



INTERSTATE-McBEE



New and Remanufactured Replacement Parts for DETROIT DIESEL® 53, 71, 92 AND 149 SERIES ENGINES



INTERSTATE-McBEE, LLC

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53 SERIES

IN-FRAME KITS

PART #	DESCRIPTION	3	4	6V	CYL KIT
A-353	Trunk / Natural / 21:1 / N&C Injector	1			A-5198899
A-353-17:1	Trunk / Natural / 17:1 / S Injector	1			A-5198903
A-353T	Trunk / Turbocharged / 18.7:1 / 1.5" Pin Diameter	1			A-5149734
A-353XHT.74	Crosshead / Turbocharged / 18:1 / .74" Port Height	1			A-23503810
A-353XHT.84	Crosshead / Turbocharged / 18:1 / .84" Port Height	1			A-23503811
A-453-21:1	Trunk / Natural / 21:1 / N&C Injector		1		A-5198899
A-453-17:1	Trunk / Natural / 17:1 / S Injector		1		A-5198903
A-453-T	Trunk / Turbocharged / 18.7:1 / 1.5" Pin Diameter		1		A-5149734
A-453XHT.74	Crosshead / Turbocharged / 18:1 / .74" Port Height		1		A-23503810
A-453XHT.84	Crosshead / Turbocharged / 18:1 / .84" Port Height		1		A-23503811
A-6V53-21:1	Trunk / Natural / 21:1 / N&C Injector			1	A-5198899
A-6V53-17:1	Trunk / Natural / 17:1 / S Injector			1	A-5198903
A-6V53-T	Trunk / Turbocharged / 18.7:1 / 1.5" Pin Diameter			1	A-5149734
A-6V53XHT.74	Crosshead / Turbocharged / 18:1 / .74" Port Height			1	A-23503810
A-6V53XHT.84	Crosshead / Turbocharged / 18:1 / .84" Port Height			1	A-23503811

OVERHAUL KITS

PART #	DESCRIPTION	3	4	6V	CYL KIT
A-353-OH	Trunk / Natural / 21:1 / N&C Injector	1			A-5198899
A-353-OH-17:1	Trunk / Natural / 17:1 / S Injector	1			A-5198903
A-353T-OH	Trunk / Turbocharged / 18.7:1 / 1.5" Pin Diameter	1			A-5149734
A-353XHT.74-OH	Crosshead / Turbocharged / 18:1 / .74" Port Height	1			A-23503810
A-353XHT.84-OH	Crosshead / Turbocharged / 18:1 / .84" Port Height	1			A-23503811
A-453-21:1-OH	Trunk / Natural / 21:1 / N&C Injector		1		A-5198899
A-453-17:1-OH	Trunk / Natural / 17:1 / S Injector		1		A-5198903
A-453-T-OH	Trunk / Turbocharged / 18.7:1 / 1.5" Pin Diameter		1		A-5149734
A-453XHT.74-OH	Crosshead / Turbocharged / 18:1 / .74" Port Height		1		A-23503810
A-453XHT.84-OH	Crosshead / Turbocharged / 18:1 / .84" Port Height		1		A-23503811
A-6V53-21:1-OH	Trunk / Natural / 21:1 / N&C Injector			1	A-5198899
A-6V53-T-OH	Trunk / Turbocharged / 18.7:1 / 1.5" Pin Diameter			1	A-5149734
A-6V53XHT.74-OH	Crosshead / Turbocharged / 18:1 / .74" Port Height			1	A-23503810
A-6V53XHT.84-OH	Crosshead / Turbocharged / 18:1 / .84" Port Height			1	A-23503811

53 SERIES

ENGINE BEARINGS

PART #	3	4	6V	DESCRIPTION	NOTE
A-5149452	3	4		Connecting Rod Bearing STD	
A-5149454	3	4		Connecting Rod Bearing .010"	
A-5149455	3	4		Connecting Rod Bearing .020"	
A-5149456	3	4		Connecting Rod Bearing .030"	
A-5197975			6	Connecting Rod Bearing STD	
A-5197977			6	Connecting Rod Bearing .010"	
A-5197978			6	Connecting Rod Bearing .020"	
A-5197979			6	Connecting Rod Bearing .030"	
A-8924357	4	5		Main Bearing STD	Non-turbo / non-slotted
A-8924359	4	5		Main Bearing .010"	Non-turbo / non-slotted
A-8924360	4	5		Main Bearing .020"	Non-turbo / non-slotted
A-8924361	4	5		Main Bearing .030"	Non-turbo / non-slotted
A-5149447	4	5		Main Bearing STD	Turbocharged / slotted
A-5149449	4	5		Main Bearing .010"	Turbocharged / slotted
A-5149450	4	5		Main Bearing .020"	Turbocharged / slotted
A-5149451	4	5		Main Bearing .030"	Turbocharged / slotted
A-5195927			4	Main Bearing STD	Thru S/N 6D11073 on marine models &
A-5196685			4	Main Bearing .010"	Thru S/N 6D17959 on all others
A-5196686			4	Main Bearing .020"	
A-5196687			4	Main Bearing .030"	
A-5198410			4	Main Bearing (7-hole) STD	S/N 6D11074 & up on marine models &
A-5198412			4	Main Bearing (7-hole) .010"	S/N 6D17960 & up on all others
A-5198413			4	Main Bearing (7-hole) .020"	
A-5198414			4	Main Bearing (7-hole) .030"	
A-5116197	4	4		Thrust Washer STD	
A-5196755	4	4		Thrust Washer .005"	
A-5196756	4	4		Thrust Washer .010"	
A-5159353			4	Thrust Washer STD	
A-5160542			4	Thrust Washer .005"	
A-5192111			4	Thrust Washer .010"	
A-141346	4	4	4	Thrust Washer Dowel	
A-5198209	1			Cam Bushing Set STD	
A-5198470	1			Cam Bushing Set .010"	
A-5198471	1			Cam Bushing Set .020"	
A-5198984		1		Cam Bushing Set STD	
A-5198978		1		Cam Bushing Set .010"	
A-5198981		1		Cam Bushing Set .020"	
A-5197944			1	Cam Bushing Set STD	
A-5197945			1	Cam Bushing Set .010"	
A-5197946			1	Cam Bushing Set .020"	
A-5116198	2	2	2	Cam Thrust Washer	
A-5196793	1	1	1	Idle Gear Bushing	
A-5132504	2	2	2	Idle Gear Thrust Washer	
A-5116181	6	8	12	Connecting Rod Bushing	Non-turbo trunk engines

53 SERIES

GASKET SETS

PART #	3	4	6V	DESCRIPTION	NOTE
A-23517623	1			Overhaul Gasket Set	With cork R/C gasket #
A-23517624		1		Overhaul Gasket Set	With cork R/C gasket #
A-23512690			1	Overhaul Gasket Set	With cork R/C gasket #
A-23521366			1	Overhaul Gasket Set Turbo Engine	With cork R/C gasket #
A-8927743			1	Overhaul Gasket Set 5063-5396	
A-5199811	1		2	Cylinder Head Gasket Set	With cork R/C gasket
A-5199812		1		Cylinder Head Gasket Set	With cork R/C gasket
A5198041	1			Blower Installation Set	
A-5198042		1		Blower Installation Set	
A-5198043			1	Blower Installation Set	
NOTE: # The above sets do not include crankshaft seals and contain only basic cooler gaskets.					

CRANKSHAFT SEALS

PART #	3	4	6V	DESCRIPTION	NOTE
A-5116224	1	1	1	Front Seal -- Lip Type STD	
A-5198503	1	1	1	Front Seal -- Lip Type O/S	
A-5138796			1	Front Seal -- Lip Type STD	2.87" OD military
A-5198502	1	1	1	Front Wear Sleeve	Use with O/S seal
A-5116229	1	1	1	Rear Seal -- Lip Type STD	Single lip
A-5196852	1	1	1	Rear Seal -- Lip Type O/S	Single lip
A-5128917	1	1	1	Rear Seal -- Lip Type STD	Double lip
A-8926902	1	1	1	Rear Seal -- Directional Type STD	RH engine rotation
A-8924374	1	1	1	Rear Seal -- Directional Type O/S	RH engine rotation
A-23516636	1	1	1	Rear Wear Sleeve	Use with O/S seal

ROCKER COVER MOUNTING

PART #	3	4	6V	DESCRIPTION	NOTE
A-5147994	1		2	Cover Gasket - Cork	For stamped steel R/C
A-5147506		1		Cover Gasket - Cork	For stamped steel R/C
A-8925273	1		2	Cover Gasket - Silicone	For cast aluminum R/C
A-8925274		1		Cover Gasket - Silicone	For cast aluminum R/C
A-5104515	2	2	4	Isolator	For cast aluminum R/C
A-5104514	2	2	4	Isolator Washer	For cast aluminum R/C

53 SERIES

CYLINDER HEAD COMPONENTS

4-VALVE

PART #	3	4	6V	DESCRIPTION	NOTE
A-5199323	12	16	24	Valve Kit - 4-valve	Non-turbocharged
A-5197176	12	16	24	Valve Kit - 4-valve	Turbocharged - coded "U"
A-5116341	24	32	48	Valve Lock	
A-5144019	12	16	24	Valve Spring HIGH-LIFT	.135" wire diameter
A-5147424	12	16	24	Valve Spring LOW-LIFT	.148" wire diameter
A-5123330	12	16	24	Valve Spring Cap	
A-5111467	12	16	24	Valve Spring Seat	
A-5198529	12	16	24	Valve Guide Kit	Contains guide & seal
A-5131961	12	16	24	Valve Guide	
A-8921741	12	16	24	Valve Guide Seal	Metal with teflon lip
A-8921501	12	16	24	Valve Insert (seat) STD	Non-turbocharged
A-5196752	12	16	24	Valve Insert (seat) .010" O/S	Non-turbocharged
A-8921502	12	16	24	Valve Insert (seat) STD	Turbocharged
A-5128640	9	12	18	Push Rod	
A-5151601	9	12	18	Push Rod Nut	
A-5186858	9	12	18	Push Rod Spring	< S/N 3D6127,4D8548,6D2708
A-5108918	9	12	18	Push Rod Spring	S/N 3D6128,4D8549,6D2709 & up
A-5150303	9	12	18	Push Rod Spring Retainer	
A-5150302	9	12	18	Push Rod Spring Seat Upper	
A-5108919	9	12	18	Push Rod Spring Seat Upper	
A-5123250	9	12	18	Push Rod Spring Seat Lower	
A-8924439	9	12	18	Follower Assembly	
A-8923814	9	12	18	Follower Roller Set	Includes roller, bushing & pin
A-5116125	3	4	6	Follower Guide	
A-443603	6	8	12	Follower Guide Bolt	
A-103319	6	8	12	Follower Guide Lockwasher	
A-5135267	3	4	6	Rocker Arm Valve - Left	
A-5135268	3	4	6	Rocker Arm Valve - Right	
A-8923554	3	4	6	Rocker Arm - Injector	MCB4355 repair kit available
A-5116072	3	4	6	Rocker Shaft	
A-5119198	6	8	12	Rocker Shaft Bracket Bolt	
A-8925981	3	4	6	Injector Tube Kit STD	
A-8925981A	3	4	6	Injector Tube Kit O/S	Heavy nose
A-5119293	4	6	8	Water Nozzle Double Jet	
A-8926992	6	8	12	Fuel Connector	Flared type
A-23504075	6	8	12	Fuel Connector	Seal ring type
A-8925644	6	8	12	Fuel Connector Washer	
A-23511852	6	8	12	Fuel Jumper Line	Flared type
A-23504074	6	8	12	Fuel Jumper Line	Seal ring type
A-8925804	4	5	8	Exhaust Manifold Stud	
A-23505398	4	5	8	Exhaust Manifold Nut	
A-5104439	4	5	8	Exhaust Manifold Washer	
A-5116205	1		2	Exhaust Manifold Gasket	
A-5119006		1		Exhaust Manifold Gasket	
A-5147994	1		2	Rocker Cover Gasket - Cork	For steel cover
A-5147506		1		Rocker Cover Gasket - Cork	For steel cover
A-8925273	1		2	Rocker Cover Gasket - Silicone	For cast aluminum cover
A-8925274		1		Rocker Cover Gasket - Silicone	For cast aluminum cover

