. Also supplied with custom fitted 8 studs, (7/16" x 2 1/2"), washers, nuts, and 8 socket bolts (7/16" x 5"). SPECIAL ORDER. |
| 8006IG | Intake manifold gaskets for BDS small block Chevy blower manifold #8006. |
| 8026IG | Intake manifold gaskets for BDS big block Chevy blower manifold #8026. |
| 8366IG | Chrysler 440 intake gaskets for part #8366. |
| 8607IG | Pontiac intake manifold gaskets for part# 8607. |
| 8027SBP | Blower intake burst panel kit certified for SFI 23-1. Includes frame with counter sunk screws and panel. |
| 8027SBP-1 | Burst panel only certified for SFI 23-1. |
| 8027SBP-2 | Burst panel frame with 24 counter sunk screws, measures 3-1/8" tall by 6-1/8" wide. (See photo pg 59.) |

| BLOWER | R MANIFOLD OPTIONS |
|----------|--|
| Part No. | Description |
| C7027 | Machine custom opening in manifold will need template. |
| C7028 | Machine O-Ring groove. |
| C7030 | Machine intake for burst panel. |

BLOWER INTERCOOLERS

The concept of intercooling has been around for many years. Intercooling refers to the use of a heat exchanger to reduce the engine inlet air/fuel temperature thereby increasing the AIR DENSITY. Air density refers to the amount of oxygen present in each cubic foot of air consumed by the engine. When the air is compressed by the supercharger, the air is heated. The heated air expands or it takes up more space. Cooler air takes up less space. Therefore by cooling, more air (oxygen) can be delivered to the engine. More air means more fuel, more fuel means more horsepower.



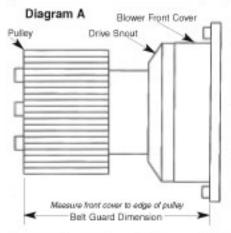
The net horsepower gain by supercharging an engine can be substantially increased by cooling the boosted air

charge delivered by the supercharger. Independent testing has shown increases of 100 horsepower or more with the use of an intercooler.

These intercoolers are designed to be placed between the intake manifold and the blower. The intercooler assembly will increase the overall height of the blower system by four inches. Installation requires longer blower mounting studs, longer belts and possibly different blower pulleys. Obviously a cool water source is also required. The cooler the water going into the intercooler, the more gain in horsepower.

| Part No. | Description |
|----------|--|
| 8910 | Intercooler/Blower steel mounting stud. 6 3/4" long, 7/16-14 on one end and |
| | 7/16-20 on the other. |
| 8911 | Same as #8910 except it is 7-3/8" long. |
| 8950 | Intercooler polished housing with end plates. |
| 8950-0 | Intercooler housing, aluminum. |
| 8961-12 | End plate (1) is 1/2" thick and is polished. |
| 8961-34 | End plate (1) is 3/4" thick and is polished. |
| 8955 | Intercooler core. Copper and brass construction for sea water compatibility, |
| | furnace braised for strength and durability. |
| 8956 | 671-871 blower intercooler. The intercooler is 4" tall and has (2) 1/2"NPT |
| | inlets in the front and (2) 1/2" NPT outlets in back, O-ring sealed, gaskets (2), |
| | 8 S.S. studs with nuts and pressure tested. Designed for water/antifreeze coolant. |
| 8958 | 1071-1471 blower intercooler. Specify opening size when ordering. The |
| | intercooler is 4" tall and has (2) 1/2" NPT inlets in the front and (2) 1/2" NPT outlets |
| | in back. O-ring sealed, gaskets (2), 8 S.S. studs with nuts and pressure tested. |
| | Designed for water/antifreeze coolant. |
| 8959 | 1671 Blower intercooler. The intercooler is 4" tall and has (2) 1/2" NPT inlets in the |
| | front and (2) NPT outlets in back. O-ring sealed, gaskets (2), 8 S.S. studs with |
| | nuts and pressure tested. Designed for water/antifreeze coolant. |

BDS BELT GUARD



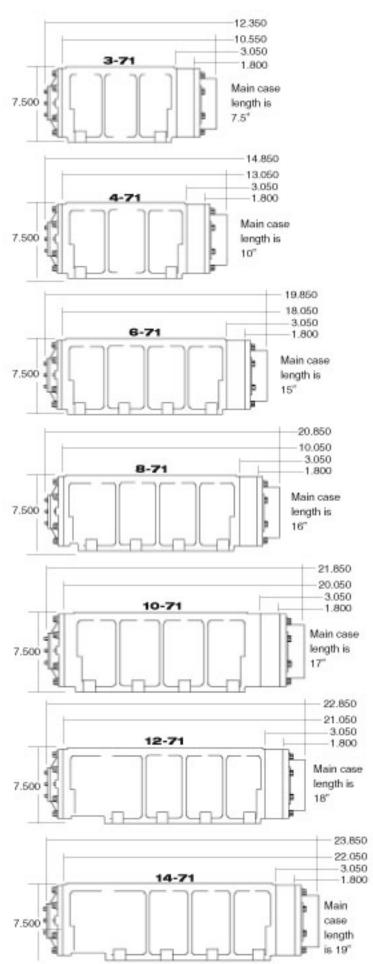
NEW BDS Blower Belt Guard, polished, includes 4 stand off's with studs, BDS face plate, front and rear plate with bolts. Covering most of the upper pulley it can protect against unwanted interference from outside of the system. This guard is designed to offer protection from the blower belt. This unique guard is universal and will fit most blower systems when you provide the dimensions of your system. (See diagram A)



Part #609BG



BDS BLOWERS



All BDS blowers are assembled by hand with heavy duty competition components. The same parts used to assemble our racing blowers are the same parts used in all of our blowers. Heavy duty bearings and special double lipped teflon seals are used to ensure long life. The heavy duty bearing plates and cases are machined to precise specifications that produce the most efficient blower possible. All BDS blowers are fully show polished as a standard feature. Unpolished blowers are a special order.

Blower Efficiency and Specific Blower Applications

In order for a supercharger to perform up to its maximum potential, it must be assembled, clearanced, and setup specifically for the application for which it will be used. BDS categorizes these differences by "Stages". Specify which Stage suits your requirements when you place your order or let the experts at BDS determine the correct Stage for you. CAUTION: failure to follow the guidelines outlined below could result in blower failure. BDS is not responsible for failures due to the improper use of blowers. The different Stages and their intended uses are as follows:

Stage 1

Used in almost all street applications using "pump gas". Capable of producing a maximum of 12-15 lbs. of boost in most systems, not exceeding engine speeds in excess of 7000 RPM.

Stage 2

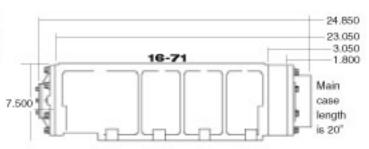
Used in high performance street systems, bracket racing, marine and/or dirty racing environments using high octane gas. The interior of the blower is hard anodized for added strength and efficiency. Capable of producing 15 lbs. of boost and more on engines turning in excess of 7500 RPM.

Stage 3

Used for high performance racing applications on gas. Hard anodized and Teflon stripped on the lips of the rotors. This blower is capable of very high boost levels and high engine RPM. Designed for street, strip and off shore systems.

Stage 4

Used for high performance racing applications using alcohol and/or nitro-methane for fuel. Hard anodized and stripped with both Nylatron and Teflon, this blower is capable of extremely high boost levels and engine RPM's. Intended for competition use only.



BDS BLOWERS (CONTINUED)



BDS pre-bench tests stage 3 & 4 blowers before shipping. They are tested to guarantee that they are mechanically ready to run.

| Part No. | Description |
|-------------|--|
| 471 | 471 Stage 1 Blower, Polished. |
| 471-BP | 471 Stage 1 Blower with billet end plates, polished. |
| 471HA | 471 Stage 2 Blower with cast end plates, polished. |
| 471HA-BP | 471 Stage 2 Blower with billet end plates, polished. |
| 471HAT | 471 Stage 3 Blower with cast end plates, polished. |
| 471HAT-BP | 471 Stage 3 Blower with billet end plates, polished. |
| 471HATT | 471 Stage 4 Blower with cast end plates, polished. |
| 671 | 671 Stage 1 Blower with cast end plates, polished. Available in small or large boxe. |
| 671-BP | 671 Stage 1 Blower with billet end plates, polished. |
| 671-BDS | BDS 671 Stage 1 Blower with billet end plates, polished. Only in large bone profile. |
| 671-AL | 671 Stage 1 Blower with Air-Loc rotors and billet end plates, polished. |
| 671HA | 671 Stage 2 Blower with cast end plates, polished. |
| 671HA-BP | 671 Stage 2 Blower with billet end plates, polished. |
| 671HA-BDS | 671 Stage 2 BDS Blower with billet end plates, polished. |
| 671HA-AL | 671 Stage 2 BDS Blower with Air-Loc rotors and billet end plates, polished |
| 671HAT | 671 Stage 3 Blower with cast end plates, polished. |
| 671HAT-BP | 671 Stage 3 Blower with billet end plates, polished. |
| 671HAT-BDS | 671 Stage 3 BDS Blower with billet end plates, polished. |
| 671HAT-AL | 671 Stage 3 BDS Blower with Air-Loc rotors and billet end plates, polished |
| 671HATT | 671 Stage 4 Blower with cast end plates, polished. |
| 671HATT-BP | 671 Stag 4 Blower with billet end plates, polished. |
| 671HATT-BDS | 671 Stage 4 BDS Blower with billet end plates, polished. |
| 671HATT-AL | 671 Stage 4 BDS Blower with Air-Loc rotors and billet end plates, polished |
| 871 | 871 Stage 1 Blower with cast end plates, polished. |
| 871-BP | 871 Stage 1 Blower with billet end plates, polished. |
| 871-AL | 871 Stage 1 Blower with Air-Loc rotors and billet end plates, polished. |
| 871HA | 871 Stage 2 Blower with cast end plates, polished. |
| 871HA-BP | 871 Stage 2 Blower with billet end plates, polished. |
| 871HA-AL | 871 Stage 2 Blower with Air-Loc rotors and billet end plates, polished. |
| 871HAT | 871 Stage 3 Blower with cast end plates, polished. |
| 871HAT-BP | 871 Stage 3 Blower with billet end plates, polished. |
| 871HAT-AL | 871 Stage 3 Blower with Air-Loc rotors and billet end plates, polished. |
| 871HATT | 871 Stage 4 Blower with cast end plates, polished. |
| 871HATT-BP | 871 Stage 4 Blower with billet end plates, polished. |
| 871HATT-AL | 871 Stage 4 Blower with Air-Loc rotors and billet end plates, polished. |

| | Part No. | Description |
|-----|-------------|---|
| | 1071HA-AL | 1071 Stage 2 Blower with Air-Loc rotors and billet end plates, polished. |
| | 1071HAT-AL | 1071 Stage 3 Blower with Air-Loc rotors with billet end plates, polished. |
| 199 | 1071HATT-AL | 1071 Stage 4 Blower with Air-Loc rotors with billet end plates, polished. |
| | 1471 HA-AL | 1471 Stage 2 Blower with Air-Loc rotors with billet end plates, polished. |
| | 1471HAT-AL | 1471 Stage 3 Blower with Air-Loc rotors with billet end plates, polished. |
| | 1471HATT-AL | 1471 Stage 4 Blower with Air-Loc rotors with billet end plates, polished. |
| | 1671HA-AL | 1671 Stage 2 Blower with Air-Loc rotors with billet end plates, polished. |
| | 1671HAT-AL | 1671 Stage 3 Blower with Air-Loc rotors with billet end plates, polished. |
| | 1671HATT-AL | 1671 Stage 4 Blower with Air-Loc rotors with billet end plates, polished. |

CUSTOM MARINE & COMPETITION BLOWERS

BDS pre-bench tests these blowers before shipping. They are tested to guarantee that they are mechanically ready to run.

