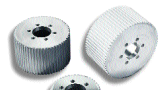




HOLLEY SUPERCHARGER COMPONENTS

CARBURETORS
FUEL INJECTION
FUEL PUMPS REGULATORS
INTAKE MANIFOLDS
SUPERCHARGERS
FLAME ARRESTORS THROTTLE BODIES
IGNITION SYSTEMS & COMPONENTS
CRANKSHAFTS
HEADERS
WATER COMPONENTS
VALVE COVERS
TECHNICAL INFORMATION
INDEX



93102



93114



93122



155161



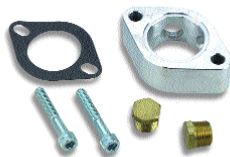
90845



155162



155165



7900-174

Pulleys

Part #

420 MEGABLOWER™

- 45-tooth, 8mm Gilmer-style
- 52-tooth, 8mm Gilmer-style
- 56-tooth, 8mm Gilmer-style
- 60-tooth, 8mm Gilmer-style
- 64-tooth, 8mm Gilmer-style
- 68-tooth, 8mm Gilmer-style
- 72-tooth, 8mm Gilmer-style

- 93102
- 93106LUN
- 93110LUN
- 93114LUN
- 93118
- 93122
- 93126

- 16-rib, 5.00" diameter
- 16-rib, 5.40" diameter
- 16-rib, 5.80" diameter
- 16-rib, 6.30" diameter
- 16-rib, 6.75" diameter

- 155215
- 155216
- 155217
- 155218
- 155219

Thermostat Housings

Part #

- Offset thermostat adapter
- Thermostat spacer

- 90845
- 155161

Water Crossovers

Part #

- Water Distribution Block – polished finish
- Universal Crossover Adapter – polished finish

- 155162
- 155165

The water crossover adapter replaces the stock water pump and attaches to the manifold replacing the thermostat housing or adapter. This allows more cooling to the cylinder heads. It's made with corrosion-resistant electroplated stainless steel. The crossover adapter is also made of stainless steel to resist corrosion.

GM Thermostat adaptor

Part #

- Billet aluminum
- Anodized hard coat
- Two (2) 1/2" - 14NPT holes
- Fits stock t-stat flange

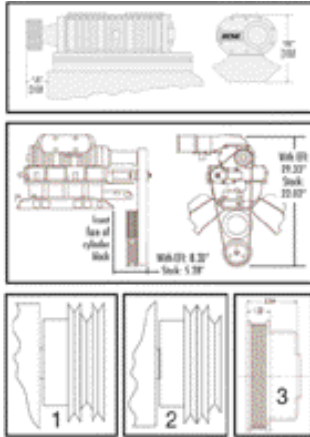
- 7900-174

AIR SYSTEMS



SUPERCHARGER KIT	INTAKE MANIFOLD	BLOWER TO MANIFOLD GASKET	CARB TOPPLATE TO BLOWER GASKET	IDLER ASSEMBLY	CRANK PULLEY	IDLER PULLEY
77-250CBBP-1	91092	93330	91185		91089	93241
77-420CBBP-1	93218	93330	91185			93240
155010	90581	90524		91163	93352	91179
155020	90585	90565		155258	90830	91179
155050-1	91092	93330	91185	155252	155251	155254
155120	93218	93330				93240
155125	93219	93330				93240
155130	93218	93330		155252		
155135	93219	93330		155252		
155032/155052	155279	155285	91185			

SUPERCHARGER KIT	DRIVE BELT	INPUT HOUSING ASSEMBLY	POP-OFF VALVE ASSEMBLY	POP-OFF VALVE GASKET	THREE GROOVE CRANK PULLEY
77-250CBBP-1	93266	91155	93335	93333	
77-420CBBP-1	93265	94288	93335	93333	
155010	90825	90885			155255
155020	90899/90827	90890			155250
155050-1	155260	91093			155250
155120	93265	94288	93335	93333	155250
155125	93265	94288	93335	93333	155250
155130	155261	94288			155250
155135	155261	94288			155250
155032/155052	155287/155273				



Dimensions

In the listings for each Supercharger Kit you will find Dimension 'A' and Dimension 'B' given for each. Note that Dimension 'A' on each drawing is measured from the front machined face of the block, to the outer edge of the blower drive belt/pulleys. Measuring from the front face of a stock harmonic balancer, subtract 2.92" for small blocks and 3.12" for big blocks from Dimension "A" given in the charts.

Holley now offers only the aluminum 3 groove pulley in drawing 1 with its MerCruiser blower kits. This pulley is found on most late model MerCruiser engines. Pulley in drawing 2 is found on pre-'89 MerCruisers and is made of stamped steel and requires a Holley spacer to interface with the Holley blower drive pulley. Should you have pulley 'B', return your unused pulley 'A' for the correct spacer.



WEIAND SUPERCHARGERS - INTRODUCTION

Pro-Marine Supercharger Illustration and Dimensions

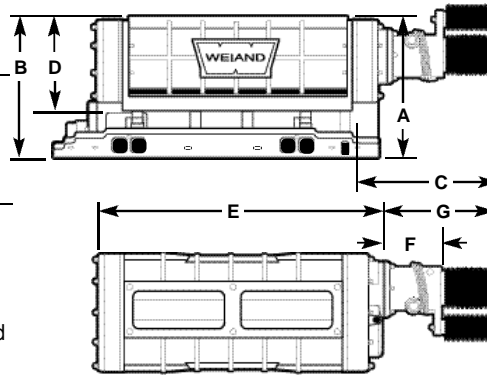
WEIAND's Pro-Marine Supercharger is Engineered and Manufactured for Superior Strength and Durability. Judge for yourself.

The WEIAND Way of Supercharging

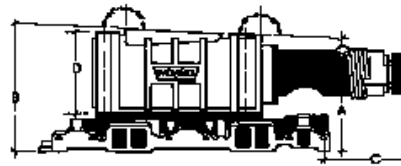
- Exclusive CAD designed 2 lobe rotor provides maximum boost pressure efficiency.
- Thick rotor walls prevent rotor growth under high RPM, allowing use of tight clearances.
- Thick, wide supercharger mounting surface on both manifold and case resists twist and ensures a good seal.
- Weiland manifolds ensure equal distribution of fuel/air mixture for maximum horsepower increases.
- Low profile design-fits under most hoods.
- Heavy duty bearing plates use ball bearings instead of needle bearings for extended bearing life.
- Front and rear bearings are lubricated by oil reservoir.
- Integrated tensioner arm design eliminates possibility of belt failure.

Pro-Marine vs. Stock

The WEIAND Pro-Marine 142 Supercharger can provide dramatic power and torque increases. As an example, we tested the blower on a mild small block Chevy V-8. Without the blower the engine made just over 260 hp at 4,500 rpm. With the WEIAND Pro-Marine supercharger the engine made just under 360 hp at 4,500 rpm (**nearly a 100 hp increase**) and it made a whopping 390 hp at 5,500 rpm, a total gain of 130 hp representing a full 50% increase in power. The WEIAND Pro-Marine Supercharger is particularly strong in the lower rpm ranges with substantial torque increases in the speeds where you run your vessel the most.



