



Recommended Parts

(See other side for BluePrint Tech Tips)

Alternate Part
Number/Vendor

		Cruiser BP302 Series	BP3027 / BP3060 Series	Factory Five 3021 / 3061	BP306MAX / BP302MAX Series	BP3474 / BP3479 Series	Factory Five 347	BPF4089 Series	Factory Five 427	Factory Five 427 Stage 1 HO	Factory Five 427 Stage 2 HO	PSF427
SPARKPLUG												
BPP7938 - NGK BKR5E/7938/.035"	Accel 0416S-4 (Short)	X	X	X	X	X	X	X	X	X	X	X
BALANCER												
BPP28	Professional Product 80006					X	X	X				
BPP50	Professional Product 80007	X	X	X	X							
Internal Balance (BPP28 can be used if counterweight is removed)									X	X	X	X
FLEXPLATE												
28oz External (can be either 157T or 164T)						X	X	X				
50oz External (can be either 157T or 164T)		X	X	X	X							
Internal Balance (can be either 157T or 164T)									X	X	X	X
FLYWHEEL												
28oz External (can be either 157T or 164T)						X	X	X				
50oz External (can be either 157T or 164T)		X	X	X	X							
Internal Balance (can be either 157T or 164T)									X	X	X	X
STALL CONVERTER												
Stock stall		X										
2200-2400 rpm			X	X	X	X	X	X				
2200+ rpm									X	X	X	X
OIL & FILTER												
BPP10W30 BluePrint Engines Service Oil	Valvoline VR1 10W30	X	X	X	X	X	X	X	X	X	X	X
BPP51515 Oil Filter	WIX 51515 or Napa 1515	X	X	X	X	X	X	X	X	X	X	X
TOTAL OIL CAPACITY (with production oil pan & filter)												
5 QTS (with either stock front or rear sump pans)		X	X		X	X		X				
7QTS (w/ Canton front sump pans)				X			X		X	X	X	X
THERMOSTAT												
BPP10108470 - 180° Thermostat	Stant 300-180	X	X	X	X	X	X	X	X	X	X	X
INTAKE MANIFOLD												
BPP302INT Dual Plane 302 based	Weiand 8020WND	X	X	X	X	X	X					
Weiand 8023WND Dual Plane 351W based	Edelbrock 7181							X	X			
Edelbrock Victor Jr. 2981										X	X	X
AIR CLEANER												
BPP143 BluePrint Air cleaner		X	X	X	X	X	X	X	X	X	X	X
FUEL & ACCESSORIES												
87 Octane		X										
91 Octane or higher			X	X	X	X	X	X	X	X	X	X
BPP6588 Fuel Pump (Carb engines)		X	X	X	X	X	X	X				
BPP080457SA - 600 CFM Holley Carburetor	Holley 0-80457SA	X	X	X	X	X	X					
BPP080508S - 750 CFM Holley Carburetor	Holley 0-80508S							X				
Holley 0-76750BK - 750 CFM Holley Ultra Double Pumper												
Holley 0-80870 - 870 CFM Avenger									X	X	X	X
BPP550510/BPP550511 Holley Sniper EFI		X	X	X	X	X	X	X	X	X	X	X
TIMING SETTINGS												
Initial timing 10-16 & total timing 32-34 @4000rpm		X	X	X	X	X	X	X	X	X	X	X
DISTRIBUTORS/Coils												
BPP3023BK (ready to run no ignition box required)	MSD 83521	X	X	X	X	X	X					
BPP3023BBK (ready to run no ignition box required)	MSD 83523	X	X	X	X	X	X					
BPP3513BK (ready to run no ignition box required)	MSD 83541							X	X	X	X	X
BPP82021BK coil	MSD 8202	X	X	X	X	X	X	X	X	X	X	X
BPP3022BK (ignition box required)	MSD 8598	X	X	X	X	X	X					
BPP3512BK (ignition box required)	MSD 8578							X	X	X	X	X

*Thank you for selecting a Blueprint Engine. We appreciate the opportunity
to be a part of your build!*

Please read and follow all directions in the Blueprint Engine Installation guide.