These blowers are for high performance racing applications using alcohol or nitro methane fuel. They are hard anodized and the Air-Loc rotors are teflon. The front inlet and discharge bearing plate is installed with over-sized heavy duty dual angular bearings to reduce heat in prolonging bearing life. The front discharge and front inlet pocket are machined into the front bearing plate to increase efficiency through the rotors breathing and discharge cycle. This modification to the blowers will require a set back plate to re-position its mounting location on the intake delivering the most performance from the front discharge. When concentrating the discharge port opening between the front and rear intake runners, it helps air and fuel distributation throughout the intake manifold.

| Recommend for Nostalgia Top Fuel and Fun | ny Car |
|--|--------|
|--|--------|

| Part No. | Description | |
|-------------|---|--|
| 671HAT-FD | BDS 671 Stage 3 Blower, front discharge, Air-Loc rotors and billet end plates, polished. | |
| 671HATT-FD | BDS 671 Stage 4 Blower, front discharge, Air-Loc rotors and billet end plates, polished. | |
| | Recommended for nostalgia top fuel and funny car. | |
| 671NHATT-FD | BDS Nostalgia 671 Stage 4 Blower, front discharge, Air-Loc rotors and billet end plates, black hard anodized on the outside. | |

Recommend for Monster Trucks, Pro Comp, Quick 8's and 16's

| 871HAT-FD | BDS 871 Stage 3 Blower, front discharge, Air-Loc rotors and billet end plates, polished. |
|-------------|--|
| 871HATT-FD | BDS 871 Stage 4 Blower, front discharge, Air-Loc rotors and billet end plates, polished. |
| 871MHATT-FD | BDS Monster Truck 871 Stage 4 Blower, front discharge, Air-Loc rotors and billet end |
| | plates, black hard anodized on the outside of case. |

Recommend for all racing applications.

| 1071HAT-FD | BDS 1071 Stage 3 Blower, front discharge, Air-Loc rotors and billet end plates, polished. |
|-------------|---|
| 1071HATT-FD | BDS 1071 Stage 4 Blower, front discharge, Air-Loc rotors and billet end plates, polished. |

Recommend for Poker Run, Offshore Boats, Drag Boats, and 600+CID's

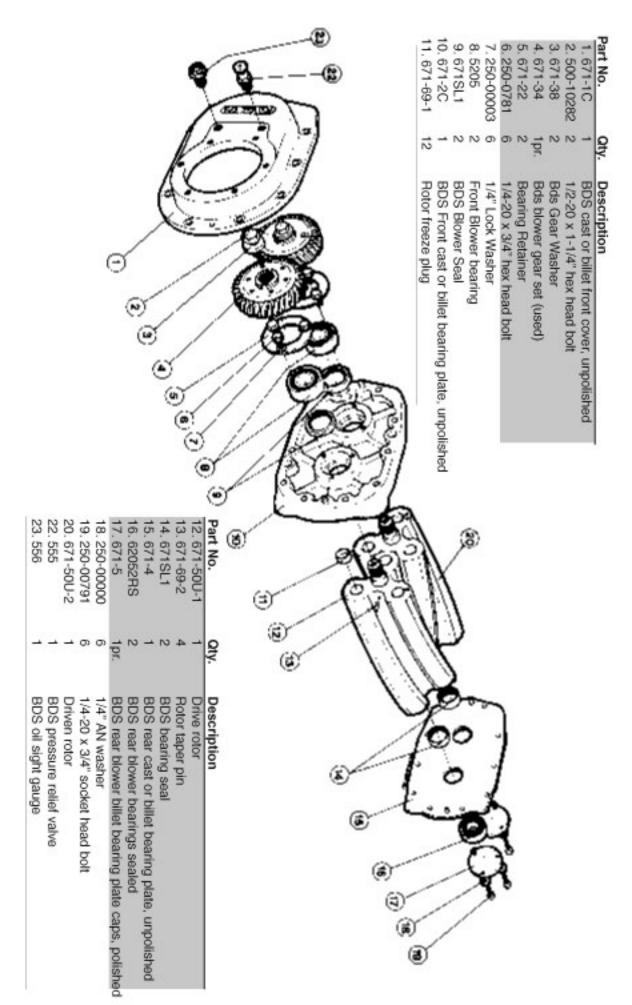
Special blower top opening is fully machined from front to rear to displace the Dominator carburetors inline, it allows fuel to evenly spray down resulting in a cooler discharge. Our customers have seen an increase of 50 horsepower. This modification requires our Marine top (part#24B6DIL).

| 1471HAT-FD 1471HATT-FD 1471MHATT-FD | BDS 1471 Stage 3 Blower, front discharge, Air-Loc rotors and billet end plates, polished. BDS 1471 Stage 4 Blower, front discharge, Air-Loc rotors and billet end plates, polished. BDS 1471 Stage 4 Marine Blower, front discharge, Air-Loc rotors and billet end plates, polished. |
|---|--|
| 1671HAT-FD | BDS 1671 Stage 3 Blower, front discharge, Air-Loc rotors and billet end plates, polished. |
| 1671HATT-FD 1671MHATT-FD | BDS 1671 Stage 4 Blower, front discharge, Air-Loc rotors and billet end plates, polished. BDS 1671 Marine Stage 4 Blower, front discharge, Air-Loc rotors and billet end plates, |
| | polished. |

NEW PRO-LOC BLOWERS Listed on page 65



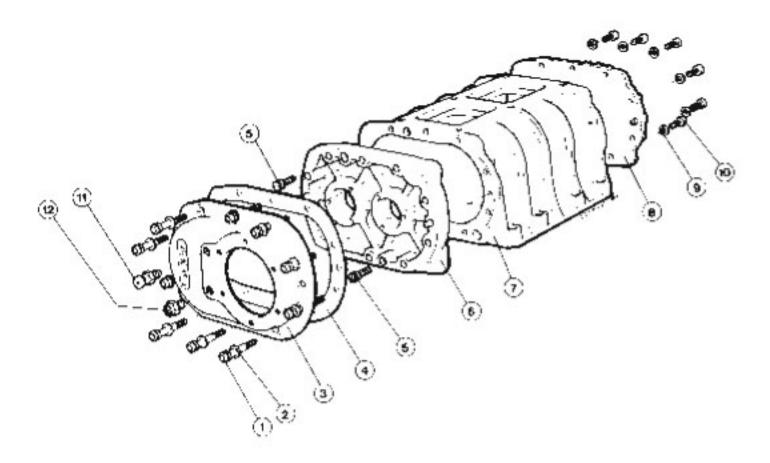
BDS INTERNAL BLOWER PARTS LISTI





■ **BDS** EXTERNAL BLOWER PARTS LIST

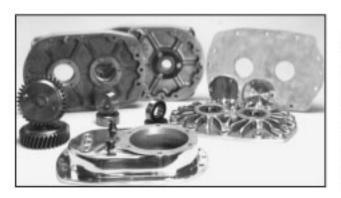
| Part No. Qty. Description 1. 312-20291 10 5/16-18 x 2 1/4" socket head bolt | | Description |
|---|----|--|
| | | 5/16-18 x 2 1/4" socket head bolt |
| 2. 312-00000 | 10 | 5/16" AN washer |
| 3. 671-1C | 1 | BDS front cast or billet cover, unpolished |
| 4. 671-1SG | 1 | BDS front cover gasket |
| 5. 312-10591 | 2 | 5/16-18 x 1-1/2" socket head bolt |
| 6. 671-2C | 1 | BDS front cast or billet bearing plate, unpolished |



| Part No. | Qty. | Description |
|--------------|------|---|
| 7. 671-30 | 1 | BDS blower case, unpolished |
| 8. 671-4 | 1 | BDS rear cast ro billet bearing plate, unpolished |
| 9.312-00000 | 10 | 5/15" AN washer |
| 10.312-10291 | 10 | 5/16-18 x 1-1/4" socket head bolt |
| 11.555 | 1 | BDS pressure relief valve |
| 12.556 | 1 | BDS oil sight gauge |



BDS BLOWER PARTS



BDS offers a complete line of high quality, heavy duty replacement blower parts and accessories for all 471 thru 1671 blowers. These replacement parts are designed to exceed the original manufacturers specifications for strength and durability. BDS uses the highest quality material and components in their manufacturing process to produce the finest blower replacement parts available in the industry. The BDS cast or billet front covers are made from aircraft aluminum and are available in both early and late GM styles, polished or unploished, individually, or as a complete front cover kit.

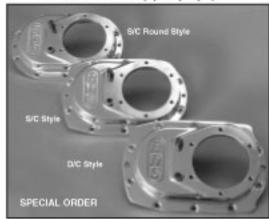
BLOWER FRONT COVERS

The BDS front covers are made from aircraft aluminum and are available in both early and late GM styles, polished or unpolished, individually or as a complete front cover kit.

| Part No. | Description | |
|---------------------|---|--|
| 671-1C | BDS cast front cover unpolished. Specify early or late GM style. | |
| 671-1C-2 671-1CK | New BDS billet aluminum front cover, unpol- ished. Designed for after market blowers. | |
| | BDS cast front cover, unpolished. Includes mounting bolts, gasket, pressure relief valve (Part #555), and oil sight gauge (Part #556). | |
| 671-1CK-2 | New BDS billet aluminum front cover, unpol- ished. Includes mounting bolts, gasket, pres- sure relief valve. (Part# 555) and oil sight gauge. (Part# 556). (photo pg 47) | |
| 671-1CKP | BDS cast front cover, polished. Includes mounting bolts, gasket, pressure relief valve (Part #555), and oil sight gauge (Part #556). | |
| 671-1CKP-2 | Same as Part #671-1CK-2 except polished. | |
| 671-1CP | Same as Part #671-1C except polished. | |
| 671-1CP-2 | Same as Part #671-1C-2 except polished. | |



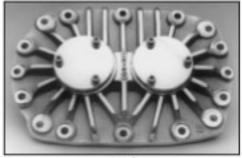
Part #671-1CKP (Specify style)



BDS BLOWER BEARING PLATES



#671-2CP



#671-4F

| Part No. | Description | | |
|-----------|--|--|--|
| 671-2C | BDS HD cast front bearing plate kit, unpolished. | | |
| 671-2C-2 | New BDS billet aluminum HD front bearing plate kit, unpolished. Designed for aftermarket blowers. | | |
| 671-2CP | BDS heavy duty cast front bearing plate, polished. | | |
| 671-2CP-2 | New BDS heavy duty billet aluminum front bearing plate, polished. (photo pg 47) | | |
| 671-22 | Heavy duty steel bearing retainer washer. Two required per front bearing plate only. | | |
| 671-4 | BDS heavy duty finned cast rear bearing plate, unpolished. Includes two rear bearing plate caps with bolts and washers. | | |
| 671-4-2 | New BDS billet aluminum rear bearing plate, unpolished. Designed for aftermarket blowers. | | |
| 671-4P | BDS heavy duty finned cast rear bearing plate, polished. Includes two rear bearing plate caps with counter sunk bolts. | | |
| 671-4P-2 | New BDS billet polished rear bearing plate. Includes two bear- ing plate caps with counter sunk bolts. (photo pg 47) | | |
| 671-5 | New billet rear bearing caps (2), polished. Includes mounting bolts and washers. (see photo above) | | |







#671-1CKP-2

#671-2CP-2

#671-4P-2 (includes #671-5)

BDS BLOWER CASES

BDS Blower Cases are made from aircraft aluminum and machined to our rigid specifications for high blower efficiency. The blower cases are listed unpolished and ready for assembly. The 471 and 671 cases listed below come from cores and are unprocessed. Specify small or large bore.