256



142-177

PRO-MARINE SUPERCHARGER-DIMENSIONS

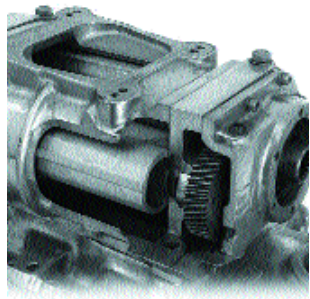
142 and 177 BB dimensions are with 6-rib pulley
 177 SB dimensions are with 10-rib pulley
 256 dimensions are with 16-rib pulley

SIZE	APPLICATION	A	B	C	D	E	F	G
142*	Chevy S/B, Long Nose, '86 only	7-5/8"	8-15/16"	9-1/4"	5-5/8"	12-15/16"	10-1/16"	11-1/8"
142*	Chevrolet S/B, Long Nose	7-5/8"	8-15/16"	8-1/4"	5-5/8"	12-15/16"	9-1/16"	10-1/8"
142*	Chevrolet S/B, Short Nose	7-5/8"	8-15/16"	7"	5-5/8"	12-15/16"	7-13/16"	8-7/8"
177	Chevrolet S/B, Long Nose	9-9/16"	10-15/16"	8-9/16"	5-15/16"	14-13/16"	7-1/16"	8-11/16"
177	Chevrolet S/B, Short Nose	9-9/16"	10-15/16"	7-5/16"	5-15/16"	14-13/16"	5-13/16"	7-7/16"
177*	Chevrolet B/B, Long Nose	9-1/4"	10-5/8"	7-7/8"	5-15/16"	14-13/16"	9-1/16"	10-1/8"
177*	Chevrolet B/B, Short Nose	9-1/4"	10-5/8"	6-5/8"	5-15/16"	14-13/16"	7-13/16"	8-7/8"
256	Chevrolet B/B, 256	10-1/2"	10-1/2"	9-1/4"	6-1/8"	19-1/2"	5"	7-1/2"

*For 10-Rib dimensions add .600" to dimension C & G.
 Dimensions A & B listed for 256 are less carburetor adapter. Add 1" to dimensions A & B for carburetor adapter.

- CARBURETORS
- FUEL INJECTION
- FUEL PUMPS
- FUEL REGULATORS
- INTAKE MANIFOLDS
- SUPERCHARGERS**
- FLAME ARRESTORS
- THRUSTLE BODIES
- IGNITION SYSTEMS & COMPONENTS
- CRANKSHAFTS
- HEAVERS
- WATER COMPARTMENTS
- VALVE COVERS
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AIR SYSTEMS



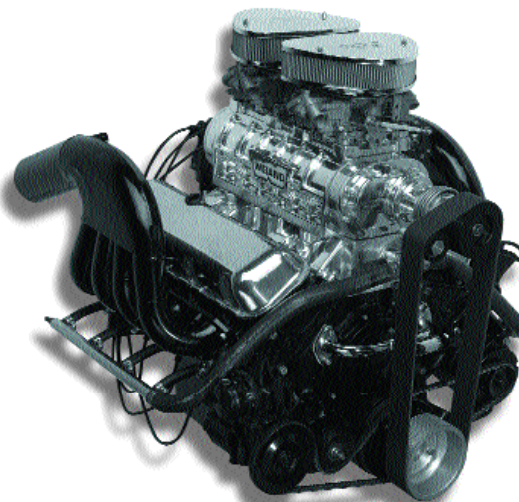
142-256 WEIAND PRO-MARINE SUPERCHARGERS

The WEIAND Pro-Marine supercharger is the most efficient and effective way to achieve a substantial gain in horsepower and torque for your Chevrolet V-8 inboard or MerCruiser stern-drive powered boat. Extra power is available and it's always there when you need it, whether it's pulling up water skiers, reaching plane quickly or any time you need to accelerate quickly. Although it is mechanically belt-driven off the crankshaft, the supercharger generates boost only when the throttle is opened sufficiently to induct a significant volume of air and fuel. The WEIAND Pro-Marine supercharger series is so proven and dependable that MerCruiser specified their HP 525SC high performance stern-drive package be equipped with this system.

Pro-Marine supercharger kits can be ordered for both the small block and big block Chevrolet V-8 engines and they're available with either the standard satin finish or a custom, highly-polished finish.

Due to the wide variety of installation possibilities it may be necessary to contact the Holley Technical Services Department for personalized application information.

BLOWER SIZE (CID)	CHEVROLET MARINE ENGINE/ MERCUISER CRANK PULLEY	PULLEY	SATIN FINISH	POLISHED FINISH
142	Small block/Steel 3V	10-rib	6514-1	6516-1
142	Small block/Alum. 3V	10-rib	6517-1	6519-1
177	Big block oval port/Steel 3V	10-rib	6524-1	6526-1
177	Big block oval port/Alum. 3V	10-rib	6527-1	6529-1
177	Big block rect. port/Steel 3V	10-rib	6534-1	6536-1
177	Big block rect. port/Alum. 3V	10-rib	6537-1	6539-1
256	Big block rect. port/Steel 3V	16-rib	6544-1	6546-1
256	Big block rect. port/Alum. 3V	16-rib	6547-1	6549-1





DRIVE RATIOS* – PRO-MARINE SUPERCHARGER

DRIVEN PULLEY DIAMETER	DRIVE RATIO w/6" DRIVE PULLEY	SUPERCHARGER RPM @ 5000 ENGINE RPM	DRIVE RATIO w/ 6.5" DRIVE PULLEY ¹	SUPERCHARGER RPM @ 5000 ENGINE RPM	DRIVE RATIO w/ 7" DRIVE PULLEY	SUPERCHARGER RPM @ 5000 ENGINE RPM
2.85"	2.10:1	10,500	—	—	2.44:1	12,200
3.07"	1.95:1 ²	9,750	2.12:1	10,600	2.28:1	11,400
3.25"	1.85:1	9,250	2.00:1	10,000	2.15:1	10,750
3.50"	1.71:1 ³	8,550	1.86:1	9,300	2.00:1	10,000
3.75"	1.60:1	8,000	1.73:1	8,650	1.87:1	9,350
4.00"	1.50:1	7,500	1.63:1	8,150	—	—
4.25"	1.40:1 ⁴	7,000	1.53:1	7,650	—	—

*All Pro-Marine drive ratios are overdriven.

