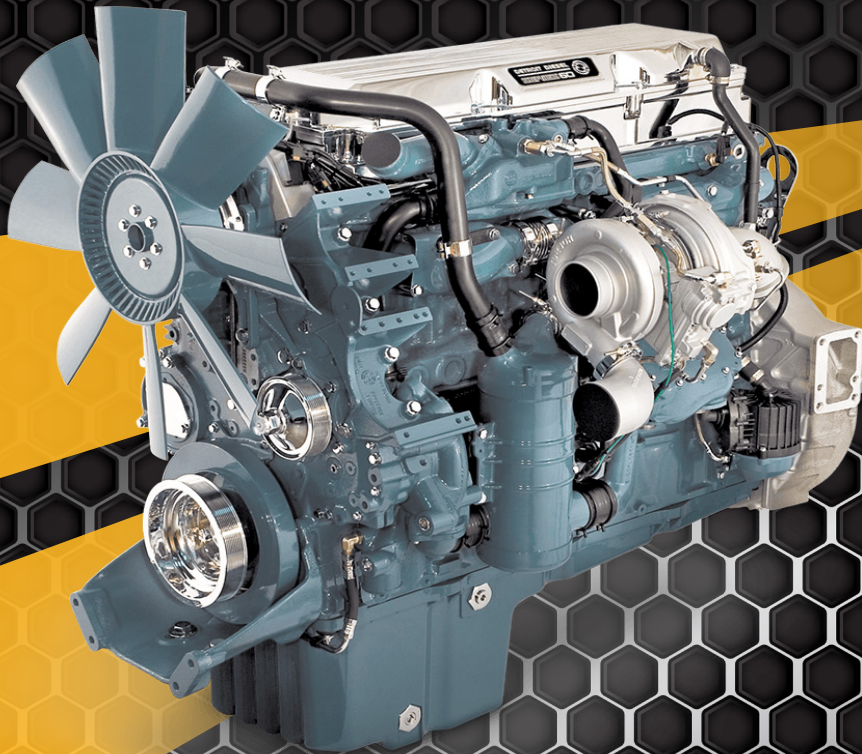




REPLACEMENT PARTS FOR

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SERIES 60 ENGINE APPLICATION
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CYLINDER KITS

CYLINDER KIT	CR	FIRE RING	PISTON TYPE	NOTE
23530661	15:1	3.0mm	Articulated Steel	14L - 2 piece Piston
23530663	16:1	3.0mm	Articulated Steel	14L - 2 piece Piston
23530665	16:1	3.0mm	Articulated Steel	14L - 2 piece Piston - EGR
23532554	16.5:1	3.0mm	Articulated Steel	12.7L MY 1999-2003 - 22mm piston pin ID "heavy pin"
23532555	15:1	2.5mm	Cast Iron	11.1L/12.7L - TLC Cylinder Liner
23532556	15:1	3.5mm	Cast Iron	11.1L/12.7L - TLC Cylinder Liner
23532557	15:1	2.5mm	Cast Iron	12.7L - Eliptical Dome Piston
23532558	16.5:1	2.5mm	Cast Iron	12.7L - TLC Cylinder Liner - 22mm piston pin ID "heavy pin"
23532590	15:1	2.5mm	Cast Iron	12.7L - Non-TLC liner
23532591	15:1	3.5mm	Cast Iron	12.7L - Non-TLC liner
23533204	15:1	3.0mm	Articulated Steel	12.7L MY 1998 - 22mm piston pin ID "heavy pin"
23536256	17:1	3.0mm	1pc Steel	14L - EGR
23538831	16.75:1	3.0mm	1pc Steel	14L - EGR - 2007
23530612	16.5:1	3.0mm	1pc Steel	12.7L - EGR
23533595	17.25:1	3.0mm	1pc Steel	12.7L - EGR
23536685	16.75:1	3.0mm	1pc Steel	14L - 4 Valve Reliefs



ENGINE KITS

INFRAME KIT	OVERHAUL KIT	BASIC KIT	BEARING KIT	NOTE
23530661Q	23530661Q			
23530663Q	23530663Q	23532307	23527914 or 23535280	
23530665Q	23530665Q	23537081	23527914 or	
23530665QT	23530665QT			
23532554	23532554	23532577	23531606	
23532554Q	23532554Q			
23532554QT	23532554QT			
23532555	23532555	23532565	23531604 or 23531605	11.1L ESN 6R184523 to MY 2000 12.7L ESN 6R188252 to MY 2000
23532555Q	23532555Q			11.1L ESN 6R151000 to approx. 6R184522 12.7L ESN 6R151000 to approx. 6R188251
23532555QT	23532555QT			
23532555N	23532555N			
23532555NQ	23532555NQ			
23532556	23532556	23532581	23531604 or 23531605	11.1L ESN 6R18423 to MY 2000 12.7L ESN 6R188252 to
23532556Q	23532556Q			11.1L ESN 6R151000 to approx. 6R184522 12.7L ESN 6R151000 to approx. 6R188251
23532556QT				
23532556N	23532556N			
23532556NQ	23532556NQ			
23532557	23532557	23532585	23531604 or 23531605	
23532557Q	23532557Q			
23532557QT				
23532558	23532558	23533033	23531605	
23532558Q	23532558Q			
23532558QT				
23532590		23532592	23531604	
23532590Q	23532590			
23532591	23532590Q		23531604	
23532591Q	23532591			
23533204	23532591Q	23532574	23531606	
23533204Q	23533204			
23533204QT	23533204Q			
23538418Q	23538418Q	23538418	23533692	
23539316Q	23539316Q	23539316		
23537079Q	23537079Q	23537079	23527914	
23537130Q	23537130Q	23537130	23533692	
23536685Q	23536685Q			

RE-RING ENGINE KITS

RING SET	FIRE RING	PISTON TYPE	INFRAME KIT	OVERHAUL KIT	NOTE
23503747	2.5mm	Cast Iron	P028615	P028668	11.1L or 12.7L
23503747	2.5mm	Cast Iron	P028623	P271000	11.1L or 12.7L w/ Cam Bearings and Head Bolts
23503747	2.5mm	Cast Iron	P028616		11.1L or 12.7L w/o Piston Pin and Retainers
23503747	2.5mm	Articulated Steel	P028617	P28699	DDEC IV
23503747	2.5mm	Articulated Steel	P270981		DDEC IV w/o Piston Pin and Retainers
23503747	2.5mm	Articulated Steel	P028619	P028669	DDEC IV w/ 23521802 Piston Skirt
23531251	3.0mm	Articulated Steel	P028621	P028671	12.7L DDEC V w/ 23531502 Cylinder Liner
23531252	3.0mm	1 Piece Steel	P028620		14L DDEC V Use only for ESNs calling for 23533282 Piston and 23531504 Cylinder Liner
23537529	3.0mm	1 Piece Steel	P201636	P273621	14L DDEC V Use only for ESNs calling for 23537126 Piston and 23531504 Cylinder Liner
23531251	3.0mm	Articulated Steel	P272465		12.7L DDEC V with 23531502 Liner
23537529	3.0mm	1 Piece Steel	P205365		14L DDEC V with 23531504
Note - All Re-Ring Engine Kits contain "wide" bearings. Narrow bearings may be substituted upon request.					

CYLINDER COMPONENTS

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
P204804		6	6	Rod Bushing Closed Rod (trunk)	Use in Drilled Rods Only
8929355	12	12		Rod Cap Bolt	M14 x 1.5 x 108
8929019	12	12	12	Rod Cap Nut	M14 x 1.5
23522877		12	12	Rod Cap Bolt	M14 x 1.5 x 111.5
23528493		6	6	Piston Cooling Nozzle	
23506222		6	6	Piston Cooling Nozzle Bolt	
23532468	6	6		Kit - Cylinder Liner	Early - Non-TLC w/ Seal Kit
23531249	6	6		Kit - Cylinder Liner	TLC w/ Seal Kit
23531250			6	Kit - Cylinder Liner	TLC w/ Seal Kit
Note - TLC = Top Liner Cooled					
23531502KT	6	6	6	Kit - Cylinder Liner Seal	
8929013	6	6	6	Liner Seal - Crevice	1 ea. included in 23531502KT
8929176	12	12	12	Liner Seal - D-ring	

CYLINDER COMPONENTS (CONT.)

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23532468	6	6		Kit - Cylinder Liner	Early - Non-TLC w/ Seal Kit
23531249	6	6		Kit - Cylinder Liner	TLC w/ Seal Kit
23531250			6	Kit - Cylinder Liner	TLC w/ Seal Kit
Note - TLC = Top Liner Cooled					
23531502KT	6	6	6	Kit - Cylinder Liner Seal	1 ea. included in 23531502KT
8929013	6	6	6	Liner Seal - Crevice	
8929176	12	12	12	Liner Seal - D-ring	
23519635	6	6		Kit - Piston (23530141 Crown)	Cast Iron - 3.5mm Ring - 15:1 CR
23519624	6	6		Kit - Piston (23529367 Crown)	Cast Iron - 2.5mm Ring - 15:1 CR
23519646		6		Kit - Piston (23529370 Crown)*	Cast Iron - 2.5mm Ring - 15:1 CR
23524601		6		Kit - Piston (23532966 Crown)	Cast Iron - 2.5mm Ring - 16.5:1 CR
23533203		6		Kit - Piston (23532465 Crown)+	Articulated Steel - 3mm Ring - 15:1 CR
23530668		6		Kit - Piston (23530727 Crown)+	Articulated Steel - 3mm Ring - 16.5:1 CR
23530660			6	Kit - Piston (23530592 Crown)	Articulated Steel - 3mm Ring - 15:1 CR
23530662			6	Kit - Piston (23530597 Crown)	Articulated Steel - 3mm Ring - 16:1 CR
23530664			6	Kit - Piston (23527774 Crown)#	Articulated Steel - 3mm Ring - 16:1 CR
23537531			6	Kit - Piston (23536674 Piston)#	1pc Steel - 3mm Ring - 17:1 CR
23537899			6	Kit - Piston (23537126 Piston)#	1pc Steel - 3mm Ring - 16.75:1 CR
Note - Piston Kits include Piston or Crown/Dome, Skirt (where used), Pin and Retainers					
* = Elliptical Dome + = "Heavy Pin" Use ONLY in sets # = EGR					
23503747	6	6		Set - Piston Ring	2.5mm Top Ring
23505729	6	6		Set - Piston Ring	3.5mm Top Ring
23531251		6		Set - Piston Ring	3.0mm Top Ring
23531252			6	Set - Piston Ring	3.0mm Top Ring - 1 and 2 pc Pistons
23537529			6	Set - Piston Ring	3.0mm Top Ring - 1 pc Piston
23519723	6	6		Kit - Slipper Bearing	X-head Iron OE Crown
23519723	6	6		Kit - Slipper Bearing	X-head Iron IMCB Crown
8929087	6	6		Pin - Piston	X-head Iron
8929337	12	12		Bolt - Piston Pin	
8929504	12	12		Spacer Bolt - Piston Pin	
23525168		6		Pin - Piston - 22mm +	Articulated Steel
23522872			6	Pin - Piston	
23521781		12	12	Retainer - Piston Pin	
23532007			6	Pin - Piston	1pc Steel
23521781			12	Retainer - Piston Pin	
Note - + = "Heavy Pin" Use ONLY in sets					