| Part No. | Description |
|------------|---|
| 471-30 | 471 Blower Case, unpolished. |
| 671-30 | 671 Blower Case, unpolished. |
| 671-BDS-30 | 671 BDS Blower Case, unpolished. Large bore only. |
| 871-30 | 871 BDS Blower Case, machined, unpolished. |
| 1071-30 | 1071 BDS Blower Case, machined, unpolished. |
| 1471-30 | 1471 BDS Blower Case, machined, unpolished. |
| 1671-30 | 1671 BDS Blower Case, machined, unpolished. |



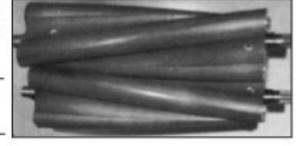
New BDS cases 671-1671

BDS GM ROTORS

The GM 471 thru 871 rotor has had a long history in the blower industry, it has always been a durable and resilient part. The availability in the last 5 years has been greatly reduced due to demand. These rotors are thoroughly inspected for flaws when they are stocked. Available right out of the core or we can process them at the time

of purchase, some may require welding and or minor machine work in order to be ready to assemble in your blower case. The GM rotors are sold in sets only, if you want a single rotor, we'll check inventory for availability.

| Part No. | | Description | | |
|----------|--|------------------------------------|--|--|
| 471-30U | | 471 GM Rotors (2), core components | | |
| 671-50U | | 671 GM Rotors (2), core components | | |
| 871-50U | | 871 GM Rotors (2), core components | | |



NEW AIR-LOC ROTORS Listed on page 64

BDS BLOWER GEARS



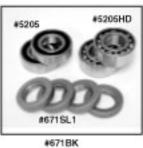


| Part No. | Description Used high quality, 30 degree stock steel blower gear sets. Designed for all inline 71 series blowers. Limited availability. Specify size of blower. | |
|----------|--|--|
| 671-34 | | |
| 671-34S | New straight cut steel gears. Engineered for competi- tion applications. Made to handle higher boost and maximum horsepower. | |
| 671-36 | Heavy duty, hardened steel blower gear washer. Made from 4140 heat treated steel. (871 to 1671) | |
| 671-38 | Heavy duty, hardened steel blower gear washer Made from 4140 heat treated steel. (471 to 671) | |



■ 38DS BLOWER BEARINGS AND SEALS

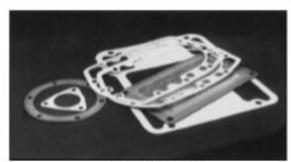




| Part No. | Description | | |
|----------|--|--|--|
| 5205 | Blower double row ball bearing. Designed for street applications. | | |
| 5205HD | Competition heavy duty front blower bearing Precision double row ball bearing designed for extremely high loads and RPM. | | |
| 62052RS | Heavy duty rear blower bearing. Precision single row ball bearing, pre-lubricated with grease and sealed. | | |
| 671SL1 | Heavy duty, dual lip teflon blower seal. Designed for extreme temperature and pres- sure to maximum efficiency. | | |

| Over-sized rotor shaft seal. To be used with seal savers part #671-SS. |
|---|
| Complete blower bearing and seal kit. Includes two heavy duty front blower bearings, two heavy duty rear blower bearings, two single row rear blower bearings, and four heavy duty dual lip teflon seals. |
| Complete competition blower bearing and seal kit. Includes four competition heavy duty double row front and rear bearings, and four heavy duty dual lip teflon seals. |
| Seal Savers, to be used with part # 671SL2. |
| |

| Part No. | Description | |
|----------|--|----------------|
| 1471G | 1471 Blower base gasket, measures .060 thick, comp | etition. |
| 1471GK | 1471 Competition blower gasket kit. | |
| 333G | Front cover triangular cover plate gasket. | |
| 471G | 471 Blower base gasket. | |
| 471GK | 471 Blower gasket kit, includes blower base gasket, two front cover gaskets, snout gasket, tri-plate gasket, back fire valve gasket, and screened inlet gasket. (Specify Intake) | |
| 500G | Blower drive snout gasket. | |
| 671-1CG | Competition front cover gasket. | #471K-871K Gas |
| 671-1DG | Die cast front blower cover gasket, late style. | #4/1K-8/1K Gas |
| 671-1SG | Sand cast front blower cover gasket, early style. | |
| | 074 Diamer has a golest | |



#471K-871K Gasket Kit

| 671-1SG | Sand cast front blower cover gasket, early style. |
|---------|---|
| 671G | 671 Blower base gasket. |
| 671GK | 671 Blower complete gasket kit. Includes blower base gasket, two front cover gaskets, snout gasket, tri-plate gasket, back fire valve gasket, and screened inlet gasket. (Specify Intake) |
| 871G | 871-1471 universal blower base gasket. This gasket has extra material front and rear and comes with a standard 671 size opening. It may be trimmed to size for larger blower openings. |
| 871GK | 871-1471 universal blower gasket kit. Includes blower base gasket, two front cover gaskets, snout gasket, tri-plate gasket, back fire valve gasket, and screened inlet gasket. The base gasket has extra material front and rear and comes with a standard 671 size opening. It may be trimmed to size for larger blower openings. (Specify Intake) |

PHOTO GALLERY PIT STOP







#671-BR

#671-BRK

Boost & Pulley Charts Booklet

BDS BLOWER ACCESSORIES







| Part No. | Description | | |
|----------|---|--|--|
| 333K | BDS front cover billet tri-plate. Comes polished and includes the gasket and three 5/16-18 x 3/4" socket head mounting bolts and washers. | | |
| 471-8C | 471 Aluminum stud kit. Includes four (2 1/2") studs with nuts, and washers. | | |
| 555 | BDS front cover pressure relief valve. This red anodized valve with o-ring seal, is designed to be able to manually relieve the pressure build up in the front cover of the blow- er. Requires a 7/16-20 tapped hole for mounting. Instructions and diagram are included. | | |
| 556 | BDS front cover oil sight gauge. Special red anodized fitting with a glass window and o-ring seal for the front blower cover, that enables you to check the oil level in the front of the blower without removing any fittings. Requires 1/2-20 tapped hole for mounting. Instructions and diagram are included. | | |
| 671B | 671-1471 Steel mounting bolt kit. Includes (8) 7/16-14 x 1 3/4" bolts and (2) 7/16-14 x 2 1/4" long bolts and washers. | | |
| 671-8C | Aluminum 671-1471 blower studs. Includes eight (2 1/2") studs and 2 longer studs (3"), with nuts, and washers. | | |
| 671BR | 671-1471 SFI 14-1 Universal Blower Restraint. This restraint meets SFI, NHRA, MTRA specifications. Includes top plate with gaskets for both sides, four straps with SFI compliance patches, four fire sleeves, four header mounting brackets, and four quick release pins. Some modifications are required on plate and brackets. (See photo pg 48) | | |
| 671BRK | New Nostalgia blower restraints kit, includes blower bag, upper with straps, lower plate with straps, and injection restraint. (See photo pg 48) | | |

BDS BLOWER REPAIR SERVICE

BDS Blower Repair Service is available for all roots style blowers. Our repair facility is capable of rebuilding, repairing, or remanufacturing virtually any kind of blower for almost any application. Each blower rebuild or repair is based on the needs of the customer and the condition of the blower. All blowers submitted for repair or rebuild must be disassembled and inspected at our facility before a price is determined. Customers are then notified by phone or mail as to the cost of the repair or rebuild. The customer may then approve or not approve the repair or rebuild. If approved the repair is expedited. If not approved there will be a minor charge for the labor involved in disassembly and estimating the repair or rebuild.

The following list shows a large cross section of available services and features in relation to blower repairing or rebuilding. Please refer to other sections in this catalog for individual replacement components.

| Part No | Description |
|---------|--|
| -1RS | Resurface Bearing Plate |
| -6CD | Hand Dress and Clean Rotors |
| -6KS | Knurl Rotor Shaft to Size |
| -6M | Re-Machine Two Rotors |
| -6PR | Install 2 Pins in Pair of Rotors |
| -6RT | Re-cut and re-teflon rotor pair,6 point. |
| -6RTT | Re-cut and re-teflon rotor pair, 18 point. |
| -6T | Cut and teflon rotor pair, 6 point. |
| -6TT | Cut and teflon rotor pair, 18 point. |
| -6W | Weld and dress one rotor. |



BDS BLOWER REPAIR SERVICE (CONTINUED)

| Part No | Description |
|---------|--|
| -CLN | Clean customers blower. |
| -HAZ | Hazardous material surcharge. (Net) |
| -IBG | Install blower bearing. (4) |
| -IBS | Install blower seals. (4) |
| -ISG | Install sight gauge. |
| -IPR | Install P.R. valve. |
| -MCB | Machine blower bottom. |
| -MCH | Hone case I.D. |
| -MD | Set bottom clearance. |
| -MR | Set front clearance. |
| -MS | Set rear clearance. |
| -INS | Inspect and estimate blower repair. |
| -DINS | Disassemble, inspect & estimate blower repair. |
| -RA | Reassemble blower. |
| -T | Install blower gears and set timing. |
| -TR | Threaded hole repair. |
| 3002RR | Remove and replace idler bearings. |
| 500RR | Remove and replace snout bearing and seal. |
| | |

■BDS BLOWER OPTIONS

| Part No | Description |
|-----------|---|
| C7020P-2 | Show polish 471-871 blower complete. |
| C7020P-3 | Show polish 1071-1671 blower complete. |
| C7020RP-1 | Re-polish 471-871 blower case. |
| C7020RP-2 | Re-polish 1071-1671 blower case. |
| C7021P-1 | Show polish 471-871 blower case only. |
| C7021P-2 | Show polish 1071-1671 blower case only. |
| C7059HAC | Hard anodize case. Stage 2 process. |
| C7059HAR | Hard anodize rotors. Stage 2 process. |
| 671-6110 | .110 rotor teflon strip, per foot. |
| 671-6121 | .121 rotor teflon strip, per foot. |
| 671-6125 | .125 rotor teflon strip, per foot. |
| 671-6250 | Nylatron rotor strip, per foot. |
| 671BWK | Blower bolt kit |
| 671SSBWK | Stainless steel bolt set for blower. |

BDS CUSTOM CARB SERVICE



Let BDS recalibrate your carbs for your specific application. You can save yourself money by sending in the carbs for your system. The carbs should be new or in excellent used condition. All carbs are subject to our inspection as to the suitability for the intended application. Used carbs require extra work so there will be an additional charge for all used carbs sent to us for blueprinting. In order for us to properly blueprint the carb(s), we will need specific information concerning the engine and vehicle. We require a completed engine form with all the requested information. Failure to supply the information requested may result in miscalibrated carbs. BDS is not responsible for carbs that are blueprinted without supplying a completed engine information form. The engine information form may be found

on page 52 of this catalog. As an additional service, BDS can also supply chrome fuel bowls and paint the carb bodies to give the carbs a custom show quality appearance. Send in sample or supply a Dupont color number. This service is special order only. Dual carbs are recommended for most blower applications. Choosing the correct size carb is essential for the proper operation of the blown motor. The following formula below will help you determine the correct size carbs for any blown application.

BDS CUSTOM CARB SERVICE (CONTINUED)

[(D x R) ÷ 3456] x [(B ÷ 14.7) + 1] = C
D = Cubic inch displacement of the motor
R = Maximum engine RPM
B = Maximum blower boost
C = Maximum CFM required

BDS offers three different stages of recalibration to cover the requirements of most blown engines. The different stages and their intended applications are listed below:

Stage 1

Carb recalibration service for mild blown applications. Provides for mild performance, good drivability and favorable fuel economy. For use with pump gas.

Carb recalibration for high performance and bracket racing blown applications. Provides high performance, improved throttle response, and good drivability. For use with race gas, Cam II, etc.