53 SERIES

CYLINDER HEAD COMPONENTS

2-VALVE

PART #	3	4	6V	DESCRIPTION	NOTE
A-5195948	6	8		Valve Kit - 2-valve	
A-5111337	12	16		Valve Lock	
A-5116140	6	8		Valve Spring	
A-5111338	6	8		Valve Spring Cap	
A-5129919	6	8		Valve Guide - 2-valve	
A-8921209	6	8		Valve Guide Seal - 2-valve	
A-5116196	6	8		Valve Insert (seat) STD	
A-5128640	9	12		Push Rod	
A-5151601	9	12		Push Rod Nut	
A-5186858	9	12		Push Rod Spring	< S/N 3D6127,4D8548
A-5108918	9	12		Push Rod Spring	S/N 3D6128,4D8549 & up
A-5150303	9	12		Push Rod Spring Retainer	
A-5150302	9	12		Push Rod Spring Seat Upper	
A-5108919	9	12		Push Rod Spring Seat Upper	
A-5123250	9	12		Push Rod Spring Seat Lower	
A-8924439	9	12		Follower Assembly	
A-8923814	9	12		Follower Roller Set	Includes roller, bushing & pin
A-5116125	3	4		Follower Guide	
A-443603	6	8		Follower Guide Bolt	
A-103319	6	8		Follower Guide Lockwasher	
A-5116072	3	4		Rocker Shaft	
A-5119198	6	8		Rocker Shaft Bracket Bolt	
A-8925981	3	4		Injector Tube Kit STD	
A-8925981A	3	4		Injector Tube Kit O/S	Heavy nose
A-8926992	6	8		Fuel Connector	Flared type
A-8925644	6	8		Fuel Connector Washer	
A-23511852	6	8		Fuel Jumper Line	Flared type
A-8925804	4	5		Exhaust Manifold Stud	
A-23505398	4	5		Exhaust Manifold Nut	
A-5104439	4	5		Exhaust Manifold Washer	
A-5116205	1			Exhaust Manifold Gasket	
A-5119006		1		Exhaust Manifold Gasket	
A-5147994	1			Rocker Cover Gasket - Cork	For steel cover
A-5147506		1		Rocker Cover Gasket - Cork	For steel cover
A-8925273	1			Rocker Cover Gasket - Silicone	For cast aluminum cover
A-8925274		1		Rocker Cover Gasket - Silicone	For cast aluminum cover

FUEL INJECTOR & MOUNTING

PART #	3	4	6V	DESCRIPTION	NOTE
Refer to the INTERSTATE-McBEE FUEL INJECTION CATALOG for DETROIT DIESEL® for a complete listing of injector assemblies and components.					
A-23511852	6	8	12	Fuel Jumper Line	Flared style
A-8926992	6	8	12	Fuel Connector	Flared style
A-8925644	6	8	12	Fuel Connector Washer	
A-5121259	3	4	6	Injector Clamp	
A-5150250	3	4	6	Injector Clamp Washer	

53 SERIES

FUEL PUMP

PART #	3	4	6V	DESCRIPTION	NOTE
A-5199560	1	1	1	Fuel Pump Assembly	LH standard capacity
R-5199560	1	1	1	Fuel Pump Assembly - Rebuilt	LH standard capacity
A-5199561	1	1	1	Fuel Pump Assembly	RH standard capacity
R-5199561	1	1	1	Fuel Pump Assembly - Rebuilt	RH standard capacity
A-5199734			1	Fuel Pump Assembly	RH high capacity
R-5199734			1	Fuel Pump Assembly - Rebuilt	RH high capacity
A-5195078	1	1	1	Fuel Pump Repair Kit	For standard capacity
A-5149599			1	Fuel Pump Repair Kit	For high capacity
A-5154216	1	1		Fuel Pump Drive Coupling	
A-5102257			1	Fuel Pump Drive Fork	
A-5150193	1	1	1	Fuel Pump Mounting Gasket	
A-5110760	1	1	1	Fuel Primer Hand Pump	

GOVERNOR COMPONENTS

PART #	3	4	6V	DESCRIPTION	NOTE
A-5122742	1	1		Cover Gasket	Cover to operating housing
A-5121342			1	Cover Gasket	Cover to operating housing
A-9431894	1	1	1	Bearing	Operating shaft upper
A-9431887	1	1		Bearing	Operating shaft lower
A-9436682			1	Bearing	Operating shaft lower (954987)
A-9428477	1	1		Cup Plug	15/16" lower bearing retainer
A-116337			1	Dish Plug	1-1/16" lower bearing retainer
A-5109544	1	1		Riser Assembly	
A-5125367			1	Riser Assembly	
A-9437108	1	1	1	Riser Thrust Bearing	
A-9438907			1	Riser Thrust Bearing	
A-23506244	1	1		Carrier Shaft Bearing	
A-9424121			1	Carrier Shaft Bearing	(907674)
A-5116336	1	1		Governor Mounting Gasket	Governor to end plate
A-5121345			1	Governor Mounting Gasket	Governor to blower

INJECTOR CONTROL

PART #	3	4	6V	DESCRIPTION	NOTE
A-5116264	2	2	4	Injector Control Tube Bracket	
A-5116265	1	1	2	Injector Control Tube Spring	
A-5129705	1	1		Control Link Hose	7/8" ID x .75"L B&D engines
A-5129707	1	1		Control Link Hose	7/8" ID x 1.26"L A&C engines
A-5129706			1	Control Link Hose	7/8" ID x 1.62"L R Bank
A-5129705			2	Control Link Hose	7/8" ID x .75"L L Bank
A-5186840	2	2	4	Clamp	

53 SERIES

BLOWER & BLOWER DRIVE

PART #	3	4	6V	DESCRIPTION	NOTE
A-5198683	1	1	1	Blower Repair Kit	
A-5142266	4	4	4	End Plate Seal - STD	
A-5199366	4	4	4	End Plate Seal - OS	
A-5199368	4	4	4	Rotor Shaft Sleeve	Use with OS seal
A-5198041	1			Blower Installation Kit	
A-5198042		1		Blower Installation Kit	
A-5198043			1	Blower Installation Kit	
A-8922967		1	1	Drive Shaft	6 7/16"L
A-9414044		1	1	Drive Shaft Snap Ring	
A-5119284		1		Drive Shaft Hub	
A-5116418			1	Drive Shaft Hub	
A-5119285		1	1	Hub Thrust Washer	
A-9411765		1	1	Hub Retainer Ring	
A-8922969		1	1	Drive Coupling	
A-8922970		1	1	--Cam	
A-5196614		1	1	--Spring Pack	

TURBOCHARGER MOUNTING

PART #	3	4	6V	DESCRIPTION	NOTE
A-5103394	1	1		Mounting Gasket	T04 model turbo
A-8929529			1	Mounting Gasket	TV6/7 model turbo
A-8927270	4	4		Stud	3/8-16/24 x 1.62"
A-5131433	4	4	4	Washer	
A-9411981	4	4	4	Nut	3/8-16/24
A-5162888			1	Air Outlet Hose	

OIL PUMP

PART #	3	4	6V	DESCRIPTION	NOTE
A-5116110	1			Oil Pump Non-Turbo	
A-5121042		1		Oil Pump Non-Turbo	
A-5116070			1	Oil Pump	
A-5195714	1			Rotor Set	
A-5195957		1		Rotor Set	
A-5195687			1	Rotor Set	
A-5195685	1	1	1	Cover	Rotor retainer
A-145067	2	2	2	Drive Screw	
A-5116386	1	1		Gasket	Lower cover assy. to block
A-5119368			1	Gasket	Lower cover assy. to block
A-5177777	2	2		Reg & Relief Valve	
A-5126436	2	2	2	Spring	
A-5177773	2	2	2	Gasket	

53 SERIES

OIL COOLER

PART #	3	4	6V	DESCRIPTION	NOTE
A-8547548	1			Oil Cooler Core 6-plate	
A-8547563	1	1	1	Oil Cooler Core 8-plate	
A-8547581	1	1	1	Oil Cooler Core 13-plate	
A-8547547			1	Oil Cooler Core 16-plate	
A-8547195			1	Oil Cooler Core 18-plate	

OIL FILLER & DIPSTICK

PART #	3	4	6V	DESCRIPTION	NOTE
A-5107106	1	1	1	Filler Cap - 1.5" diameter	Expansion rubber type
A-5120098	1	1	1	Filler Cap - 1.75" diameter	Expansion rubber type
A-5117362	1	1	1	Filler Cap - 2" diameter	Expansion rubber type
A-5108474	1	1	1	Filler Cap	One-half twist type in R/C
A-5146679	1	1	1	Dipstick - Universal Unmarked	61"L expansion type
A-5146680	1	1	1	Dipstick - Universal Unmarked	72"L cane handle type

WATER PUMP

PART #	3	4	6V	DESCRIPTION	NOTE
A-23506003	1	1	1	Pump Assembly - Left Hand	
A-23506007	1	1	1	Pump Assembly - Right Hand	
A-23506863	1	1	1	Rebuild Kit - Left Hand	Early style
A-23506864	1	1	1	Rebuild Kit - Right Hand	Early style
A-23506869	1	1	1	Rebuild Kit - Left Hand	Late style
A-23506865	1	1	1	Rebuild Kit - Right Hand	Late style
A-23506605	1	1	1	Impeller - Left Hand	Early style
A-23506606	1	1	1	Impeller - Right Hand	Early style
A-23505993	1	1	1	Impeller - Left Hand	Late style
A-23505994	1	1	1	Impeller - Right Hand	Late style
A-904827	1	1	1	Shaft & Bearing Assembly	
A-23506248	1	1	1	Unitized Seal Assembly	
A-5119282	1	1	1	Cover Gasket	
A-5133107	1	1	1	Mounting Gasket	

THERMOSTAT

PART #	3	4	6V	DESCRIPTION	NOTE
A-3041379	1	1		Thermostat - 170° F	
A-8927465	1	1		Thermostat - 170° F	Rapid warm up
A-8927466	1	1		Thermostat - 180° F	Rapid warm up
A-5143210			2	Thermostat - 170° F	Full blocking requires seal
A-5124872			2	Thermostat - 170° F	Full blocking requires seal
A-5104462			2	Thermostat - 180° F	Full blocking requires seal

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53 SERIES

GASKET LISTING

DESCRIPTION	NOTE	PART#	3	4	6V
Air Box Cover Bolt Gasket		A-23505525			4
Air Box Cover Gasket		A-5116380	1		
Air Box Cover Gasket		A-5116381		1	
Air Box Cover Gasket		A-5132117			4
Air Inlet Housing Gasket	To blower with screen	A-5196053	1		
Air Inlet Housing Gasket	To blower with screen	A-5196054		1	
Air Inlet Housing Gasket	To blower with screen	A-5122610			1
Air Inlet Housing Gasket	To bypass blower - no screen	A-8924562	1		
Air Inlet Housing Gasket	To bypass blower - no screen	A-8924555		1	
Air Inlet Housing Gasket	To bypass blower - no screen	A-8927733			1
Blower End Cover Gasket	For bypass blower	A-8924554	1	1	
Bypass Valve Seal	For bypass blower	A-8923959	1	1	1
Blower End Plate Gasket	For bypass blower	A-23520633			2
Exhaust Manifold Gasket		A-23524218	1		2
Exhaust Manifold Gasket		A-5119006		1	
Flywheel Housing Cover Gasket	Large hole (cam & bal)	A-23515145	2	2	2
Flywheel Housing Gasket		A-23506158	1	1	
Flywheel Housing Gasket		A-5137470			1
Fuel Pump Mounting Gasket		A-5150193	1	1	1
Governor Cover Gasket	Mechanical governor	A-5122742	1	1	
Governor Cover Gasket	Mechanical governor	A-5121342			1
Lower Front Cover Gasket		A-5116386	1	1	
Lower Front Cover Gasket		A-5119368			1
Oil Cooler Adaptor Gasket	Strip to block	A-5103906	1	1	
Oil Cooler Adaptor Gasket	Round to block	A-5175882	3	4	
Oil Cooler Core Gasket	Large center hole (race track)	A-23501591	1	AR	AR
Oil Cooler Core Gasket	Solid center (hockey rink)	A-8923223	1	AR	AR
Oil Pan Gasket	For stamped pan	A-5116256	1		
Oil Pan Gasket	For stamped pan	A-5116257		1	
Oil Pan Gasket	For stamped pan	A-5119266			1
Oil Pan Gasket	For cast iron pan	A-5196059	1		
Oil Pan Gasket	For cast iron pan	A-5196060		1	
Oil Pan Gasket	For cast iron pan	A-5196061			1
Oil Pickup Tube Gasket		A-5126473			1
Oil Pickup Tube Seal	White paint	A-5127175	1	1	
Rocker Cover Gasket - Cork	For steel cover	A-5147994	1		2
Rocker Cover Gasket - Cork	For steel cover	A-5147506		1	
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-8925273	1		2
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-8925274		1	
Rocker Cover Isolator	For cast aluminum cover	A-5104515	2	2	2
Thermostat Outlet Elbow		A-5116092	1	1	2
Turbocharger Mounting Gasket	TO4 model turbo	A-5103394	1	1	2
Turbocharger Mounting Gasket	TV model turbo	A-8929529			1
Turbocharger Oil Gasket	Supply	A-5170466	1	1	1
Turbocharger Oil Gasket	Drain TO4 model turbo	A-5138977	1	1	2
Turbocharger Oil Gasket	Drain TV model turbo	A-5170468			1
Upper Front Cover Gasket		A-5121082	1	1	
Upper Front Cover Gasket		A-5124055			1
Water Bypass Tube Seal		A-5184301	1	1	
Water Pump Mounting Gasket		A-5133107	1	1	1