ENGINE COMPONENTS

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
8929710	6	6		Connecting Rod Bearing - STD	X-Head - Narrow - Early ≤4R6664 ≤6R184521 - 11.1L ≤6R188250 - 12.7L 1.710" w/ 43mm
8929711	6	6		Connecting Rod Bearing - .254mm	
8929712	6	6		Connecting Rod Bearing - .508mm	
8929713	6	6		Connecting Rod Bearing - .762mm	
23515581	6	6		Connecting Rod Bearing - STD	X-Head - Wide - Early ≥4R6665 ≥6R184522 - 11.1L ≥6R188251 - 12.7L 1.863" w/ 47mm
23515582	6	6		Connecting Rod Bearing - .254mm	
23515583	6	6		Connecting Rod Bearing - .508mm	
23515584	6	6		Connecting Rod Bearing - .762mm	
23526142		6		Connecting Rod Bearing - STD	Closed Rod / Steel Piston
23527065		6		Connecting Rod Bearing - .254mm	
23527066		6		Connecting Rod Bearing - .508mm	
23527067		6		Connecting Rod Bearing - .762mm	
23526141		6	6	Connecting Rod Bearing - STD	Closed Rod / Large Journal
23533567		6	6	Connecting Rod Bearing - .254mm	
23533568		6	6	Connecting Rod Bearing - .508mm	
8929670	6	6	6	Main Bearing - STD	
8929680	1	1	1	Main Bearing - STD	Thrust
8929671	6	6	6	Main Bearing - .254mm	
8929681	1	1	1	Main Bearing - .254mm	Thrust
8929672	6	6	6	Main Bearing - .508mm	
8929682	1	1	1	Main Bearing - .508mm	Thrust
8929673	6	6	6	Main Bearing - .762mm	
8929683	1	1	1	Main Bearing - .762mm	Thrust
23533263		AR	AR	Main Bearing - STD - Upper	Thrust
23532926		AR	AR	Main Bearing - STD - Lower	
8929085	2	2	2	Thrust Washer	
23530554		2	2	Thrust Washer - Front	6R0762048 & up
23530555		2	2	Thrust Washer - Rear	

ENGINE COMPONENTS (CONT.)

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
8929690	7	7	7	Camshaft Bearing - STD	
8929691	7	7	7	Camshaft Bearing - .254mm	
8929692	7	7	7	Camshaft Bearing - .508mm	
8929693	7	7	7	Camshaft Bearing - .762mm	
P204804		6	6	Conecting Rod Bushing	For Drilled Rods ONLY
8929430	1	1	1	Bull Gear Bearing Assembly	

ENGINE BEARING KITS

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23531604	1	1		Lower Bearing Kit - STD	Narrow Mains - 43mm Early
23531605	1	1		Lower Bearing Kit - STD	Wide Mains - 47mm
23519905	1	1		Lower Bearing Kit - .254mm	
23519906	1	1		Lower Bearing Kit - .508mm	
23531606		1		Lower Bearing Kit - STD	Articulated Steel Piston
23538953		1		Lower Bearing Kit - .254mm	
23538954		1		Lower Bearing Kit - .508mm	
23527914			1	Lower Bearing Kit - STD	Non-EGR Engine
23535280		1	1	Lower Bearing Kit - STD	Hooked & Tabbed Thrust Washers
23533692		1	1	Lower Bearing Kit - STD	Tabbed Thrust Washers
23535010	1	1	1	Thrust Bearing Kit - STD	
23524154	1	1	1	Thrust Bearing Kit - STD	Lower

GASKET SETS

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23532333	1	1	1	Cylinder Head Gasket Set	
23536442		1	1	Cylinder Head Gasket Set - EGR	
23538506			1	Cylinder Head Gasket Set - MY2007	
23532720	1	1	1	Overhaul Gasket Set	w/o Rocker Cover Gaskets
23512691	1	1	1	Overhaul Gasket Set*	
23536443		1	1	Overhaul Gasket Set - EGR	

Note - * = DOES NOT include Injector Seals

CYLINDER BLOCK

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23525500	AR	AR		Sleeve - Counter Bore Repair	Upper
23525500-20	AR	AR		Sleeve - Counter Bore Repair - .020" OS	
8924380	AR	AR	AR	Plug	1/8" Square Socket
8922327	AR	AR	AR	Plug	1/4" Square Socket
8923847	AR	AR	AR	Plug	1/4" Square Socket
8924517	AR	AR	AR	Plug	3/8" Square Socket
23511572	AR	AR	AR	Plug	1/2" Square Socket
8923916	AR	AR	AR	Plug	1/2" Square Socket
23511573	AR	AR	AR	Plug	3/4" Square Socket
8923313	AR	AR	AR	Plug	3/4" Square Socket
5139988	AR	AR	AR	Plug - Cup	
5139991	AR	AR	AR	Plug - Cup	
8929152	AR	AR	AR	Pin - Dowel	20mm
103325	8	8	8	Lock Washer - Engine Mount	
23539134	AR	AR	AR	Cylinder Liner Shim - .010"	Stainless
23539135	AR	AR	AR	Cylinder Liner Shim - .030"	Stainless
S60-031 SHIM	AR	AR	AR	Cylinder Liner Shim - .031"	Brass
23539136	AR	AR	AR	Cylinder Liner Shim - .060"	Stainless
S60-062 SHIM	AR	AR	AR	Cylinder Liner Shim - .062"	Brass

CRANKSHAFT & SEALS

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23515598		1		Crankshaft - 6-hole - Wide w/ Cast Pistons	>6R188251
23527225			1	Crankshaft - 12-hole	
8929808	1	1	1	Key - Woodruff	Gear
147489	1	1	1	Ball - Steel - Crankshaft Pulley	3/8"
23518355	1	1	1	Seal Assembly - Front	Unitized Seal & Wear Sleeve
23519651	1	1	1	Seal Assembly - Rear	Unitized Seal & Wear Sleeve
23516969	1	1	1	Seal Assembly - Rear - OS	
23501544	1	1	1	Seal - Rear - OS	w/o Wear Sleeve
23513578	1	1	1	Seal Assembly - Rear	Wet Housing

ROCKER COVER MOUNTING

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23506153	1	1	1	Gasket - Upper to Intermediate	≤ 6/1999 MY
11504822	8	8	8	Bolt - Upper to Intermediate	
8929803	1	1	1	Gasket -Intermediate to Lower	≤ 6/1999 MY
11504822	8	8	8	Bolt - Intermediate to Lower	
23516322	1	1	1	Gasket -Lower to Cylinder Head	≤ 6/1999 MY
8929255	10	10	10	Isolator -Lower to Cylinder Head	up to 1996
5104514	10	10	10	Isolator Washer - Lower to Cylinder Head	up to 1996
23517911	10	10	10	Isolator Assembly - Lower to Cylinder Head	1996 - 1999
23511992	1	1	1	Gasket -Upper to Intermediate	MY 6/1999 & up
11504822	8	8	8	Bolt - Upper to Intermediate	
23511991	1	1	1	Gasket -Intermediate to Lower	MY 6/1999 & up
11504822	8	8	8	Bolt - Intermediate to Lower	
23522269	1	1	1	Gasket -Lower to Cylinder Head	MY 6/1999 & up
23522271	10	10	10	Isolator Assembly - Lower to Cylinder Head	6/99 & up

CYLINDER HEAD COMPONENTS

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23501576	12	12	12	Valve Kit - Intake	"A"
23501577	12	12		Valve Kit - Exhaust	"U" - Pre-1991
23507504	12	12	12	Valve Kit - Exhaust	"H" - 1991-2001 %
Note: Valve kits include valve, locks, seal & rotator.					
8929589	12	12	12	Valve - Intake	"A"
23529629		12	12	Valve - Intake	EGR
23520149		12		Valve - Intake	GAS
8929590	12	12		Valve - Exhaust	"U" - Pre-1991
23506350	12	12	12	Valve - Exhaust	"H" - 1991-2001
23529596		12	12	Valve - Exhaust	EGR - 2002 & up
23520148		12		Valve - Exhaust	GAS
"A" or large dimple, "U" & NO machined ID ring & "H" or small dimple					
Note - % = Valve lash settings for these are not the same and cannot be mixed in an engine					
8929573	48	48	48	Valve Lock	
23518571	24	24	24	Valve Guide - Rifled	14.30 - 14.32mm OD
23533552	24	24	24	Valve Guide - Smooth	14.30 - 14.32mm OD
23518572	AR	AR	AR	Valve Guide	14.43 - 14.45mm OD
23523930	24	24	24	Valve Stem Seal	
23521944		24		Valve Stem Seal	GAS

CYLINDER HEAD COMPONENTS (CONT.)

PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION	NOTE
8929127	12	12	12	Valve Seat - Intake - STD	
8929127-010	AR	AR	AR	Valve Seat - Intake - .010"	
23517058		12		Valve Seat - Intake	GAS
8929126	12	12	12	Valve Seat - Exhaust - STD	
8929126-010	AR	AR	AR	Valve Seat - Exhaust - .010"	
23519090		12		Valve Seat - Exhaust	GAS
8929415	24	24	24	Valve Spring	Both non-EGR
8929415		12	12	Valve Spring - Intake	EGR
23535122		12	12	Valve Spring - Exhaust	EGR
8929076	24	24	24	Valve Spring Seat	STD
8929105	24	24	24	Valve Rotator	
23501580	6	6	6	N2 Injector Tube Kit	*
8929078	6	6	6	N2 Injector Tube Tube	*
23515470	6	6	6	N2 Injector Tube Seal	*
5104701	6	6	6	N2 Injector Tube Auxiliary Seal	Large
23511870	6	6	6	N2 Injector Tube Auxiliary Seal	Small
23538840		6	6	N3 Injector Tube - Threaded	Stainless
23533147		6	6	N3 Injector Tube Seal	
23534745		6	6	E3 Injector Tube - Threaded	Stainless
23534743		6	6	E3 Injector Tube Seal	
23536862		AR	AR	E3 Injector Tube Shim - .007"	
23536863		AR	AR	E3 Injector Tube Shim - .012"	1 notch
23536864		AR	AR	E3 Injector Tube Shim - .018"	2 notches
23538406	1	1	1	Gasket - Cylinder Head	
23530768	38	38	38	Cylinder Head Bolt	
8929328	38	38	38	Cylinder Head Bolt Washer	
P028710				Cylinder Head Bolt Kit	w/ Bolts and Washers
P028712	1	1	1	Cylinder Head Bolt Kit	
Note - * = items included in kit 23501580					

CYLINDER HEAD COMPONENTS (CONT.)

PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION	NOTE
8926993	AR	AR	AR	Plug	1/4" Square Socket
23511572	AR	AR	AR	Plug	1/2" Square Socket
8923916	AR	AR	AR	Plug	1/2" Square Socket
23511573	AR	AR	AR	Plug	3/4" Square Socket
8923313	AR	AR	AR	Plug	3/4" Square Socket
23511574	AR	AR	AR	Plug	1" Square Socket
9421745	AR	AR	AR	Plug - Cup	1/2"
5139991	AR	AR	AR	Plug - Cup	1 1/2"
5138638	7	7	7	Dowel	
8929129	7	7	7	Camshaft Journal Cap Bolt	
8929587	6	6	6	Camshaft Journal Cap Bolt	
8929588	2	2	2	Camshaft Journal Cap Stud	
23500708	2	2	2	Camshaft Journal Cap Nut	
8929586	8	8	8	Spacer - Rocker Shaft	
23521111	2	2	2	Seal - Rocker Shaft	
8929059	2	2	2	Rocker Arm Bushing - Valve	Narrow
8929536	2	2	2	Rocker Arm Bushing - Valve	Wide
5138643	30	30	30	Button - Valve Adjustment	≤MY 2000
23520818	12	12	12	Adjustment Screw Assembly	Intake
23537089	12	12	12	Adjustment Screw Assembly	Exhaust
23520820	6	6	6	Adjustment Screw Assembly	Injector
23514371	30	30	30	Adjustment Screw Nut	
23513939PR	6	6	6	Injector Pin & Roller Kit	
23538247PR	6	6	6	Exhaust Pin & Roller Kit	
23532937PR	6	6	6	Intake Pin & Roller Kit	



Always verify ESN for proper fitment.

FUEL PUMP

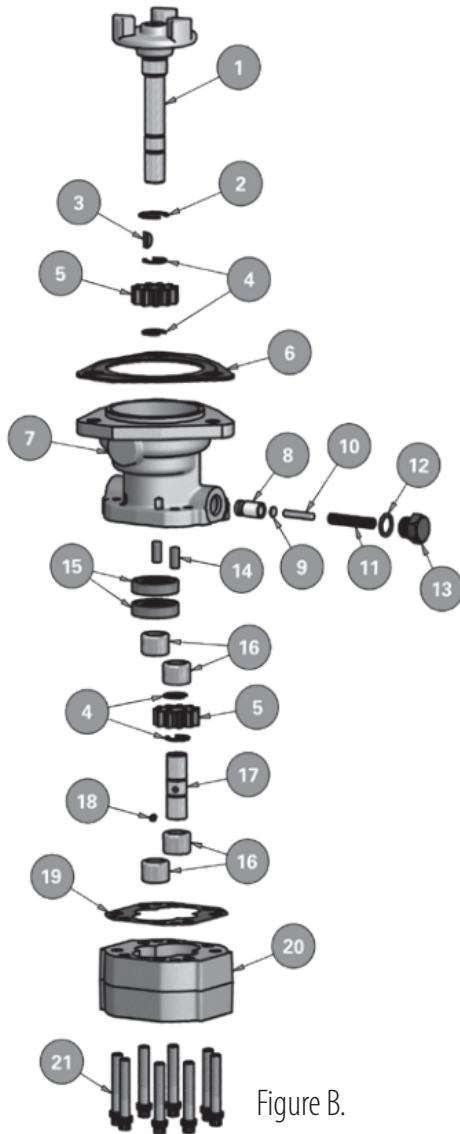


Figure B.

FIGURE B	PART #	DESCRIPTION	QTY REQ'D
1	23532977	Shaft & Hub Assembly	1
2	Not Available	Retainer Ring (Large)	1
3	4992018	Key	1
4	8923522	Snap Ring	4
5	23506546	Gear	2
6	23505248	Gasket, Body	1
7	4991793	Body, Pump	1
8	23506563	Kit - Check Valve	
9	8923528	Valve, Relief	1
10	23506560	Space	1
11	23506564	Pin	1
12	23506557	Spring, Relief Valve	1
13	23506556	Seal	1
13	23506555	Cap, Relief Valve	1
14	23500694	Alignment Pin	2
15	23512243	Oil Seal	2
16	8923526	Needle Bearing	4
17	23506549	Shaft, Driven	1
18	8923521	Pin, Gear	1
19	23516117	Gasket, Cover	1
20	4991794	Cover, Pump	1
21	23506551	Screw w/ Lock Washer	8

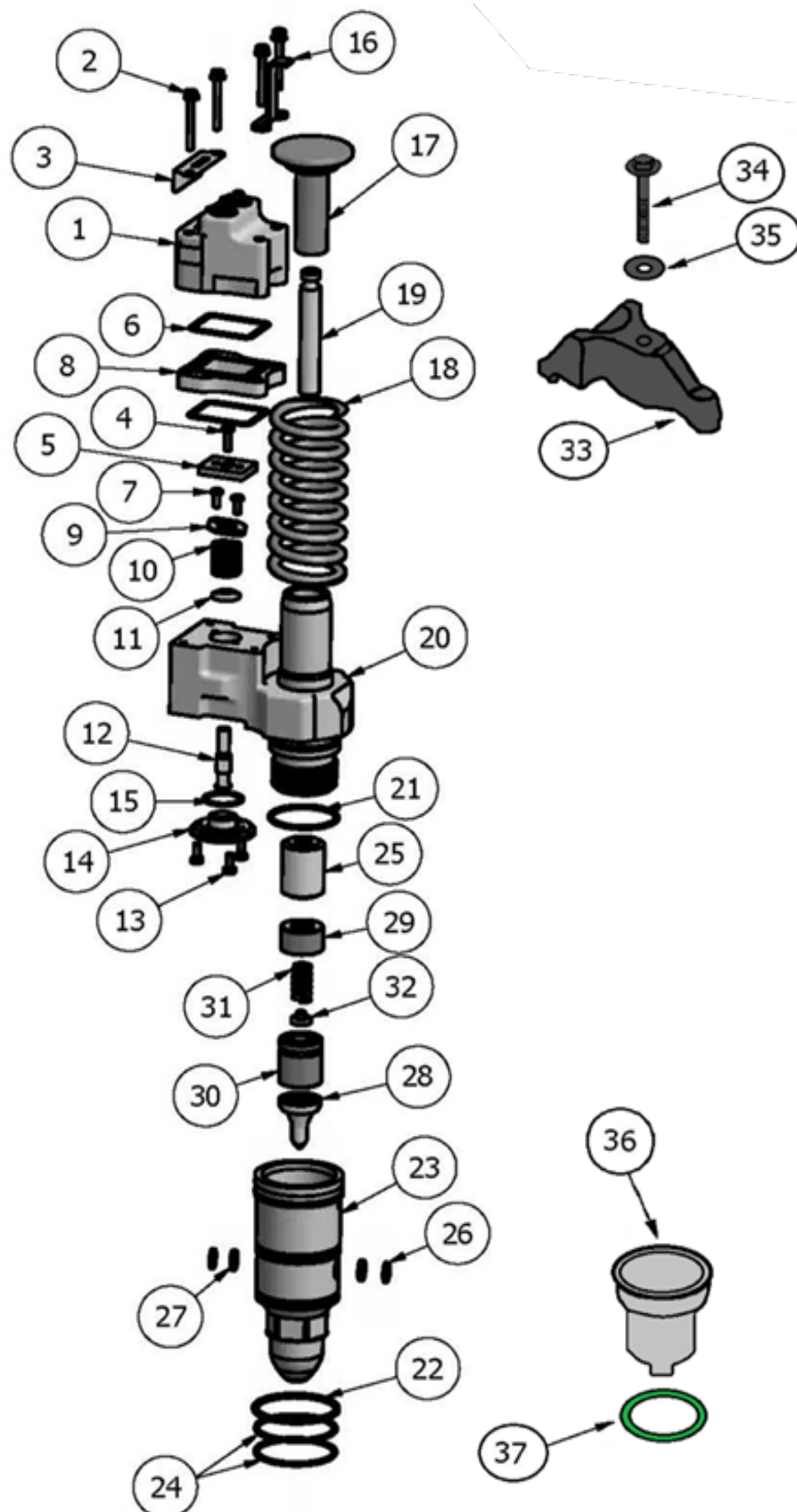
FUEL PUMP & COMPONENTS

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
5174971	1	1	1	Plug - Body	
23506553	1	1	1	Plug - Body	1/8"
8924380	1	1	1	Plug - Pipe	1/8" x 27"
8924517	1	1	1	Plug	3/8" Socket Head
3719219	4	4	4	Adapter Bolt Assembly	w/ Washer
8925603	AR	AR	AR	Bolt	5/16" x 18" x 3/4"
103319	4	4	4	Lock Washer	
147481	1	1	1	Steel Ball	1/8" Dia

FUEL PUMP & COMPONENTS (CONT.)