Carb recalibration for competition racing applications only. Provides maximum power and throttle response. Special order only! For use with alcohol.

| Part No. | Description |
|-----------|--|
| C5000 | Custom paint and chrome dress up two carbs. Customer will need to supply Dupont |
| | color code number or sample. Special Order! |
| C5000-C | Prepare carbs and install chrome kits. |
| C5001 | Stage 1 recalibrate one customer's new carb. (vacuum secondaries or double pumps). |
| C5002 | Stage 2 recalibrate one customer's new carb. (vacuum secondaries or double pumps). |
| C5003 | Stage 3 recalibrate one customer's new carb. (vacuum secondaries or double pumps). |
| C5002-DEM | Stage 2 blue print new Demon Carb. |
| C5003-DOM | Stage 3 blue print new Dominator Carb. |
| C5004-DOM | Stage 4 blue print new Dominator Carb. |

All used carbs sent in will be inspected for repairs and replacement of parts, a quote will be submitted to you for approval.

BDS NEW CUSTOM CARBS

New BDS custom carbs are hand assembled from new premium modular parts. The metering plate are machined for symmetry and balance. Special booster and bleeds are installed. These custom carbs are calibrated to your specific application. All stage two and all 750CFM Carbs have the air horns (choke) removed. A complete engine information form (on page 52) will need to be submitted with your order. We also offer paint service and chrome kits. (see price list)

| Part No. | Description | |
|----------|--|--|
| 600S-1 | 600CFM Stage 1 Custom Carb, Vacuum secondaries | |
| 600HS-2 | 600CFM Stage 2 Custom Carb, Vacuum secondaries | |
| 600DS-1 | 600CFM Stage 1 Custom Carb, Double Pump | |
| 600DHS-2 | 600CFM Stage 2 Custom Carb, Double Pump | |
| 650DS-1 | 650CFM Stage 1 Custom Carb, Double Pump | |
| 650DHS-2 | 600CFM Stage 2 Custom Carb, Double Pump | |
| 750DS-1 | 750CFM Stage 1 Custom Carb, Double Pump | |
| 750DHS-2 | 750CFM Stage 2 Custom Carb, Double Pump | |
| 850DS-1 | 850CFM Stage 1 Custom Carb, Double Pump | |
| 850DHS-2 | 850CFM Stage 2 Custom Carb, Double Pump | |

| | CUSTOM ORDER | |
|----------|--|--|
| 1050HS-3 | 1050CFM Stage 3 Custom Carb, Dominator | |
| 1150HS-3 | 1150CFM Stage 3 Custom Carb, Dominator | |
| 1250HS-3 | 1250CFM Stage 3 Custom Carb, Dominator | |



ENGINE INFORMATION FORM

| Name: | | | | Date: |
|------------------|-------------|-------------|-----------------|---|
| Phone: | | Altitude of | Normal Operatio | n |
| VEHICLE - | | | | |
| Car Make: | Bod | y Style: | | Weight: |
| Boat Length: | Hull | Type: | | Weight: |
| Vee D | rive Ratio | Prop Size: | | Jet Type: |
| ENGINE - | | | | |
| Make: | | CID: | | Overbore: |
| Max RPM: | Compression | n Ratio: | | Pistons: Forged Cast |
| Heads: | Intake: | Ex | haust: | Ported: Yes No |
| Cam Make: | Grind No.: | | □Hyd | lraulic ☐ Solid ☐ Roller |
| | | | | Intake: |
| Lobe Centerline: | | Exhaust: | | Exhaust: |
| Ignition Make: | | Advanced | Idle: | Total:atRPM |
| DRIVE TRAI | IN — | | | |
| Auton | natic: | | Stall Speed: | |
| Manual: | | ☐ 3 Speed | ☐ 4 Speed | ☐ 5 Speed ☐ Other |
| Rear End Ratio: | | 178 | Tire Height: | inches |
| BLOWER SY | STEM | | | |
| Make: | Size | : | Drive Ratio: | |
| | Max Boost | at - | | Max RPM |
| CARBS & FU | JEL — | | | |
| Make: | Model No: | | CFN | A Rating |
| Quantity | ☐ Side Sad | dle 🗖 Inli | ine Stag | e: |
| ☐ Gas octane | □ Alcohol | □ Ni | tro 🗖 Othe | er: |
| NEW: □ yes □ no | CUSTOMER'S: | lyes □no | CHROME & PAI | NT: yes no color |
| APPLICATIO | ON- | | | 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| ☐ Driver ☐ | Show Mile | d Racer | ☐ Competition | □ Other |
| COMMENTS | | | | V |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



BDS BLOWER CARB ADAPTERS

Part No.

14B4-2

24B6-2

24B6D-2

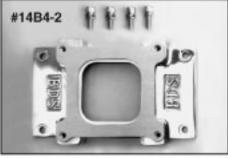
24B6D-IL



| 9 | #14B4D-2 |
|---|----------|



Single four barrel billet carb adapter, polished to mount onto a 471 blower. Includes blower inlet safety screen (BDS #14B4G), special heat resistant carb base gasket (BDS #24B6C), mounting bolts and instructions. Accepts standard Holley and Carter four barrel carbs.



and Carter four barrel carbs.

Single dominator billet carb adapter, polished to mount onto a 471 blower. Includes blower inlet safety screen (Part # 14B4G) special heat resistant carb base gaskets (Part# 14B4CD).

Mounting bolts and instructions. Accepts standard Holly Dominator.



14B6-2 Single four barrel billet polished aluminum carb adapter, to mount onto a 671-871 blower. Includes blower inlet safety screen (BDS #14B6G), special heat resistant carb base gasket (BDS #14B6C), mounting bolts and instructions. Accepts standard Holley and Carter four barrel carbs.

24B4-2 Dual Carter billet carb adapter, polished to mount



Dual Carter billet carb adapter, polished to mount onto a 471 blower. Accepts two Carter carbs mounted inline at 6.75" center to center. Includes blower inlet safety screen (Part# 14B4G), special heat resistant carb base gaskets (Part#14B4C). Mounting bolts and instructions.



Dual four barrel polished billet aluminum carb adapter, to mount onto a 671-871 blower. Includes blower inlet safety screen gasket (BDS #24B6G), four special heat resistant carb base gaskets (BDS #24B6C), two 1/8" NPT vacuum outlets, mounting bolts and instructions. Accepts two standard four barrel Holley carbs sidesaddle or Carter carbs inline on an 8-5/8" center to center. Holley carbs without secondary metering plates may be run inline.



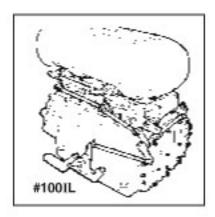
Dual Holley Dominator polished billet aluminum carb adaptor to mount onto a 671-871 blower. Includes blower inlet safety screen gasket (BDS #24B6G), special heat resistant carb base gaskets (Part#24B6CD), mounting bolts, and instructions. Accepts two Holley Dominator carbs mounted sidesaddle at 8-3/4" center to center.

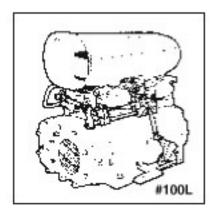
1671 Dual inline dominator billet carb adaptor kit,

1671 Dual inline dominator billet carb adaptor kit, polished. To be used with BDS 1471 - 1671 blowers. Includes carb base gaskets, and mounting bolts.

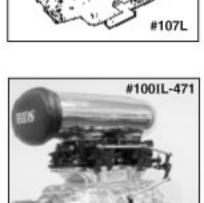


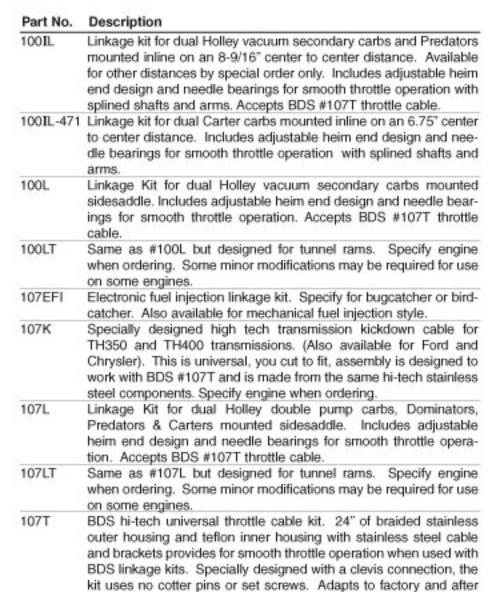
■ **BDS** CARB LINKAGE KITS & ACCESSORIES













100L-B

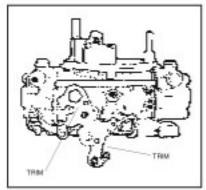
100L-6-2 100L-7-2 market throttle pedals. You cut to fit.

tower to billet polished units.

New upgrade to linkage kit, this replaces stock base bracket and

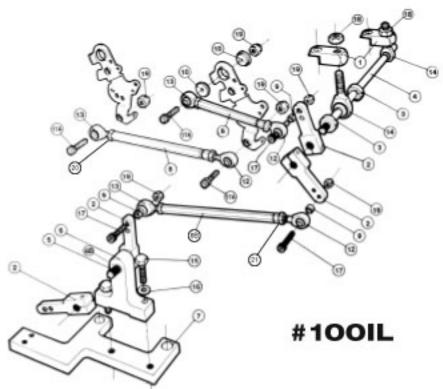
New billet tower polished with bearing, replacement part.

New billet base bracket polished, replacement part.





BDS LINKAGE COMPONENTS



| Drawing | | 7 |
|---------|------------|--|
| No. | Part No. | Description |
| 1 | 100L-1 | Bracket that mounts to the carb base to hold the main stainless steel splined shaft. |
| 2 | 100L-2A | Carb linkage arm with two adjusting holes. |
| 3 | 100L-3 | 5/16" locking collar for the main stainless steel splined shaft. |
| 4 | 100L-4 | 5/16" x 12" stainless steel splined main shaft. |
| 5 | 100L-5 | 1-3/4" stainless steel linkage tower splined shaft. |
| 6 | 100L-6 | Linkage relay tower with needle bearing. |
| 6B | 100L-6B | Relay tower needle bearing. |
| 7 | 100L-7 | Main linkage bracket for the relay tower. |
| 8 | 100L-8 | 3" aluminum hex shaft with 10-32 right hand and left hand female threads. |
| 8B | 100L-8B | 7" aluminum hex shaft with 10-32 right hand and left hand female threads |
| 9 | 100L-9 | 3/16" x 1/8" brass heim end spacer. Stands heim end away from connection to keep from binding. |
| 10 | 100L-10 | Carb linkage brass adapter. Provides a pivoting connection to Holley carb linkage. (2 required per carb.) |
| 12 | 100L-13 | 10-32 Left hand thread male heim end. |
| 13 | 100L-12 | 10-32 Right hand thread male heim end. |
| 14 | 100L-11 | 5/16" Right male heim end. |
| 15 | 250-10081 | 1/4-20 x 1" hex bolt. |
| 16 | 250-00000 | 1/4" AN washer. |
| 17 | 1024-10091 | 10-24 x 1" socket head bolt. |
| 17A | 1024-00891 | 10-24 x 7/8" socket head bolt. |
| 18 | 312-00182 | 5/16-24 SAE Nut. |
| 19 | 1024-0002 | 10-24 Lock Nut |
| 20 | 100L-14 | 10-32 Right hand jam nut. |
| 21 | 100L-15 | 10-32 Left hand jam nut. |



