

ZZ572/620 (12498792) and ZZ572/720R (12498826) Long Block Specifications Specifications Part Number 88962928

This ZZ572 long block specification sheet should be used in conjunction with the ZZ572 short block specification sheet, GM part number 88962927.

Thank you for choosing GM Performance Parts as your high performance source. GM Performance Parts is committed to providing proven, innovative performance technology that is truly.... more than just power. GM Performance Parts are engineered, developed and tested to exceed your expectations for fit and function. Please refer to our catalog for the GM Performance Parts Authorized Center nearest you or visit our website at www.gmperformanceparts.com.

This publication provides general information on components and procedures that may be useful when installing or servicing a ZZ572 long block assembly. Please read this entire publication before starting work. Also, please verify that all of the components listed in the Package Contents section below were shipped in the kit.

The information below is divided into the following sections: package contents, torque information, ZZ572/620 and ZZ572/720R long block assembly specifications, and a service parts list.

The ZZ572 long block assembly includes additional components to the short block assembly which make up the long block. Some key items included are the aluminum cylinder heads, valve train, camshaft, lifters, SFI Foundation Inc. approved harmonic damper, and oil pan. Specific items and part numbers are listed at the end of these instructions.

GM recommends that you use a minimum octane rating of 92 (R+M/2) fuel in the ZZ572/620 (9.6:1 compression ratio) and 110 octane fuel in the ZZ572/720R (12:1 compression ratio) to prevent preignition.

It is not the intent of these specifications to replace the comprehensive and detailed service practices explained in the GM service manuals.

For information about warranty coverage, please contact your local GM Performance Parts dealer.

Observe all safety precautions and warnings in the service manuals when installing a ZZ572 Tall Deck Big Block Chevrolet (BBC) long block assembly in any vehicle. Wear eye protection and appropriate protective clothing. Support the vehicle securely with jackstands when working under or around it. Use only the proper tools. Exercise extreme caution when working with flammable, corrosive, and hazardous liquids and materials. Some procedures require special equipment and skills. If you do not have the appropriate training, expertise, and tools to perform any part of this conversion safely, this work should be done by a professional.

The information contained in this publication is presented without any warranty. All the risk for its use is entirely assumed by the user. Specific component design, mechanical procedures, and the qualifications of individual readers are beyond the control of the publisher, and therefore the publisher disclaims all liability incurred in connection with the use of the information provided in this publication.

٦	DATE	REVISION	AUTH
		Initial Release - Shawn Smith	7.0111
	16FE07	Revised - Rusty Sampsel	



Legal and Emissions Information

This publication is intended to provide information about the ZZ572 engine and related components. This manual also describes procedures and modifications that may be useful during the installation of a ZZ572 engine. It is not intended to replace the comprehensive service manuals and parts catalogs which cover General Motors engines and components. Rather, it is designed to provide supplemental information in areas of interest to % interest to the enthusiasts and mechanics.

This publication pertains to engines and vehicles which are used off the public highways except where specifically noted otherwise. Federal law restricts the removal of any part of a federally required emission control system on motor vehicles. Further, many states have enacted laws which prohibit tampering with or modifying any required emission or noise control system. Vehicles which are not operated on public highways are generally exempt from most regulations, as are some special interest and pre-emission vehicles. The reader is strongly urged to check all applicable local and state laws.

Many of the parts described or listed in this manual are merchandised for off-highway application only, and are tagged with the %pecial Parts Notice+reproduced here:

Special Parts Notice

This part has been specifically designed for Off-Highway application only. Since the installation of this part may either impair your vehicles emission control performance or be uncertified under current Motor Vehicle Safety Standards, it should not be installed in a vehicle used on any street or highway. Additionally, any such application could adversely affect the warranty coverage of such an on-street or highway vehicle.