For peak performance, your engine requires the following:

1	Install the Recommended Add-on's listed on the opposite side of this document.
2	BluePrint Engines recommends a 180° thermostat on your engine. Safe operating temperatures can range from 180° - 220°.
3	Your engine requires a distributor with a melonized iron or steel gear ONLY. Do NOT use bronze or non-melonized cast iron gears. Use of the wrong distributor gear can cause severe damage to the engine and will void your warranty. If you are uncertain of your gear compatibility, contact your distributor manufacturer to confirm your gear material is compatible with an OEM material, hydraulic roller camshaft.
4	Crank pulley spacers are sometimes needed to align front drive belts. Please measure for the spacer you will need for your setup. There are common spacer sizes that go between the crank pulley and the balancer. Common sizes are .350", .625", .950". CVF Racing, March Performance and Ford Racing sell them.
5	When installing flywheel/flexplates oil resistant RTV sealer is required on all crank bolts to prevent oil leaking from crankcase at rear of engine.
6	BluePrint Engines BPP710 Break in oil is recommended for the first 500 miles. After 500 miles, BluePrint Engnes BPP10W30 standard oil - or any mineral oil 10w30, 10w40, or 15w-40 should be used.
7	BluePrint Engines does not "fine-tune" the carb for your elevation or for peak economy. Tuning of the carb for idle mixture adjustments, jet changes, fuel pressure or other necessary tuning is required by the installer or owner.
8	Holley carbs require 5-6psi of fuel pressure, please make sure to measure and set fuel pressure - even on mechanical pumps provided by BluePrint.
9	Engine timing will also need checked & verified, per timing settings provided on the opposite side of this page. Engine start up, break-in and timing instructions are detailed on pages 4-5 of your BluePrint Engines Install Guide. Please follow these specific instructions to avoid internal engine failure.
10	This engine is not designed for use in pollution-controlled vehicles.
11	We do NOT recommend the use of "stock style" replacement gaskets. These are typically supplied in gaskets sets for stock replacement engines. If stock gaskets are used, it could result in a failure that will not be covered by the limited warranty.
12	BluePrint Engines recommends the use of performance exhaust gaskets on our engines. Be sure to verify that your exhaust gaskets match the header flange - NOT the heads.
13	BluePrint Engines SBF firing order: 1,3,7,2,6,5,4,8 going <i>counterclockwise</i> on the distributor cap
14	Your BluePrint Engine requires pre-lube before start-up. Your engine has been dyno tested, but it does require additional preventative maintenance before initial start-up. Be sure to follow proper pre-lube instructions pn page 3 of your BluePrint Engines Installation Guide.
15	If your engine came with a Holley Sniper visit www.blueprintengines.com/pages/tech-tips to download additional information. The Holley Sniper handheld has been programmed to the correct settings.
16	This product is shipped <u>without</u> fluids. Make sure to add all fluids prior to initial start.
17	Proper purging of air in the cooling system is crucial on Fords. These engines are prone to trapped air pockets near #1 cylinder, potentially leading to engine failure.
18	Unless your engine came with a front drive already installed by BluePrint Engines, our Ford's come standard with a clockwise roatation only timing cover. Timing cover must be swapped out if a reverse roation belt setup and water pump are used. Depending on your water pump inlet, a passenger side timing pointer may be required.
19	Heater hose return ports on BluePrint Engines Aluminum intake manifolds are located on the FRONT of the intake only, near the thermostat housing. There are NO water ports, and/or heater return ports on the rear of our Ford intakes. Any ports on the REAR of the engine are for manifold vacuum only.

For additional assistance, contact our Support Team: 308-236-1050 or Support@BlueprintEngines.com