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23532981	1	1	1	Fuel Pump	Compressor Driven ref. 23517845
23537686RK	1	1	1	Repair Kit	Kits include - Bearings, Gaskets, Gear Pin, Retainers, Coupling, Oil Seals, Relief Spring
23517845RK	1	1	1	Repair Kit	
23517845RK-S	1	1	1	Repair Kit - w/ Shaft	
23517845RK-SG	1	1	1	Repair Kit - w/ Shaft & Gears	
5150193	1	1	1	Gasket - Mounting	Early Style
23533010	1	1	1	Seal Ring - Pump Drive to Front Cover	Square Cut
8929253	1	1	1	Seal Ring - Pump Drive to Front Cover	
23516118	1	1	1	Gasket - Cover	0.001 Thick
5107223	1	1	1	Seal - Cover	
9411502	1	1	1	Retaining Ring - Shaft	
5174975	1	1	1	Gear - Drive	0.249" wide - Std w/ Hole
5128217	1	1	1	Gear - Drive	3/8" wide - Hi Output w/ Hole
8923523	1	1	1	Key - Drive Gear	
103709	1	1	1	Pin - Drive Gear	5/32"
23516919	AR	AR	AR	Check Valve	Female #8 SST
23516918	AR	AR	AR	Check Valve	
23516993	AR	AR	AR	Check Valve	Female #6 SST
23535129	AR	AR	AR	Check Valve	M14x #6 male flare
23517723	AR	AR	AR	Check Valve	1/2" NPTF male #8 male flare
5184530	1	1	1	Spring - Relief Valve	
8929483	1	1	1	Shaft - Drive	w/o Gear
23506559	AR	AR	AR	Snap Ring - Drive Shaft	
23505249	1	1	1	Drive Coupling - Spider	Shock Coupling
5102257	1	1	1	Fork - Coupling	ref. 8921934
4991613	1	1	1	Gasket - Green	

Figure A.



FUEL INJECTOR COMPONENTS

Call Out #	PART #	DESCRIPTION	NOTE	QTY
1	4991685	Solenoid - w/o Groove	For reference only	1
2	5235586	Screw - Solenoid Assembly		4
3	4991452	Load Plate		1
4	4991454	Screw - Armature		1
5	4991453	Armature	For reference only	1
6	5234224	Seal - Solenoid Spacer		2
7	4991455	Screw - Control Valve Spring Retainer		2
8	4991456	Spacer - Solenoid	For reference only	1
9	4991457	Retainer - Spring		1
10	4991458	Spring - Control Valve		1
11	4991469	Seat - Control Valve Spring		1
12	4991459	Control Valve	Contact for sizes	1
13	4991470	Screw - Control Valve Stop	Hex Head	3
14	4991460	Valve Stop	Contact for sizes	1
15	4991539	O-ring - Internal	Small	1
16	4991450	Retainer - Follower	Old Style	1
	4991598		New Style	
17	4991444	Follower		1
18	4991597	Spring - Follower	New Style	1
19	4991446	Plunger		1
20	4991471	Body Assembly		1
21	5234701	O-ring - Internal		1
22	A-5234702	O-ring - External - Injector Mounting	Upper	1
	4992288*		Upper - E3	
	4991720*		Upper - N3	
23	4991636	Nut Assembly	Filters Installed	1
24	A-5234699	O-ring - External - Injector Mounting	Lower	2
	4992289*		Lower - E3	1
	4991721*		Lower - N3	1
	4991722*			1
25	4991462	Spacer		1
26	4991448	Retainer - Filter		2
27	4991449	Retainer - Filter		2
28	See Chart	Spary Tip		1
29	4991463	Cage - Check Valve		1
30	4991465	Cage - Valve Spring		1
31	4991464	Valve Spring		1
32	4991466	Valve Spring Seat	STD	1
	4991466-2		Under Sized	AR
33	A-8929088	Clamp - Injector Hold Down	for reference only	1
34	A-8929393	Bolt - Injector Hold Down	Hex Head	1
35	A-23535699	Washer - Injector Hold Down		1

Note: * = Not Shown in Figure A

FUEL INJECTOR COMPONENTS (CONT.)

PART #	DESCRIPTION	NOTE	QTY
5234702	O-ring - External - Injector Mounting	Upper	1
4992288		Upper - E3	
4991720		Upper - N3	
4991636	Nut Assembly	Filters Installed	2
5234699	O-ring - External - Injector Mounting	Upper	1
4992289		Upper - E3	2
4991721		Upper - N3	1
4991722			1
4991462	Spacer		1
4991448	Retainer - Filter		2
4991449	Retainer - Filter		2
4991463	Cage - Check Valve		1
4991465	Cage - Valve Spring		1
4991464	Valve Spring		1
4991466	Valve Spring Seat	STD	1
4991466-2		Under Sized	AR
8929088	Clamp - Injector Hold Down	for reference only	1
8929393	Bolt - Injector Hold Down	Hex Head	1
23535699	Washer - Injector Hold Down		1
8929075	Injector Hole Tube	N2	1
23538840		N3 - Threaded - Stainless	
23534745		E3 - Threaded - Stainless	
23515470	Seal - Injector Tube	N2	1
23533147		N3	
23534743		E3	
5104701	Seal - Injector Auxiliary	N2	1
23511870	Seal - Injector Auxiliary	N2 - Nose	



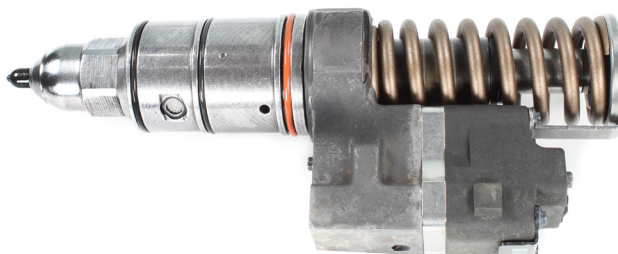
ELECTRONIC FUEL INJECTOR & COMPONENTS KITS

PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION
P028720	6	6	6	Installation Kit DDEC II-IV
23537111		6	6	Installation Kit DDEC V (N3)
23537123		6	6	Installation Kit DDEC V (E3)
P028704	6	6	6	Internal O-ring Kit
P028705	25	25	25	
P269421	6	6	6	Internal O-ring Expansion Kit
5234699K	6	6	6	Complete O-ring Kit
5230001	6	6	6	Injector Repair Kit, 21B, 22, 24 (2), 31, 32, 37B
5230001-25	25	25	25	
P028706	6	6	6	Nut Assembly O-ring Kit
P028707	25	25	25	
5236116	6	6	6	Solenoid Seal & Screw Kit
23528939	6	6	6	Follower Spring & Retainer Kit



REBUILT INJECTORS

PART #	DESCRIPTION	CORE CODE	SPRAY TIP	HOLES
5234785	Fuel Injector - Remanufactured	C-S60DDEC1	4991753-C2A	9
5234795	Fuel Injector - Remanufactured	C-S60DDEC2	4991754-D5	9
5234865	Fuel Injector - Remanufactured	C-S60DDEC2	4991753-C1A	9
5234870	Fuel Injector - Remanufactured	C-S60DDEC2	4991753-C2	9
5234935	Fuel Injector - Remanufactured	C-S60DDEC2	4991753-C1	9
5234940	Fuel Injector - Remanufactured	C-S60DDEC2	4991753-C3	9
5234945	Fuel Injector - Remanufactured	C-S60DDEC2	4991754-D4	9
5234970	Fuel Injector - Remanufactured	C-S60DDEC2	4991754-D3	9
5235550	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B3	8
5235575	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B5	8
5235580	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991751-A1	8
5235600	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991754-D2	9
5235605	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991753-C1	9
5235695	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991754-D3	9
5235915	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B6	8
5236347	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B4	8
5236977	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B3	8
5236978	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991751-A1	8
5236980	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B4	8
5236981	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B1	8
5236995	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991754-D2	9
5237014	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991754-D2	9
5237042	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991751-A2	8
5237045	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B4	8
5237099	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B2	8
5237315	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991748-E3	9
5237320	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991754-D2	9
5237466	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991752-B5	8
5237473	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991748-E5	9
5237635	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991753-C2	9
5237650	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991754-D1	9
5237787	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991753-C1	9
5237820	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991753-C1A	9
5237821	Fuel Injector - Remanufactured	C-S60DDEC3/4	4991753-C1A	9



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EXHAUST SYSTEM

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23512896	1	1		Exhaust Manifold Kit - Non-EGR	High mount - flat center section
23512897	1	1	1	Exhaust Manifold Kit - Non-EGR	High mount - setback center section
23516107	1	1		Exhaust Manifold Kit - Non-EGR	Medium mount - offset center section
23511666	3	3	3	Gasket - Exhaust Manifold	ref - 23533983
8929357	AR	AR	AR	Bolt - Manifold Mounting	
11506101	AR	AR	AR	Nut - Manifold Mounting	
8929529	1	1	1	Gasket - Turbo Mounting	
23535457	1	1	1	Gasket - Turbo Exhaust Inlet	
23535477	1	1	1	Gasket - Turbo Exhaust Outlet	
8929285	1	1	1	Gasket - Turbo Oil Drain	
23508408	1	1	1	Seal -Turbo Compressor Outlet Elbow	
23507438	4	4	4	Stud - Turbo Mounting	M10 1.5 x 44
8929425	4	4	4	Stud - Turbo Mounting	M10 1.5 x 50
11506101	4	4	4	Nut - Turbo Mounting	
8929169	4	4	4	Washer - Turbo Mounting	
23505398	AR	AR	AR	Lock Nut - Turbo Spacer Plate	
5186840	2	2	2	Clamp -Turbo Water Return Hose	
23505789	1	1	1	Clamp - V-Band	w/ Nut
5139988	1	1	1	Plug - Cup	
23533534		1	1	Gasket - EGR Valve	3 Bolt
23535506		1	1	Seal Ring - EGR Valve	Square
23535507		1	1	Seal Ring - EGR Mixer	Square
23517875	3	3	3	Gasket - Intake Manifold	ref - 23533983
23531110			3	Gasket - Intake Manifold	EGR engines
8922327	2	2	2	Plug	1/4" Square Socket Head
8923847	1	1	1	Plug	1/4" Square Socket Head
8924517	1	1	1	Plug	3/8" Square Socket Head
8923916	1	1	1	Plug	1/2" Square Socket Head
23511572	1	1	1	Plug	1/2" Square Socket Head
89293313	1	1	1	Plug	3/4" Square Socket Head
23511574	1	1	1	Plug	1" Square Socket Head

