

LS Race Block

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Part #:	54900	54901	54902	54903	54900 U	54901U	54902U	54903U	54904	54905	54906	54906 U
Deck Height:	9.750"	9.750"	9.240"	9.240"	9.750"	9.750"	9.240"	9.240"	9.760"	9.250"	9.240"	9.250"
Bore Size:	4.165"	4.125"	4.165"	4.125"	4.160"	4.120"	4.160"	4.120"	4.100"	4.100"	3.900"	3.985"
Bore Finish:	Honed*	Honed*	Honed*	Honed*	Bored	Bored	Bored	Bored	Bored	Bored	Honed*	Bored
Liner Length:	6.38"	6.38"	5.87"	5.87"	6.38"	6.38"	5.87"	5.87"	6.38"	5.87"	5.87"	5.87"
Cyl. Wall Thickness:	.070"	.090"	.070"	.090"	.0725"	.925"	.0725"	.925"	.1025"	.1025"	.2025"	.2025"
Weight:	120 lbs.	124 lbs.	111 lbs.	115 lbs.	120 lbs.	124 lbs.	120 lbs.	115 lbs.	125 lbs.	116 lbs.	118 lbs	127 lbs
Deck Thickness:	.750"	.750"	.500"	.500"	.750"	.750"	.500"	.500"	.760"	.510"	.510"	.510"

*Ra: $0.4 \mu m + 0.25 / -0.15 \mu m$

See Illustration A for deck height measurements.

Material: A357-T6 Aluminum

Liner O.D.: 4.305"
Parent Bore Thickness: .200"

Stroke: Tall Deck – 4.600" (may require final notching of liners for rod clearance)

Standard Deck – 4.250" (may require final notching of liners for rod clearance)

Camshaft Position: Raised .388"/9.86mm (requires 2 extra links in timing chain)

Cam Thrust Plate: RHS #549102 included with block
Rear Cover: RHS #549101 included with block

Cam Bearing: Durabond Babbit Bearing – installed and microfinished for 55mm cam

Lifter Bores: Machined for .842" lifter (material to accommodate 1.060" bushing for key lifter)

Lifers Style: Requires tie bar style lifer (will not accommodate OE trays)

Main Bearing Bore: 2.751" +/- .0003" (69.88 mm +/- .009)

Main Caps: 8620 Billet

Main Studs: ARP 2000 7/16"-20 x 5.150" x 7/16"-14

Main Bolts: ARP 8740 3/8"-16 x 1.250"

Oil System: Priority Main Oiling with -12 AN provisions front and rear

Oil Pan: Stock bolt pattern, pan will depend on stroke/rod clearance requirements

See Illustration B.

Head Studs: 6-Bolt LSX Pattern- M11 x 2.0 & M8 x 1.25

Freeze Plugs: Threaded -12 AN (included with block)

Features

- Standard and 9.750" Tall Deck
- Long Arm Friendly Engineered to Clear 4.600" Stroke with 2.100" Rod Pin and 60mm Cam
- Priority Main Oiling Dry Sump Friendly, Front & Rear -12 AN Fittings Feeds and OEM Feed
- Raised Cam Centerline Accomodates Up to a 60mm Cam with 4.600" stroke
- · 6-Head Bolt Design with Full Water Jacket Around Cylinders
- Chilled Main Bearing Bulkheads
- · Improved Bay-to-Bay Breathing

