

Crate Engine Part-No. **PAC-12499529 290HP Base**Date **March 8, 2008****Crate Engine Service Parts List****Partial Engine Components**

Part-No.	Description	Manufacturer	QTY
10066034	Block 4-bolt main, cast-iron, 2pc rear seal	General Motors	1
93426651	Crankshaft	General Motors	1
10120990	Crankshaft Main Bearing std #1 thru 4	General Motors	4
10120993	Crankshaft Main Bearing std Rear	General Motors	1
458625	Crankshaft Rear Oil Seal	General Motors	1
10228655	Crankshaft Front Oil Seal	General Motors	1
10108688	Connecting Rod	General Motors	8
12523924	Connecting Rod Bearing, std	General Motors	8
461372	Connecting Rod Bolt	General Motors	16
225854	Connecting Rod Nut	General Motors	16
12514101	Piston, STD, includes Rings	General Motors	8
88894219	Piston Ring Set	General Motors	8
12453170	Camshaft Bearing std #1	General Motors	1
12453171	Camshaft Bearing std #2 and rear	General Motors	2
12453172	Camshaft Bearing #3 & 4	General Motors	2
10241154	Camshaft Plug Rear	General Motors	1
88891749	Freeze Plug	General Motors	8
1453658	Trans Locator Dowels 5/8" X 1-3/16"	General Motors	2
12554553	Timing Cover Dowels 1/4" X 5/8"	General Motors	2
14091563	Oil Gallery Plugs .476"	General Motors	4
585927	Cylinder Head Locator Dowels 5/16" X 9/16"	General Motors	2

Valvetrain Components

Part-No.	Description	Manufacturer	QTY
3896962	Camshaft	General Motors	1
5232720	Lifters hydraulic flat	General Motors	16
14095256	Pushrods	General Motors	16
10089648	Rocker Arm, stamped steel, with ball & nut	General Motors	16
3814692	Rocker Arm Stud, press-in style	General Motors	16
12557390	Rocker Arm Nut	General Motors	16
3911068	Valve Spring with dampener	General Motors	16
24503856	Valve Spring Keepers	General Motors	32
14003974	Valve Spring Cap	General Motors	16
14042575	Valve Spring Cap Rotator	General Motors	16
12564852	Valve Seal Exhaust	General Motors	8
10212810	Valve Seal Intake	General Motors	8
10241743	Valve Intake 1.94"	General Motors	8
12550909	Valve Exhaust 1.50"	General Motors	8
14088783	Timing Chain	General Motors	1
14088785	Camshaft Timing Gear	General Motors	1
9424877	Camshaft Timing Gear Bolts	General Motors	3
14088784	Crankshaft Timing Gear	General Motors	1
12531283	Front Timing Cover (sheet metal w/o pointer)	General Motors	1
3991436	Timing Pointer for 8" Dampner	General Motors	1
3991435	Timing Pointer for 6" Dampner	General Motors	1
10108435	Front Timing Cover Gasket	General Motors	1
9439930	Front Timing Cover Bolts	General Motors	10

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Cylinder Head Components

Part-No.	Description	Manufacturer	QTY
93438649	Cylinder Head w/valves, cast-iron, 76cc	General Motors	1
10105117	Cylinder Head Gasket	General Motors	2
12495499	Cylinder Head Bolt Package	General Motors	1
93438952	Valve Cover w/Oil Cap & PCV Holes	General Motors	1
93438953	Valve Cover w/Breather hole only	General Motors	1
12553195	Oil Cap	General Motors	1
3933964	Valve Cover Gasket	General Motors	2
9440033	Valve Cover Bolts	General Motors	8
14082321	Valve Cover Hold Downs	General Motors	8

Oiling Components

Part-No.	Description	Manufacturer	QTY
12555284	Oil Pump	General Motors	1
10046007	Oil Pump Bolt	General Motors	1
3855152	Oil Pump Pick-up & Screen	General Motors	1
3998287	Oil Pump Drive Shaft	General Motors	1
3764554	Oil Pump Drive Shaft Retainer	General Motors	1
25013454	Oil Filter	A/C Delco	1
3952301	Oil Filter Adaptor	General Motors	1
3951644	Oil Filter Adaptor Bolts	General Motors	2
10066039	Oil Pan 4QT	General Motors	1
3921988	Oil Pan Drain Plug	General Motors	1
14090908	Oil Pan Drain Plug Gasket	General Motors	1
10089606	Oil Pan Gasket	General Motors	1
Not Utilized	Oil Pan Reinforment RH	Not Utilized	
Not Utilized	Oil Pan Reinforment LH	Not Utilized	
9440033	Oil Pan Bolt	General Motors	12
Not Utilized	Oil Pan Stud	Not Utilized	
9424877	Oil Pan Bolt	General Motors	4
10085672	Oil Dipstick	General Motors	1
3951600	Oil Dipstick Tube Lower	General Motors	1
12337946	Oil Dipstick Tube Upper	General Motors	1
	Oil Dipstick Plug		

Cooling Components

Part-No.	Description	Manufacturer	QTY
Not Included	Water Pump	Not Included	
Not Included	Water Pump Gasket	Not Included	
Not Included	Water Pump Bolt	Not Included	
10207373	Thermostat	General Motors	1
14088753	Thermostat Housing	General Motors	1
10105135	Thermostat Gasket	General Motors	1
10198997	Thermostat Housing Bolt	General Motors	2

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Fuel Delivery Components

Part-No.	Description	Manufacturer	QTY
6415325	Fuel Pump	General Motors	1
3704817	Fuel Pump Push Rod	General Motors	1
3719599	Fuel Pump Adaptor Plate	General Motors	1
12560223	F/P Adapter Plate Gasket	General Motors	1
ARP1301602	F/P Bolt Package	ARP	1
ARP1301602	Fuel Pump to Block Bolt	ARP	1
PAC-632053	Fuel Line Pump to Carb	Pace Performance	1
HLV0-80670	Carburetor Holley 670CFM	Holley	1
66338	Carb Stud Package	Proform	1
Not Included	Air Cleaner	Not Included	

Intake Manifold Components

Part-No.	Description	Manufacturer	QTY
10185063	Intake Manifold	General Motors	1
ED7201	Intake Gasket	Edelbrock	1
14091544	Intake Manifold Bolt	General Motors	12

Ignition Components

Part-No.	Description	Manufacturer	QTY
93440806	Distributor Assembly	General Motors	1
1974408	Distributor Cap	General Motors	1
10498150	Distributor Rotor	General Motors	1
10096197	Distributor Hold Down	General Motors	1
10108445	Distributor Gasket	General Motors	1
10456413	Distributor Gear	General Motors	1
12361057	Spark Plug Wire Set	General Motors	1
MFY5075611	Spark Plug Wire Looms	Made For You	1
19157995	Spark Plugs	A/C Delco	8

Misc. Components

Part-No.	Description	Manufacturer	QTY
471529	Flywheel	General Motors	1
3727207	Flywheel Bolts	General Motors	6
88960604	Harmonic Balancer	General Motors	1
3815933	Harmonic Balancer Bolt	General Motors	1
14001829	Harmonic Balancer Washer	General Motors	1
106751	Harmonic Balancer Woodruff Key	General Motors	1
6487779	PCV Valve	General Motors	1
9438373	PCV Valve Hose	General Motors	1
Not Included	Starter	Not Included	
Not Included	Starter Bolt, Long 3/8"-16 X 4-21/64"	Not Included	
Not Included	Starter Bolt, Short 3/8"-16 X 1-27/32"	Not Included	