53 SERIES
CYLINDER KIT
COMPONENTS

CYLINDER KIT	LINERLESS KIT	LINER	LINER SEAL	PISTON	CROWN	SKIRT	RING SET	PIN	RETAINER	SLIPPER	PISTON SEAL
A-5149734	A-LOCK9734	A-5132803	(2) A-5121256	A-8920717			A-5149359	A-5106902	(2) A-5108175		
A-5198899	A-LOCK8899	A-5132803	(2) A-5121256	A-5198877			A-5149942	A-5116189	(2) A-5108131		
A-5198903	A-LOCK8903	A-5132803	(2) A-5121256	A-5195931			A-5198822	A-5116189	(2) A-5108131		
A-5198904	A-LOCK8904	A-5132803	(2) A-5121256	A-5198877			A-5198902	A-5116189	(2) A-5108131		
A-5199116	A-LOCK9116	A-5132803	(2) A-5121256	A-5198877			A-5198901	A-5116189	(2) A-5108131		
A-23503778	A-LOCK3778	A-5132803	(2) A-5121256		A-23503948	A-8924002	A-23503780	A-8924735	(2) A-8924731	A-23504946	A-8924733
A-23503810	A-LOCK3811	A-8926088	(2) A-5121256		A-23503948	A-8924002	A-8927223	A-8924735	(2) A-8924731	A-23504946	A-8924733
A-23503811	A-LOCK3811	A-5132803	(2) A-5121256		A-23503948	A-8924002	A-8927223	A-8924735	(2) A-8924731	A-23504946	A-8924733
A-23501863	A-LOCK1863	A-5132803	(2) A-5121256	A-5198877			A-23501520	A-5116189	(2) A-5108131		
A-23512732	A-LOCK2732	A-5132803	(2) A-5121256		A-23503948	A-8924002	A-23512731	A-8924735	(2) A-8924731	A-23504946	A-8924733

OVERSIZE LINER REFERENCE

SIZE	LINER	LINER SEAL
.010" OS	A-5101016	(2) A-5121256
.020" OS	A-5149944	(2) A-5149945

CONNECTING ROD HARDWARE

QTY.	PART #	DESCRIPTION
2	A-8924734	Pin Bolt
2	A-8924732	Pin Bolt Spacer
2	A-5197852	Rod Cap Bolt
2	A-839103	Rod Cap Bolt Nut

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71 SERIES

IN-FRAME KITS

PART #	DESCRIPTION	2	3	4	6	CYL KIT
A-271-2V-#3	Trunk / 2-Valve / 17.5:1 / .81" Port Height	1				A-23505309
A-371-2V-#3	Trunk / 2-Valve / 17.5:1 / .81" Port Height		1			A-23505309
A-371-2VC-#3	Trunk / 2-Valve / 17.5:1 / .81" Port / Cast R/C		1			A-23505309
A-371-NA-#3	Trunk / 4-Valve / 18.7:1 / 1.05" Port Height		1			A-23505306
A-371-NAC-#3	Trunk / 4-Valve / 18.7:1 / 1.05" Port / Cast R/C		1			A-23505306
A-371-XH-#2	Crosshead / Natural / 18.7:1 / 1.05" Port Height		1			A-23522949
A-371-XHC-#2	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C		1			A-23522949
A-471-2V-#3	Trunk / 2-Valve / 17.5:1 / .81" Port Height			1		A-23505309
A-471-2VC-#3	Trunk / 2-Valve / 17.5:1 / .81" Port / Cast R/C			1		A-23505309
A-471-NA-#3	Trunk / 4-Valve / 18.7:1 / 1.05" Port Height			1		A-23505306
A-471-NAC-#3	Trunk / 4-Valve / 18.7:1 / 1.05" Port / Cast R/C			1		A-23505306
A-471-XH-#3	Crosshead / Natural / 18.7:1 / 1.05" Port Height			1		A-23522947
A-471-XHC-#3	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C			1		A-23522947
A-471-XHT-#3	Crosshead / Turbo / 17.5:1 / 1.05" Port Height			1		A-23522953
A-471-XHTC-#3	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C			1		A-23522953
A-671-2V-#3	Trunk / 2-Valve / 17.5:1 / .81" Port Height				1	A-23505309
A-671-2VC-#3	Trunk / 2-Valve / 17.5:1 / .81" Port / Cast R/C				1	A-23505309
A-671-NA-#3	Trunk / 4-Valve / 18.7:1 / 1.05" Port Height				1	A-23505306
A-671-NAC-#3	Trunk / 4-Valve / 18.7:1 / 1.05" Port / Cast R/C				1	A-23505306
A-671-XH-#3	Crosshead / Natural / 18.7:1 / 1.05" Port Height				1	A-23522947
A-671-XHC-#3	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C				1	A-23522947
A-671-XHT	Crosshead / Turbo / 17.5:1 / 1.05" Port Height				1	A-23522953
A-671-XHTC	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C				1	A-23522953

OVERHAUL KITS

PART #	DESCRIPTION	2	3	4	6	CYL KIT
A-271-2V-#3-OH	Trunk / 2-Valve / 17.5:1 / .81" Port Height	1				A-23505309
A-371-2V-#3-OH	Trunk / 2-Valve / 17.5:1 / .81" Port Height		1			A-23505309
A-371-2VC-#3-OH	Trunk / 2-Valve / 17.5:1 / .81" Port / Cast R/C		1			A-23505309
A-371-NA-#3-OH	Trunk / 4-Valve / 18.7:1 / 1.05" Port Height		1			A-23505306
A-371-NAC-#3-OH	Trunk / 4-Valve / 18.7:1 / 1.05" Port / Cast R/C		1			A-23505306
A-371-XH-#2-OH	Crosshead / Natural / 18.7:1 / 1.05" Port Height		1			A-23522949
A-371-XHC-#2-OH	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C		1			A-23522949
A-471-2V-#3-OH	Trunk / 2-Valve / 17.5:1 / .81" Port Height			1		A-23505309
A-471-2VC-#3-OH	Trunk / 2-Valve / 17.5:1 / .81" Port / Cast R/C			1		A-23505309
A-471-NA-#3-OH	Trunk / 4-Valve / 18.7:1 / 1.05" Port Height			1		A-23505306
A-471-NAC-#3-OH	Trunk / 4-Valve / 18.7:1 / 1.05" Port / Cast R/C			1		A-23505306
A-471-XH-#3-OH	Crosshead / Natural / 18.7:1 / 1.05" Port Height			1		A-23522947
A-471-XHC-#3-OH	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C			1		A-23522947
A-471-XHT-#3-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port Height			1		A-23522953
A-471-XHTC-#3-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C			1		A-23522953
A-671-2V-#3-OH	Trunk / 2-Valve / 17.5:1 / .81" Port Height				1	A-23505309
A-671-2VC-#3-OH	Trunk / 2-Valve / 17.5:1 / .81" Port / Cast R/C				1	A-23505309
A-671-NA-#3-OH	Trunk / 4-Valve / 18.7:1 / 1.05" Port Height				1	A-23505306
A-671-NAC-#3-OH	Trunk / 4-Valve / 18.7:1 / 1.05" Port / Cast R/C				1	A-23505306
A-671-XH-#3-OH	Crosshead / Natural / 18.7:1 / 1.05" Port Height				1	A-23522947
A-671-XHC-#3-OH	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C				1	A-23522947
A-671-XHT-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port Height				1	A-23522953
A-671-XHTC-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C				1	A-23522953

71 SERIES

ENGINE BEARINGS

PART #	2	3	4	6	DESCRIPTION	NOTE
A-23511129	2	3	4	6	Connecting Rod Bearing STD	
A-23511133	2	3	4	6	Connecting Rod Bearing .010"	
A-23511135	2	3	4	6	Connecting Rod Bearing .020"	
A-23511137	2	3	4	6	Connecting Rod Bearing .030"	
A-5192874	3	4	5	7	Main Bearing STD	
A-5192876	3	4	5	7	Main Bearing .010"	
A-5192877	3	4	5	7	Main Bearing .020"	
A-5192878	3	4	5	7	Main Bearing .030"	
A-5159353	4	4	4	4	Thrust Washer STD	
A-5160542	4	4	4	4	Thrust Washer .005"	
A-5192111	4	4	4	4	Thrust Washer .010"	
A-141346	4	4	4	4	Thrust Washer Dowel	
A-5194609	5				Cam Bushing 1.5" W	
A-5111422		4	4	4	Cam End Bearing	
A-5194858		4	4	4	Cam End Bearing .010" USID	
A-5196022		2	3	5	Cam Intermediate Bearing STD	
A-5196023		2	3	5	Cam Intermediate Brg .010" USID	
A-5115572		4	6	10	Ring Lock	
A-5111424		4	4	4	Cam Thrust Washer STD	
A-5194826		4	4	4	Cam Thrust Washer .005" OS	
A-5194827		4	4	4	Cam Thrust Washer .010" OS	
A-7451948		1	1	1	Idler Gear Bearing	
A-5103534		6	6	6	Idler Gear Bearing Lock Bolt	Do not reuse
A-5157274	4	6	8	12	Connecting Rod Bushing	For trunk non-turbo rods

ROCKER COVER MOUNTING

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5144484	1				Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5143405		1			Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5143406			1		Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5143407				1	Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5104018		1			Rocker Cover Gasket - Silicone	For cast aluminum cover
A-5104081			1		Rocker Cover Gasket - Silicone	For cast aluminum cover
A-5104019				1	Rocker Cover Gasket - Silicone	For cast aluminum cover
A-5149510		1			Cast Cover Installation Kit	
A-5149511			1		Cast Cover Installation Kit	
A-5149512				1	Cast Cover Installation Kit	
A-5104015		2	2	4	Cast Cover Hold Down Bolt	
A-5104515		2	2	4	Cast Cover Isolator	
A-5104514		2	2	4	Cast Cover Isolator Washer	

71 SERIES

OVERHAUL GASKET SETS

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5192434	1				Overhaul Gasket Set	With R/C gasket / no crank seals
A-5192921		1			Overhaul Gasket Set - Low Block	#
A-5192922			1		Overhaul Gasket Set - Low Block	#
A-5192923				1	Overhaul Gasket Set - Low Block	#
A-23512674		1			Overhaul Gasket Set - High Block	S/N 3A08330 & up #
A-23512675			1		Overhaul Gasket Set - High Block	S/N 4A19529 & up #
MCB471011			1		Overhaul Gasket Set - High Block	4-71 in TS14/18 scrapers #
A-23512676				1	Overhaul Gasket Set - High Block	S/N 6A16283 & up #
NOTE: # These sets do not include rocker cover gaskets or crankshaft seals and only basic cooler gaskets.						