■ 38DS LINKAGE KIT #107L PARTS LISTI

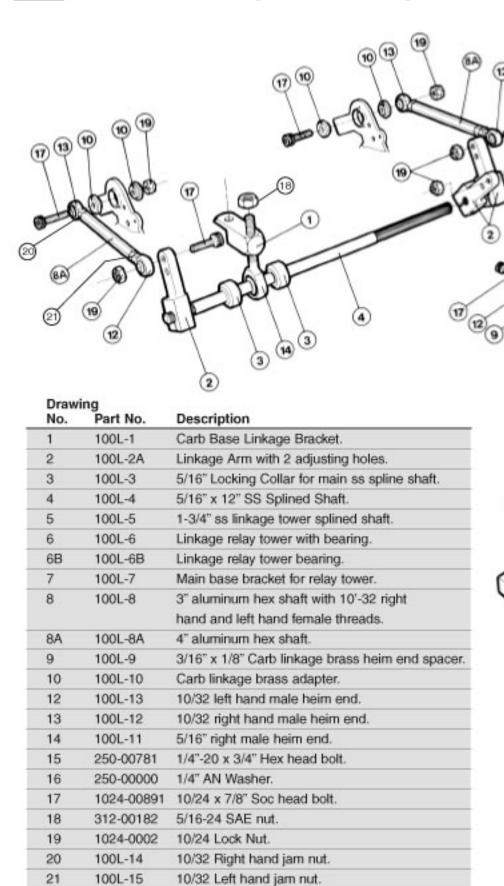
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(8)

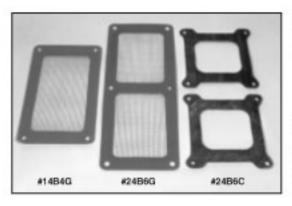
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BDS CARB ADAPTER GASKETS

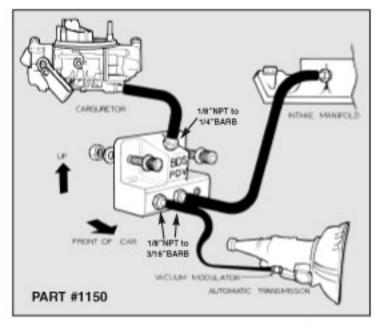


| Part No. | Description | |
|----------|---|--|
| 14B4G | Blower inlet safety screen gasket for 471 blower. | |
| 24B6C | Special 1/8" thick, heat resistant standard four barrel carb base gasket. One is required per carb for linkage clearance when using #24B6 adapter and sidesaddle mounting. | |
| 24B6CD | Special 1/8" thick, heat resistant standard Dominator carb base gasket. | |
| 24B6G | Blower inlet safety screen gasket for 671-871 blower. | |
| 24B6GNS | Blower inlet gasket for 671-871 blower, no screen. | |
| 24B6BG | Buzzard cathcher inlet safety screen gasket. | |

「罗DS CARB PLUMBING COMPONENTS!

| Part No. | Description | |
|----------|---|--|
| -6FPG | -6 Fuel pressure gauge blue fitting. Use with part # 1015 | |
| -6N | -6AN Tube nut, blue anodized. | |
| -6S | -6AN Tube sleeve, blue anodized. | |
| -6SS | 3/8" Stainless steel tubing, sold by the foot. | |
| -6T | -6AN tee fitting, blue anodized. | |
| 1015 | 0-15 psi liquid filled fuel pressure gauge. | |
| 56143-66 | New BDS -6AN x -6AN fuel pump fitting, o-ring. | |
| 56143-68 | New BDS -6AN x -8AN fuel pump fitting, o-ring. | |





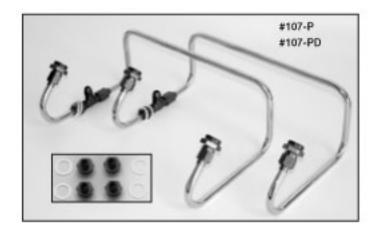
PRESSURE DIVERSION VALVE

The BDS PDV is a simple control valve that will give the vacuum modulator on the transmission the correct vacuum signal from beneath the blower until there is boost. This means that the tranny will receive a true motor signal that is required for proper shifting. As soon as the valve senses boost beneath the blower, it switches the valve to show zero vacuum for the tranny modulator. Zero vacuum tells the tranny there is a high load, wide open throttle condition and the tranny will increase line pressure to minimize the amount of slippage. Without this valve the tranny modulator would see boost instead of vacuum if connect-

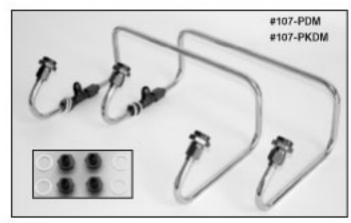
ed below the blower and too much vacuum if connected above the blower causing radical shifting and or excessive slippage which could burn up the tranny. Top line hooks up to vaccum port above blower (not ported vacuum). The fittings are 3/16° and 1/4°.



BDS CARB PLUMBING KITSI











| Part No. | Description | |
|----------|---|--|
| 100-P | 3/8" seamless stainless steel polished tubing with red anodized fittings for two Holley single feed carbs mounted sidesaddle. Includes Holley carb fuel inlet to -6AN fittings. A single -6AN connection supplies fuel to both carbs. Use BDS carb adapter #24B6 or carbs must be mount- ed 8-9/16" center to center. | |
| 106 | Power Bar Regulator mounts into #107-P, uses -6AN (3/8") fuel inlet and return lines. Good up to 850HP fuel flow. | |
| 107-P | 3/8" Seamless stainless steel polished tubing with red anodized fittings for two Holley double feed carbs mounted sidesaddle. Includes Holley carb fuel inlet to -6AN fittings and provides a single fuel connection per carb to supply fuel to both carb bowls. Use with any standard four barrel double pump Holley carb. Great for tunnel ram systems. | |
| 107-PD | 3/8" Seamless stainless steel polished tubing with red anodized fittings for two Holley Dominator carbs mounted sidesaddle. Includes Holley carb fuel inlet to -6AN fittings and provides a single fuel connection per carb to supply fuel to both carb bowls. | |
| 107-PDM | Same as Part# 107P but designed for Demon carbs. | |
| 107-PKDM | Dual King Demon same as part# 107-P but designed for King Demon Carbs. | |
| 107-PDFL | 3/8" Stainless steel fuel line with red anodized AN fittings that provides a single fuel connection to BDS #107-PD at the front or rear of the blower base for the carb fuel supply. | |
| 107-PFL | 3/8" Stainless steel fuel line with red anodized AN fittings that provides a single fuel con- nection to BDS #107-P at the front or rear of the blower base for the carb fuel supply. | |
| 108 | Power Bar Regulator mounts into #107-P, uses -8AN (1/2") fuel inlet and -6AN (3/8") return line. Good up to 1200HP fuel flow. | |



Carburetor Fuel Flow Diagram PART #106 - USE 3/8 OR -6 AN LINES TO AND FROM THE FUEL TANK. PART #108 - USE 1/2 OR -8 AN LINES TO AND -6AN RETURN TO THE FUEL TANK. VENT FLOW FLOW SUPPLY

This BDS Pro-Fuel System provides your motor with MAXIMUM FUEL DELIVERY under any performance condition. The check valve may be installed either at the front or back. This fuel delivery system is simular to that used in fuel injection. The fuel pressure is set to 7 or 8 psi and adjustment is made by adding or removing shims.

Overall length 12.5"

8 9/16"

OUTLET FITTING

Fuel rail length 10.5"

FUEL RAIL 106-1

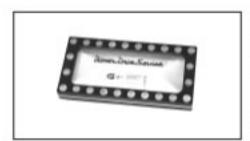
3/9= #98 1/2= #98

ASSEMBLY

SHIBS FOR PRESSURE

RETURN CHECK VALVE 3/8= 5006

PHOTO GALLERY PIT STOP



RETURN CHECK VALVE

BODY

PLACE ADDITIONAL SHIMS HERE

PRESSURE ADJUSTING SHIRIS

#8027SBP Burst panel Kit



#10004 471 Adapter plate



Blowers in stock, ready to ship



#600KD-1BB-1

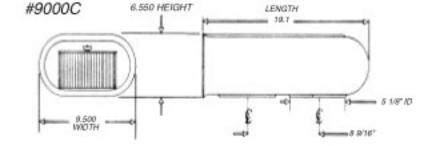


#600KD-1BB 2

BDS CARB SCOOPS, FILTERS, & ARRESTORS

| Part No. | Description |
|----------|--|
| 9000 | Polished aluminum dual carb scoop for standard four barrel style carbs mounted inline or sidesad- |
| | dle on an 8-9/16" center to center distance. Use BDS #24B6-2 Carb Adapter. |
| 9000C | Polished aluminum dual carb scoop for standard four barrel style carbs mounted inline or sidesad- dle on an 8-9/16" center to center distance. Use BDS #24B6-2 Carb Adapter. Includes two re- useable K&N air filters, polished SS filter tops, and mounting hardware. |



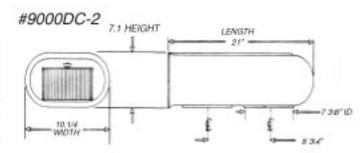


6.550 HEIGHT

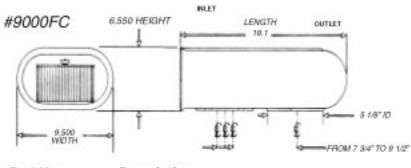
#9000C shown with scoop cover.

Part No. Description

Polished aluminum dual carb scoop for stan-9000B dard four barrel carbs. Mounted sidesaddle on 6.75" center to center distance (471). Includes (2) re-usable K&N air filters. Polished S.S. filter tops, and mounting hardware. To be used with Part# 24B4-2 carb adapter.



LENGTH

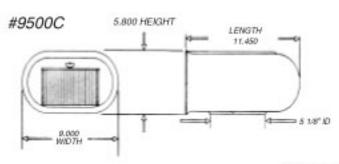


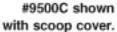


| Part No. | Description |
|-----------|--|
| 9000DC-2 | Custom polished aluminum MONSTER dual carb scoop for dominators mounted sidesaddle up to 8-3/4" center to center. Kit includes air filters (8" diameter by 4-5/8" tall, with polished stainless steel filter tops and mounting hardware. The Dominator scoop measures 21-1/8" long with an overall height of 7-3/4". The oval opening measures 7-1/4" by 10-1/2". Use part# 24B6D-2 carb adapter. This scoop can be used on double pump carbs by using part# 9000D-2A, to reduce carb opening. |
| 9000FC | Custom made polished aluminum dual carb scoop for standard 4bbl style carbs. Produced as a special order only, the custom scoop may accommodate dual carbs with center to center dis- tances up to 9-1/2". Air filters and mounting hardware are not included. (See line drawing above). |
| 9000M | Polished aluminum dual carb scoop for standard four barrel style carbs mounted inline or sidesaddle on an 8-5/8" center to center distance. Use BDS #24B6-2 carb adapter. Includes two Coast Guard approved flame arrestors and mounting hardware. |
| 9000D-2A | Polished aluminum adapters (2), to be used with Pt#9000DC-2. Adapts Monster scoop to Vac. Sec./double pumps. |
| 9000DFC-2 | Custom Center to Center MONSTER dominator scoop with filters, polished. |



BDS CARB SCOOPS, FILTERS, & ARRESTORS (CONTINUED)