- 6.5" optional drive pulley for 256 only
- Drive ratio supplied w/ Pro-Marine S/B 142 and B/B 177
- Drive ratio supplied w/ Pro-Marine S/B 177
- Drive ratio supplied w/ Pro-Marine 256

Top Driven Pulley

APPLICATION	10-RIB PART NO.	16-RIB PART NO.
2.85" top driven pulley	6890	—
3.07" top driven pulley	6891	6691 ⁵
3.25" top driven pulley	6892	6692 ⁵
3.50" top driven pulley	6893	6693 ⁵
3.75" top driven pulley	6894	6694
4.00" top driven pulley	—	6695
4.25" top driven pulley	—	6696



5. These pulleys are not to be used with 6" bottom pulley. For high boost applications, use 6.5" bottom pulley #6627.

Lower Drive Pulley

BLOWER SIZE	APPLICATION	6" & 6.5" 16-RIB PULLEY		7" HI-PERF. 10-RIB PULLEY	
		USE W/ STOCK STEELPULLEY	REPLACES STOCK ALUM. PULLEY	USE W/ STOCK STEELPULLEY	REPLACES STOCK ALUM. PULLEY
142 & 177	Chevrolet small block with long nose			6817WIN	6819WIN & 6833WIN
177	Chevrolet big block with long nose			6827WIN	6829WIN & 6833WIN
256	Chevrolet big block	6617 (6")	6829/6632 (6")		
256	Chevrolet big block	6627 (6.5")	6829 & 6634 (6.5")		

Serpentine Drive Belts

Idler Pulley

	PART #
10-RIB, Pulley, Idler	6899
16-RIB, Pulley, Idler	6699

APPLICATION	w/6" DRIVE PULLEY		w/7" DRIVE PULLEY
	10-RIB PART NO.	16-RIB PART NO.	10-RIB PART NO.
Chevrolet S/B 142	6800	—	6801 ⁶
Chevrolet S/B 177	6806WIN ⁷	—	6807
Chevrolet B/B 177 Std. block	6802WIN	—	6803WIN ⁸
Chevrolet B/B 256	—	6602 ⁹	—

6. Belts listed are for use w/ 3.07" diameter top pulley (included w/ Pro-Marine S/B 142 & B/B 177)

7. Belt listed is for use w/ 3.50" diameter top pulley (included w/ Pro-Marine S/B 177)

8. Belts listed are for use w/ 3.50" diameter top pulley.

9. Belt listed is for use w/ 4.25" diameter top pulley (included w/ Pro-Marine)

To estimate effective compression ratio and supercharger boost pressure, see next page

- CHEVROLET
- FUEL INJECTION
- FUEL PUMPS REGULATORS
- INTAKE MANIFOLDS
- SUPERCHARGERS
- FLAME ARRESTORS THROTTLE BODIES
- RACING SYSTEMS & COMPONENTS
- CRANKSHAFTS
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Estimating Supercharger Boost Pressure (estimated in lbs. per square inch)

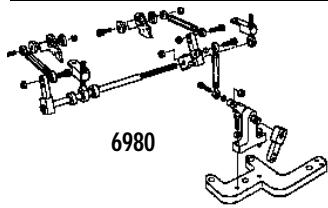
PRO-MARINE 142 SUPERCHARGER Chevrolet Small Block V-8 Engine with 6" Diameter Lower Drive Pulley					
Cubic Inches	Driven Pulley Part # (6-Rib)				
	6790	6791	6792	6793	6794
283	12.3	10.3	9.0	7.3	5.8
327	8.6	6.9	5.9	4.3	3.1
350	7.1	5.5	4.5	3.1	—
400	4.4	3.0	—	—	—

PRO-MARINE 142 SUPERCHARGER Chevrolet Small Block V-8 Engine with 7" Diameter Lower Drive Pulley					
Cubic Inches	Driven Pulley Part # (6-Rib/10-Rib)				
	6790/6890	6791/6891	6792/6892	6793/6893	6794/6894
327	12.4	10.6	9.2	7.5	6.0
350	10.6	8.9	7.6	6.0	4.7
400	7.5	6.0	4.8	3.5	—

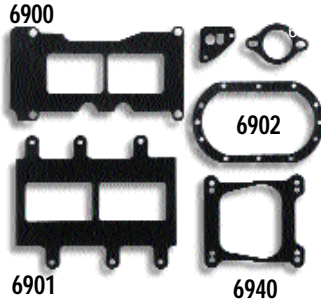
PRO-MARINE 177 SUPERCHARGER Chevrolet Small/Big Block V-8 Engine with 7" Diameter Lower Drive Pulley					
Cubic Inches	Driven Pulley Part # (6-Rib/10-Rib)				
	6790/6890	6791/6891	6792/6892	6793/6893	6794/6894
350	16.8	10.6	9.2	7.5	6.0
400	10.6	8.9	7.6	6.0	4.7
427	7.5	6.0	4.8	3.5	—
454	7.5	6.0	4.8	3.5	—
502	7.5	6.0	4.8	3.5	—

PRO-MARINE 256 SUPERCHARGER Chevrolet Big Block V-8 Engine with 6" Diameter Lower Drive Pulley			
Cubic Inches	Driven Pulley Part # (16-Rib)		
	6694	6695	6696
427	7.5	6.0	4.8
454	7.5	6.0	4.8
502	7.5	6.0	4.8

PRO-MARINE 256 SUPERCHARGER Chevrolet Big Block V-8 Engine with 6.5" Diameter Lower Drive Pulley						
Cubic Inches	Driven Pulley Part # (6-Rib/10-Rib)					
	6691 (<)	6692 (>)	6693 (>)	6694	6695	6696
427	16.8	10.6	9.2	7.5	6.0	8.8
454	10.6	8.9	7.6	6.0	4.7	7.4
502	7.5	6.0	4.8	3.5	—	5.3



6980



6900

6902

6901

6940



6988



6220



6240



6230

Carburetor Linkage⁴

256 w/side-mounted 4150 carburetors

Part #

6980^{1,2}

256 w/in-line 4160 carburetors

6981^{2,3}

1. #6980 Designed to fit mechanical secondary carburetors.
2. Not designed to fit some vacuum secondary carburetors.

3. Not designed to fit some mechanical secondary carburetors.
4. All kits feature needle bearings and spherical rod end bearings with stainless steel shafts.

Gaskets

Part #

Supercharger to manifold, Chevrolet S/B 142

6900

Supercharger to manifold, Chevrolet S/B, B/B 177

6901

Supercharger to manifold O-Ring for Chevrolet B/B 256

6904

Bearing plate to front and rear cover, Chevrolet (all)

6902

Spread-bore carburetor to supercharger, Chevrolet (142/177)

6940

Water outlet/thermostat housing to manifold, Chevrolet V8

6941

Carburetor Adapter to Blower 256 – Dual 4V or Single 4V

7080WIN

Stainless Steel Bolts/Stud Kits

Part #

Chevrolet S/B, incl. bolts and washers 142

6992

Chevrolet B/B, incl. studs and flange nuts 177

6993

Chevrolet B/B, incl. studs and flange nuts 256

6994

Stainless Steel Pressure Relief Valve

Part #

Valve, Pressure relief (1/8" NPT), All

6988^{5,6}

5. Adapter is supplied for 1/4" NPT applications

6. Not designed for some vacuum secondary carburetors

Stainless Steel Socket Cap Screw Kit

Part #

Kit, Stainless Steel Cap Screws

6991

Note: These cap screws replace the black screws used in assembly of the satin Pro-Marine superchargers.