HEAD GASKET SETS

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5192433	1				Head Gasket Set	With R/C gasket
A-5192924		1			Head Gasket Set - Low Block	**
A-5192925			1		Head Gasket Set - Low Block	**
A-5192926				1	Head Gasket Set - Low Block	**
A-5193116		1			Head Gasket Set - High Block	S/N 3A08330 & up **
A-5198676			1		Head Gasket Set - High Block	S/N 4A19529 & up **
A-5195742				1	Head Gasket Set - High Block	S/N 6A16283 & up **
NOTE: ** These sets do not include rocker cover gaskets.						

BLOWER GASKET SETS

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5192320	1				Blower Installation Kit	
A-5192752		1			Blower Installation Kit	
A-5192753			1		Blower Installation Kit	
A-5192754				1	Blower Installation Kit	
A-23514286				1	Blower Installation Kit	TA / TTA bypass blower units
A-5192106		1			Oil Pump Gasket Set	Oil pump & pan gaskets
A-5192107			1		Oil Pump Gasket Set	Oil pump & pan gaskets
A-5192108				1	Oil Pump Gasket Set	Oil pump & pan gaskets

FRONT CRANKSHAFT SEALS

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5154314	1				Front Seal - Lip Type	
A-5154316	1				Front Seal Spacer	
A-5115454		1	1	1	Front Seal - Lip Type	
A-5143108		1	1	1	Front Seal - Lip Type	Double lip
A-23514608		1	1	1	Front Seal - Teflon / Directional	RH engine rotation
A-23514609		1	1	1	Front Seal - Teflon / Directional	LH engine rotation
A-23507306		1	1	1	Front Seal Spacer	2.81" L

71 SERIES

REAR CRANKSHAFT SEALS

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5114335	1	1	1	1	Rear Seal - Single Lip Type STD	For dry hsg
A-5197860	1	1	1	1	Rear Seal - Single Lip Type O/S	For dry hsg / use wear sleeve
A-5127821		1	1	1	Rear Seal - Double Lip Type STD	For wet hsg
A-5196927		1	1	1	Rear Seal - Double Lip Type O/S	For wet hsg / use wear sleeve
A-8927746		1	1	1	Rear Seal - Teflon / Directional STD	RH eng. rot. / dry hsg
A-8927748		1	1	1	Rear Seal - Teflon / Directional O/S	RH eng. rot. / dry hsg / use sleeve
A-23504821		1	1	1	Rear Seal - Teflon / Directional O/S	RH eng. rot. / wet hsg / use sleeve
A-8927747		1	1	1	Rear Seal - Teflon / Directional STD	LH eng. rot. / dry hsg
A-8927749		1	1	1	Rear Seal - Teflon / Directional O/S	LH eng. rot. / dry hsg / use sleeve
A-23507411		1	1	1	Rear Seal - Teflon / Directional O/S	LH eng. rot. / wet hsg / use sleeve
A-5192496	1	1	1	1	Rear Seal Spacer	
A-23507225	1	1	1	1	O/S Rear Seal Sleeve	

CYLINDER HEAD COMPONENTS

2-VALVE

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5193197	4	6	8	12	Valve Kit	With locks
A-5193666		6	8	12	Valve Kit - High HP	With locks
A-23507238	8	12	16	24	Valve Lock	
A-5150289	4	6	8	12	Valve Spring	
A-5120930	4	6	8	12	Valve Guide	
A-23500480	4	6	8	12	Valve Guide Seal	
A-8927920	4	6	8	12	Valve Seat (Insert) STD	
A-5198230	4	6	8	12	Valve Seat (Insert) .010" OS	
A-5128640	6	9	12	18	Push Rod	
A-5151601	6	9	12	18	Push Rod Nut	
A-5186858	6	9	12	18	Push Rod Spring	.177" wire dia.
A-5150302		9	12	18	Push Rod Spring Seat - Upper	
A-5123250		9	12	18	Push Rod Spring Seat - Lower	
A-5150303		9	12	18	Push Rod Retainer	
A-8924439	6	9	12	18	Follower Assembly	
A-5106413		3	4	6	Follower Guide	
A-443603		6	8	12	Guide Bolt	
A-8923814	6	9	12	18	Roller & Pin Set	
A-8925981	2	3	4	6	Injector Tube Kit STD	With seal
A-8925981A	2	3	4	6	Injector Tube Kit OS	Thicker nose with seal
A-5172874		4	4	4	Water Nozzle Single Jet	
A-5111332		4	6	10	Water Nozzle Double Jet	
A-8923554	2	3	4	6	Rocker Arm - Injector	MCB4355 repair kit available
A-23500714	2	3	4	6	Rocker Shaft	
A-5103903	4	6	8	12	Rocker Shaft Bracket	
A-5150325	4	6	8	12	Rocker Shaft Bracket Bolt	
A-23511856		6	8	12	Fuel Jumper Line	For straight body injectors
A-8926992	4				Fuel Connector	
A-5117369		6	8	12	Fuel Connector	
A-5152148	4				Fuel Connector Washer	
A-5125108		6	8	12	Fuel Connector Washer	
A-8927270	6				Exhaust Manifold Stud	
A-8925804		4	5	7	Exhaust Manifold Stud	
A-23505398		4	5	7	Exhaust Manifold Nut	
A-5104439		2	3	5	Exhaust Manifold Washer	
A-8927270		6	8	12	Water Manifold Stud	

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CYLINDER HEAD COMPONENTS

4-VALVE

PART #	2	3	4	6	DESCRIPTION	NOTE
A-23500501		12	16	24	Valve Kit	With locks / code (U)
A-5149386			16	24	Valve Kit - High HP	With locks / code (J6)
A-5111337		12	16	24	Valve Lock	
A-5147347		12	16	24	Valve Spring	
A-5117563		12	16	24	Valve Spring Cap (retainer)	
A-5117562		12	16	24	Valve Spring Seat	
A-5129919		12	16	24	Valve Guide	
A-5129919+.002		12	16	24	Valve Guide	.002" OS OD
A-5129919+.005		12	16	24	Valve Guide	.005" OS OD
A-8921209		12	16	24	Valve Guide Seal	Steel with teflon lip
A-5101101		12	16	24	Valve Seat (Insert) STD	
A-5197167		12	16	24	Valve Seat (Insert) .010" OS	
A-5117565		6	8	12	Valve Bridge	
A-5129101		6	8	12	Valve Bridge Adjuster Screw	
A-5151601		6	8	12	Valve Bridge Lock Nut	
A-5117564		6	8	12	Valve Bridge Guide	
A-5117564.006		6	8	12	Valve Bridge Guide	.006" OS
A-5196843		6	8	12	Valve Bridge Guide	Early threaded type
A-5128640		9	12	18	Push Rod	
A-5151601		9	12	18	Push Rod Nut	
A-5186858		9	12	18	Push Rod Spring	.177" wire dia.
A-5150302		9	12	18	Push Rod Spring Seat - Upper	
A-5123250		9	12	18	Push Rod Spring Seat - Lower	
A-5150303		9	12	18	Push Rod Spring Retainer	
A-8924439		9	12	18	Follower Assembly	
A-8923814		9	12	18	Roller & Pin Set	
A-5106413		3	4	6	Follower Guide	
A-443603		6	8	12	Guide Bolt	
A-103319		6	8	12	Guide Bolt Washer	
A-8925981		3	4	6	Injector Tube Kit STD	With seal
A-8925981A		3	4	6	Injector Tube Kit OS	Thicker nose with seal
A-5172874		4	4	4	Water Nozzle Single Jet	
A-5111332		4	6	10	Water Nozzle Double Jet	
A-8923554		3	4	6	Rocker Arm - Injector	MCB4355 repair kit available
A-5148472		3	4	6	Rocker Arm Valve - Left	MCB7217 repair kit available
A-5148475		3	4	6	Rocker Arm Valve - Right	MCB7217 repair kit available
A-8924355		3	4	6	Injector Arm Bushing	Large
A-23517217		6	8	12	Valve Arm Bushing	Large
A-8924354		9	12	18	Injector & Valve Arm Bushing	Small
A-5123700		9	12	18	Inj. & Valve Arm Clevis Bushing	
A-5150314		9	12	18	Inj. & Valve Arm Clevis Pin	
A-23500714		3	4	6	Rocker Shaft	
A-5103903		6	8	12	Rocker Shaft Bracket (stand)	
A-5150325		6	8	12	Rocker Shaft Bracket Bolt	
A-23511850		3	4	6	Fuel Jumper Line - Short	
A-23511851		3	4	6	Fuel Jumper Line - Long	
A-5117369		6	8	12	Fuel Connector	
A-5125108		6	8	12	Fuel Connector Washer	
A-8925804		4	5	7	Exhaust Manifold Stud	
A-23505398		4	5	7	Exhaust Manifold Nut	
A-5104439		2	3	5	Exhaust Manifold Washer	
A-8927270		6	8	12	Water Manifold Stud	

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LINER INSERTS

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5184484		3	4	6	Liner Insert STD ID / STD HGT	For STD & .005" OS liners
A-5193316		3	4	6	Liner Insert OS ID / STD HGT	For .010" to .030" OS liners
A-5148399		3	4	6	Liner Insert STD ID / +.0015" HGT	For STD & .005" OS liners
A-5199871		3	4	6	Liner Insert OS ID / +.0015" HGT	For .010" to .030" OS liners
A-5199569		AR	AR	AR	Liner Shim .002" Thick	

VIBRATION DAMPER

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5100421				1	Damper - Light Rubber	
A-5177763			1	1	Damper - Light Viscous	
A-8922491			1	1	Damper - Heavy Viscous	
A-5134917			1	1	Front Cone - .531" L	
A-5151344			1	1	Front Cone - .687" L	
A-23506876			1	1	Front Cone - 1.40" L	
A-23502705			1	1	Rear Cone - 2.12" L	Grooved
A-8928674			1	1	Rear Cone - 2.43" L	Grooved
A-23507296			1	1	Rear Cone - 3.09" L	Grooved
A-23503769			1	1	Seal Ring	For grooved cones
A-5131724		2	2	2	Key 3/8" x 1.25" L	For crank pulley

FUEL INJECTOR & MOUNTING

PART #	2	3	4	6	DESCRIPTION	NOTE
Refer to the INTERSTATE-McBEE FUEL INJECTION CATALOG for DETROIT DIESEL® for a complete listing of injector assemblies and components.						
A-23511856		6	8	12	Fuel Jumper Line	For straight body injectors
A-23501850		3	4	6	Fuel Jumper Line - Short	For offset body injectors
A-23501851		3	4	6	Fuel Jumper Line - Long	For offset body injectors
A-8926992	4				Fuel Connector	
A-5117369		6	8	12	Fuel Connector	
A-5152148	4				Fuel Connector Washer	
A-5125108		6	8	12	Fuel Connector Washer	
A-5111335	2	3	4	6	Injector Clamp	For straight body injectors
A-5121259		3	4	6	Injector Clamp	For offset body injectors
A-5150250	2	3	4	6	Injector Clamp Washer	

FUEL PUMP

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5199560	1	1	1	1	Fuel Pump Assembly	LH standard capacity
R-5199560	1	1	1	1	Fuel Pump Assembly - Rebuilt	LH standard capacity
A-5199561		1	1	1	Fuel Pump Assembly	RH standard capacity
R-5199561		1	1	1	Fuel Pump Assembly - Rebuilt	RH standard capacity
A-5199735			1	1	Fuel Pump Assembly	LH high capacity
R-5199735			1	1	Fuel Pump Assembly - Rebuilt	LH high capacity
A-5199734			1	1	Fuel Pump Assembly	RH high capacity
R-5199734			1	1	Fuel Pump Assembly - Rebuilt	RH high capacity
A-5195078	1	1	1	1	Fuel Pump Repair Kit	For standard capacity
A-5149599			1	1	Fuel Pump Repair Kit	For high capacity
A-5154216	1				Fuel Pump Drive Coupling	
A-5102257		1	1	1	Fuel Pump Drive Fork	
A-5150193	1	1	1	1	Fuel Pump Mounting Gasket	
A-5110760	1	1	1	1	Fuel Primer Hand Pump	