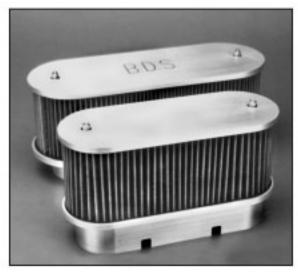






| Part No. | Description |
|----------|--|
| 9001 | Vinyl scoop cover embroiderd with BDS logo. Available in black (9001), blue (9002), red (9006), yellow (9007), silver (9008), purple (9009), and aqua (9011). Specify color when ordering. |
| 9000D1 | New Vinyl scoop cover dominator embroiderd with B.D.S. logo. Available in blue (9000D2), red (9000D6), yellow (9000D7), and silver (9000D8). Specify color when ordering. |
| 9100 | BDS re-useable K&N air filter element. This air element is 5-1/2" diameter by 3.0" tall. It will flow 414 CFM. |
| 9100D | New Dominator re-usable K&N air filter with metal mesh reinforce on the inside for extra strength, it is 8" in diameter by 4-5/8" tall, will flow 929 CFM. |
| 9100H | Polished Stainless Steel air filter top with 14-20 x 4 1/2" stud, washer, and wing nut. |
| 9100HD | Polished stainless air filter top with 5/16-18" x 6" stud, washer and wing nut. |
| 9100K | Air filter assembly. Includes filter element, polished SS top, stud and wing nut. |
| 9100KD | New dominator air filter assembly (1). Includes filter element, polished SS top, stud and wing nut. |
| 9200 | Coast Guard approved flame arrestor, stud, and wing nut. (5 1/2" dia. x 3.0" tall) |
| 9500 | Polished aluminum single carb scoop for standard four barrel carbs. Fits almost any blown or unblown single carb system. |
| 9500C | Polished aluminum single carb scoop for standard four barrel carbs. Includes K&N air filter, polished SS top and mounting hardware. Fits almost any blown or unblown single carb system. |
| 9500D | Polished aluminum single carb scoop for Dominator carb. Used with Part# 14B4D-2. |
| 9500M | Polished aluminum single carb scoop for standard four barrel carbs. Includes Coast Guard approved flame arrestor and mounting hardware. Fits almost any blown or unblown single carb system. |

BDS FUEL INJECTION AIR FILTERS



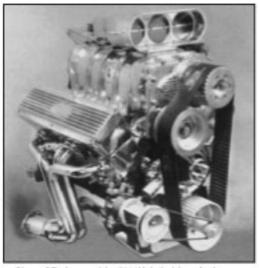
| Part No. | Description | | |
|--|---|--|--|
| 5300C | Air Filter Kit for use with a Bugcatcher Hat. Includes K&N re-useable 5" tall element and necessary mounting hardware. Also available with 10" tall ele- ment. Machine finish! Polish option: Part # C7093P. | | |
| 5300C-5 | Replacement 5" tall Air Filter element for use with BDS #5300C Filter. | | |
| 5400C Air Filter Kit for use with a Birdcatcher Hat K&N re-useable 5" tall element and re mounting hardware. Also available with 16 ment. Machine finish! Polish option: Part # | | | |
| 5400C-5 | Replacement 5" tall Air Filter element for use with BDS #5400C Filter. | | |

Air filter kits are also available for buzzard catchers by special order.

Outerwear available in assorted colors for all filter kits.



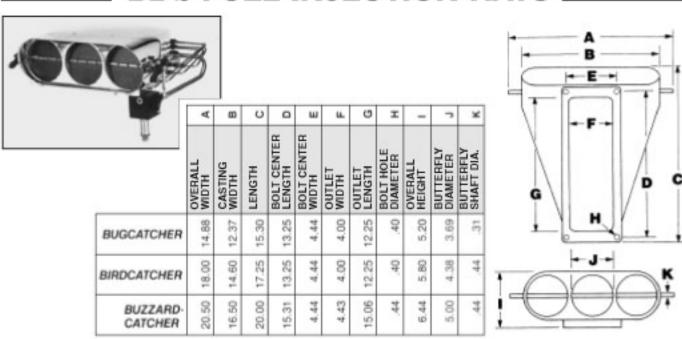
| **BDS** MECHANICAL FUEL INJECTION



Chevy SB shown with #5300K, belt driven fuel pump.

BDS offers a variety of mechanical fuel injection components and complete injection kits. These systems are designed to be used for high performance racing applications and are available for gas, methanol, and nitro-methane fuels. When purchasing hats or complete kits, information about the engine and the vehicle must be supplied in order for the systems to be initially set up with the proper components. BDS recommends that the customer be familiar with this style of constant flow racing fuel injection for optimum results. After gathering information about your application, we can then recommend components to make up a custom kit to work on your engine. These systems are not intended for the novice.

BDS FUEL INJECTION HATS



| Part No. | Description |
|----------|---|
| 5300 | Enderle polished aluminum Bugcatcher Fuel Injection Hat (gas) that includes shaft, butterflies, throttle stops, barrel valve, stainless steel fuel lines, distribution block nozzles and nozzle bodies. |
| 5350 | Same as Part #5300, except hat is calibrated for alcohol. |
| 5400 | Enderle polished aluminum Birdcatcher Fuel Injection Hat (gas) that includes shaft, butterflies, throttle stops, barrel valve, stainless steel fuel lines, distribution block, nozzles and nozzle bodies. |
| 5450 | Same as Part #5400 except hat is calibrated for alcohol. |
| 5500 | Enderle polished aluminum Buzzardcatcher Fuel Injection Hat that includes shaft, butterflies, throttle stops, barrel valve, stainless steel fuel lines, distribution block, nozzles and nozzle bodies. |
| 5550 | Same as Part #5550,except hat is calibrated for alcohol. |



MECHANICAL FUEL INJECTION PUMP DRIVES



| Part No. | Description |
|----------|---|
| 5009 | Small block and big block Chevy hex drive cam adapter. Designed to work with BDS #5009E. |
| 5009E | Enderle, 6" long fuel pump extension for cam driven fuel pump. Includes bearings, housing, and hex shaft. Adjustable mount enables the pump to be mounted in a number of positions for pump and fuel line clearance. |
| 5010-31C | Chevy SB aluminum front timing cover, unpolished. |
| 5010-34C | Chevy BB aluminum front timing cover, unpolished. |

| 5010C | Cam driven fuel pump drive kit for most engines. Includes hex drive cam coupler, engine front cover |
|---------|---|
| | and fuel pump extension. Pump not included. For SB Chevy use #-31, for BB Chevy use #-34. |
| 5010-3A | 27" x 1/2", 3/8" pitch fuel pump drive belt. |
| 5010-3B | 28-1/2" x 1/2", 3/8" pitch fuel pump drive belt. |
| 5010-3C | 32" x 1/2", 3/8" pitch fuel pump drive belt. |
| 5010-3D | 34-1/2" x 1/2", 3/8" pitch fuel pump drive belt. |

FUEL INJECTION COMPONENTS

| Part No. | Description | Part No. | Description |
|----------|--|-----------|--|
| 5001 | 3 way -6AN fuel shutoff valve w/ fittgs. | 5000-80A | Cam driven, gas fuel inj. pump (7gpm @ 4000 rpm). |
| 5003 | 3 way -8AN fuel shutoff valve w/ fittgs. | 5000-80A0 | Carn driven, gas fuel inj. pump (4gpm @ 4000 rpm). |
| 5006 | -6AN fuel check valve. | 5000-80A1 | Cam driven, gas or alky fuel inj. pump. |
| 56006HS | -6AN high speed fuel check valve. | | (Hilborn replacement part) |
| 5008 | -8AN fuel check valve. | 5000-110 | Cam driven, alky fuel inj. pump (13gpm @ 4000 rpm) |
| 5008HS | High speed lean out valve. | 5000-990 | Cam driven large alky or nitro fuel inj. |
| 5011 | Main fuel injection bypass valve. | | pump (15.5gpm @ 4000 rpm). |
| 5012 | Secondary bypass valve. | 5001-80A | Belt driven, gas fuel inj. pump. |
| 5017 | High speed lean-out valve. | 5001-80A0 | Same as #5000-80A0 except belt driven. |
| 5018 | Injector nozzle jet. Specify size. | 5001-80A1 | Same as #5000-80A1 except belt driven. |
| 5018BP | Injector nozzle body port. | 5001-110 | Same as #5000-110 except belt driven. |
| 5019E | Enderle style fuel pills. | 5001-990 | Belt driven large alky or nitro fuel inj. pump. |
| | | | |

CELERATOR ADAPTOR

Ideal for nostalgia racing, monster trucks, competition, or street applications, giving the optimum in fuel/air delivery with it's accelerated angle. This is specifically engineered to gain higher air/fuel volume to ram the increase into your blower system resulting in more horsepower. The Xcelerator adapter is made from a 6061-T6 billet aluminum and is available in hard black anodized or polished. It's 2" tall and is o-ringed for a total seal on top and bottom, also included is the hardware. This adaptor will fit most blowers, and will accommodate a bugcatcher or birdcatcher.



OUTLAW BLOWER



New BDS "Outlaw" 871 Blower

with hard anodized coating on the case outside and inside. It includes machine finish billet end plates. We offer a reward when you order, call in for yours!

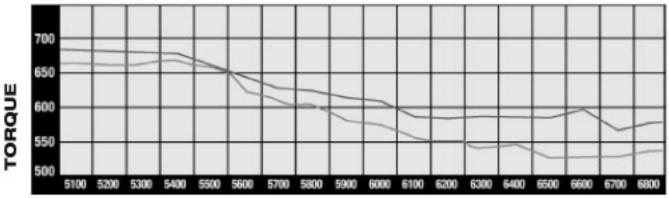
BDS AIR-LOC ROTORS

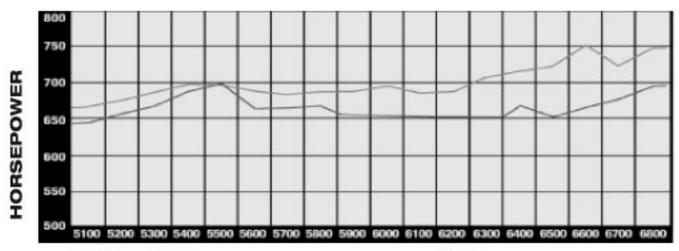
The new BDS 671 thru 1671 Air-Loc rotors are a preplacement part for the GM rotors. They are machined to unique clearance that creates cooler air by 10 degrees. When dyno tested against the GM rotor, they showed an increase of 100 horsepower. Designed for street or race applications the Air-Loc rotor profile has proven that it will increase your horsepower and make your engine more efficient.

| Part No. | Description |
|------------|--|
| 671-50-AL | BDS Air-Loc rotors, (2) standard helix |
| 871-50-AL | BDS Air-Loc rotors, (2) standard helix |
| 1071-50-AL | BDS Air-Loc rotors, (2) standard helix |
| 1471-50-AL | BDS Air-Loc rotors, (2) standard helix |
| 1671-50-AL | BDS Air-Loc rotors, (2) standard helix |

x x x x x

BDS Air-Loc Rotors vs. GM rotors





RPM

RPM

GM Rotors

GM Torque

A/R Rotors -

A/R Torque

BDS PRO-LOC ROTORS

Introducing the new BDS Pro-Loc billet rotors in standard and high helix profiles. Available for the 671 thru 1671 blowers, the Pro-Loc rotor is machined from 6061-T6 billet material. They are engineered with unique clearances to suit all aspects of forced induction. Following the outline of NHRA regulations they are specially designed for nitro and alcohol race vehicles. Applying current race technology to the new BDS Pro-Loc rotor, we are committed to delivering more horsepower and in turn increasing your engine efficiency. They can used on vehicles that run on good gas or pump gas by changing the drive ratio to suit the application.

Currently these rotors are being Dyno tested and will be available soon. Custom orders only.



BDS PRO-LOC BLOWERS

Specify standard or high helix profile. Polish or hard anodized color options available.

Introducing the new BDS Pro-Loc competition blower for high performance racing applications using alcohol or

Introducing the new BDS Pro-Loc competition blower for high performance racing applications using alcohol or nitro methane. These custom blowers are available for Pro-Mod, IHRA Alcohol Funny Car and drag boats. The front inlet and front discharge bearing plate is installed with an oversized heavy-duty angular bearing to reduce heat which leads to longer bearing life span. The blower case and the Pro-Loc rotors are hard anodized, then the rotors are teflon. Equipped with a front discharge and front inlet pocket that has been machined into the front bearing plate to increase efficiency through the rotors breathing and discharge cycle. This modification to the blower will require a set back plate to re-position its mounting location on the intake. We recommend setting the blower, as far back, as the rules allow. When concentrating the discharge port opening between the front and rear intake runners, it helps to distribute air and fuel throughout the intake manifold.