Tech Notes Heads: Any LS head with stock or GM LSX 6 bolt pattern Crankshaft: 4.600" Stroke should have 3.52" cheek radius max. Cranks Sensor: Stock Gen III/Gen IV depending on controller (will require plugging if not used) Cam Sensor: All blocks are machined for Gen III cam sensors. However, the standard deck blocks will require a spacer to accommodate the raised cam; tall deck is a drop-in application. Gen IV will require modifing the front cover to reposition the sensor for the raised cam. **Knock Sensor:** Machined for Gen III & Gen IV knock sensors Valley Cover: Gen III or Gen IV valley cover Front Cover: Gen III & Gen IV covers will fit. Gen IV-style cover will require modification of cam sensor location to accommodate the raised cam or purchase of COMP #5496/5497. (Aftermarket and distributor drive covers will require modification for raised cam.) **Timing Chain** Raised cam will require chain with 2 extra links. Single roller will clear front cover, oil pump & Sprockets: and the block. Double roller will require spacing of oil pump and checking clearance of the front cover. Specific timing sets available from COMP Cams. Valve Train: Utilize valve train for selected heads with pushrod length sized accordingly for raised cam Lifters: Requires revised dog bone or tie bar lifter design (stock lifter trays will not work) Water Pump: Utilizes stock LS water pump Windage Tray: Long stroke may require shimming of windage tray **Piston Oil Squirter:** Priority Main oiling system requires only 4 piston squirters with cross over design. Oil hole provision is only a pilot hole and will require drilling into oil galley to activate. Machined for Gen III & front engine mounts, provisions for Gen 1 mounts are spot drilled **Engine Mounts:** and will require drill and tapping and may break into waterjacket. In the event that these holes break into the water jacket, apply sealant to these fastners. We also recommend installing a flush stud into the Gen III hole adjacent to the Gen 1. Hold to add backup for the bolt. Also provisions for front motorplate race mounts. See Illustration C. **Block Heater:** The factory block heater will not thread into the hole in the stock location. Modifications will need to be made to thread into the -12AN hole. Oil Dipstick: Provision for stock oil dipstick, this hole will require plugging if not used. Oil System: The RHS priority main oiling system has eliminated the stock "barbell plug" and replaced it with a stepped 1/2"-3/8" NPT plug design to eliminate the restriction created by the "barbell" body using the external -12 feed. See Illustrations D & E. The RHS block is designed to use the Gen IV oil sensor, if using a Gen III cover and the GM or **Oil Pressure Sensor:** equivalent screw in oil pressure sensor you will need to drill and tap the block. Maximum recommended sensor size is M16 or 3/8 NPT. See Illustration F **Torque Specifications:**

Main Studs:75 ft./lbs.Utilizing ARP Ultra Torque Lube(129 Nm)Main Cross Bolts:35 ft./lbs.Utilizing ARP Ultra Torque Lube(48 Nm)Cam Thrust Plate:18 ft./lbs.(25 Nm)Rear Cover:18 ft./lbs.(25 Nm)

Head Stud Torque: Use fastner manufacturer recommended installation, sequence, torque and lubricant.