TURBOCHARGER

REF PART NUMBER	HHP PART NUMBER	APPLICATION	MODEL
23508405	23508405	11.1L	TV405
23508410	23508410	12.7L	TMF5102
23515635	23515635M	12.7L	TMF55
23518588	23518588M	12.7L	TMF55
23518688	23518588M	12.7L	TMF55
23522188	23528065M	12.7L	GT4294
23522190	23528065M	12.7L	GT4202
23522190M	23528065M	12.7L	GT4202
23522306	23528065M	12.7L	GT4294S
23522312M	23528065M	12.7L	GT4202
23525464	23528065M	12.7L	GT42
23526272	23528065M	12.7L	GT4294
23526272M	23528065M	12.7L	GT4294
23526679	23528065M	12.7L	GT4294
23526679M	23528065M	12.7L	GT4294
23526680	23528065M	12.7L	GT4294D
23526681	23528065M	12.7L	GT4294S
23526682	23528065M	12.7L	GT4294S
23526683	23528065M	12.7L	GT4294D
23526684	23528065M	12.7L	GT4294D
23526685	23528065M	12.7L	GT4294S
23526692	23528065M	12.7L	GT4294
23528052	23528065M	12.7L	GT4294
23528052M	23528065M	12.7L	GT4294
23528053	23528065M	12.7L	GT35/42
23528054	23528065M	12.7L	GT4294
23528055	23528065M	12.7L	GT4294
23528056	23528065M	12.7L	GT4294
23528057	23528065M	12.7L	GT4294BDN
23528058	23528065M	12.7L	GT4294BNS
23528060	23528065M	12.7L	GTA4202BDN
23528062	23528065M	12.7L	GTA4202BNS
23528062M	23528065M	12.7L	GTA4202BNS
23528063	23528065M	12.7L	GTA4202BDN
23528064	23528065M	12.7L	GT4202S
23528064M	23528065M	12.7L	GT4202S
23528065	23528065M	12.7L	GT4294
23528066	23528065M	12.7L	GT4294
23528069	23528065M	12.7L	GT4294
23528069M	23528065M	12.7L	GT4294
23528089	23528065M	12.7L	GT4294
23528512	23528065M	12.7L	GTA4202BDN
23529103	23528065M	12.7L	GT35/42
23534361	A-23534361	14L	GT45
23536348	23536348M	14L	GT47

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LUBRICATION SYSTEM

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23505886	1	1	1	Oil Pump Assembly	Option type #232
23527448	1	1	1	Oil Pump Assembly	For option type #195
5127978	AR	AR	AR	Bushing - Oil Pump	
23505992	1	1	1	Gasket - Oil Inlet Pipe	
8929344	2	2	2	Gasket - Oil Inlet/Outlet	
23505891	1	1	1	O-ring - Oil Outlet Pipe	Front
23505892	1	1	1	O-ring - Oil Outlet Pipe	Rear
8929347	1	1	1	Gasket - Oil Outlet	to Cylinder Block
5103646	1	1	1	Seal Ring - Breather	
8929393	2	2	2	Bolt - Oil Pump Mount	Short
23505062	2	2	2	Bolt - Oil Pump Mount	Long
23522416	1	1		Oil Cooler Core - 10-plate	MY 1991 & up*
23522415		1	1	Oil Cooler Core - 11-plate	
P025881	1	1	1	Kit - Oil Cooler Installation*	
23506247	1	1	1	Gasket - Oil Cooler Housing	
23508392	2	2	2	Seal Ring - Core to Filter Head	
8929289	1	1	1	Seal Ring - Housing Neck to Cylinder Block	
23505902	1	1	1	Seal Ring - Bypass	
23508392	1	1	1	Seal Ring - Filter Housing to Cylinder Block	
8929348	1	1	1	Gasket - Oil Cooler Core Housing	Prior to MY 1991
23506247	1	1	1	Gasket - Oil Cooler Core Housing	MY 1991 & up
8922327	1	1	1	Plug - Oil Cooler Cover	1/4" - Square Socket
8923313	2	2	2	Plug - Oil Cooler Cover	3/4" - Square Socket
23511573	4	4	4	Plug - Oil Cooler Cover	3/4" - Square Socket
23511574	1	1	1	Plug - Oil Cooler Cover Drain	1" - Square Socket
8929280	1	1	1	Seal Ring - Coolant Return	
8922740	2	2	2	Valve - Regulator & Relief	
5126327	2	2	2	Valve Spring	Regulator and Relief Valve
5117269	1	1	1	Gasket - Oil Pressure Regulator	
8929340	1	1	1	Seal - Oil Filter Bypass	
8929341	1	1	1	Seal - Oil Filter	
8929342	1	1	1	Seal - Oil Filter Adapter	

Note - * = denotes items included in kit

LUBRICATION SYSTEM (CONT.)

PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION	NOTE
23532850	1	1	1	Seal - Oil Filter Adapter Bypass	MY 1991 & up ref -23532850
23513919	AR	AR	AR	Seal - Oil Filter Cover	Ref - 23536199
23514465	1	1	1	Seal - Dipstick	
5117362	1	1	1	Cap - Oil Filler	
8929302	1	1	1	Gasket - Oil Filler Tube	4 Hole
103321	1	1	1	Lock Washer - Oil Filler Tube Bracket	
8929102	1	1	1	Seal - Oil Pan**	Up to April 1999
23517243	10	10	10	Spacer	
23517242	10	10	10	Isolator	
11504571	10	10	10	Bolt	
23522282	1	1	1	Oil Pan Assembly - Front Sump	April 1999 & up
23522279	1	1	1	Seal - Oil Pan***	
23522281	10	10	10	Isolator Bolt Assembly	Bolt, Isolator & Spacer
23511574	1	1	1	Plug - Oil Pan Drain	1" Square Socker Head
23505720	1	1	1	Plug - Oil Pan Drain	3/4" Square Socker Head
23530682	1	1	1	O-ring - Oil Pan Drain	
Note - ** = requires separate Spacer/Isolator/Bolt					
*** = requires one piece Isolator Bolt Assembly					



COOLING SYSTEM

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23522707	1	1		Water Pump Assembly	6R37023 - 6R579833
23520377	1	1		Seal Ring - Mounting	Square Cut
23526039	1	1	1	Water Pump Assembly	6R579834 & up Non-EGR
23526038	1	1	1	Seal - Mounting O-ring	
23535017	1	1	1	Water Pump Assembly	EGR - Vertical Inlet
23527272	1	1	1	Seal - Mounting O-ring	
23538636			1	Water Pump Assembly	EGR - Side Inlet
23527272			1	Seal - Mounting O-ring	
23532543			1	Water Pump Assembly	EGR - Horizontal neck
23527272			1	Seal - Mounting O-ring	
23535018		1	1	Water Pump Assembly	EGR - Horizontal Inlet
23527272		1	1	Seal - Mounting O-ring	
8929158		1	1	Seal - Mounting O-ring	Early front mount
23529962	1	1	1	Kit - Water Pump Reconditioning	*denotes items in kit
23512048	1	1	1	Seal Ring - Water Pump Cover	*
23522433	1	1	1	Water Seal Assembly	*
23528190	1	1	1	Oil Seal	*
8929422	1	1	1	Bearing Assembly	*
8929427	1	1	1	Bearing Retainer Ring	*
23529962NB	1	1	1	Kit - Water Pump Reconditioning	w/o Bearings
23538693	1	1	1	Kit - Water Pump Cover Replacement	Steel Cover, Snap Ring & O-ring Seal
23538538	1	1	1	Cover - Water Pump	Steel
8922383	1	1	1	Cover - Water Pump	Non-metallic
8922407	1	1	1	Retainer Ring - Cover	
8929510	1	1	1	Seal Ring - Water Pump Cover	
23527385	1	1	1	Seal Ring - Water Pump	Elbow to Water Pump
23517973	1	1	1	Impeller	6-vane C.I.
8929512	1	1	1	Impeller	Type #263 & 270 Pumps ONLY
23507073	1	1	1	Gasket	
23505896	1	1	1	Pump Shaft	
23505910	1	1	1	Gear	
9428477	AR	AR	AR	Plug - Cup	15/16"
23505998	1	1	1	Impeller - Fresh Water Pump	Hi-Cap Body
23507913	1	1	1	Impeller - Fresh Water Pump	After 12/90
8515850	1	1	1	Electrode - Raw Water Pump	

Always verify ESN for proper fitment.

COOLING SYSTEM (CONT.)