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Package contents:

<u>ltem</u>	<u>Description</u>	Quantity	GM Part Number
1	Long Block Assembly (ZZ572/620)	1	12498792
	OR		
1	Long Block Assembly (ZZ572/720R)	1	12498826
2	Short Block Instructions	1	88962927
3	Long Block Instructions	1	88962928

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10AP07	Revised - Rusty Sampsel	
15JA08	Revised - Rusty Sampsel	



ZZ572/620 and ZZ572/720R High Performance Engine Torque Specifications:

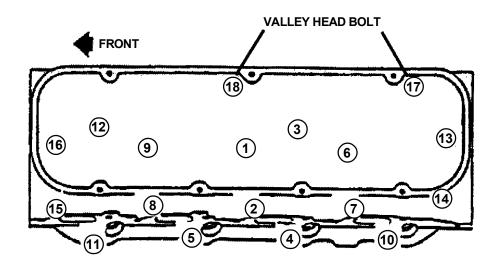
Note: See Deluxe Specifications for additional torque values not included here.

<u>Fastener</u>	Torque (lb.ft.)	Torque (Nm)	Thread Treatme	ent <u>Notes</u>
Windage tray studs	30	41	30 weight oil	
Oil pump bolt	65	88	30 weight oil	
Cam thrust plate bolt	10	14	Blue Loctite	· -
Cam sprocket bolt	22	30	Blue Loctite	• -
Front cover bolt	10	14	Blue Loctite	• -
Oil pan bolt	20	27	Blue Loctite	• -
Damper bolt	110	149	Blue Loctite	• -
Cylinder head bolt	70	95	Moly-lube	Torque sequence, see below
Rocker arm stud	50	68	Blue Loctite	• -
Rocker cover bolt	10	14	30 weight oil	
Fuel pump cover bolt	25	34	Blue Loctite	• -
Lifter retainer bolt	18	24	Blue Loctite	• -
Spark plug	25	34	30 weight oil	• -
Valley head bolt	60	81	Liquid Teflon	

Note: These torque values are in addition to those documented within the short block instructions.

Cylinder Head Installation:

Installation is the same as for original equipment cylinder heads with the exception of two additional cylinder head bolts located inside the lifter valley as noted below. Be sure to thoroughly clean the surface of the block and the surface of the cylinder head prior to installing. Apply Moly-lube thread lubricant to all head bolt threads. Apply liquid Teflon to the valley head bolts that protrude into the intake runners. Tighten the bolts alternately per the sequence and pattern shown below. Apply torque in 25 ft.lb. increments over two repetitions with the third repetition to the final tightening specification. A re-torque of the cylinder head bolts is recommended after heat cycling the engine.



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ALL INFORMATION WITHIN ABOVE BORDER TO BE PRINTED EXACTLY AS SHOWN ON 8 1/2 x 11	DATE	REVISION
WHITE 16 POUND BOND PAPER. PRINT ON BOTH SIDES, EXCLUDING TEMPLATES.		
TO BE UNITIZED IN ACCORDANCE WITH GMSPO SPECIFICATIONS.		

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Caution

This engine assembly needs to be filled with oil and primed. You should add the specified oil (see start-up instructions) to your new engine. Check the engine oil level on the dipstick and add accordingly.