Water Outlet Adapters – Offset

Part #

Chevrolet S/B, B/B V-8's

SATIN
6220

POLISHED
6221WIN

Pro-Marine 256 Supercharger

6240

6241

Water Outlet Spacer

Part #

Chevrolet S/B, B/B V-8's

SATIN
6230WIN

POLISHED
6231WIN

135

CARBURETORS
FUEL INJECTION
FUEL PUMPS & REGULATORS
INTAKE MANIFOLDS
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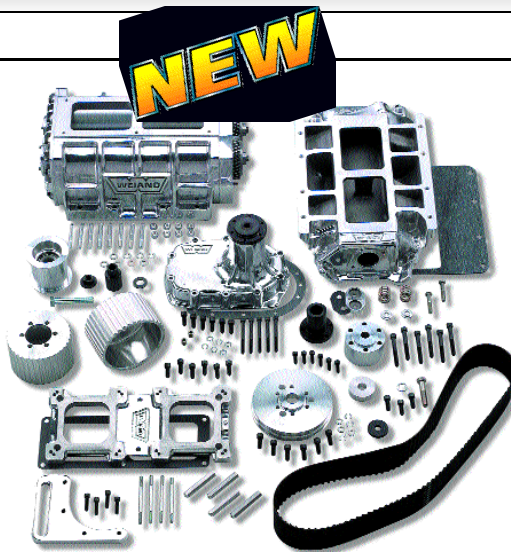
Tech Line: 270-781-9741



WEIAND 671 & 871 SUPERCHARGERS

New Features:

- Blower housing and 2-lobe rotor assembly are all new. All competitors use rebuilt rotors and components. Components are cast at the Weiland foundry and machined by Holley, in Bowling Green, KY.
- New case, covers, bearing plates and rotor profile were Pro-E modeled by Holley engineering and are CNC-machined at the Holley plant, assuring perfect component fit and tight tolerances for superior performance and reliability.
- Rotors are a special thick-wall casting that's designed to prevent "rotor growth". They are CNC precision-machined to maintain a very close tolerance with the case throughout the operating range.
- Shafts are made from a single, solid piece of 4340 hardened steel.
- Rotor and shaft assembly is size-matched to provide a precision fit and a tight rotor-to-case clearance.
- Front and rear end plates house deep-groove ball bearings that are designed for extreme duty.
- Front bearings are lubricated by oil bath.
- Rotor shafts are gasketed front and rear with a double-lipped, heavy duty Nitrile seal.
- Matched helical gears provide for smoother, quieter operation.
- The 671 and 871 mounts with a standard small cap distributor set up. There's no expensive offset style required.
- The Weiland supercharger manifold is designed to ensure near-equal distribution between cylinders, of the fuel/air mixture, for maximum efficiency and power.
- Realize a 14% average boost increase at 3750 RPM, over remanufactured units.
- The net result is more power, more performance and more smiles to the mile!



671 (w/1/2" PITCH DRIVE)
SMALLBLOCK CHEVROLET



Applications:

- 671 kits are available for small block and big block Chevrolet engines with either 1/2" pitch or 8mm drive. 871 kits are available for big block Chevrolet engines with 8mm drive.

Warning: Weiland does not recommend using either 671 or 871 Superchargers in the marine environment within an enclosed engine compartment. There is a high risk of fire or explosion if the engine backfires.



NEW

Weiland 671 & 871 SUPERCHARGER KITS

APPLICATION	PART NO.	PARTNO.	STANDARD DRIVE RATIO %	
	SATIN	POLISHED	1/2"	8mm

671 Supercharger Kits – 1/2" Pitch

Chevrolet S/B	7482	7482P	-10.5	-11.5
Chevrolet B/B 396-502 ² - std. deck	7483	7483P	-7.9	-8.5

671 Supercharger Kits – 8mm

Chevrolet S/B	7487	7487P	-10.5	-11.5
Chevrolet B/B 396-502 ² - std. deck	7488	7488P	-7.9	-8.5

871 Supercharger Kits - 8mm

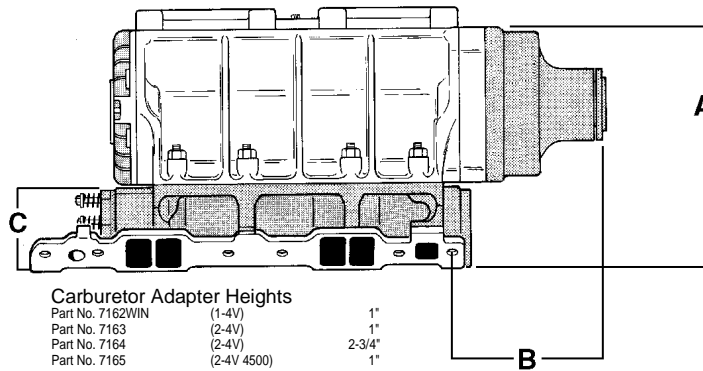
Chevrolet B/B 396-502 - std. deck	7189	7189P	N/A	-11.5
Chevrolet B/B 396-502 ² - tall deck	N/A	7198P	N/A	-4

2. GM HEI distributor will not clear
("—" means under driven)

NOTE: These standard drive ratios will normally provide 5 - 8 PSI on a 350 small block or a 454 big block.

671 & 871 Superchargers Dimensions

BLOWER SIZE	APPLICATION	DIMENSIONS (INCHES)		
		A	B	C
671	Chevrolet S/B	11-3/16	8-3/8	3-11/16
	Chevrolet B/B, standard deck	11-15/16	6-3/16	4-7/16
	Chevrolet B/B, tall deck	12-5/16	6-3/16	4-13/16
871	Chevrolet B/B, standard deck	12-1/8	7-3/16	4-7/16
	Chevrolet B/B, tall deck	12-1/2	7-3/16	4-13/16



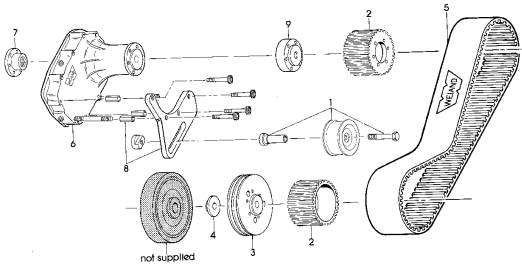
- CARBURETORS
- FUEL INJECTION
- FUEL PUMPS REGULATORS
- INTAKE MANIFOLDS
- SUPERCHARGERS**
- FLAME ARRESTERS THROTTLE BODIES
- RUNNING SYSTEMS & COMPONENTS
- CRANKSHAFTS
- HEADERS
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Tech Line: 270-781-9741

AIR SYSTEMS



671 1/2" Pitch Drive



Components Parts List for 1/2" Pitch Drives

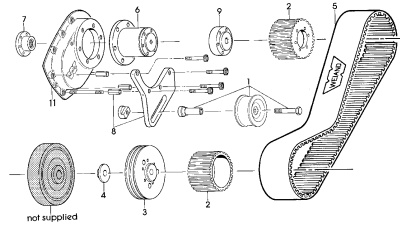
(Listed parts are included in 671, 1/2" pitch kits)

REF. NO	DESCRIPTION	PART NO.
1	Idler pulley assembly	7027
2	1/2" pitch drive pulley, specify tooth count, see page 139. (2-1/4" register)	7029
3b	2V accessory drive pulley (1-1/4" thick, 2-1/4" register), SB & BB Chevy only	7036
4a	Locating pilot, SB Chevrolet accessory drive pulley	7037
4b	Locating pilot, BB Chevrolet accessory drive pulley	7038
5	Drive belt, 1/2" pitch, Gilmer style	See Chart Page 139
6	Gear cover/nose drive assy. (6-13/16" long, 2-1/4" register)	7024
7	Coupler-nose drive to supercharger	7035
8a	Idler pulley bracket, SB Chevrolet 1/2" pitch (incl. hardware)	7065
8b	Idler pulley bracket, BB Chevrolet 1/2" pitch (incl. hardware)	7066
9a	2" spacer-upper pulley to nose drive, Chevrolet BB (2-1/4" register)	7055

For polished components, add a "P" after the part number when ordering.