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
5101160	1	1	1	Seal Ring - Fresh Water Pump Cover	
23522434	1	1	1	Seal - Fresh Water Pump Coolant	
8927581	2	2	2	Bolt - Raw Water Pump Tube	
A5180370	1	1	1	Washer	Copper
103321	4	4	4	Lock Washer - Raw Water Inlet Mount	
103325	1	1	1	Lock Washer - Raw Water Pump Mount	
8924380	1	1	1	Plug	1/8" Square Socket Head
8922327	1	1	1	Plug	1/4" Square Socket Head
23511572	1	1	1	Plug	1/2" Square Socket Head
8923916	1	1	1	Plug	1/2" Square Socket Head
23503827		2		Thermostat	160°
23503825		2	2	Thermostat	180°
23533492		2	2	Kit - Thermostat 185°	Qty 1 ea. Thermostat & Seal
23533312		2	2	Thermostat	185°
23532436	2	2	2	Kit - Thermostat 190°	Qty 1 ea. Thermostat & Seal
8929878	2	2	2	Thermostat	190°
5132155	2	2	2	Seal - Thermostat	
8924517	2	2	2	Plug	3/8" Square Socket Head
23511572	2	2	2	Plug	1/2" Square Socket Head
23511573	2	2	2	Plug	3/4" Square Socket Head
8923313	2	2	2	Plug	3/4" Square Socket Head
8929875	2	2	2	Hose - Water Bypass	1.75" x 3.25"
23505048	4	4	4	Clamp - Water Bypass	
23506325	2	2	2	Hose - Pump to Cooler Housing	2.75" x 3.01"
8929213	1	1	1	Seal - Oil - Fan Spindle	
8929820	1	1	1	Bearing - Roller - Fan Spindle	
5103951	1	1	1	Seal - Fan Shaft	
23503704	1	1	1	Bearing - Ball	Single Row
5131978	AR	AR	AR	Washer	General Usage

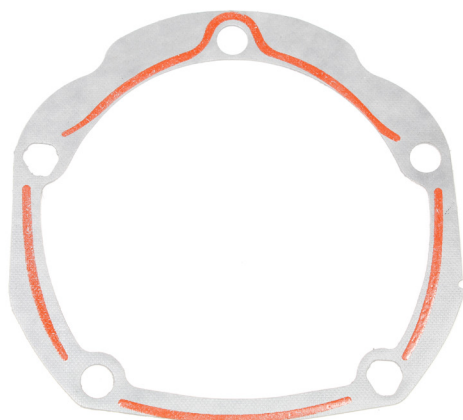
FLYWHEEL & VIBRATION DAMPER

PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION	NOTE
23507442	1	1	1	Flywheel Assembly - 15"	Flat type - 8" Plate
23509709	1	1	1	Flywheel Assembly - 15"	Flat type - 10" Plate
8929795	12	12	12	Bolt - Flywheel Mounting	9/16"-18 x 3/4" (short)
9410925	12	12	12	Bolt - Flywheel Mounting	9/16"-18 x 2 1/4" (long)
9412015	12	12	12	Bolt - Flywheel Mounting	9/16"-18 x 2 1/2" (special)
23503707	1	1	1	Bearing - Clutch Pilot	Ball type - Single Row
23522643	1	1	1	Housing - Flywheel	Aluminum - 14mm
23511574	1	1	1	Plug	1" Square Socket Head
P205299	1	1	1	Gasket Set - Front Cover	
8929130	2	2	2	Gasket - Camshaft Access Cover	
23528491	1	1	1	Seal Ring - Camshaft Thrust Plate	Ref - 8929318
23527416	1	1	1	Seal Ring - Camshaft Thrust Plate	EGR units
23521935	1	1	1	Seal Ring - Camshaft Thrust Plate	Plate to Cylinder Head
23521894	1	1	1	Seal Ring - Camshaft Thrust Plate	Plate to Cylinder Head
23522975	1	1	1	Seal Ring - Camshaft Cap - Front	
23516871	1	1	1	Seal - Oil - Balance Weight Cover	
8929740	1	1	1	Seal Ring - Gear Case	
5141452	1	1	1	Seal Ring - Gear Case Cover	
5155596	1	1	1	Washer - Front Cover Copper Special	Copper
23525990	1	1	1	Damper 13.5"	April 1993 & up ref - 8929502
8929222	6	6	6	Bolt - Vibration Damper Mount	
5133981	6	6	6	Washer - Vibration Damper Mount	



ACCESSORY DRIVE & AIR COMPRESSOR

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23509203	1	1	1	Bearing - Ball - Accessory Drive	
23518178	1	1	1	Bearing - Ball - Alternate Drive	Heat Stabilizer
8929024	1	1	1	Bearing - Accessory Drive Shaft	
8929062	1	1	1	Ring - Lock - Accessory Drive	
8929216	1	1	1	Ring - Retaining - Accessory Drive	
8929154	1	1	1	Seal - Oil - Accessory Drive Shaft	
23511747	1	1	1	Seal - Oil - Accessory Drive Shaft	Heavy Duty
23527826	1	1	1	Gasket - Accessory Drive Gear Cover	
8929253	1	1	1	Seal Ring - Drive to Front Cover	
8929820	1	1		Bearing - Roller - Air Compressor	
5141773	1	1		Coupling - Compressor to Drive	≤ MY1994
23527273	1	1	1	Seal Ring - Air Compressor Oil Supply	
23527273	1	1	1	Seal Ring - Air Compressor to Cyl Block	
23515145	1	1		Gasket - Compressor to Drive	≤ MY1994
8929299	1	1		Gasket - A/C or Drive to Gear Case	
5110410	1	1	1	Gasket - Air Strainer Mounting	
103320	AR	AR	AR	Lock Washer - Air Compressor Mounting	
179816	AR	AR	AR	Bolt - Air Compressor Booster Tube	Hex - 5/16"-18 x 3/4"
8924380	1	1	1	Plug	1/8" Square Socket Head
8922327	1	1	1	Plug	1/4" Square Socket Head
8923847	1	1	1	Plug	1/4" Square Socket Head
8923916	1	1	1	Plug	1/2" Square Socket Head
23511572	1	1	1	Plug	1/2" Square Socket Head
23511573	1	1	1	Plug	3/4" Square Socket Head
5186840	2	2	2	Clamp - Hose	1/2"



ENGINE SENSORS

PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION	NOTE
8929387	1	1	1	Sensor - Position	SRS
8929388	1	1	1	Sensor - Position	TRS
23527338			1	Sensor - Position	SRS - DDEC V
23527339			1	Sensor - Position	TRS - DDEC V
23522322		1	1	Sensor - Pressure	Turbocharger
23532797	1	1	1	Sensor - Pressure	Engine Oil
23531531	1	1	1	Sensor - Speed	Turbocharger
23514708	1	1	1	Sensor - Temperature	Coolant
23515251		1	1	Sensor - Temperature	Engine Oil
23518092	1	1	1	Sensor - Temperature	Multi-System
8928652	AR	AR	AR	Seal Ring	
8923847	AR	AR	AR	Plug	1/4" Square Socket Head
5182977	1	1	1	Seal - Boost Sensor	
23512307	8	8	8	Isolator - ECM Mounting	

GASKETS & SEALS

PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION	NOTE
23527826	1	1	1	Accessory Drive Gear Cover Gasket	
8929253	1	1	1	Accessory Drive Seal Ring - Drive to Front Cover	
23511747	1	1	1	Accessory Drive Shaft Oil Seal	Heavy Duty
8929154	1	1	1	Accessory Drive Shaft Oil Seal	
5110410	1	1	1	Air Compressor Air Strainer Mounting Gasket	
8929299	1	1		Air Compressor Gasket - Drive to Gear Case	
23527273	1	1	1	Air Compressor Oil Supply Seal Ring	
23527273	1	1	1	Air Compressor to Cyl Block Seal Ring	
23515145	1	1		Air Compressor to Drive Gasket	≤ MY1994
23516871	1	1	1	Balance Weight Cover Oil Seal	
8929130	2	2	2	Camshaft Access Cover Gasket	
23522975	1	1	1	Camshaft Cap Seal Ring - Front	Racetrack style
23521894	1	1	1	Camshaft Thrust Plate Seal Ring	3 Bolt - Plate to Cylinder Head
23521935	1	1	1	Camshaft Thrust Plate Seal Ring	2 Bolt - Plate to Cylinder Head
23527416	1	1	1	Camshaft Thrust Plate Seal Ring	Perimeter EGR units

GASKETS & SEALS (CONT.)

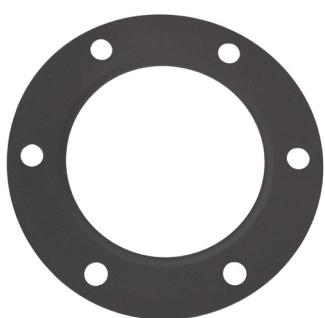
PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION	NOTE
23528491	1	1	1	Camshaft Thrust Plate Seal Ring	Perimeter ref - 8929318
23518355	1	1	1	Crankshaft Front Seal Assembly	Unitized Seal & Wear Sleeve
23501544	1	1	1	Crankshaft Rear Seal - OS	w/o Wear Sleeve
23513578	1	1	1	Crankshaft Rear Seal Assembly	Wet Housing
23519651	1	1	1	Crankshaft Rear Seal Assembly	Unitized Seal & Wear Sleeve
23516969	1	1	1	Crankshaft Rear Seal Assembly - OS	
23538406	1	1	1	Cylinder Head Gasket	
8929013	6	6	6	Cylinder Liner Seal - Crevice	
8929176	12	12	12	Cylinder Liner Seal - D-ring	
23514465	1	1	1	Dipstick Seal	
23533534		1	1	EGR Valve Gasket	3 Bolt
23535506		1	1	EGR Valve Seal Ring	Square
23535507		1	1	EGR Valve Seal Ring	Square
23511666	3	3	3	Exhaust Manifold Gasket	ref - 23533983
5103951	1	1	1	Fan Shaft Seal	
8929213	1	1	1	Fan Spindle Oil Seal	
23524657	1	1	1	Fuel Filter O-ring Seal	Water Separator
23511870	AR	AR	AR	Fuel Injector Lower Aux O-ring - Internal	Small
5234702	AR	AR	AR	Fuel Injector Mounting O-ring - External	Upper
5234699	AR	AR	AR	Fuel Injector Mounting O-ring - External	Lower
4991720		6	6	Fuel Injector O-ring	Blue - N3
4991721		6	6	Fuel Injector O-ring	Purple - N3
4991539	AR	AR	AR	Fuel Injector O-ring - Internal	Small
4991722		6	6	Fuel Injector O-ring Washer	Grey - N3
4992288		6	6	Fuel Injector Seal Ring	E3
4992289		6	6	Fuel Injector Seal Ring	E3
5234224	AR	AR	AR	Fuel Injector Solenoid Spacer Seal	
5234701	AR	AR	AR	Fuel Injector Upper Aux O-ring - Internal	Large
23516118	1	1	1	Fuel Pump Cover Gasket	0.001 Thick
23516117	1	1	1	Fuel Pump Cover Gasket - OS	0.0015 Thick
5107223	1	1	1	Fuel Pump Cover Seal	
23533010	1	1	1	Fuel Pump Drive Seal Ring - Pump Drive to Front Cover	Square Cut
8929253	1	1	1	Fuel Pump Drive Seal Ring - Pump Drive to Front Cover	
23505248	1			Fuel Pump Mounting Gasket - Pump to Air Compressor	Late style
5150193	1			Fuel Pump Mounting Gasket - Pump to Drive	Early style
23512243	2	2	2	Fuel Pump Oil Seal	
5161003	1	1	1	Fuel Pump Valve Plug Seal	
5141452	1	1	1	Gear Case Cover Seal Ring	

GASKETS & SEALS (CONT.)