	Su	ggested Components	
Part Type	Brand/Part #	Description	
	RHS #549150	LS Torque Plate Set	
Main Cap Puller:	RHS #549106	LS Engine Main Cap Puller	
Head Gasket:	RHS #549400-L	RHS LS Head Gasket 4.00" Bore-Left	
	RHS #549400-R	RHS LS Head Gasket 4.00" Bore-Right	
	RHS #549401-L	RHS LS Head Gasket 4.165" Bore-Left	
	RHS #549401-R	RHS LS Head Gasket 4.165" Bore-Right RHS LS Head Gasket 4.200" Bore-Left	
	RHS #549402-L RHS #549402-R	RHS LS Head Gasket 4.200 Bore-Right	
	See Illustration G.	Rifo Lo Head Gasket 4.200 Bole-Right	
Timing Set:	RHS #3154	COMP Cams Double Roller Timing Chain Set	
	RHS #3173KT	COMP Cams Double Roller Adjustable Timing Chain Set	
	RHS#9302	RHS Single Row Replacement Timing Chain (chain only)	
	RHS#9132	RHS Double Row Replacement Timing Chain (chain only)	
Front Cover:	COMP #5496	Front Timing Cover with Raise Cam Sensor Mount for LS1,2,3, and 6 oil pumps	
	COMP #5497	Front Timing Cover with Raise Cam Sensor Mount for LS7 oil pumps	
Lifters:	COMP #15956-16	.842" Short Travel Hydraulic Lifter (captured link bar)	
	COMP #8956-16	.842" Endure-X Mechanical Roller (drop off link bar type)	
	COMP #98956-16	.842" Elite Race Mechanical Roller (captured link bar type)	
	COMP #98954-16	.875" Elite Race Mechanical Roller (captured link bar type)	
	COMP #98952-16	.904" Elite Race Mechanical Roller (captured link bar type)	
Piston Oilers:	RHS #549120	Piston Oiler Set, Includes All Four Oilers and Metering Bolts	
Assembly Lube:	COMP #102	COMP Engine Assembly Lube 4 oz. jar	
	COMP #104	COMP Engine Assembly Lube 8oz. Jar	
	COMP #127	COMP Engine Assembly Lube 16 oz. Tube	
	COMP #100-9908	ARP Ultra Lube Torque Lube .5 oz.	
Intake Spacer	RHS #549107	LS1 Intake Spacer Kit for 9.750" Deck	
Plates:	RHS #549108	LS3 Intake Spacer Kit for 9.750" Deck	
	RHS #549109	LS7 Intake Spacer Kit for 9.750" Deck	
		Service Items	
Part Tyne	Rrand/Part #	Description	
Part Type	Brand/Part #	Description 4.040" Rore Tall Deck Outer Right Liner (Cylinders #2.8: #7)	
Part Type Liners:	RHS #54901CL	4.040" Bore Tall Deck Outer Right Liner (Cylinders #2 & #7)	
	RHS #54901CL RHS #54904CL	4.040" Bore Tall Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Tall Deck Outer Left Liner (Cylinders #1 & #8)	
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Rear Cover: Cam Thrust Plate: Cam Bearings: Main Caps: Main Dowel:	RHS #54901CL RHS #54904CL RHS #54900CL RHS #54903CL RHS #54905CL RHS #54905CL RHS #54906CLSB RHS #54907CLSB RHS #54907CLSB RHS #54902CLSB RHS #54902CLSB RHS #549101 RHS #549102 RHS #549204-1 RHS #549201-1 RHS #549300-1 RHS #549300-1 RHS #549300-1 RHS #549300-1 RHS #549300-1	4.040" Bore Tall Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Tall Deck Outer Left Liner (Cylinders #1 & #8) 4.040" Bore Tall Deck Inner Liner 4.040" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 4.040" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 3.840" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 3.840" Bore Standard Deck Inner Liner Rear Cover Seal & Fasteners Brass Cam Thrust Plate 6 Bolts Thrust Plate O-Ring Replacement Cam Bearing-Finished I.D. 8620 Billet Main Cap Main Dowel Pin Main Cap Stud, Long Main Cap Stud, Short Main Cap Side Bolt	
Rear Cover: Cam Thrust Plate: Cam Bearings: Main Caps: Main Dowel:	RHS #54901CL RHS #54904CL RHS #54900CL RHS #54903CL RHS #54905CL RHS #54905CL RHS #54906CLSB RHS #54907CLSB RHS #54907CLSB RHS #54902CLSB RHS #549101 RHS #549102 RHS #549102 RHS #549204-1 RHS #549201-1 RHS #549300-1 RHS #549300-1 RHS #549301-1 RHS #549303-1 RHS #549303-1	4.040" Bore Tall Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Tall Deck Outer Left Liner (Cylinders #1 & #8) 4.040" Bore Tall Deck Inner Liner 4.040" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 4.040" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 3.840" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 3.840" Bore Standard Deck Inner Liner Rear Cover Seal & Fasteners Brass Cam Thrust Plate 6 Bolts Thrust Plate O-Ring Replacement Cam Bearing-Finished I.D. 8620 Billet Main Cap Main Dowel Pin Main Cap Stud, Long Main Cap Stud, Short Main Cap Stide Bolt Main Cap 12pt Nut	