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GOVERNOR COMPONENTS

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5150889		1	1	1	Cover Gasket	Cover to operating housing
A-142583		1	1	1	Retainer	
A-9431894		1	1	1	Bearing	Operating shaft upper
A-148402		1	1	1	Bushing .500" L	Operating shaft lower
A-148403		1	1	1	Bushing .750" L	Operating shaft lower (954987)
A-5150890		1	1	1	Gasket Control Hsg. to Carrier Hsg.	
A-9437108		1	1	1	Riser Thrust Bearing	
A-9424121		1	1	1	Carrier Shaft Bearing	(907674)
A-5150246		1	1	1	Governor Mounting Gasket	Governor to blower
A-23509675	1	1	1	1	Hydraulic Governor Mounting Gasket	Governor to drive
A-3249110	2	2	2	2	Hydraulic Governor Cover Gasket	

SHUTDOWN CONTROL

PART #	2	3	4	6	DESCRIPTION	NOTE
A-23504196		1	1	1	Shutdown Solenoid - 12V	
A-23504197		1	1	1	Shutdown Solenoid - 24V	

BLOWER & BLOWER DRIVE

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5192324	1				Blower Repair Kit	
A-5125427	4				End Plate Seal - OS	
A-5125428	4				Rotor Shaft Sleeve	Use with OS seal
A-23514203		1	1	1	Blower Repair Kit	
A-23514204			1	1	Blower Repair Kit	Turbo gear reduction blower
A-8924453		4	4	4	End Plate Seal - OS	
A-5192439		4	4	4	Rotor Shaft Sleeve	Use with OS seal
A-23500533		1	1	1	Blower Seal Kit	
A-5192320	1				Blower Installation Kit	
A-5192752		1			Blower Installation Kit	
A-5192753			1		Blower Installation Kit	
A-5192754				1	Blower Installation Kit	
A-23514286				1	Blower Installation Kit	TA engines
A-5154638		1			Blower Drive Shaft	6 3/16"L
A-5154639			1		Blower Drive Shaft	7 13/16"L
A-5154640				1	Blower Drive Shaft	11 1/16"L
A-5168130			1		Blower Drive Shaft	8 11/16"L
A-5193476				1	Blower Drive Shaft	11 15/16"L
A-5154637		1	1	1		
A-5103377		1	1	1	Drive Coupling	
A-5103365		1	1	1	--Cam	
A-5196314		1	1	1	--Spring Pack	

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TURBOCHARGER & AFTERCOOLER MOUNTING

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5103394			1		Mounting Gasket	TO4 model turbo
A-8929529			1	1	Mounting Gasket	T18A & TV6/7 model turbo
A-9411981			4	4	Lock Nut 3/8-24	
A-5170466			1	1	Oil Inlet Gasket	
A-5170468			1	1	Oil Drain Gasket	
A-5147911			2	2	Air Outlet Clamp	3.5" dia
A-5147912			2	2	Air Outlet Clamp	3.375" dia
A-5162888			1	1	Air Outlet Hose	3.5"ID x 2.25"L
A-5101138				4	Aftercooler Seal Ring	

OIL PUMP

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5194800		1	1		Pump Overhaul Kit	
A-5194801				1	Pump Overhaul Kit	
A-5153247		1	1	1	Relief Valve	In pump
A-5155765		1	1	1	Relief Valve Spring	In pump
A-105456		1	1	1	Relief Valve Gasket	7/8" copper
A-5156815		1	1	1	Regulator Valve Spring	In regulator assembly

OIL COOLER

PART #	2	3	4	6	DESCRIPTION	NOTE
A-8547548		1	1		Oil Cooler Core	6-plate
A-8547563		1	1		Oil Cooler Core	8-plate
A-8547551			1		Oil Cooler Core	8-plate
A-8547236			1	1	Oil Cooler Core	13-plate #1 reinforced
A-8547581			1	1	Oil Cooler Core	13-plate #1 to #4 reinforced
A-5177777		1	1	1	Oil Cooler Bypass Valve	
A-5177778		1	1	1	Oil Cooler Bypass Spring	
A-5177773		1	1	1	Oil Cooler Bypass Gasket	
A-5133431		1	1	1	Oil Filter Bypass Valve (disk)	
A-5575086		1	1	1	Oil Filter Bypass Gasket	

OIL FILLER & DIPSTICK

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5107106		1	1	1	Filler Cap - 1.5" diameter	Expansion rubber type
A-5117362		1	1	1	Filler Cap - 2" diameter	Expansion rubber type
A-5146679		1	1	1	Dipstick - Universal Unmarked	61"L expansion type
A-5146680		1	1	1	Dipstick - Universal Unmarked	72"L cane handle type

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WATER PUMP

PART #	2	3	4	6	DESCRIPTION	NOTE
A-23506723		1	1	1	Pump Assembly - LH	
A-23506735		1	1	1	Pump Assembly - RH	
A-23506704			1	1	Pump Assembly - LH	High capacity pump
A-23506711			1	1	Pump Assembly - RH	High capacity pump
A-5196935	1				Rebuild Kit	
A-23506851		1	1	1	Rebuild Kit	
A-23506870			1	1	Rebuild Kit	High capacity pump
A-23505997		1	1	1	Impeller	
A-23505998			1	1	Impeller	High capacity
A-5136671		1	1	1	Shaft & Bearing Assembly	
A-23522434		1	1	1	Unitized Seal Assembly	
A-5114011		1	1	1	Thrower	
A-5150191		1	1	1	Outlet O-ring	
A-23508431			1	1	Outlet O-ring	High capacity
A-5150193		1	1	1	Mounting Gasket	
A-5150188		1	1	1	Cover Gasket	
A-5178273			1	1	Cover Gasket	High capacity

THERMOSTAT

PART #	2	3	4	6	DESCRIPTION	NOTE
A-3041379	1				Thermostat 170° F	
A-5104096			1	1	Thermostat 180° F	Partial blocking
A-5104238			1	1	Thermostat 173° F	Partial blocking
A-5172141		1	1	1	Thermostat 173° F	Non blocking
A-23503826			1	1	Thermostat 170° F	Full blocking use seal
A-5132155			1	1	Seal	

RAW WATER PUMP & HEAT EXCHANGE

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5197222		1	1	1	Reconditioning Kit	Pumps #5122599,#23507972
A-5196846		1	1	1	Impeller Replacement Kit	Impeller #8924839
A-5197224		1	1	1	Reconditioning Kit	Pumps #5115396,#23507971
A-5194860		1	1	1	Impeller Replacement Kit	Impeller #8924839
A-8517479		1	1	1	Electrode Assembly - 2 1/8" L	At pump inlet
A-8515850		1	1	1	Electrode Assembly - 3 3/8" L	In exchanger

AIR COMPRESSOR DRIVE

PART #	2	3	4	6	DESCRIPTION	NOTE
A-5170450		1	1	1	Drive Plate	On drive gear
A-5141773		1	1	1	Coupling	
A-5144866		1	1	1	Hub	On compressor

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GASKET LISTING

DESCRIPTION	NOTE	PART #	2	3	4	6
Aftercooler Seal Ring		A-5101138				4
Air Box Cover Bolt Gasket		A-23505525	4	3	4	8
Air Box Cover Gasket		A-5152288	2			
Air Box Cover Gasket		A-5132117		3	4	8
Air Inlet Housing Gasket	To blower with screen	A-5103557	1			
Air Inlet Housing Gasket	To blower with screen	A-5103558		1		
Air Inlet Housing Gasket	To blower with screen	A-5103559			1	
Air Inlet Housing Gasket	To blower with screen	A-5103601				1
Air Inlet Housing Gasket	For bypass blower	A-23505529				1
Balance Weight Cover Gasket		A-5121753		1	1	1
Breather Gasket	Side block mount	A-5173482			1	1
Crankshaft Front Cover Gasket		A-5156192	1			
Crankshaft Front Cover Gasket		A-5150181		1	1	1
Crankshaft Front Cover Gasket		A-5112641			1	1
Exhaust Manifold Gasket		A-5154210	1			
Exhaust Manifold Gasket		A-5150194		1		
Exhaust Manifold Gasket	Metal clad	A-5120224			2	2
Exhaust Manifold Gasket	Metal clad	A-5120223				1
Exhaust Manifold Gasket	TA 6 bolt hole	A-8925587				1
Flywheel Housing Cover Gasket	Large hole	A-23515145		2	2	2
Flywheel Housing Cover Gasket	Small hole (star)	A-5104507		1	1	1
Flywheel Housing Gasket		A-5152525	1			
Flywheel Housing Gasket		A-8928967		1	1	1
Fuel Pump Mounting Gasket		A-5150193	1	1	1	1
Governor Cover Gasket		A-5150889	1	1	1	1
Oil Pan Gasket		A-5154198	1			
Oil Pan Gasket		A-5150115		1		
Oil Pan Gasket		A-5150116			1	
Oil Pan Gasket		A-5150117				1
Oil Pan Gasket - Lower	Lower to upper	A-5153256				1
Oil Pan Sump Gasket	Round cast iron sump cover	A-5153788				1
Oil Pan Sump Gasket	Round steel sump cover	A-5153986				1
Oil Regulator Gasket		A-5104381		1	1	1
Rocker Cover Gasket - Neoprene		A-5144484	1			
Rocker Cover Gasket - Neoprene	For steel cover	A-5143405		1		
Rocker Cover Gasket - Neoprene	For steel cover	A-5143406			1	
Rocker Cover Gasket - Neoprene	For steel cover	A-5143407				1
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-5104018		1		
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-5104081			1	
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-5104019				1
Rocker Cover Isolator	For cast aluminum cover	A-5104515		2	2	4
Starter Gasket	For wet housings	A-5130995		1	1	1
Thermostat Housing Gasket		A-5169478		2	2	2
Turbocharger Mounting Gasket	TO4 model turbo	A-5103394			1	1
Turbocharger Mounting Gasket	TV model turbo	A-8929529			1	1
Water Pump Cover Gasket		A-5150188		1	1	1
Water Pump Cover Gasket	High capacity	A-5178273			1	1
Water Pump Cover Seal	2 3/16" OD	A-5153560		1	1	
Water Pump Cover Seal	2 1/2" OD	A-5159457		1	1	
Water Pump Cover Seal	2 3/4" OD	A-5156770			1	1
Water Pump Mounting Gasket		A-5150193		1	1	1
Water Pump Oring	At block	A-5150191		1	1	1