Start-up and Break-in Procedures

- 1. After installing the engine, ensure the crankcase has been filled with 20w50 racing motor oil (non-synthetic) to the recommended oil fill level on the dipstick. Also check and fill as required any other necessary fluids such as coolant, power steering fluid, etc.
- 2. The engine should be primed with oil prior to starting. Follow the instructions enclosed with the tool. To prime the engine, first remove the distributor to allow access to the oil pump drive shaft. Note the position of the distributor before removal. Install the oil priming tool, GM part number 12368084. Using a 1/2" dill motor, rotate the engine oil priming tool clockwise for three minutes. While you are priming the engine, have someone else rotate the crankshaft clockwise to supply oil throughout the engine and to all the bearing surfaces before the engine is initially started. This is the sure way to get oil to the bearings before you start the engine for the first time. Also, prime the engine if it sits for extended periods of time. Reinstall the distributor in the same orientation as it was removed.
 - After the engine has been installed in the vehicle, recheck the oil level and add oil as required. It is also good practice to always recheck the ignition timing after removal and reinstallation of the distributor. See step 4 or engine specifications for the proper timing information.
- 3. Safety first. If the vehicle is on the ground, be sure the emergency brake is set, the wheels are chocked and the car cannot fall into gear. Verify everything is installed properly and nothing was missed.
- 4. Start the engine and adjust the initial timing. Set the ignition timing to 15° before top dead center (BTDC) and the engine idle to 950 RPM (ZZ572/620) or 1200 RPM (ZZ572/720R) with a timing light and the vacuum disconnected and plugged. Rotate the distributor counterclockwise to advance the timing. Rotate the distributor clockwise to retard the timing. Leave the vacuum advance disconnected.
- 5. When possible, you should always allow the engine to warm up prior to driving. It is a good practice to allow the oil sump and water temperature to reach 180°F before towing heavy loads or performing hard acceleration runs.
- 6. Once the engine is warm, set the total advance timing to 36° at 4000 RPM.
- 7. The engine should be driven at varying loads and conditions for the first 30 miles or one hour without wide open throttle (WOT) or sustained high RPM accelerations.
- 8. Run five or six medium throttle (50%) accelerations to about 5000 RPM and back to idle (0% throttle) in gear.
- 9. Run two or three hard throttle (WOT 100%) accelerations to about 5000 RPM and back to idle (0% throttle) in gear.
- 10. Change the oil and filter. Replace with 20w50 racing motor oil (non synthetic) and a PF35L AC Delco oil filter. Inspect the oil and the oil filter for any foreign particles to ensure that the engine is functioning properly.
- 11. Drive the next 500 miles under normal conditions or 12 to 15 engine hours. Do not run the engine at its maximum rated engine speed. Also, do not expose the engine to extended periods of high load.
- 12. Change the oil and filter. Again, inspect the oil and oil filter for any foreign particles to ensure that the engine is functioning properly.
- 13. Do not use synthetic oil for break-in. It would be suitable to use synthetic motor oil after the second recommended oil change and mileage accumulation. In colder regions, a lower viscosity oil may be required for better flow characteristics.

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ZZ572/620 and ZZ572/720R High Performance Engine Assembly Specifications:

Valve Diameter (Intake/Exhaust): 2.25+1.88+

Chamber Volume: 118cc

Dual valve springs

Rocker Arm Ratio: 1.7:1, Aluminum roller rocker

Timing Chain: Heavy duty single roller design

Oil Pan:6 - quart Gen VI

Oil Pressure (Normal): 55 psi @ 1500 RPM

......63 psi @ 5000 RPM using 20w50 racing oil

Recommended Oil20w50 synthetic racing oil (after break-in)

Oil Filter: AC Delco part # - UPF35L

720R

Maximum Engine Speed:6000 RPM for ZZ2572/620. 6750 RPM for ZZ572/720R

Spark Plugs:AC Delco R45XLS for ZZ2572/620. AC Delco R42XLS for ZZ572/720R

Spark Plug Gap035+

Firing Order: 1-8-4-3-6-5-7-2

Note: These specifications are in addition to those documented within the short block instructions.

Information may vary with application. All specifications listed are based on the Latest Production Information Available At The Time Of Printing.