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
8929740	1	1	1	Gear Case Seal Ring	
5234699	12	12	12	Injector Mounting O-ring Seal	Lower
5234702	6	6	6	Injector Mounting O-ring Seal	Upper
23511870	6	6	6	Injector Tube Auxiliary Seal - N2	Small
5104701	6	6	6	Injector Tube Auxiliary Seal - N2	Large
23534743		6	6	Injector Tube Seal - E3	
23515470	6	6	6	Injector Tube Seal - N2	
23533147		6	6	Injector Tube Seal - N3	
23517875	3	3	3	Intake Manifold Gasket	ref - 23533983
23531110			3	Intake Manifold Gasket	14L EGR engines
23505902	1	1	1	Oil Cooler Bypass Seal Ring	
8929280	1	1	1	Oil Cooler Coolant Return Seal Ring	
23508392	1	1	1	Oil Cooler Core Filter Housing to Cylinder Block Seal Ring	
23506247	1	1	1	Oil Cooler Core Housing Gasket	MY 1991 & up
8929348	1	1	1	Oil Cooler Core Housing Gasket	Prior to MY 1991
23508392	2	2	2	Oil Cooler Core to Filter Head Seal Ring	
8929289	1	1	1	Oil Cooler Housing Seal Ring - Neck to Cyl Block	
8929302	1	1	1	Oil Filler Tube Gasket	4 hole
23532850	1	1	1	Oil Filter Adapter Bypass Seal	MY 1991 & up ref - 23532850
8929342	1	1	1	Oil Filter Adapter Seal	
8929340	1	1	1	Oil Filter Bypass Seal	
23513919	AR	AR	AR	Oil Filter Cover Seal	ref - 23536199
8929341	1	1	1	Oil Filter Seal	
23530682	1	1	1	Oil Pan Drain O-ring	
23522279	1	1	1	Oil Pan Seal	use w/one piece Isolator Bolt Assemblies
8929102	1	1	1	Oil Pan Seal	up to April 1999
5117269	1	1	1	Oil Pressure Regulator Gasket	
5103646	1	1	1	Oil Pump Breather Seal Ring	
23505992	1	1	1	Oil Pump Inlet Pipe Gasket	
23511656				Oil Pump Inlet Pipe Gasket	
8929344	2	2	2	Oil Pump Inlet/Outlet Gasket	
8929347	1	1	1	Oil Pump Outlet Gasket	to Cylinder Block
23505891	1	1	1	Oil Pump Outlet Pipe O-ring	Front
23505892	1	1	1	Oil Pump Outlet Pipe O-ring	Rear
23516100	1	1	1	Power Steering Pump Gasket	
23506556	1	1	1	Relief Valve Seal Ring	
23516322	1	1	1	Rocker Cover Gasket - Cover to Cylinder Head	≤ 6/1999 MY 4-Bolt Grey

GASKETS & SEALS (CONT.)

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23522269	1	1	1	Rocker Cover Gasket - Cover to Cylinder Head	MY 6/1999 & up - 10-bolt Black
23511991	1	1	1	Rocker Cover Gasket - Intermediate to Lower	MY 6/1999 & up
8929803	1	1	1	Rocker Cover Gasket - Intermediate to Lower	≤ 6/1999 MY
23516322	1	1	1	Rocker Cover Gasket - Lower to Cylinder Head	≤ 6/1999 MY Grey
8929803	1	1	1	Rocker Cover Gasket - Upper to Lower	≤ 6/1999 MY
23506153	1	1	1	Rocker Cover Gasket - Upper to Intermediate	≤ 6/1999 MY
23511992	1	1	1	Rocker Cover Gasket - Upper to Intermediate	MY 6/1999 & up
23521111	2	2	2	Rocker Shaft Seal	
5182977	1	1	1	Sensor Seal - Boost	
8928652	AR	AR	AR	Sensor Seal Ring	
5132155	2	2	2	Thermostat Seal	
23508408	1	1	1	Turbo Compressor Outlet Elbow Seal	
23535457	1	1	1	Turbo Exhaust Inlet Gasket	
23535477	1	1	1	Turbo Exhaust Outlet Gasket	
8929529	1	1	1	Turbo Mounting Gasket	
8929285	1	1	1	Turbo Oil Drain Gasket	
23522434	1	1	1	Water Pump Coolant Seal	Unitized
23512048	1	1	1	Water Pump Cover Seal Ring	
5101160	1	1	1	Water Pump Cover Seal Ring	
8929510	1	1	1	Water Pump Cover Seal Ring	
23527385	1	1	1	Water Pump Elbow Seal Ring	Elbow to Water Pump
23507073	1	1	1	Water Pump Gasket	
23526038	1	1	1	Water Pump Mounting O-ring Seal	
23527272	1	1	1	Water Pump Mounting O-ring Seal	
8929158	1	1	1	Water Pump Mounting O-ring Seal	
23520377	1	1		Water Pump Mounting Seal Ring	Square Cut
23528190	1	1	1	Water Pump Oil Seal	
8929134	1	1	1	Water Pump Seal - Lip Type	
23522433	1	1	1	Water Pump Water Seal Assembly	



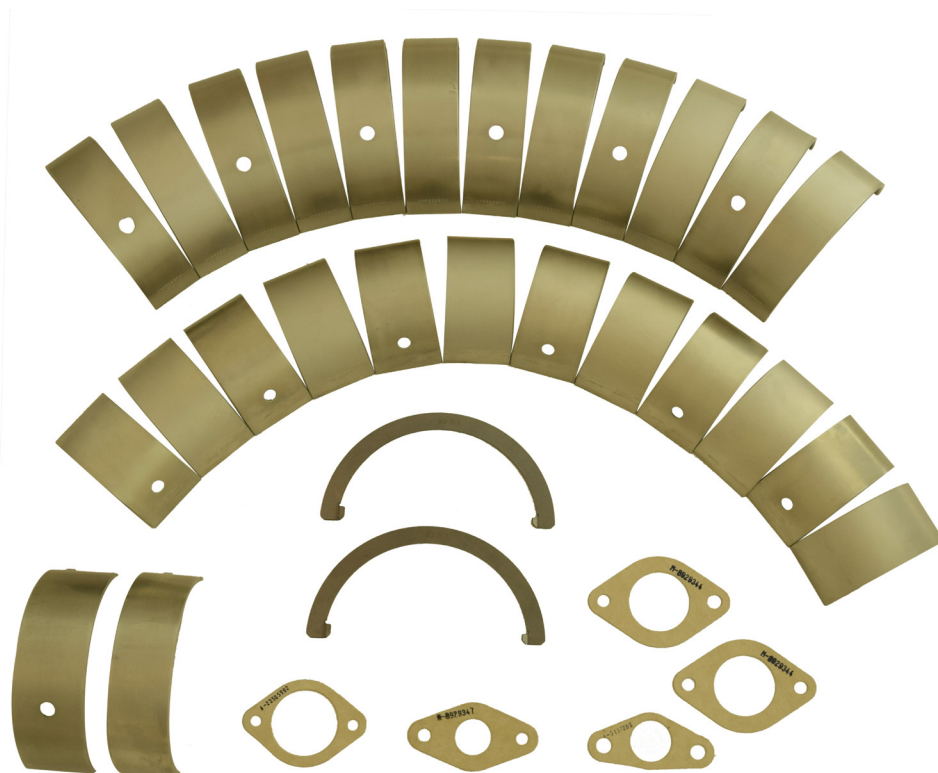
GASKETS SETS & KITS

PART #	S60 11 .1L	S60 12 .7L	S60 14L	DESCRIPTION	NOTE
P028712	1	1	1	Cylinder Head Bolt Kit	includes Bolts & Washers
23532333	1	1	1	Cylinder Head Gasket Set	use only w/ NEW style bolts
23538506			1	Cylinder Head Gasket Set - MY2007	
23536442		1	1	Cylinder Head Gasket Set - EGR	
23531502KT	6	6	6	Cylinder Liner Seal Kit	Contains Crevice Seal & D Ring
23512896	1	1		Exhaust Manifold Kit - Non-EGR	High mount flat center section
23512897	1	1	1	Exhaust Manifold Kit - Non-EGR	High mount setback center section
23516107	1	1		Exhaust Manifold Kit - Non-EGR	Medium mount offset center section
P205299	1	1	1	Front Cover Gasket Set	
P016451	1	1	1	Front Cover O-ring Kit	
5234699K	1	1	1	Fuel Injector Complete O-ring Kit	
23528939	1	1	1	Fuel Injector Follower Spring & Retainer Kit	
P028720	6	6	6	Fuel Injector Installation Kit	DDEC II-IV
23537111		6	6	Fuel Injector Installation Kit	DDEC V (N3)
23537123		6	6	Fuel Injector Installation Kit	DDEC V (E3)
P028704	1	1	1	Fuel Injector Internal O-ring Kit	
P028705	25	25	25	Fuel Injector Internal O-ring Kit - Bulk	
P028706	1	1	1	Fuel Injector Nut Assembly O-ring Kit	
P028707	25	25	25	Fuel Injector Nut Assembly O-ring Kit - Bulk	
5230001	1	1	1	Fuel Injector Repair Kit	
5230001-25	25	25	25	Fuel Injector Repair Kit - Bulk	
5236116	1	1	1	Fuel Injector Solenoid Seal & Screw Kit	
23506563	AR	AR	AR	Fuel Pump Check Valve Kit	
23517845RK	1	1	1	Fuel Pump Repair Kit	
23537686RK	1	1	1	Fuel Pump Repair Kit	
23517845RK-S	1	1	1	Fuel Pump Repair Kit - w/ Shaft	
23517845RK-SG	1	1	1	Fuel Pump Repair Kit - w/ Shaft & Gears	
23537123		6	6	Injector Installation Kit - DDEC V (E3)	Seals, Bolt & Washer
P028720	6	6	6	Injector Installation Kit - DDEC II-IV	
23537111		6	6	Injector Installation Kit - DDEC V (N3)	Seals, Gasket, Bolt & Washer
23501580	6	6	6	Injector Tube Kit - N2	includes Seal A-23515470
23531604	1	1		Lower Bearing Kit - STD	Narrow Mains - 43mm Early

Always verify ESN for proper fitment.