NEW PRO-LOC BLOWERS

Specify standard or high helix profile, polish or hard anodized options available.

| 671-PRO N | lew BDS | 671 Blower | , front discharge, | Pro-Loc rotors | with billet end plates. |
|------------|---------|------------|---------------------|-------------------|-------------------------|
| 871-PRO N | lew BDS | 871 Blower | , front discharge, | Pro-Loc rotors | with billet end plates. |
| 1471-PRO N | lew BDS | 1471 Blowe | er, front discharge | e, Pro-Loc rotors | with billet end plates. |
| 1671-PRO N | lew BDS | 1671 Blowe | er, front discharge | , Pro-Loc rotors | with billet end plates. |













The blowers pictured above are available from 671 to 1671 profiles, they are custom fabricated for carburetion or injection on your racing application.



BDS BLOWER DISTRIBUTORS



BDS offers a complete line of distributors specifically designed for use with BDS blower systems. These distributors are already curved and set up for a blower system and are equipped with electronic trigger. Ford engines require a flat cap or "crab cap" style distributor for proper clearance between the distributor and blower. Distributors for engines other than those listed below are available by special order only.

| Part No. | Description | | | |
|----------|---|--|--|--|
| 8548202 | Chevy V8 unilite standard cap distributor. Curved for | | | |
| | blower applications. | | | |
| 8555102 | 289-302 Ford (1962-80) flat cap electronic trigger | | | |
| | distributor. Curved for blower applications. | | | |
| 8555302 | 390-428, 428 Ford flat cap electronic trigger distributor. | | | |
| | Curved for blower applications. | | | |
| 8555402 | 351W Ford (1969-80) flat cap electronic distributor. | | | |
| | Curved for blower applications. | | | |
| 8556702 | 351C, 429-460 Ford flat cap electronic trigger | | | |
| | distributor. Curved for blower applications. | | | |
| 8568702 | 351W Ford (1981-87) flat cap electronic trigger | | | |
| | distributor. Curved for blower applications. | | | |
| 8570402 | 302 Ford (1981-87) flat cap electronic trigger distributor. | | | |
| | Curved for blower applications. | | | |

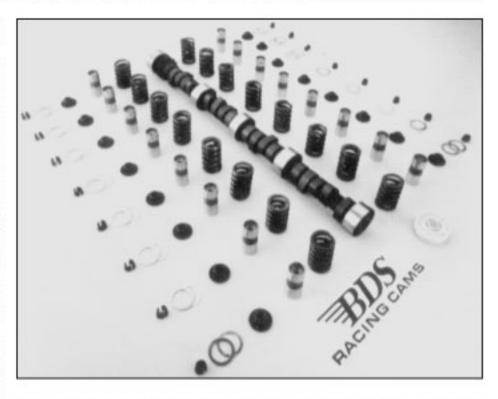


Ford 302 Distributor Clearance

BDS BLOWER CAMS

Blower Drive Service Co. is a developer of products as well as a user of these same products. Working for years with camshaft technology, we have perfected numerous camshaft profiles specifically engineered for the performance enthusiast. Too often, a recommended "blower cam" is simply a "cam", called a blower cam. These profiles do not optimize performance. Camshafts are "application sensitive", and the needs of a given motor are best satisfied with proper camshaft selection. With over thirty years of blower experience, the BDS technical staff will assist you in selecting a camshaft to maximize your performance needs.

Each of our "maximum effortblower camshaft designs" develop high torque at the front end of the RPM scale and extend this torque



throughout the RPM range. The hydraulic "blower cam" profiles provide the luxury of maintenance free operation, providing rough and controllable idle characteristics with the broad torque band and excellent power. All of this performance is available without over-taxing the valve train. Fuel economy is always possible if you control your enthusiasm with the gas pedal! (continued on next page) Our solid lifter profiles offer improved performance over hydraulic designs while extending the RPM range and maximizing both torque and horsepower. Rough and controllable idle is normal, while use of automatic transmissions with higher than stock stall speeds work well with this design. There are numerous profiles for both the hydraulic and solid lifter carnshafts. Extended "valve train life" with "optimum performance" becomes reality with these blower carn profiles. View the list of carnshafts, and read their descriptions. You will notice the carn lift of the intake valve is lower than that of the exhaust valve. This is true with the intake and exhaust valve duration as well. This relationship extends the exhaust valve breathing. This extended exhaust valve breathing is required in a supercharged motor.

Roller carnshaft profiles allow maximum performance! Rapidly opening valves and higher valve lift is possible with a roller carnshaft design. More life and duration, combined with faster opening and closing valves, mean greater air flow. Greater air flow means more power is possible. We recommend you use this type of carnshaft profile in any all out performance efforts. These roller carns reduce valve train friction, but usually require very heavy valve spring pressures. This increase in spring pressure make higher RPM and faster acceleration possible. This added valve train load shortens over all valve train life, and increases valve guide wear. Reduced spring life is common as well. These symptoms are expected and common in any high performance or racing application. Due to the high maintenance and short life expectancy, BDS recommends that you limit the use of these roller carnshaft designs to maximum effort applications only!

| Grind | Cam | Application | Idle | Max RPM | Power Range | Converter |
|--------|-------|--|-------------|-----------------------------------|-------------|---------------|
| No. | Type | 40 to 10 20 20 10 10 10 10 10 10 10 10 10 10 10 10 10 | Storen | See of the Control of the Control | | Harman and an |
| | | HYDE | RAULIC | | | |
| 4000 | Hyd | EFI, normally aspirated, mild street. Designed for daily driver. | good | 6000 | 2000/5500 | 1800-2000 |
| 4100 | Hyd | Blown, mild street performance. Designed for everyday driving. | good | 6500 | 2000/6000 | 1800-2200 |
| 4200 | Hyd | Blown. Moderate street usage. Good overall performance | good | 6500 | 2000/6200 | 2200-2500 |
| 4600 | Hyd | & drivability. Blown EFI, mild street. Designed for blown EFI street. | good | 6500 | 2400/5400 | 2200-2500 |
| 5300 | Hyd | Blown, hi-performance street & strip: Pro-street. | fair | 6800 | 2800/6500 | 2600-2800 |
| 5400 | Hyd | Blown, hi-performance street & strip. Designed for Pro-street/Bracket Racing | fair). | 7200 | 3400/7200 | 3000-3200 |
| | | HYDRAUL | IC ROL | LER | | |
| 4300HR | HRIIr | Blown, performance street Great balance of power and torque. | fair | 7000 | 2800/6800 | 2600-2800 |
| | | SOLID | LIFTER | 1 | | |
| 4100S | Solid | Blown, mild street. Solid version of 4100. | fair | 7000 | 2500/6800 | 2300-2600 |
| 4200S | Solid | Blown, performance street Solid version of 4200. | fair | 7000 | 2800/7000 | 2400-2800 |
| 4300S | Solid | Blown, hi-performance street. Solid version of 4300. | fair | 7400 | 3000/7400 | 2800-3000 |
| 4400S | Solid | Blown, hi-performance street/strip. Designed for Pro-street, Bracket Racin Solid version of 4400R. | rough g. | 7500 | 3400/7500 | 3000-3200 |
| 4500S | Solid | Blown, hi-performance strip use only. Solid version of 4500R. | rough | 7500 | 3400/7500 | 3200-3500 |
| 4700S | Solid | Blown, hi-performance: marine use only. Solid version of 4700R. | fair | 7200 | 2800/6800 | na |
| | | BO | LLER | | | |
| 4100R | Riir | Blown, mild performance street. Roller version of 4100. | good | 6500 | 2500/6500 | 2200-2500 |
| 4200R | Riir | Blown, performance street. Roller version of 4200. | fair | 7000 | 2700/6800 | 2400-2800 |
| 4300R | Riir | Blown, hi-performance street. Roller version of 4300. | fair | 7000 | 3000/7200 | 2800-3000 |
| 4400R | Allr | Blown, hi-performance street & strip. Roller version of 4400. | rough | 7500 | 3200/7500 | 3200-3500 |
| 4500R | Riir | Blown, hi-performance strip/comp. Designed for all out racing. | rough | 7800 | 3500/7800 | 3400-3800 |

| | Grind No. | Valve Lift Int/Exh | Advert Dur. Int/Exch | | obe enter |
|--------------------|--------------|-----------------------|-------------------------|--|--------------|
| HYDRAULIC CAMS | | | | | |
| AMC, Buick, OLDS | 4100 | .480/.495 | 264/270 | 214/221 | 110° |
| Ford 302/351W | 4200 | .495/.515 | 270/280 | 221/232 | 110° |
| | | | | | |
| Chevy 262, 350 | 4000 | .465/.490 | 270/274 | 221/226 | 110° |
| Chrysler, Pontiac | 4100 | .450/.465 | 264/270 | 214/226 | 110" |
| | 4200 | .465/.485 | 270/280 | 221/232 | 110° |
| | 4600 | .490/.485 | 274/280 | 226/232 | 110° |
| | 5300 | .484/.505 | 280/292 | 232/244 | 110° |
| | 5400 | .505/.525 | 292/304 | 244/256 | 110° |
| | 1000000 | ************ | | | 2000 |
| Chevy 454 | 4000 | .527/.527 | 270/280 | 221/224 | 110° |
| | 4100 | .510/.525 | 264/270 | 214/221 | 110° |
| | 4200 | .525/.545 | 270/280 | 221/232 | 110° |
| | 4600 | .495/.495 | 286/296 | 224/234 | 110° |
| | 5300 | .549/.573 | 280/292 | 232/244 | 110° |
| | 5400 | .573/.595 | 292/304 | 244/256 | 110° |
| Ford 351C, 390-428 | 4100 | .525/.540 | 264/270 | 214/221 | 110° |
| 429, 460 | 4200 | .540/.565 | 270/280 | 221/232 | 110° |
| TEO, TOV | TEVV | 10-TVT 1000 | 270/200 | EE HEGE | 117 |
| HYDRAULIC ROLLER | 2.000.0000 | processory, contrast. | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | /00/07/2000 |
| Chevy 350 | 4300 | .530/.550 | 282/294 | 234/246 | 110° |
| 454 | 4300 | .578/.608 | 284/294 | 238/248 | 110° |
| SOLID LIFTER | | | | | |
| Chevy 262,350 | 4100S | .495/.501 | 276/286 | 242/252 | 110° |
| Chrysler, Pontiac | 4200S | .507/.525 | 282/288 | 247/254 | 110° |
| Chrysler, Pohllac | | | | | |
| | 4300S | .525/.555 | 288/296 | 254/264 | 110° |
| | 4400S | .555/.570 | 296/306 | 264/272 | 110" |
| | 4500S | .570/.585 | 320/330 | 274/284 | 110° |
| Chevy 454 | 4100S | .561/.568 | 276/286 | 242/252 | 110° |
| onery nor | 4200S | .570/.580 | 282/288 | 247/254 | 110° |
| | 4300S | .580/.590 | 288/294 | 254/280 | 110° |
| | 4400S | .630/.645 | 296/306 | 264/272 | 110° |
| | 4500S | .646/.663 | 320/330 | 274/284 | 110° |
| | 4700S | .605/.620 | 290/294 | 250/260 | 114" |
| | | | | | |
| Ford 351C, 429-460 | 4400S | .645/.665 | 296/306 | 264/272 | 110° |
| ROLLER | | | | | |
| Chevy 262, 350 | 4100R | .482/.525 | 278/280 | 234/240 | 110° |
| Chrysler, Pontiac | 4200R | .525/.531 | 280/290 | 240/248 | 110° |
| 35. % | 4300R | .570/.602 | 290/300 | 250/260 | 110° |
| | 4400R | .615/.630 | 300/310 | 266/276 | 110+ |
| | 4500R | .630/.630 | 318/322 | 282/290 | 110° |
| | | | | ALCOHOL - AVAILABLE IN | |
| Chevy 350 | 4100R | .485/.525 | 278/280 | 234/240 | 110° |
| , | 4200R | .525/.531 | 280/290 | 240/248 | 110° |
| | 4300R | .570/.602 | 290/300 | 250/260 | 110° |
| | 4400R | .615/.630 | 300/310 | 266/276 | 110° |
| | 4500R | .630/.630 | 318/322 | 282/290 | 110° |
| | | | | ALCOHOL - AVAILABLE IN | |
| Chevy 454 | 4100R | .550/.560 | 278/284 | 238/244 | 110° |
| | 4200R | .560/.602 | 284/290 | 244/250 | 110° |
| | 4300R | .602/.640 | 290/294 | 250/260 | 110° |
| | 4400R | .621/.631 | 304/318 | 264/274 | 110° |
| | | .02.11.001 | 204010 | EG-EF- | |
| | 4500R | .714/.714 | 318/322 | 284/292 | 110° |