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ZZ572/620 Service Parts List:

12499190 1 Engine Asm, Partial 382(1912) 8 Study, VIv Lftr Push Rod 25534368 1 Block Asm, Eng 12366990 8 Cap, VIv Spr 455005 5 Bolt/Screw, Cr/Shf Brg C (Long) 12366987 4 Valve, Int 15651246 10 Bolt/Screw, Cr/Shf Brg C (Short) 88963128 4 Valve, Exh 88962212 1 Bearing, Conn Rod (Kit) 88963935 4 Locator, VIv Spring 88961556 8 Bearing, Conn Rod (Kit) 88963937 8 Shim, VIv Spr 88961554 1 Crankshaft 88963933 8 Spring Asm, VIv 12499434 1 Bearing Kit, Cam/Shf 88963933 8 Seal, VIv Stem Oil 88962926 8 Rod Asm, Conn 12366992 16 Key, VIv Stem 6264902 1 Seal-Cr/Shf Rr Oil 88960333 16 Bolt/Screw, Cyl Hd (Long) 10101164 1 Seal Asm-Cr/Shf Rr Oil 88960333 16 Bolt/Screw, Cyl Hd (Medium) 12499212	Part #	Quantity	<u>Name</u>	Part #	Quantity	Name
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15651246 10 Bolt/Screw, Cr/Shf Brg C (Short) 88963128 4 Valve, Exh 8896212 1 Bearing, Cr/Shf 88963128 4 Locator, VIv Spring 88961556 8 Bearing, Conn Rod (Kit) 88963937 8 Shim, VIv Spr 88961554 1 Crankshaft 88963933 8 Spring Asm, VIv 12499434 1 Bearing Kit, Cam/Shf 88963936 8 Seal, VIv Stem Oil 88962926 8 Rod Asm, Conn 12366992 16 Key, VIv Stem 6264902 1 Seal-Cr/Shf #5 Brg Cap Oil 88960332 8 Bolt/Screw, Cyl Hd (Long) 10101164 1 Seal Asm-Cr/Shf Rr Oil 88960333 16 Bolt/Screw, Cyl Hd (Medium) 12499212 8 Ring Kit, Pstn 88960333 16 Bolt/Screw, Cyl Hd (Short) 88962925 8 Piston Asm, (W/Pin) 17120060 16 Lifter Asm-VIv 10126796 1 Bolt/Screw-Cr/Shf Bal 88961558 8 Rod, Exh VIv Push 12371053		•		12366990	8	Cap, VIv Spr
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10230954 1 Cover Asm-Eng Frt (W/Tmg Ind) 25534355 1 Breather, C/Case Vent 88962814 1 Dampener, Torsional 88962074 1 Baffle Asm, Oil Fill 14085759 2 Gasket Asm-Vlv Rkr Cvr 12551397 8 Restrictor-Vlv Lifter Rot 88961561 2 Gasket, Cyl Hd 12551399 1 Retainer-Vlv Lifter 10106407 1 Gasket-Oil Pan 6487779 1 Valve Asm Unit-Cr/Case Vent 10240721 1 Pan Asm-Oil 12341993 1 Cap, Oil Filler Push-In Chrome 12499200 1 Cover, Vlv Rocker Lh *572* 12341988 1 Grommets, Valve Cover 12499200 1 Cover, Vlv Rocker Rh *572* 19131250 1 Pump Asm, Oil (W/ Scrn)		1		88961558	8	Rod, Exh VIv Push
10230954 1 Cover Asm-Eng Frt (W/Tmg Ind) 25534355 1 Breather, C/Case Vent 88962814 1 Dampener, Torsional 88962074 1 Baffle Asm, Oil Fill 14085759 2 Gasket Asm-Vlv Rkr Cvr 12551397 8 Restrictor-Vlv Lifter Rot 88961561 2 Gasket, Cyl Hd 12551399 1 Retainer-Vlv Lifter 10106407 1 Gasket-Oil Pan 6487779 1 Valve Asm Unit-Cr/Case Vent 10240721 1 Pan Asm-Oil 12341993 1 Cap, Oil Filler Push-In Chrome 12499200 1 Cover, Vlv Rocker Lh *572* 12341988 1 Grommets, Valve Cover 12499200 1 Cover, Vlv Rocker Rh *572* 19131250 1 Pump Asm, Oil (W/ Scrn)	12371053	1	Chain Pkg, Timing (Bb Chevy)	88961559	8	Rod, Int VIv Push