All WEIAND drives are designed to be used with a stock harmonic dampner. The use of an aftermarket heavy duty steel dampner is highly recommended. Stock cast iron dampners are subject to fracture when used with a supercharger with a Gilmer style drive belt. All of WEIAND'S street 671 supercharger kits are supplied with a two V-groove pulley accessory drive and are designed to be used only with a short water pump. If your engine is a 1969 or later small block or a big block with a long water pump you will need to switch over to a short water pump and the appropriate accessory mounting brackets or applicable aftermarket brackets.

671 & 871 8mm Pitch Drive



Components Parts List for 8mm Pitch Drives

(Listed parts are included in 671 & 871 8mm pitch kits)

REF. NO	DESCRIPTION	PART NO.
1	Idler pulley assembly	7027
2	8 mm drive pulley, specify tooth count	7109
3a	3V accessory drive pulley	7114WIN
4a	Locating pilot, SB Chevrolet accessory drive pulley	7037
4b	Locating pilot, BB Chevrolet accessory drive pulley	7038
5	Drive belt, 8mm pitch, 1440mm long x 75mm wide	7100WIN
6a	Nose drive assembly (3-3/4" long, 2" register), SB Chevrolet only	7103WIN
6b	Nose drive assembly (4-13/16" long, 2" register), BB Chevrolet Street/Marine	7104WIN
7a	Coupler-nose drive to supercharger, SB Chevy	7034
7b	Coupler-nose drive to supercharger, BB Chevy	7035
8a	Idler pulley bracket, SB Chevrolet (871)	7069
8b	Idler pulley bracket, SB Chevrolet (671)	7067
8c	Idler pulley bracket, BB Chevrolet (671)	7068
8d	Idler pulley bracket, BB Chevrolet (871)	7070
9b	2" spacer-upper pulley to nose drive, BB Chevrolet (2" register)	7108WIN
11	Front gear cover (depth: 2")	7039

For polished components, add a "P" after the part number when ordering.



671 & 871 SUPERCHARGER PULLEYS & DRIVE RATIOS

Use the chart to the right to determine drive ratios for 671 1/2" pitch drive superchargers. Small block 671 kits are supplied standard with pulleys which will provide a 10.5% underdrive. Big block 671 kits are supplied with a 7.9% underdrive.

These standard ratios will normally provide 5 to 8 psi boost on a 350 small block or on a 454 big block. Please contact Holley Tech Service for any variations desired from these standard supplied ratios. Note that top and bottom pulleys are interchangeable.

1/2" Pitch Pulley / Drive Ratio Chart 1/2" Pulleys

		TOP PULLEY							
		32	33	34	35	36	37	38	39
BOTTOM PULLEY	32	0 ⁸⁴	-3.0 ⁶⁵	-5.9 ⁶⁶	-8.6 ⁶⁷	-11.1 ⁶⁸	-13.5 ⁶⁹	-15.8 ⁷⁰	-17.9 ⁷¹
	33	3.1 ⁶⁵	0 ⁸⁶	-2.9 ⁶⁷	-5.7 ⁶⁸	-8.3 ⁶⁹	-10.8 ⁷⁰	-13.1 ⁷¹	-15.4 ⁷²
	34	6.3 ⁶⁶	3.0 ⁶⁷	0 ⁸⁸	-2.8 ⁶⁹	-5.5 ⁷⁰	-8.1 ⁷¹	-10.5 ⁷²	-12.8 ⁷³
	35	9.4 ⁶⁷	6.1 ⁶⁸	2.9 ⁶⁹	0 ⁷⁰	-2.8 ⁷¹	-5.4 ⁷²	-7.9 ⁷³	-10.2 ⁷⁴
	36	12.5 ⁶⁸	9.1 ⁶⁹	5.9 ⁷⁰	2.8 ⁷¹	0 ⁷²	-2.7 ⁷³	-5.2 ⁷⁴	-7.7 ⁷⁵
	37	15.6 ⁶⁹	12.1 ⁷⁰	8.8 ⁷¹	5.7 ⁷²	2.8 ⁷³	0 ⁷⁴	-2.6 ⁷⁵	-5.1 ⁷⁶
	38	18.7 ⁷⁰	15.2 ⁷¹	11.7 ⁷²	8.5 ⁷³	5.6 ⁷⁴	2.7 ⁷⁵	0 ⁷⁶	-2.5 ⁷⁷
	39	21.9 ⁷¹	18.2 ⁷²	14.7 ⁷³	11.4 ⁷⁴	8.3 ⁷⁵	5.4 ⁷⁶	2.6 ⁷⁷	0 ⁷⁸

"0" represents a 1:1 drive ratio. Number in upper right hand corner of each cell represents total teeth count.

Note: All 1/2" pitch pulleys have a 2-1/4" diameter register pilot hole.

1/2" Pitch Pulley Drive Belts (3" width) ²

PART NO.	TOOTH COUNT			BELT LENGTH
	CHEV. V-8 262-400	CHEV. V-8 STD. DECK 396-454-502	CHEV. TALLDECK ¹	
7006	64 to 70			54.0"
7012	67 to 77			55.5"
7007	70 to 78	64 to 66		56.0"
7008	74 to 78	64 to 70		57.0"
7013		68 to 77	64 to 69	58.5"
7009		75 to 78	65 to 76	60.0"

Notes:

- The belts listed are for WEIAND supercharger kits installed on a Chevrolet B/B tall deck with either a WEIAND #8204 or #8206 manifold spacer kit or WEIAND's new manifold #7152 (satin) or #7152P(polished).
- 1/2" pitch measurement is taken from center of one tooth to center of next.

To find the belt length required and the part number for that belt, do the following: Add the number of teeth on your top and bottom pulley. Look in the belt chart to the right in the column under the engine you are using and find the number that equals the total teeth on your pulleys, then read to the left for the proper belt part number. For example, if you have a 38 tooth top pulley and a 34 tooth bottom pulley, the total is 72 teeth. If you have a small block you would use a #7012 55.5-inch long belt. If you had a standard deck big block you would use a #7013 58.5-inch long belt. If you had tall big block you would use a #7009 60-inch long belt.