■ **BDS** STORE

BDS offers a variety of high quality shirts that enable you to be a part of the BDS team. The shirts are made from 100% cotton and are available in sizes small to triple extra large. Make sure to specify the style and size of shirt you want when ordering.

| Part No. | Description | | | | | |
|-----------|---|--|--|--|--|--|
| AP-1 | BLACK APRON, BDS ENGINE LOGO. | | | | | |
| BAN-1 | BDS BANNER with ENGINE LOGO, 3FT. X 8FT. | | | | | |
| BAN-3 | "BLOWN TO BE WILD" Banner, 2.5FT. x 4FT. | | | | | |
| D-1 | BDS CUT OUT DECAL, 2° X 6", red, yellow, black, | | | | | |
| | and white. | | | | | |
| D-3 | BDS DECAL, 4" X 12", white, blue, and black. | | | | | |
| KEYRING | BDS Nostalgia keyring, anodized in Blue, red, | | | | | |
| | and black | | | | | |
| PIN-1 | NOSTALGIA LAPEL PIN. | | | | | |
| PLA-1 | NOSTALGIA ENGINE LOGO METAL WALL PLAQUE | | | | | |
| | in black and grey. (Measures 23.5" x 18") | | | | | |
| PLA-2 | New Color BLOWN ENGINE LOGO METAL WALL | | | | | |
| | PLAQUE. (Measures 21.5" x 14") | | | | | |
| HAT-1 | BDS BASEBALL HAT, 1 COLOR, 2003 LOGO. | | | | | |
| JKT-1 | NOSTALGIA BLACK RACING LOGO, | | | | | |
| | WINDBREAKER. | | | | | |
| SWEAT-1 | BDS RACING, SWEATSHIRT. | | | | | |
| SHIRT-1 | "INJECTION IS NICE", T-SHIRT | | | | | |
| SHIRT-2 | BDS ENGINE LOGO, T-SHIRT, grey only. | | | | | |
| SHIRT-3 | "ALL THROTTLE", T-SHIRT, black only. | | | | | |
| SHIRT-4AL | BDS RACING AIR-LOC LOGO, T-SHIRT, black only. | | | | | |
| SHIRT-00 | 2000 LOGO, T-SHIRT, white only | | | | | |
| SHIRT-02 | 2002 CLASSIC ENGINE LOGO, T-SHIRT | | | | | |
| SHIRT-03 | 2003 BDS LOGO, T-SHIRT, white only. | | | | | |
| SHIRT-05 | EFI LOGO T-SHIRT white only | | | | | |
| SHIRT-07 | 38th ANNIVERSARY, T-SHIRT, | | | | | |
| | "BLOWN TO BE WILD" Logo, grey only. | | | | | |

NO EXCHANGES OR RETURNS ON WASHED OR WORN APPAREL.

38th ANNIVERSARY Banner















#Shirt - 03





#Shirt -3



BDS POLICIES

LIMITED WARRANTY

BDS manufactured products are warranted to be free from defects in material and workmanship for a period 90 days. This warranty is extended to the original consumer. There are no other warranties, which extend beyond those stated here. Any implied warranty determined to be applicable is limited in duration of this warranty.

NON-BDS PRODUCT WARRANTIES

On non BDS product warranties: final warranty determination will be in the sole discretion of the manufacturer. BDS shall not be responsible for (a) actual or alleged labor, transportation or other incidental charges; or (b) actual or alleged consequential or damages incurred by use of any products purchased from BDS. To make a warranty claim, contact BDS Customer Service Department for a R.A.#, which needs to be visible on the outside of the box. No C.O.D.'s will be accepted. All shipping charges are the responsibility of the customer. When we receive the part it will be returned to the manufacturer for inspection. They will advise us on their decision to either repair or replace the part. While waiting, you may purchase a replacement part, it can not be returned if it has been used, even if the manufacturer warrantied your part.

PRICES

BDS catalogs and price sheets contain unique and specific information related to the products we manufacture. However, specifications and prices are subject to change without notice. BDS is not responsible for printing errors. All prices are quoted in U.S. dollars and are F.O.B. Blower Drive Service warehouse, Whittier California.

PRODUCT UPGRADES/CHANGES

BDS reserves the right at any time and without prior notification or liability to change or improve the design of any products, to add products or to discontinue products. Any such acts will not give rise to obligation to accept returns or to update the design of any such prior product.

PAYMENT

DEPOSITS: Deposits may be made using credit cards, personal and company checks, money orders, cashiers checks, certified checks, and of course cash. We strongly recommend that you do not send cash by mail. Personal and company checks are a handy way to pay however, some delay may occur due to bank clearance time. Also if your order comes to an amount in excess of the check amount (price increase, freight discrepancy, etc.) the balance due may be sent C.O.D.

CREDIT CARDS: We accept Visa, Master Card, American Express, and Discover. When paying with a credit card, please have your card number and expiration date available or include them with your order in the spaces provided.

C.O.D: All C.O.D's will be sent cashiers check or money order unless other arrangements are made and approved prior to shipping. Whenever possible, you will be mailed an order "Confirmation" showing all items ordered and their prices along with other pertinent order information.

FOREIGN ORDERS

All foreign orders require payment in advance. Payment must be made with Visa, Master Card, American Express, or Discover credit cards only. Where available, orders will be shipped via U.P.S. Otherwise Parcel Post or an air freight company.

DAMAGED SHIPMENT

Upon receipt of an obviously damaged package, you have the option of refusing delivery and the order will be returned to Blower Drive Service Co. or you may receive the order and make note of the visible damage, in writing, to the carrier. If upon inspection of the parts you find them damaged due to the carrier's handling, you then have 48 hours to file a formal claim with the carrier, DO NOT RETURN DAMAGED PARTS TO US. Keep the package and parts in the condition in which you received them. Without the package, the carrier will void your claim.

SHORTAGES

Any Shortages and/or discrepancies must be reported within 10 days from the receipt of merchandise.

RETURN PARTS AUTHORIZATION

A.R.A. number does not guarantee a replacement or refund, but only that we will inspect the merchandise based on your claim. Electrical parts are not returnable. Returns after 60 days will not be accepted, exchanged or refunded. Merchandise shipped in error will be exchanged or refunded, at no charge. We cannot be responsible for unauthorized returns. NO RETURNS ACCEPTED ON SPECIAL ORDER MERCHANDISE.

REFUSED SHIPMENTS

Any customer who refuses delivery of an order (damaged shipment excluded) will be required to pay the additional return freight charges and/or 20% restock fee. These charges must be paid in full before any future orders will be shipped.

BACK ORDERS

If any item in your order happens to be out of stock at the time your order is shipped, those items will be placed on back order for you and duty noted on your invoice/packing slip. If after 30 days your back order is not tilled, you will receive an inquiry to determine if you still want the parts to remain on back order or funds returned and the parts taken off of the back order list. No back orders will be kept on orders shipped outside the United States.

SHIPPING

All orders are sent via United Parcel Service. Next day or second day air service is also available. Some items may be too large or too heavy to ship via U.P.S. therefore these items will be sent via common carrier or air treight. Shipping and handling charges are billed at the prevailing rate and added to the invoice.



PHOTO GALLERY PIT STOP



#8007-M Chevy (671-871) Competition Manifold



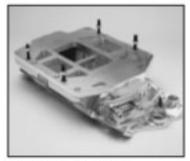
#8204A Buick 231 (471) manifold



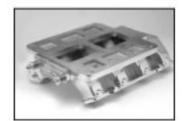
Chevrolet SB Distributor Clearance (671)



#8106A AMC (671-871) Manifold



#8006 with #10004



#8386-H Manifold (671-871)



BB Chevy 871 Big & Ugly E.F.I. 16 Nozzle Kit.



Oldsmobile 455, 871, 8mm drive kit, dual carbs with scoop. (right view)



PHOTO GALLERY PIT STOP



Chrysler 318-360, 671, 8mm drive kit, bugcatcher 16 nozzle EFI system.



Chevy SB 671, 8mm drive kit, bugcatcher 16 nozzle EFI system, fuel rails, color add option. (right view)



Ford 351C, 671, 1/2" pitch drive kit, dominator carbs with scoop.



Chevy 350, 671, 1/2" pitch drive, dual carbs with scoop (right view)



IBLOWER DRIVE SERVICE

QUALITY SUPERCHARGER MANUFACTURING

Welcome to the world of supercharging. We appreciate you giving us the opportunity to present supercharging at its finest. Blower Drive Service Co. (BDS) is dedicated to supercharging and horsepower, that's what we do.

BDS has been building blowers and related supercharging equipment for over 30 years. Recognized as the world's foremost authority on quality aftermarket supercharging systems, BDS is continually developing new ideas and products to enhance and simplify the supercharged engine. The "Hands On" experience BDS has gained over the years with such a wide variety of applications, enables BDS to supply you with information and products specifically tailored to meet your supercharging needs.

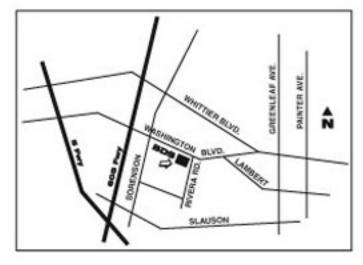
The quality and reliability of BDS superchargers is legendary. BDS equipped vehicles seem to be in a class by themselves, delivering not only the looks, but the performance to back it up. Show after show, race after race, BDS has what it takes to keep you on top. Blower Drive Service, the supercharging specialists!



Chrysler 440



Ford 302





471-1671 Blowers



BOOST CHART WORKSHEET

| Name: | | | Vehicle: | | | | | _ Blower size: | | | Date: | | |
|-----------------|------|------|----------|-----|-----|-----|------|----------------|------|------|-------|------|------|
| Cubic Inches | -20% | -15% | -10% | -5% | 1:1 | +5% | +10% | +15% | +20% | +25% | +30% | +35% | +40% |
| 289 | | | | | | | | | | | | | |
| 327 | | | | | | | | | | | | | |
| 350 | | | | | | | | | | | | | |
| 400 | | | | | | | | | | | | | |
| 427 | | | | | | | | | | | | | |
| 454 500 | | | | | | | | | | | | | |
| 500 | | | | | 0.1 | | | | | | | , I | |
| 550 | | | | () | | | | | | | | | |

NOTES:

| Name: | | venicle: | | | | | | | slower st | ze: | Date: | | |
|------------------------|-----|----------|------|------|------|------|------|------|-----------|------|-------|------|------|
| Oubic Inches | 1:1 | +5% | +10% | +15% | +20% | +25% | +30% | +35% | +40% | +45% | +50% | +55% | +60% |
| Cubic Inches 400 | | | | | | | | | | | | | |
| 450 | | | | | | | | | | | | | |
| 500 | | | | | | | | | | | | | |
| 550 | | | | | | | | | | | | | |
| 600 | | | | | | | | | | | | | |
| 650 | | | | | | | | | | | | | |
| 700 | | | | | | | | | | | | | |

NOTES:

750