14085759 2 Gasket Asm-Vlv Rkr Cvr 12551397 8 Restrictor-Vlv Lifter Rot 88961561 2 Gasket, Cyl Hd 12551399 1 Retainer-Vlv Lifter 10106407 1 Gasket-Oil Pan 6487779 1 Valve Asm Unit-Cr/Case Vent 10240721 1 Pan Asm-Oil 12341993 1 Cap, Oil Filler Push-In Chrome 12499200 1 Cover, Vlv Rocker Lh *572* 12341988 1 Grommets, Valve Cover 12499200 1 Cover, Vlv Rocker Rh *572* 19131250 1 Pump Asm, Oil (W/ Scrn)	10230954	1	Cover Asm-Eng Frt (W/Tmg Ind)	25534355	1	
88961561 2 Gasket, Cyl Hd 12551397 8 Restrictor-Viv Lifter Rot 12501397 8 Restrictor-Viv Lifter Rot 12501397 1 Retainer-Viv Lifter 12501399 1 Retainer-Viv Lifter 12501399 1 Valve Asm Unit-Cr/Case Vent 1240721 1 Pan Asm-Oil 12341993 1 Cap, Oil Filler Push-In Chrome 12409200 1 Cover, Viv Rocker Lh *572* 12341988 1 Grommets, Valve Cover 12409200 1 Cover, Viv Rocker Rh *572* 19131250 1 Pump Asm, Oil (W/ Scrn)	88962814	1	Dampener, Torsional		1	
10106407 1 Gasket-Oil Pan 6487779 1 Valve Asm Unit-Cr/Case Vent 10240721 1 Pan Asm-Oil 12341993 1 Cap, Oil Filler Push-In Chrome 12499200 1 Cover, Vlv Rocker Lh *572* 12341988 1 Grommets, Valve Cover 12499200 1 Cover, Vlv Rocker Rh *572* 19131250 1 Pump Asm, Oil (W/ Scrn)	14085759	2	Gasket Asm-VIv Rkr Cvr	12551397	8	Restrictor-VIv Lifter Rot
10240721 1 Pan Asm-Oil 12341993 1 Cap, Oil Filler Push-In Chrome 12499200 1 Cover, Vlv Rocker Lh *572* 12341988 1 Grommets, Valve Cover 12361232 1 Arm Kit, Valve Rocker Alum Pall	88961561	2	Gasket, Cyl Hd	12551399	1	Retainer-VIv Lifter
12499200 1 Cover, VIv Rocker Lh *572* 12341983 1 Grommets, Valve Cover 12499200 1 Cover, VIv Rocker Rh *572* 19131250 1 Pump Asm, Oil (W/ Scrn)	10106407	1	Gasket-Oil Pan	6487779	1	Valve Asm Unit-Cr/Case Vent
12499200 1 Cover, Vlv Rocker Lh *572* 12341988 1 Grommets, Valve Cover 12499200 1 Cover, Vlv Rocker Rh *572* 19131250 1 Pump Asm, Oil (W/ Scrn)	10240721	1	Pan Asm-Oil	12341993	1	Cap, Oil Filler Push-In Chrome
12361222 1 Arm Kit Volvo Pooker Alum Poll	12499200	1	Cover, VIv Rocker Lh *572*	12341988	1	• •
10061202 1 Arm Kit Valva Bookar Alum Boll	12499200	1	Cover, VIv Rocker Rh *572*	19131250	1	Pump Asm, Oil (W/ Scrn)
13865886 1 Shaft Asm	12361323	1	Arm Kit, Valve Rocker Alum Roll	3865886	1	Shaft Asm
5613878 8 Spark Plug 3866604 1 Stud-O/Pmp	5613878	8	Spark Plug		1	Stud-O/Pmp
3864814 1 Washer-Cr/Shf Bal 88962187 1 Baffle Asm, Oil Pan	3864814	1	Washer-Cr/Shf Bal		1	•
88961557 1 Camshaft Asm, Eng 88962919 4 Bolt/Screw, Cyl Hd (Cyl Head Valley)	88961557	1	Camshaft Asm, Eng			
12499255 2 Head, Cyl	12499255	2	Head, Cyl			- , - , - , - ,