CYLINDER KIT COMPONENTS

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REFERENCE CYLINDER KIT	McBEE CYLINDER KIT	LINERLESS KIT	LINER	SIZE	PORT	PISTON	SKIRT	RING SET	PIN	RETAINER	SLIPPER	PISTON SEAL
A-23505305	A-23505305#2	A-LK5306	A-23502021	#2	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	Ø A-5188405		
A-23505306	A-23505306#3	A-LK5306	A-23502022	#3	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	Ø A-5188405		
	A-5149261	A-LK5306	A-23504936	#4	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	Ø A-5188405		
	A-23505305.005	A-LK5306	A-5193732	.005"	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	Ø A-5188405		
	A-5149263	A-LK5306	A-5193733	.010"	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	Ø A-5188405		
	A-5149264	A-LK5306	A-5193734	.020"	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	Ø A-5188405		
	A-23505305.030	A-LK5306	A-5193735	.030"	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	Ø A-5188405		
	A-23505307#2	A-LK5307	A-23502021	#2	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	Ø A-5188405		
A-23505307	A-23505307#3	A-LK5307	A-23502022	#3	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	Ø A-5188405		
	A-23505307.001	A-LK5307	A-23504936	#4	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	Ø A-5188405		
	A-23505307.005	A-LK5307	A-5193732	.005"	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	Ø A-5188405		
	A-23505307.010	A-LK5307	A-5193733	.010"	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	Ø A-5188405		
	A-23505307.020	A-LK5307	A-5193734	.020"	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	Ø A-5188405		
	A-23505307.030	A-LK5307	A-5193735	.030"	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	Ø A-5188405		
A-23505308	A-23505309#2	A-LK5309	A-23504932	#2	.81"	A-5189054 (17:1)		A-5193477	A-5188406	Ø A-5188405		
A-23505309	A-23505309#3	A-LK5309	A-23504933	#3	.81"	A-5189054 (17:1)		A-5193477	A-5188406	Ø A-5188405		
	A-23522473	A-LK22473	A-23502024	#2	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522477	A-LK22473	A-23502025	#3	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522479	A-LK22473	A-23504935	#4	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522481	A-LK22473	A-5107449	.010"	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522483	A-LK22473	A-5107450	.020"	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522485	A-LK22485	A-23502021	#2	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522953	A-LK22485	A-23502022	#3	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522485	A-LK22485	A-23504936	#4	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522485.005	A-LK22485	A-5193732	.005"	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522491	A-LK22485	A-5193733	.010"	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522493	A-LK22485	A-5193734	.020"	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522485.030	A-LK22485	A-5193735	.030"	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522507	A-LK22507	A-23502024	#2	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522509	A-LK22507	A-23502025	#3	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522511	A-LK22507	A-23504935	#4	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522513	A-LK22507	A-5107449	.010"	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522515	A-LK22507	A-5107450	.020"	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522949	A-LK22949	A-23502021	#2	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522947	A-LK22949	A-23502022	#3	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522521	A-LK22949	A-23504936	#4	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522949.005	A-LK22949	A-5193732	.005"	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522951	A-LK22949	A-5193733	.010"	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522525	A-LK22949	A-5193734	.020"	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	Ø A-5180250	A-23501687	A-8922221
	A-23522949.030	A-LK22949	A-5193735	.030"	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	Ø A-5180250	A-23501687	A-8922221

V71 SERIES

IN-FRAME KITS

PART #	DESCRIPTION	6V	8V	12V	16V	CYL KIT
A-6V71-NA	Trunk / Natural / 18.7:1 / 1.05" Port Height	1				A-23505306
A-6V71-NAC	Trunk / Natural / 18.7:1 / 1.05" Port / Cast R/C	1				A-23505306
A-6V71-XH	Crosshead / Natural / 18.7:1 / 1.05" Port Height	1				A-23522949
A-6V71-XHC	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C	1				A-23522949
A-6V71-XHT	Crosshead / Turbo / 17.5:1 / 1.05" Port Height	1				A-23522953
A-6V71-XHTC	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C	1				A-23522953
A-8V71-NA	Trunk / Natural / 18.7:1 / 1.05" Port Height		1			A-23505306
A-8V71-NAC	Trunk / Natural / 18.7:1 / 1.05" Port / Cast R/C		1			A-23505306
A-8V71-XH	Crosshead / Natural / 18.7:1 / 1.05" Port Height		1			A-23522949
A-8V71-XHC	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C		1			A-23522949
A-8V71-XHT	Crosshead / Turbo / 17.5:1 / 1.05" Port Height		1			A-23522953
A-8V71-XHTC	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C		1			A-23522953
A-12V71-NA	Trunk / Natural / 18.7:1 / 1.05" Port Height			1		A-23505306
A-12V71-NAC	Trunk / Natural / 18.7:1 / 1.05" Port / Cast R/C			1		A-23505306
A-12V71-XH	Crosshead / Natural / 18.7:1 / 1.05" Port Height			1		A-23522949
A-12V71-XHC	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C			1		A-23522949
A-12V71-XHT	Crosshead / Turbo / 17.5:1 / 1.05" Port Height			1		A-23522953
A-12V71-XHTC	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C			1		A-23522953
					NOTE	
NOTE: For 16V units individual components are available.						

OVERHAUL KITS

PART #	DESCRIPTION	6V	8V	12V	16V	CYL KIT
A-6V71-NA-OH	Trunk / Natural / 18.7:1 / 1.05" Port Height	1				A-23505306
A-6V71-NAC-OH	Trunk / Natural / 18.7:1 / 1.05" Port / Cast R/C	1				A-23505306
A-6V71-XH-OH	Crosshead / Natural / 18.7:1 / 1.05" Port Height	1				A-23522949
A-6V71-XHC-OH	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C	1				A-23522949
A-6V71-XHT-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port Height	1				A-23522953
A-6V71-XHTC-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C	1				A-23522953
A-8V71-NA-OH	Trunk / Natural / 18.7:1 / 1.05" Port Height		1			A-23505306
A-8V71-NAC-OH	Trunk / Natural / 18.7:1 / 1.05" Port / Cast R/C		1			A-23505306
A-8V71-XH-OH	Crosshead / Natural / 18.7:1 / 1.05" Port Height		1			A-23522949
A-8V71-XHC-OH	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C		1			A-23522949
A-8V71-XHT-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port Height		1			A-23522953
A-8V71-XHTC-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C		1			A-23522953
A-12V71-NA-OH	Trunk / Natural / 18.7:1 / 1.05" Port Height			1		A-23505306
A-12V71-NAC-OH	Trunk / Natural / 18.7:1 / 1.05" Port / Cast R/C			1		A-23505306
A-12V71-XH-OH	Crosshead / Natural / 18.7:1 / 1.05" Port Height			1		A-23522949
A-12V71-XHC-OH	Crosshead / Natural / 18.7:1 / 1.05" Port / Cast R/C			1		A-23522949
A-12V71-XHT-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port Height			1		A-23522953
A-12V71-XHTC-OH	Crosshead / Turbo / 17.5:1 / 1.05" Port / Cast R/C			1		A-23522953
					NOTE	
NOTE: For 16V units individual components are available.						

V71 SERIES

ENGINE BEARINGS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5149572	6	8	12	16	Connecting Rod Bearing STD	
A-5149575	6	8	12	16	Connecting Rod Bearing .010"	
A-5149577	6	8	12	16	Connecting Rod Bearing .020"	
A-5149579	6	8	12	16	Connecting Rod Bearing .030"	
A-5149556	4	5	7	10	Main Bearing STD	
A-5149559	4	5	7	10	Main Bearing .010"	
A-5149561	4	5	7	10	Main Bearing .020"	
A-5149563	4	5	7	10	Main Bearing .030"	
A-5149565	4	5	7	10	Main Bearing STD	For turbocharged engines
A-5149567	4	5	7	10	Main Bearing .010"	For turbocharged engines
A-5149568	4	5	7	10	Main Bearing .020"	For turbocharged engines
A-8922118	4	5	7	10	Main Bearing .030"	For turbocharged engines
A-5117005	4	4	4	4	Thrust Washer STD	
A-5196753	4	4	4	4	Thrust Washer .005"	
A-5196754	4	4	4	4	Thrust Washer .010"	
A-141346	4	4	4	4	Thrust Washer Dowel	
A-5111422	2	2	2	4	Cam End Bearing	Rear (front & rear 16V)
A-5194858	2	2	2	4	Cam End Bearing .010" USID	Rear (front & rear 16V)
A-5117984	2	2	2		Cam End Bearing	Front
A-5197569	2	2	2		Cam End Bearing .010" USID	Front
A-5196026	4	6	10	12	Cam Intermediate Bearing STD	
A-5196027	4	6	10	12	Cam Intermediate Brg .010" USID	
A-5115572	8	12	20	24	Ring Lock	
A-5111424	4	4	4	8	Cam Thrust Washer STD	
A-5194826	4	4	4	8	Cam Thrust Washer .005" OS	
A-5194827	4	4	4	8	Cam Thrust Washer .010" OS	
A-7451948	1	1	1	2	Idler Gear Bearing	
A-5103534	6	6	6	12	Idler Gear Bearing Lock Bolt	Do not reuse
A-5157274	12	16	24	32	Connecting Rod Bushing	For trunk non-turbo rods

ROCKER COVER MOUNTING

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5143405	2				Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5143406		2		4	Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5143407			2		Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5104018	2				Rocker Cover Gasket - Silicone	For cast aluminum cover
A-5104081		2		4	Rocker Cover Gasket - Silicone	For cast aluminum cover
A-5104019			2		Rocker Cover Gasket - Silicone	For cast aluminum cover
A-5149510	2				Cast Cover Installation Kit	
A-5149511		2		4	Cast Cover Installation Kit	
A-5149512			2		Cast Cover Installation Kit	
A-5104015	4	4	8	8	Cast Cover Hold Down Bolt	
A-5104515	4	4	8	8	Cast Cover Isolator	
A-5104514	4	4	8	8	Cast Cover Isolator Washer	

V71 SERIES

OVERHAUL GASKET SETS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-23512677	1				Overhaul Gasket Set	Coach applications
A-23512678	1				Overhaul Gasket Set	
A-23512679		1			Overhaul Gasket Set	Coach applications
A-23512680		1			Overhaul Gasket Set	
A-23512681			1		Overhaul Gasket Set	
A-23512682				1	Overhaul Gasket Set	
NOTE: The above sets do not include R/C gaskets or crankshaft seals and only basic cooler gaskets.						

HEAD & SUPPLEMENTAL GASKET SETS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5196376	1	1			Supplemental Gasket Sets	Marine applications
A-5196378			1		Supplemental Gasket Sets	Marine applications
A-5196379			1		Supplemental Gasket Sets	Industrial applications
A-5196132				1	Supplemental Gasket Sets	Marine applications
A-5196380	2				Head Gasket Set	
A-5196381		2		4	Head Gasket Set	
A-5196382			2		Head Gasket Set	
NOTE: The above head sets do not include rocker cover gaskets.						

BLOWER GASKET SETS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5149646	1				Blower Installation Kit	Natural
A-5149641	1				Blower Installation Kit	Turbocharged
A-5149644		1			Blower Installation Kit	Natural
A-5149643		1			Blower Installation Kit	Turbocharged
A-5149642			1		Blower Installation Kit	Natural & turbocharged
A-5149645				1	Blower Installation Kit	Natural & turbocharged

LINER INSERTS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5184484	6	8	12	16	Liner Insert STD ID / STD HGT	For STD & .005" OS liners
A-5193316	6	8	12	16	Liner Insert OS ID / STD HGT	For .010" to .030" OS liners
A-5148399	6	8	12	16	Liner Insert STD ID / +.0015" HGT	For STD & .005" OS liners
A-5199871	6	8	12	16	Liner Insert OS ID / +.0015" HGT	For .010" to .030" OS liners
A-5199569	AR	AR	AR	AR	Liner Shim .002" Trick	

CRANKSHAFT ASSEMBLY

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5146733	1				Crankshaft	
A-5103264		1			Crankshaft	
A-23502165			1		Crankshaft	

V71 SERIES

FRONT CRANKSHAFT SEALS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5115454	1	1	1		Front Seal - Lip Type	
A-5114335				1	Front Seal - Lip Type &	
A-5197860				1	Front Seal - Lip Type #	
A-23514608	1	1	1		Front Seal - Teflon / Directional	RH engine rotation
A-23514609	1	1	1		Front Seal - Teflon / Directional	LH engine rotation
A-8927747				1	Front Seal - Teflon / Directional &	RH engine rotation
A-8927746				1	Front Seal - Teflon / Directional &	LH engine rotation
A-8927749				1	Front Seal - Teflon / Directional #	RH engine rotation
A-8927748				1	Front Seal - Teflon / Directional #	LH engine rotation
A-5198908				1	Front Sleeve #	

Note: # = For outboard front trunnion mount with bearing. & =For non-outboard trunnion units.