8mm Pulley / Drive Ratio Chart

		TOPPULLEY									
		50	51	52	53	54	55	57	59	61	63
BOTTOM PULLEY	50	0 ¹⁰⁰	-2.0 ¹⁰¹	-3.8 ¹⁰²	-5.7 ¹⁰³	-7.4 ¹⁰⁴	-9.4 ¹⁰⁵	-12.3 ¹⁰⁷	-15.3 ¹⁰⁹	-18.0 ¹¹¹	-20.0 ¹¹³
	51	2.0 ¹⁰¹	0 ¹⁰²	-1.9 ¹⁰³	-3.8 ¹⁰⁴	-5.6 ¹⁰⁵	-7.3 ¹⁰⁶	-10.5 ¹⁰⁸	-13.6 ¹¹⁰	-16.4 ¹¹²	-19.0 ¹¹⁴
	52	4.0 ¹⁰²	2.0 ¹⁰³	0 ¹⁰⁴	-1.9 ¹⁰⁵	-3.7 ¹⁰⁶	-5.5 ¹⁰⁷	-8.8 ¹⁰⁹	-11.9 ¹¹¹	-14.8 ¹¹³	-17.5 ¹¹⁵
	53	6.0 ¹⁰³	3.9 ¹⁰⁴	1.9 ¹⁰⁵	0 ¹⁰⁶	-1.9 ¹⁰⁷	-3.6 ¹⁰⁸	-7.0 ¹¹⁰	-10.2 ¹¹²	-13.1 ¹¹⁴	-15.9 ¹¹⁶
	54	8.0 ¹⁰⁴	5.9 ¹⁰⁵	3.8 ¹⁰⁶	1.9 ¹⁰⁷	0 ¹⁰⁸	-1.8 ¹⁰⁹	-5.3 ¹¹¹	-8.5 ^{113a}	-11.5 ^{115a}	-14.3 ^{117a}
	55	10.0 ¹⁰⁵	7.8 ¹⁰⁶	5.8 ¹⁰⁷	3.8 ¹⁰⁸	1.9 ¹⁰⁹	0 ¹¹⁰	-3.5 ¹¹²	-6.8 ¹¹⁴	-9.8 ¹¹⁶	-12.7 ¹¹⁸
	57	14.0 ¹⁰⁷	11.8 ¹⁰⁸	9.6 ¹⁰⁹	7.5 ¹¹⁰	5.6 ¹¹¹	3.6 ¹¹²	0 ¹¹⁴	-3.4 ¹¹⁶	-6.6 ¹¹⁸	-9.5 ¹²⁰
	59	18.0 ¹⁰⁹	15.7 ¹¹⁰	13.5 ¹¹¹	11.3 ¹¹²	9.3 ¹¹³	7.3 ¹¹⁴	3.5 ¹¹⁵	0 ¹¹⁸	-3.3 ¹²⁰	-6.3 ¹²²
	61	22.0 ¹¹¹	19.6 ¹¹²	17.3 ¹¹³	15.1 ¹¹⁴	13.0 ¹¹⁵	10.9 ¹¹⁶	7.0 ¹¹⁷	3.4 ¹¹⁸	0 ¹²⁰	-3.2 ¹²²
	63	26.0 ¹¹³	23.5 ¹¹⁴	21.2 ¹¹⁵	18.9 ¹¹⁶	16.7 ¹¹⁷	14.5 ¹¹⁸	10.5 ¹²⁰	6.8 ¹²²	3.3 ¹²⁴	0 ¹²⁶

"0" represents a 1:1 drive ratio. Number in upper right hand corner of each cell represents total teeth count.

Notes:

- S/B total tooth count (upper plus lower) must be: MIN. 108 to MAX. 124. B/B total tooth count (upper plus lower) must be: MIN. 105 to MAX. 116
- This is the standard drive ratio supplied with kits #7487 and #7487P(11.5% underdrive)
- This is the standard drive ratio supplied with kits #7488, 7488P (8.5% underdrive)
- B/B kits require idler bracket Part no. 7112WIN. (Included in kits #7488 and 7488P)

8mm Pulleys

NO. OF TEETH ON PULLEY	PART #	NO. OF TEETH ON PULLEY	PART #
51	7109-51	57	7109-57
52	7109-52	59	7109-59
53	7109-53	61	7109-61
54	7109-54	63	7109-63

All Weiland 8mm Pulleys will use drive belt P/N: 7100WIN'

Note: All 8mm pulleys have a 2" diameter register pilot hole.

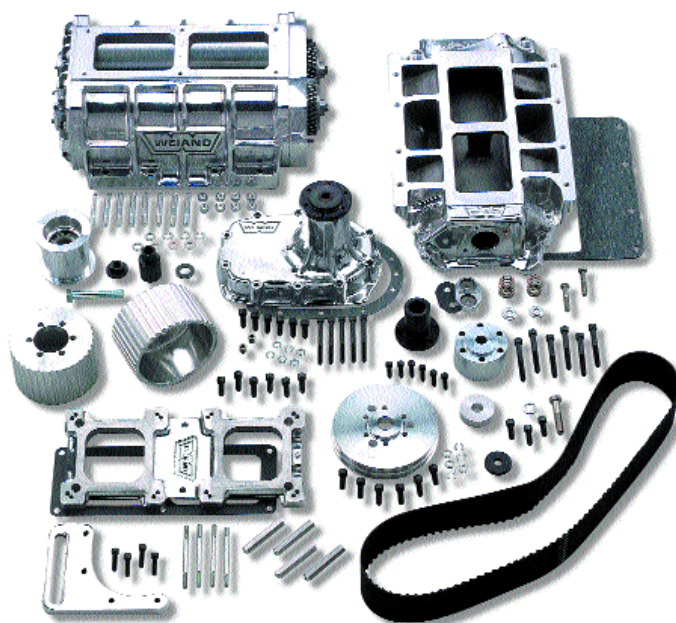
- CHEQUERS
- FUEL INJECTION
- FUEL PUMPS REGULATORS
- INTAKE MANIFOLDS
- SUPERCHARGERS
- FLAME ARRESTORS THROTTLE BODIES
- IGNITION SYSTEMS & COMPONENTS
- CRANKSHAFTS
- HEADERS
- WATER COMPONENTS
- VALVE COVERS
- TECHNICAL INFORMATION
- INDEX



WEIAND 1071 THRU 1471 SUPERCHARGERS - AN OVERVIEW

The Weiland Way of Supercharging

- Roots type 3-lobe helical rotor eliminates flex
- Rotors are set-up to close tolerances for maximum boost pressure efficiency
- 1071 thru 1471 rotors are type III hard anodized making them alcohol "friendly" and corrosion resistant
- WEIAND supercharger manifolds ensure equal distribution of fuel/air mixture for maximum horsepower increases
- Mounts with standard distributor set-up - no expensive offset style required
- Heavy duty bearing plates eliminate cracking
- Rear plates use premium quality sealed ball bearings
- Front bearings lubricated by oil bath
- Front rotor shaft seals are double lipped with teflon for superior sealing