GASKETS SETS & KITS (CONT.)

PART #	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
23531605	1	1		Lower Bearing Kit - STD	Wide Mains - 47mm
23531606		1		Lower Bearing Kit - STD	Articulated Steel Piston
23527914			1	Lower Bearing Kit - STD	Non-EGR Engine
23533692		1	1	Lower Bearing Kit - STD	Tabbed Thrust Washers
23535280		1	1	Lower Bearing Kit - STD	Hooked & Tabbed Thrust Washers
23538953		1		Lower Bearing Kit - .254mm	Articulated Steel Piston
23519905	1	1		Lower Bearing Kit - .254mm	Wide Mains - 47mm
23538954		1		Lower Bearing Kit - .508mm	Articulated Steel Piston
23519906	1	1		Lower Bearing Kit - .508mm	Wide Mains - 47mm
S0060	1	1	1	Oil Cooler Installation Kit	MY 1991 & up
23512691	1	1	1	Overhaul Gasket Set	w/o Rocker Cover Gaskets
23532720	1	1	1	Overhaul Gasket Set	
23536443		1	1	Overhaul Gasket Set - EGR	
23519723	6	6		Slipper Bearing Kit	
23538693	1	1	1	Water Pump Cover Replacement Kit	
23529962	1	1	1	Water Pump Reconditioning Kit	
23529962NB	1	1	1	Water Pump Reconditioning Kit	



All manufacturer's names, symbols and descriptions are used for reference only and it is not implied that any part is the product of these manufacturers. Always verify ESN for proper fitment.

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23536348M	Turbocharger	22	4991752-B6	Fuel Injector Spray Tip	20
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4991471	Body Assembly	17	179816	Bolt	28
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23538418Q	Overhaul Kit	5	5235605	Remanufactured Fuel Injector	20
23539316Q	Overhaul Kit	5	5235695	Remanufactured Fuel Injector	20
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P028669	Re-Ring Overhaul Kit	6	5236347	Remanufactured Fuel Injector	20
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P028668	Re-Ring Overhaul Kit	6	5236995	Remanufactured Fuel Injector	20
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50HBK	Cylinder Head Bolt Kit		5237650	Remanufactured Fuel Injector	20
			5237787	Remanufactured Fuel Injector	20
			5237820	Remanufactured Fuel Injector	20
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MODELS

Inframe kit includes: pistons, ring sets, pins, retainers, liners, o-rings, rod and main bearings, In-frame gasket kit, and rod bolts.

Re-Ring Kit same as above, except no piston.

2007-2009	2010-2012	2013
EPA-07	EPA 10	EPA10 GHG14
472900	472903	472906
472901	472904	472909
472902	472905	
472907		
472908		

KITS & PIECES

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Re Ring kit	1	P274765	P274765	P274765
Inframe kit	1	P276549		
Inframe kit Friction welded piston	1	MCIF2317	MCIF2317	MCIF2317
Piston kit	6	A4720302717		
Piston kit Friction welded	6	A4720302317	A4720302317	A4720302317
Ring set	6	A4720300424	A4720300424	
Ring set friction welded piston	6	A4720300624	A4720300624	A4720300624
Liner kit non APR	6	A4720111810	A4720111810	
Liner kit APR	6			A4720111910
Bearing - Con Rod	6	A4720300960	A4720300960	A4720300960
Main Bearing	7	A4720300240	A4720300240	A4720300240
Thrust Washer Set	1	A4720300445	A4720300445	A4720300445
Retainer - Piston Pin	12	A4729940241	A4729940241	A4729940241
Bolt - Cooling Nozzle	6	N000000004795	N000000004795	N000000004795
Nozzle - Piston Cooling	6	A4721800043	A4721800043	A4721800043
Bolt - Connecting Rod	12	A4720380071	A4720380071	A4720380071
Gasket set Inframe composite pan	1	P276670	P276670	P276666
Gasket set Inframe Aluminum pan	1	P276669	P276669	P276667
Mcbee Head set	1	MCBD150013	MCBD150013	P276665
OEM Head gasket kit	1	A4710161520	A4710161520	A4720161920
Rocker cover gasket	1	A4720160180	A4720160180	A4720160121
Oil Pan Seal Composite pan	1	A4720140322	A4720140322	A4720140322
Oil Pan Gasket Aluminum Pan	1	A4720140022	A4720140022	A4720140022
Collar Screw Pan	18	A4720140583	A4720140583	A4720140583
Front oil seal	1	A0169970646	A0169970646	A0169970646
Rear oil seal	1	A0159974946	A0159974946	A0159974946
Head bolt	38	A4720160169	A4720160169	A4720160169
Oil Cooler	1	A4721800965	A4721800965	A4721800965
Water pump Standard *	1	A472000401	A472000401	A472000401

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ENGINE PARTS

Description		Part Number
Bearing - Con Rod	6	A4720300960
Main Bearing	7	A4720300240
Thrust Washer Set	1	A4720300445
Retainer - Piston Pin	12	A4729940241
Bolt - Cooling Nozzle	6	N000000004795
Nozzle - Piston Cooling	6	A4721800043
Bolt - Connecting Rod	12	A4720380071
Oil Pan Seal Composite pan	1	A4720140322
Oil Pan Gasket Aluminum Pan	1	AA4720140022
Collar Screw Pan	18	A4720140583
Front Oil Seal	1	AM 699/0646
Rear Oil Seal	1	AM 59974946
Gear Drive Seal	1	A4729970845
Oil cooler	1	4/21800965
Water Pump (pump only)	1	2000401
Head Bolt	38	A4720160169
Valve - Intake	12	A4730500126
Valve - Exhaust	12	A4730500127
Guide -Valve	12	A4720531130
Sea I - Valve Stem	24	A4700530158
Lock-Valve	48	A4720530026
Injector Tube	6	A4720780273
Seal Ring - Injector Tube	6	A0249976445
Spring- Intake Valve	12	A4720530420
Spring - Exhaust Valve	12	A4720530520
Injector Installation Kit	6	A4600700887

REMAN INJECTORS

Description	QTY	Part Number	Core Code
0015/16 Reman Injector	6	0986435539	C-0015
0013 Reman Injector	6	0986435642	C-0013

Remanufactured Injector Features and Benefits:

- Built to meet OEM performance and durability
- Improved fuel economy and torque
- 100% tested to guarantee quality
- Remanufactured with current upgraded components
- O-Rings and crush washer pre installed for fast installation



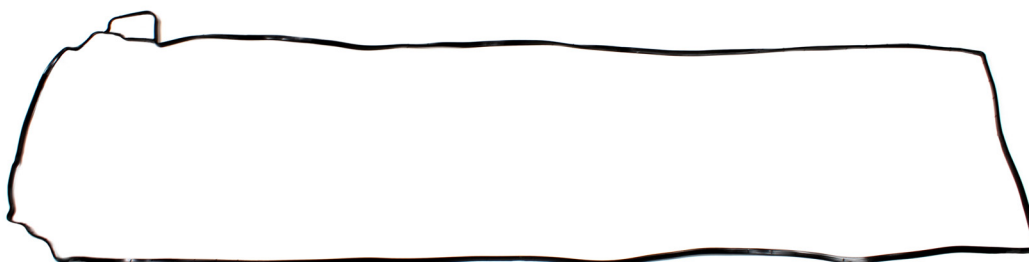
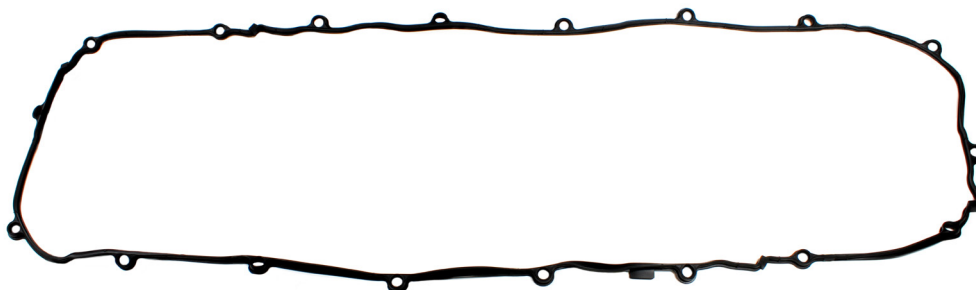
DD15

GASKETS

Gasket Sets Include: Cylinder head installation gaskets, Exhaust manifold gaskets, Intake manifold gaskets, Water manifold gaskets, Gaskets and seals to mount EGA, Rocker cover gaskets, Oil pan gasket and pick up a-rings

Model		
2007-2009	2010-2012	2013
EPA07	EPA10	EPA10 GHG14
472900	472903	472906
472901	472904	472909
472902	472905	
472907		
472908		

Description	QTY	Part numbers		
Gasket set Inframe composite pan		P276670	P276666	P276660
Gasket set Inframe Aluminum pan		P276669	P276667	P276668
Mcbee Head set		MCBD150013	P276665	MCBD15033
OEM Head gasket kit		A4710161520	A4720161920	A4720162120
Rocker cover gasket		A4720160180	A4720160121	A4720160121
Gasket - Oil Pan		A4720140322	A4720140322	A4720140322
Seal - Oil Pickup Tube		A4721870980	A4721870980	A4721870980
Seal - Oil Pickup Tube		A4721870880	A4721870880	A4721870880
Gasket - Cam Cover Seal		A4720160680	A4720160680	A4720160680
Gasket Set - Lower		A4720102205	A4720102205	A4720102205



PARTS NOTES

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PARTS NOTES

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