REAR CRANKSHAFT SEALS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5114335	1	1	1		Rear Seal - Single Lip Type STD	For dry hsg
A-5197860	1	1	1		Rear Seal - Single Lip Type O/S	For dry hsg / use wear sleeve
A-5194462				1	Rear Seal - Single Lip Type O/S	For dry hsg / use wear sleeve
A-5127821	1	1	1		Rear Seal - Double Lip Type STD	For wet hsg
A-5196927	1	1	1		Rear Seal - Double Lip Type O/S	For wet hsg / use wear sleeve
A-5198159				1	Rear Seal - Double Lip Type O/S	For wet hsg / use wear sleeve
A-8927746	1	1	1		Rear Seal - Teflon / Directional STD	RH eng. rot. / dry hsg
A-8927748	1	1	1		Rear Seal - Teflon / Directional O/S	RH eng. rot. / dry hsg / use sleeve
A-23504821	1	1	1		Rear Seal - Teflon / Directional O/S	RH eng. rot. / wet hsg / use sleeve
A-8927747	1	1	1		Rear Seal - Teflon / Directional STD	LH eng. rot. / dry hsg
A-8927749	1	1	1		Rear Seal - Teflon / Directional O/S	LH eng. rot. / dry hsg / use sleeve
A-23507411	1	1	1		Rear Seal - Teflon / Directional O/S	LH eng. rot. / wet hsg / use sleeve
A-8926761				1	Rear Seal - Teflon / Directional STD	RH eng. rot. / dry hsg
A-23501544				1	Rear Seal - Teflon / Directional O/S	RH eng. rot. / dry hsg / use sleeve
A-23501610				1	Rear Seal - Teflon / Directional STD	LH eng. rot. / dry hsg
A-23501545				1	Rear Seal - Teflon / Directional O/S	LH eng. rot. / dry hsg / use sleeve
A-23507225	1	1	1		O/S Rear Seal Sleeve	
A-23507226				1	O/S Rear Seal Sleeve	

VIBRATION DAMPER

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-8922491		1			Damper - Viscous	12.3" OD
A-8922492		1			Damper - Viscous	12.3" OD
A-8928951			1		Damper - Viscous	12.3" OD
A-8924435				1	Damper - Viscous	18" OD
A-5106222				1	Damper - Viscous	15.1" OD
A-5134917		1	1		Front Cone - .531" L	
A-5102957		1	1		Front Cone - .937" L	
A-23506876		1	1		Rear Cone - 1.40" L	Grooved
A-5104475		1	1		Rear Cone - 1.70" L	Grooved
A-23502705		1	1		Rear Cone - 2.12" L	Grooved
A-23507297		1	1		Rear Cone - 2.22" L	Grooved
A-23507296		1	1		Rear Cone - 3.09" L	Grooved
A-23503769		1	1		Seal Ring	For grooved cones

2-VALVE

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V71 SERIES

CYLINDER HEAD COMPONENTS

4-VALVE

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-23500501	24	32	48	64	Valve Kit	With locks / code (U)
A-5149386	24	32	48	64	Valve Kit - High HP	With locks / code (J6)
A-5111337	48	64	96	128	Valve Lock	
A-5147347	24	32	48	64	Valve Spring	
A-5117563	24	32	48	64	Valve Spring Cap (retainer)	
A-5117562	24	32	48	64	Valve Spring Seat	
A-5129919	24	32	48	64	Valve Guide	
A-5129919+.002	24	32	48	64	Valve Guide	.002" OS OD
A-5129919+.005	24	32	48	64	Valve Guide	.005" OS OD
A-8921209	24	32	48	64	Valve Guide Seal	Steel with teflon lip
A-5101101	24	32	48	64	Valve Seat (Insert) STD	
A-5197167	24	32	48	64	Valve Seat (Insert) .010" OS	
A-5117565	12	16	24	32	Valve Bridge	
A-5129101	12	16	24	32	Valve Bridge Adjuster Screw	
A-5151601	12	16	24	32	Valve Bridge Lock Nut	
A-5117564	12	16	24	32	Valve Bridge Guide	
A-5117564.006	12	16	24	32	Valve Bridge Guide	.006" OS
A-5196843	12	16	24	32	Valve Bridge Guide	Early threaded type
A-5128640	18	24	36	48	Push Rod	
A-5151601	18	24	36	48	Push Rod Nut	
A-5186858	18	24	36	48	Push Rod Spring	.177" wire dia.
A-5150302	18	24	36	48	Push Rod Spring Seat - Upper	
A-5123250	18	24	36	48	Push Rod Spring Seat - Lower	
A-5150303	18	24	36	48	Push Rod Spring Retainer	
A-8924439	18	24	36	48	Follower Assembly	
A-8923814	18	24	36	48	Roller & Pin Set	
A-5106413	6	8	12	16	Follower Guide	
A-443603	12	16	24	32	Guide Bolt	
A-103319	12	16	24	32	Guide Bolt Washer	
A-8925981	6	8	12	16	Injector Tube Kit STD	With seal
A-8925981A	6	8	12	16	Injector Tube Kit OS	Thicker nose with seal
A-5172874		4	4	4	Water Nozzle Single Jet	
A-5111332		4	6	12	Water Nozzle Double Jet	
A-8923554	6	8	12	16	Rocker Arm - Injector	MCB4355 repair kit available
A-5148472	6	8	12	16	Rocker Arm Valve - Left	MCB7217 repair kit available
A-5148475	6	8	12	16	Rocker Arm Valve - Right	MCB7217 repair kit available
A-8924355	6	8	12	16	Injector Arm Bushing	Large
A-23517217	12	16	24	32	Valve Arm Bushing	Large
A-8924354	18	24	36	48	Injector & Valve Arm Bushing	Small
A-5123700	18	24	36	48	Inj. & Valve Arm Clevis Bushing	
A-5150314	18	24	36	48	Inj. & Valve Arm Clevis Pin	
A-23500714	6	8	12	16	Rocker Shaft	
A-5103903	12	16	24	32	Rocker Shaft Bracket (stand)	
A-5150325	12	16	24	32	Rocker Shaft Bracket Bolt	
A-23511850	6	8	12	16	Fuel Jumper Line - Short	
A-23511851	6	8	12	16	Fuel Jumper Line - Long	
A-5117369	12	16	24	32	Fuel Connector	
A-5125108	12	16	24	32	Fuel Connector Washer	
A-8925804	8	10	14	20	Exhaust Manifold Stud	
A-23505398	8	10	14	20	Exhaust Manifold Nut	
A-5104439	4	6	10	12	Exhaust Manifold Washer	
A-8927270	12	16	24	32	Water Manifold Stud	

V71 SERIES

FUEL INJECTOR & MOUNTING

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
Refer to the INTERSTATE-McBEE FUEL INJECTION CATALOG for DETROIT DIESEL® for a complete listing of injector assemblies and components.						
A-23511850	6	8	12	16	Fuel Jumper Line - Short	For offset body injectors
A-23511851	6	8	12	16	Fuel Jumper Line - Long	For offset body injectors
A-23511853	6	8	12		Fuel Jumper Line - Short "JAKE"	
A-23511854	6	8	12		Fuel Jumper Line - Long "JAKE"	
A-5117369	12	16	24	32	Fuel Connector	
A-5125108	12	16	24	32	Fuel Connector Washer	
A-5121259	6	8	12	16	Injector Clamp	For offset body injectors
A-5150250	6	8	12	16	Injector Clamp Washer	

FUEL PUMP

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5199560	1	1	1	1	Fuel Pump Assembly	LH standard capacity
R-5199560	1	1	1	1	Fuel Pump Assembly - Rebuilt	LH standard capacity
A-5199735	1	1	1	1	Fuel Pump Assembly	LH high capacity
R-5199735	1	1	1	1	Fuel Pump Assembly - Rebuilt	LH high capacity
A-5195078	1	1	1	1	Fuel Pump Repair Kit	For standard capacity
A-5149599	1	1	1	1	Fuel Pump Repair Kit	For high capacity
A-5102257	1	1	1	1	Fuel Pump Drive Fork	
A-5150193	1	1	1	1	Fuel Pump Mounting Gasket	
A-5110760	1	1	1	1	Fuel Primer Hand Pump	

GOVERNOR COMPONENTS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-IDS29397	1	1	1	1	Governor Repair Kit - Double Weight	For mechanical limiting unit
A-IDS02825	1	1	1	1	Governor Repair Kit - Single Weight	For mechanical limiting unit
A-8924869	1	1	1	1	Cover Gasket	Cover to governor housing
A-9431896	1	1	1	1	Bearing	Operating shaft upper
A-9436682	1	1	1	1	Bearing	Operating shaft lower
A-116337	1	1	1	1	Expansion Plug - 11/16"	Under lower bearing
A-5165221	1	1	1	1	Gasket	Weight shaft cap
A-9424121	1	1	1	1	Bearing	For weight shaft
A-9437108	1	1	1	1	Riser Bearing	
A-5147910	1	1	1	1	Riser - .865"L	
A-8924266	1	1	1	1	Governor Mounting Gasket	Governor to blower
A-8922593	1	1	1	1	Spring Housing Gasket	
A-5117952	1	1	1	1	Buffer Screw	
A-5174286	1	1	1	1	Buffer Screw Nut	
A-8924267	2	2	2	4	Control Link Hose - 13/16"L	Governor to head adaptor
A-5104556				1	control Link Hose - .56"L	
A-5104592	4	4	4	8	Hose Clamp	

SHUTDOWN CONTROL

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-23504196	1	1	1	1	Shutdown Solenoid - 12V	
A-23504197	1	1	1	1	Shutdown Solenoid - 24V	

BLOWER & BLOWER DRIVE

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V71 SERIES

TURBOCHARGER & AFTERCOOLER MOUNTING

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5103394	1	1	AR	AR	Mounting Gasket	TO4 model turbo
A-8929529	1	1	AR	AR	Mounting Gasket	T18A & TV6/7 model turbo
A-9411981	4	4	AR	AR	Lock Nut 3/8-24	
A-5170466	1	1	AR	AR	Oil Inlet Gasket	
A-5170468	1	1	AR	AR	Oil Drain Gasket	
A-5147911	2	2	AR	AR	Air Outlet Hose Clamp	3.5" dia
A-5147912	2	2	AR	AR	Air Outlet Hose Clamp	3.375" dia
A-5162888	1	1	AR	AR	Air Outlet Hose	3.5"ID x 2.25"L
A-8926957	1	1	AR	AR	Air Outlet Hose	4"ID x 2.375"L
A-5101138	4	4	8	8	Aftercooler Seal Ring	
A-5137620	AR	AR	AR	AR	Exhaust Tube Clamp (marmon)	3.82" dia
A-5146165	AR	AR	AR	AR	Exhaust Tube Clamp (marmon)	3.88" dia
A-5137619	AR	AR	AR	AR	Exhaust Tube Clamp (marmon)	4.50" dia
A-5132650	AR	AR	AR	AR	Exhaust Tube Clamp (marmon)	5.25" dia

OIL PUMP

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5196602	1	1			Gear Set	1.302" W gears
A-8927135	1	1			Drive Gear - 37 teeth	
A-8928545	1	1			Key 3/16 x 7/8	

OIL RELIEF & REGULATOR

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-8922740	2	2	2	3	Valve	
A-5126327	2	2	2	3	Spring - 2.96"L	
A-5126326				1	Spring - 2.57"L	

OIL FILLER & DIPSTICK

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5117362	1	1	AR	AR	Filler Cap - 2" diameter	Expansion rubber type
A-5146679	1	1	1	1	Dipstick - Universal Unmarked	61"L expansion type
A-5146680	1	1	1	1	Dipstick - Universal Unmarked	72"L cane handle type

OIL COOLER

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-8547195	AR	AR			Cooler Core - 18-plate	Single stack
A-8547236	AR				Cooler Core - 13-plate	Single stack #1 reinforced
A-8547237	AR	AR	AR	AR	Cooler Core - 24-plate	Double stack
A-8547547	AR	AR			Cooler Core - 16-plate	Single stack
A-8547552			AR	AR	Cooler Core - 32-plate	Double stack
A-8547553	AR	AR			Cooler Core - 16-plate	Double stack
A-8547554			AR		Cooler Core - 12-plate	Single stack / double base
A-8547555	AR				Cooler Core - 12-plate	Single stack / double base
A-8547561		AR	AR		Cooler Core - 24-plate	12-engine & 12-marine gear
A-8547581	AR	AR			Cooler Core - 13-plate	Single stack #1 to #4 reinforced