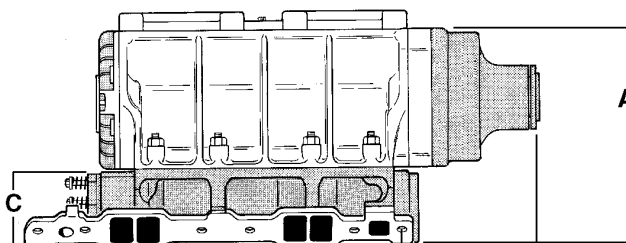


1071 thru 1471 Supercharger Dimensions

BLOWER SIZE	APPLICATION	DIMENSIONS (INCHES)		
		A	B	C
1071	Chevrolet B/B, standard deck	12-1/8	8-3/16	4-7/16
	Chevrolet B/B, tall deck	12-1/2	8-3/16	4-13/16
1271	Chevrolet B/B, standard deck	12-1/8	9-3/16	4-7/16
	Chevrolet B/B, tall deck	12-1/2	9-3/16	4-13/16
1471	Chevrolet B/B standard deck	12-1/8	10-3/16	4-7/16
	Chevrolet B/B tall deck	12-1/2	10-3/16	4-13/16

Weiland 1071-1471 Supercharger Kits

These supercharger kits are available only with 8mm drive belts and drive pulleys as shown.



Carburetor Adapter Heights		
Part No. 7162WIN	(1-4V)	1"
Part No. 7163	(2-4V)	1"
Part No. 7164	(2-4V)	2-3/4"
Part No. 7165	(2-4V 4500)	1"



WEIAND 1071 THRU 1471 SUPERCHARGER KITS



WEIAND continues to expand their supercharger coverage with the addition of 1071, 1271 and 1471 marine kits for the big block Chevrolet engine. These feature all brand new housings that are cast from premium grade aluminum in our own foundry and machined to close tolerances. All WEIAND 871 thru 1471 superchargers utilize premium quality front and rear WEIAND bearing plates and front blower cover. They also use similar drive system components and pulleys. **WARNING:** These superchargers should not be installed in boats with an enclosed engine compartment. There is a high risk of fire or explosion if the engine backfires.

Blower boost is a function of engine size, blower size (cid of air per rotor revolution) and the speed that the blower is driven in relationship to the engine. The faster the blower is driven, the more boost it can make. However, if a blower is driven too fast it begins to lose efficiency because a fast-turning supercharger heats up the incoming air and reduces its density, thus producing smaller power increases. By using a larger supercharger, higher boost can be made with less blower speed. This is particularly useful in high performance big block marine applications when the blower is in high boost mode nearly all the time.

WEIAND 1071 – 1471 Marine Supercharger Kits

Chevrolet Big Block (Rectangular Port) Marine Engines

APPLICATION	1071	1271	1471
	PART NO.	PART NO.	PART NO.
	SATIN	POLISHED	POLISHED
Standard deck	7190P	7191P	7192P
Tall deck	7195P	7196P	7197P

Note: All WEIAND 1071 through 1471 marine superchargers are supplied with a 3" wide, 8mm marine drive assembly. They are all underdriven. See drive ratios below.

Warning: WEIAND 1071 through 1471 superchargers should not be installed in boats with an enclosed engine compartment. There is a high risk of fire or explosion if the engine backfires.

Standard Drive Ratios – Pulleys have 8mm Drive Pitch

(All 1071 through 1471 superchargers are underdriven)

SUPERCHARGER SIZE	STANDARD DRIVE RATIO	TOP PULLEY	BOTTOM PULLEY	TOTAL TOOTH COUNT
1071	-8.5%	59 teeth	54 teeth	113 teeth
1271	-13.1%	61 teeth	53 teeth	114 teeth
1471	-19.0%	63 teeth	51 teeth	114 teeth

Note: Total tooth count should be at least 105 and no more than 116, for big block Chevrolet engines. All 8mm pulleys use the same drive belt (P/N 7100).

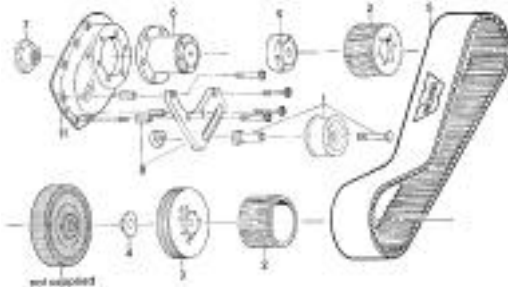
- CARBURETORS
- FUEL INJECTION
- FUEL PUMPS REGULATORS
- INTAKE MANIFOLDS
- SUPERCHARGERS**
- FLAME ARRESTORS THROTTLE BODIES
- BALANCE SYSTEMS & COMPONENTS
- CRANKSHAFTS
- HEADERS
- WATER COMPONENTS
- VALVE COVERS
- TECHNICAL INFORMATION
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1071 – 1471 SUPERCHARGER COMPONENTS

Service Parts List for 8mm Marine Drives

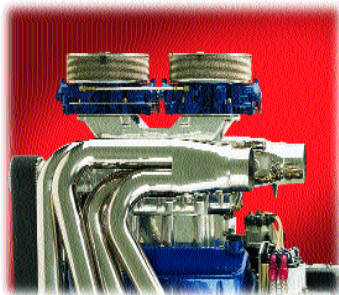
REF. NO.	DESCRIPTION	PART #
1	Idler pulley	7027
2	8mm drive pulley (must specify tooth count)	7109
3	3V accessory drive pulley	7114
4	Locating pilot for accessory drive pulley	7038
5	Drive belt – 8mm pitch (1440mm long x 75mm wide)	7100WIN
6	Nose drive assembly (4-13/16" long, 2" register)	7104WIN
7	Coupler – nose drive to supercharger	7035
9	2" spacer – upper pulley to nose drive (2" register)	7108
11	Front gear cover	7039



8mm Pulleys

PULLEY TOOTH COUNT	PULLEY PART #	PULLEY TOOTH COUNT	PULLEY PART #
50	7109-50	55	7109-55
51	7109-51	57	7109-57
52	7109-52	59	7109-59
53	7109-53	61	7109-61
54	7109-54	63	7109-63

Note: If you wish the component to be polished, add the letter "P" after the part number when ordering.