TITLE ZZ572/620 and ZZ572/720R Long Block Specifications REV15JA08	PART NO.	88962928	PAGE	6 of	21
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ALL INFORMATION WITHIN ABOVE BORDER TO BE PRINTED EXACTLY AS SHOWN ON 8 1/2 x 11 WHITE 16 POUND BOND PAPER. PRINT ON BOTH SIDES, EXCLUDING TEMPLATES.
TO BE LINITIZED IN ACCORDANCE WITH GMSPO SPECIFICATIONS

DATE	REVISION	AUTH





ZZ572/720 Service Parts List:

1						
l	Part #	Quantity	<u>Name</u>	Part #	Quantity	<u>Name</u>
l	12498825	1	Engine Asm, Partial 572	88961915	14	Washer, VIv Cover
l	25534368	1	Block Asm, Eng	88961160	2	Head, Cyl
l	455005	5	Bolt/Screw, Cr/Shf Brg C (Long)	3921912	8	Stud, VIv Rkr Arm Ball
l	15651246	10	Bolt/Screw, Cr/Shf Brg C (Short)	3860038	4	Guide, VIv Lftr Push Rod
l	88962212	1	Bearing, Cr/Shf	12366990	8	Cap, VIv Spr
l	88961556	8	Bearing, Conn Rod (Kit)	12366987	4	Valve, Int
l	12499434	1	Bearing Kit, Cam/Shf	88963128	4	Valve, Exh
l	12508998	5	Bearing-Camshaft	88963935	8	Locator, VIv Spring
l	88961554	1	Crankshaft	88963937	8	Shim, VIv Spr
l	88963227	8	Piston Asm, (W/Pin)	88963936	8	Seal, VIv Stem Oil
l	12499212	8	Ring Kit, Pstn	12366992	16	Key, VIv Stem
l	88962926	8	Rod Asm, Conn Kit	88963934	8	Spring Asm, VIv
l	6264902	1	Seal-Cr/Shf #5 Brg Cap Oil	88962284	8	Rod, Int VIv Push
l	10101164	1	Seal Asm-Cr/Shf Rr Oil	88962283	8	Rod, Exh VIv Push
l	12371053	1	Chain Pkg, Timing (Bb Chevy)	25534355	2	Breather, C/Case Vent
l	10230954	1	Cover Asm-Eng Frt (W/Tmg Ind)	88962074	2	Baffle Asm, Oil Fill
l	88962814	1	Dampener, Torsional	12341993	1	Cap, Oil Filler Push-In Chrome
l	25160561	1	Filter Pkg-Oil	3894337	2	Grommet-Oil Fil Cap
l	14085759	2	Gasket Asm-VIv Rkr Cvr	88960332	8	Bolt/Screw, Cyl Hd (Long)
l	88961561	2	Gasket, Cyl Hd	88960333	16	Bolt/Screw, Cyl Hd (Medium)
l	10106407	1	Gasket-Oil Pan	88960334	8	Bolt/Screw, Cyl Hd (Short)
l	10240721	1	Pan Asm-Oil	88962919	4	Bolt/Screw, Cyl Hd (Cyl Hd Valley)
l	88962920	1	Lifter, VIv	88962216	1	Camshaft Asm, Eng
l	12499200	1	Cover, VIv Rocker Lh *572*	19131250	1	Pump Asm, Oil (W/ Scrn)
l	12499200	1	Cover, VIv Rocker Rh*572*	3865886	1	Shaft Asm
l	12361323	1	Arm Kit, Valve Rocker Alum Roll	3866604	1	Stud-O/Pmp
١	5613100	8	Plug-Spark	88962187	1	Baffle Asm, Oil Pan
l	3864814	1	Washer-Cr/Shf Bal			

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