Rear Cover: Cam Thrust Plate: Cam Bearings: Main Caps: Main Dowel:	RHS #54901CL RHS #54904CL RHS #54900CL RHS #54903CL RHS #54905CL RHS #54905CL RHS #54906CLSB RHS #54907CLSB RHS #54907CLSB RHS #549101 RHS #549102 RHS #549102 RHS #549202-1 RHS #549201-1 RHS #549300-1 RHS #549300-1 RHS #549300-1 RHS #549300-1 RHS #549303-1 RHS #549303-1 RHS #549304-1	4.040" Bore Tall Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Tall Deck Inner Liner 4.040" Bore Standard Deck Inner Liner 4.040" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Standard Deck Outer Left Liner (Cylinders #2 & #8) 4.040" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 3.840" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 3.840" Bore Standard Deck Inner Liner Rear Cover Seal & Fasteners Brass Cam Thrust Plate 6 Bolts Thrust Plate O-Ring Replacement Cam Bearing-Finished I.D. 8620 Billet Main Cap Main Dowel Pin Main Cap Stud, Long Main Cap Stud, Short Main Cap Stide Bolt Main Cap Yukt Main Cap Washer	
Rear Cover: Cam Thrust Plate: Cam Bearings: Main Caps: Main Dowel: Main Studs:	RHS #54901CL RHS #54904CL RHS #54900CL RHS #54903CL RHS #54905CL RHS #54905CL RHS #54906CLSB RHS #54907CLSB RHS #54907CLSB RHS #54902CLSB RHS #549101 RHS #549102 RHS #549102 RHS #549204-1 RHS #549204-1 RHS #549300-1 RHS #549300-1 RHS #549301-1 RHS #549303-1 RHS #549303-1 RHS #549305-1 RHS #549305-1 RHS #549305-1	4.040" Bore Tall Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Tall Deck Inner Liner 4.040" Bore Tall Deck Inner Liner 4.040" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 4.040" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 3.840" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 3.840" Bore Standard Deck Inner Liner Rear Cover Seal & Fasteners Brass Cam Thrust Plate 6 Bolts Thrust Plate O-Ring Replacement Cam Bearing-Finished I.D. 8620 Billet Main Cap Main Dowel Pin Main Cap Stud, Long Main Cap Stud, Short Main Cap Side Bolt Main Cap Side Bolt Main Cap Side Washer Main Cap Side Washer Block-To-Transmission Dowel Pin	
Rear Cover: Cam Thrust Plate: Cam Bearings: Main Caps: Main Dowel: Main Studs:	RHS #54901CL RHS #54904CL RHS #54900CL RHS #54903CL RHS #54905CL RHS #54905CL RHS #54906CLSB RHS #54907CLSB RHS #54907CLSB RHS #54902CLSB RHS #549101 RHS #549102 RHS #549102 RHS #549204-1 RHS #549204-1 RHS #549300-1 RHS #549300-1 RHS #549301-1 RHS #549301-1 RHS #549301-1 RHS #549303-1 RHS #549304-1 RHS #549305-1 RHS #549305-1 RHS #549203-1	4.040" Bore Tall Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Tall Deck Inner Liner 4.040" Bore Tall Deck Inner Liner 4.040" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 4.040" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 3.840" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 3.840" Bore Standard Deck Inner Liner Rear Cover Seal & Fasteners Brass Cam Thrust Plate 6 Bolts Thrust Plate O-Ring Replacement Cam Bearing-Finished I.D. 8620 Billet Main Cap Main Dowel Pin Main Cap Stud, Long Main Cap Stud, Short Main Cap Side Bolt Main Cap Side Bolt Main Cap Side Washer Main Cap Side Washer Block-To-Transmission Dowel Pin Threaded -12 AN Plug	
Rear Cover: Cam Thrust Plate: Cam Bearings: Main Caps: Main Dowel: Main Studs:	RHS #54901CL RHS #54904CL RHS #54900CL RHS #54903CL RHS #54905CL RHS #54905CL RHS #54906CLSB RHS #54907CLSB RHS #54907CLSB RHS #54902CLSB RHS #549101 RHS #549102 RHS #549102 RHS #549204-1 RHS #549204-1 RHS #549300-1 RHS #549300-1 RHS #549301-1 RHS #549303-1 RHS #549303-1 RHS #549305-1 RHS #549305-1 RHS #549305-1	4.040" Bore Tall Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Tall Deck Inner Liner 4.040" Bore Tall Deck Inner Liner 4.040" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 4.040" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 4.040" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Inner Liner 3.840" Bore Standard Deck Outer Right Liner (Cylinders #2 & #7) 3.840" Bore Standard Deck Outer Left Liner (Cylinders #1 & #8) 3.840" Bore Standard Deck Inner Liner Rear Cover Seal & Fasteners Brass Cam Thrust Plate 6 Bolts Thrust Plate O-Ring Replacement Cam Bearing-Finished I.D. 8620 Billet Main Cap Main Dowel Pin Main Cap Stud, Long Main Cap Stud, Short Main Cap Side Bolt Main Cap Side Bolt Main Cap Side Washer Main Cap Side Washer Block-To-Transmission Dowel Pin	