Figuring Out Special Drive Ratios

1071 through 1471 Marine Supercharger 8mm Pulley Drive Ratio Chart

BOTTOM PULLEY TOOTH COUNT	TOP PULLEY TOOTH COUNT									
	50	51	52	53	54	55	57	59	61	63
50	1:1	-2.0%	-3.8%	-5.7%	-7.4%	-9.4%	-12.3%	-15.3%	-18.0%	-20.0%
51	2.0%	1:1	-1.9%	-3.8%	-5.6%	-7.3%	-10.5%	-13.6%	-16.4%	-19.0%
52	4.0%	2.0%	1:1	-1.9%	-3.7%	-5.5%	-8.8%	-11.9%	-14.8%	-17.5%
53	6.0%	3.9%	1.9%	1:1	-1.9%	-3.6%	-7.0%	-10.2%	-13.1%	-15.9%
54	8.0%	5.9%	3.8%	1.9%	1:1	-1.8%	-5.3%	-8.5%	-11.5%	-14.3%
55	10.0%	7.8%	5.8%	3.8%	1.9%	1:1	-3.5%	-6.8%	-9.8%	-12.7%
57	14.0%	11.8%	9.6%	7.5%	5.6%	3.6%	1:1	-3.4%	-6.6%	-9.5%
59	18.0%	15.7%	13.5%	11.3%	9.3%	7.3%	3.5%	1:1	-3.3%	-6.3%
61	22.0%	19.6%	17.3%	15.1%	13.0%	10.9%	7.0%	3.4%	1:1	-3.2%
63	26.0%	23.5%	21.2%	18.9%	16.7%	14.5%	10.5%	6.8%	3.3%	1:1

NOTE: To figure total tooth count simply add the number of teeth of both the top and bottom pulleys.

To estimate effective compression ratio and supercharger boost pressure, see next page.



FIGURING OUT THE EFFECTIVE COMPRESSION RATIO

This chart shows how to arrive at the **effective** compression ratio of an engine when both the static, or mechanical compression ratio of the engine is known, as well as the amount of supercharger boost. Marine engines should keep the effective compression ratio below about 11.0:1. This chart can be used for and applied to all sizes of superchargers.

Static Compression Ratio	Supercharger Boost					
	2 lbs.	4 lbs.	6 lbs.	8 lbs.	10 lbs.	12 lbs.
7.0:1	8.0:1	8.9:1	9.9:1	10.8:1	11.8:1	12.7:1
7.5:1	8.5:1	9.5:1	10.6:1	11.6:1	12.6:1	13.6:1
8.0:1	9.1:1	10.2:1	11.3:1	12.4:1	13.4:1	14.5:1
8.5:1	9.7:1	10.8:1	12.0:1	13.1:1	14.3:1	15.4:1
9.0:1	10.2:1	11.4:1	12.7:1	13.9:1	15.1:1	16.3:1
9.5:1	10.8:1	12.1:1	13.4:1	14.7:1	16.0:1	17.3:1

Estimating Supercharger Boost Pressure (estimated in lbs. per square inch)

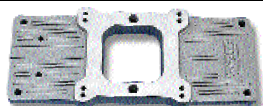
871 SUPERCHARGER													
Cubic Inches	Pulley Drive Ratios (%)												
	-30	-25	-20	-15	-10	-5	1:1	5	10	15	20	25	30
454	2.5	3.7	5.0	6.2	7.4	8.6	9.9	11.1	12.3	13.5	14.7	16.0	17.2
502		2.0	3.0	4.2	5.3	6.4	7.5	8.6	9.7	10.8	12.0	13.1	14.2
550			1.5	2.5	3.5	4.5	5.6	6.6	7.6	8.6	9.6	10.6	11.6

1071 SUPERCHARGER													
Cubic Inches	Pulley Drive Ratios (%)												
	-30	-25	-20	-15	-10	-5	1:1	5	10	15	20	25	30
454	3.6	4.9	6.3	7.6	8.9	10.2	11.5	12.8	14.1	15.4	16.7	18.0	19.4
502	1.9	3.1	4.3	5.4	6.6	7.8	9.0	10.2	11.4	12.5	13.7	14.9	16.1
550		1.5	2.6	3.7	4.8	5.8	6.9	8.0	9.1	10.2	11.3	12.3	13.4
600			1.2	2.2	3.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1	11.1

1271 SUPERCHARGER													
Cubic Inches	Pulley Drive Ratios (%)												
	-30	-25	-20	-15	-10	-5	1:1	5	10	15	20	25	30
454	4.7	6.1	7.5	8.9	10.3	11.7	13.1	14.5	15.9	17.2	18.6	20.0	21.4
502	2.9	4.1	5.4	6.7	7.9	9.2	10.4	11.7	12.9	14.2	15.4	16.7	18.0
550	1.4	2.5	3.6	4.8	5.9	7.1	8.2	9.4	10.5	11.7	12.8	14.0	15.1
600		1.1	2.1	3.2	4.2	5.3	6.3	7.4	8.4	9.5	10.5	11.6	12.6

1471 SUPERCHARGER													
Cubic Inches	Pulley Drive Ratios (%)												
	-30	-25	-20	-15	-10	-5	1:1	5	10	15	20	25	30
454	5.8	7.3	8.8	10.3	11.7	13.2	14.7	16.1	17.6	19.1	20.5	22.0	23.5
502	3.9	5.2	6.5	7.9	9.2	10.5	11.8	13.2	14.5	15.8	17.2	18.5	19.8
550	2.3	3.5	4.7	5.9	7.1	8.3	9.5	10.7	12.0	13.2	14.4	15.6	16.8
600		2.0	3.1	4.2	5.3	6.4	7.5	8.6	9.7	10.8	12.0	13.1	14.2

- CARBURETORS
- FUEL INJECTION
- FUEL PUMPS & REGULATORS
- INTAKE MANIFOLDS
- SUPERCHARGERS**
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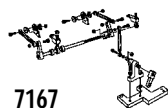
7162



7163 / 7164



7165



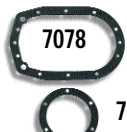
7167



7093



7077



7078

7079



7080

7158 7159



7155



6988



7082

Carburetor Adapter¹

Part #

1" tall, Holley/Carter AFB Carb. Also for 256

7162WIN

1" tall, Holley/Carter AFB Carb. Also for 256

7163²

2 3/4" tall, Holley/Carter AFB Carb. Also for 256

7164²

1" tall, Holley 4500 Dominator

7165

Carburetor Linkage

Part #

Side-Mounted 4150 Carbs

7166^{2,3}

In-Line Mounted 4160 Carbs

7167^{2,4}

1. For polished carburetor adapter add a "P" after the part number when ordering.
2. Not designed to fit some vacuum secondary carburetors
3. Designed to fit mechanical secondary carburetors
4. Not designed to fit some mechanical secondary carburetors

Dual Holley Fuel Line Kit

Part #

WEIAND's stainless steel Fuel Line Kit will fit any dual Holley installation (mech. secondary double pumper) on a WEIAND #7163 adapter. The Kit features #6 AN carb adapters, precision machined 6061-T6 fuel block. 1/8" NPT port for pressure gauge, and high flow #8 AN inlet.

7093

Gaskets

Part #

Supercharger to manifold

7077*

Front gear cover to supercharger

7078

#7104, 7103, 7044 nose drives to #7039 gear cover

7079

Carburetor adapter to supercharger

7080

#7157 pop-off plate, front of manifold

7158WIN

#7155 pop-off plate, rear of manifold

7159WIN

*Gasket fits WEIAND 871 thru 1471 only. May not fit other manufacturer's components.

Pop-Off Plates

Part #

Pop-off kit, rear of manifold

SATIN
7155

POLISHED
7155P

Pressure Relief Valve (Stainless)

Part #

1/8" NPT Fitting (Adapter is supplied for 1/4" applications)

6988

Stud Kit

Part #

Supercharging Mounting Kit

7082WIN