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V71 SERIES

WATER PUMP

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-23506366	1	1			Rebuild Kit	
A-23506367			1		Rebuild Kit	Impeller vane 2.25"L
A-23506368			1		Rebuild Kit	Impeller vane 1.375"L
A-23506871				1	Rebuild Kit	
A-23505999	1	1			Impeller	
A-23506000			1		Impeller	Impeller vane 2.25"L
A-23506001			1		Impeller	Impeller vane 1.375"L
A-23506002				1	Impeller	
A-23522434	1	1	1	1	Unitized Seal	
A-23506053	1	1	1	1	Shaft	
A-23503687	1	1	1	1	Bearing Inner	
A-23503649	1	1	1	1	Bearing Outer	
A-23501819	1	1	1	1	Oil Seal	
A-221436	1	1	1	1	Flatwasher	
A-274746	1	1	1	1	Lock Ring	
A-5117972	1	1	1	1	Lock Nut	
A-5117975	1	1	1	1	Cover Gasket	
A-5117976			1		Cover Gasket	
A-23505239				1	Cover Gasket	
A-5103544	1	1	1		Mounting Seal Ring	
A-5109515				1	Mounting Gasket	

THERMOSTAT

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5102112	2	2	4	4	Thermostat 160° F	Full blocking / use seal
A-23503826	2	2	4	4	Thermostat 170° F	Full blocking / use seal
A-23503825	2	2	4	4	Thermostat 180° F	Full blocking / use seal
A-5104238	2	2			Thermostat 173° F	Partial blocking
A-5104096	2	2			Thermostat 180° F	Partial blocking
A-5132155	2	2	4	4	Seal	Use with full blocking

RAW WATER PUMP & HEAT EXCHANGER

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5197222	1	1	1	1	Reconditioning Kit	Pumps #5122599,#23507972
A-5196846	1	1	1	1	Impeller Replacement Kit	Impeller #8924839
A-5197224	1	1	1	1	Reconditioning Kit	Pumps #5115396,#23507971
A-5194860	1	1	1	1	Impeller Replacement Kit	Impeller #8924839
A-8517479	2	2	2	2	Electrode Assembly - 2 1/8" L	At pump inlet & exchanger
A-8515850	2	2	2	2	Electrode Assembly - 3 3/8" L	In exchanger

AIR COMPRESSOR DRIVE

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5170450	1	1	1	1	Drive Plate	On drive gear
A-5141773	1	1	1	1	Coupling	
A-5144866	1	1	1	1	Hub	On compressor

V71 SERIES

GASKET LISTING

DESCRIPTION	NOTE	PART#	6V	8V	12V	16V
Aftercooler Seal Ring		A-5101138	4	4	8	8
Air Box Cover Gasket	Small cover	A-8923792	2	4	8	8
Air Box Cover Gasket	Large cover	A-8923791	2	2	2	4
Air Inlet Housing Gasket	To blower with screen	A-5103515	1		2	
Air Inlet Housing Gasket	To blower with screen	A-5103602		1		2
Air Inlet Housing Gasket	To blower no screen	A-5102062		1		2
Air Inlet Housing Gasket	To blower with screen	A-5103601				
Air Inlet Housing Rectangular Seal	On top of blower	A-5104978	1	1		
Air Inlet Housing Seal	On top of blower	A-5101419	2	2		
Exhaust Manifold Gasket	Metal clad	A-5122866	2			
Exhaust Manifold Gasket	Metal clad	A-5120224		4	4	8
Exhaust Manifold Gasket	Metal clad	A-5120223			2	
Exhaust Manifold Gasket	Metal clad 6 bolt hole	A-8925587			2	
Flywheel Housing Cover Gasket	Large hole	A-23515145	2	2	2	3
Flywheel Housing Cover Gasket	Small hole (star)	A-5104507	4	4	4	5
Flywheel Housing Gasket		A-5144875	1	1	1	1
Front Cover Gasket	Upper	A-5123638	1	1	1	
Front Cover Gasket	Lower	A-5121714	1	1	1	
Front Gear Housing Gasket		A-5144875				1
Fuel Pump Mounting Gasket		A-5150193	1	1	1	1
Governor Cover Gasket	Mechanical governor	A-8924869	1	1	1	1
Oil Pan Gasket		A-23503588	1			
Oil Pan Gasket		A-5117231		1		
Oil Pan Gasket	Sub pan to block	A-5109915			1	
Oil Pan Gasket - Lower	Sump to sub pan	A-5125635			1	
Oil Pan Sump Gasket	Round steel sump cover	A-5124796			1	
Oil Pan Gasket Kit	Sub pan to block	A-5126562				1
Oil Pan Gasket - Lower	Front sump to sub pan	A-5150115				2
Oil Pan Gasket - Lower	Rear sump to sub pan	A-5150116				2
Oil Pickup Tube Gasket		A-5117242	1	1		
Oil Pickup Tube Gasket		A-5123241			1	
Oil Regulator & Relief Gasket		A-5117269	2	2	2	2
Oil Regulator & Relief Gasket		A-29503153				1
Rocker Cover Gasket - Neoprene	For steel cover	A-5143405	2			
Rocker Cover Gasket - Neoprene	For steel cover	A-5143406		2		4
Rocker Cover Gasket - Neoprene	For steel cover	A-5143407			2	
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-5104018	2			
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-5104081		2		4
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-5104019			2	
Rocker Cover Isolator	For cast aluminum cover	A-5104515	4	4	8	8
Starter Gasket	For wet housings	A-5130995	1	1	1	1
Thermostat Housing Cover Gasket		A-5117786	2	2		
Thermostat Housing Cover Gasket	Rapid warm housing	A-5133450	2	2		
Thermostat Housing Cover Gasket		A-5175989			2	2
Turbocharger Mounting Gasket	TO4 model turbo	A-5103394			AR	AR
Turbocharger Mounting Gasket	TV model turbo	A-8929529	1	1	AR	AR
Turbocharger Oil Gasket	Supply	A-5170466	1	1	AR	AR
Turbocharger Oil Gasket	Drain TO4 model turbo	A-5138977	1	1	AR	AR
Turbocharger Oil Gasket	Drain TV model turbo	A-5170468	1	1	AR	AR

V71 SERIES

CYLINDER KIT COMPONENTS

REFERENCE CYLINDER KIT	McBEE CYLINDER KIT	LINERLESS KIT	LINER	SIZE	PORT	PISTON	SKIRT	RING SET	PIN	RETAINER	SLIPPER	PISTON SEAL
A-23505305	A-23505305#2	A-LK5306	A-23502021	#2	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	(2) A-5188405		
A-23505306	A-23505306#3	A-LK5306	A-23502022	#3	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	(2) A-5188405		
	A-5149261	A-LK5306	A-23504936	#4	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	(2) A-5188405		
	A-23505305.005	A-LK5306	A-5193732	.005"	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	(2) A-5188405		
	A-5149263	A-LK5306	A-5193733	.010"	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	(2) A-5188405		
	A-5149264	A-LK5306	A-5193734	.020"	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	(2) A-5188405		
	A-23505305.030	A-LK5306	A-5193735	.030"	1.05"	A-5149234 (18.7:1)		A-23514970	A-5188406	(2) A-5188405		
	A-23505307#2	A-LK5307	A-23502021	#2	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	(2) A-5188405		
A-23505307	A-23505307#3	A-LK5307	A-23502022	#3	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	(2) A-5188405		
	A-23505307.001	A-LK5307	A-23504936	#4	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	(2) A-5188405		
	A-23505307.005	A-LK5307	A-5193732	.005"	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	(2) A-5188405		
	A-23505307.010	A-LK5307	A-5193733	.010"	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	(2) A-5188405		
	A-23505307.020	A-LK5307	A-5193734	.020"	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	(2) A-5188405		
	A-23505307.030	A-LK5307	A-5193735	.030"	1.05"	A-5149236 (17:1)		A-23514971	A-5144495	(2) A-5188405		
	A-23522473	A-LK22473	A-23502024	#2	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522477	A-LK22473	A-23502025	#3	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522479	A-LK22473	A-23504935	#4	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522481	A-LK22473	A-5107449	.010"	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522483	A-LK22473	A-5107450	.020"	.95"	A-23521992 (17:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522485	A-LK22485	A-23502021	#2	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522953	A-LK22485	A-23502022	#3	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522489	A-LK22485	A-23504936	#4	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522485.005	A-LK22485	A-5193732	.005"	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522491	A-LK22485	A-5193733	.010"	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522493	A-LK22485	A-5193734	.020"	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522485.030	A-LK22485	A-5193735	.030"	1.05"	A-23521992 (17:1)	A-23522070	A-23522955	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522507	A-LK22507	A-23502024	#2	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522509	A-LK22507	A-23502025	#3	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522511	A-LK22507	A-23504935	#4	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522513	A-LK22507	A-5107449	.010"	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522515	A-LK22507	A-5107450	.020"	.95"	A-23522026 (18.7:1)	A-23522070	A-23522954	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522949	A-LK22949	A-23502021	#2	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522947	A-LK22949	A-23502022	#3	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522521	A-LK22949	A-23504936	#4	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522949.005	A-LK22949	A-5193732	.005"	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522951	A-LK22949	A-5193733	.010"	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522955	A-LK22949	A-5193734	.020"	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	(2) A-5180250	A-23501687	A-8922221
	A-23522949.030	A-LK22949	A-5193735	.030"	1.05"	A-23522026 (18.7:1)	A-23522070	A-23526990	A-5101120	(2) A-5180250	A-23501687	A-8922221

92 SERIES

IN-FRAME KITS

PART #	DESCRIPTION	6V	8V	12V	16V	CYL KIT
A-6V92-XH	18:1 Ratio / 1.05" Port / Wide Gap / Steel Cover	1				A-23524345
A-6V92-XHC	18:1 Ratio / 1.05" Port / Wide Gap / Cast Cover	1				A-23524345
A-6V92-XHT	17:1 Ratio / 1.05" Port / Wide Gap / Steel Cover	1				A-23524339
A-6V92-XHTC	17:1 Ratio / 1.05" Port / Wide Gap / Cast Cover	1				A-23524339
A-6V92-XHT-.95	17:1 Ratio / .95" Port / Wide Gap / Steel Cover	1				A-23524341
A-6V92-XHTC-.95	17:1 Ratio / .95" Port / Wide Gap / Cast Cover	1				A-23524341
A-6V92-XHTA	17:1 Ratio / .95" Brushed / Wide Gap / Steel Cover	1				A-23524340
A-6V92-XHTAC	17:1 Ratio / .95" Brushed / Wide Gap / Cast Cover	1				A-23524340
A-6V92-XHTC-17:1	17:1 Ratio / .85" Port / STD Gap / Cast Cover	1				A-23524343
A-8V92-XH	18:1 Ratio / 1.05" Port / Wide Gap / Steel Cover		1			A-23524345
A-8V92-XHC	18:1 Ratio / 1.05" Port / Wide Gap / Cast Cover		1			A-23524345
A-8V92-XHT	17:1 Ratio / 1.05" Port / Wide Gap / Steel Cover		1			A-23524339
A-8V92-XHTC	17:1 Ratio / 1.05" Port / Wide Gap / Cast Cover		1			A-23524339
A-8V92-XHT-.95	17:1 Ratio / .95" Port / Wide Gap / Steel Cover		1			A-23524341
A-8V92-XHTC-.95	17:1 Ratio / .95" Port / Wide Gap / Cast Cover		1			A-23524341
				NOTE	NOTE	
NOTE: For 12V & 16V units individual components are available.						

OVERHAUL KITS

PART #	DESCRIPTION	6V	8V	12V	16V	CYL KIT
A-6V92-XH-OH	18:1 Ratio / 1.05" Port / Wide Gap / Steel Cover	1				A-23524345
A-6V92-XHC-OH	18:1 Ratio / 1.05" Port / Wide Gap / Cast Cover	1				A-23524345
A-6V92-XHT-OH	17:1 Ratio / 1.05" Port / Wide Gap / Steel Cover	1				A-23524339
A-6V92-XHTC-OH	17:1 Ratio / 1.05" Port / Wide Gap / Cast Cover	1				A-23524339
A-6V92-XHT-.95-OH	17:1 Ratio / .95" Port / Wide Gap / Steel Cover	1				A-23524341
A-6V92-XHTC-.95-OH	17:1 Ratio / .95" Port / Wide Gap / Cast Cover	1				A-23524341
A-6V92-XHTC-17:1-OH	17:1 Ratio / .85" Port / STD Gap / Cast Cover	1				A-23524343
A-8V92-XH-OH	18:1 Ratio / 1.05" Port / Wide Gap / Steel Cover		1			A-23524345
A-8V92-XHC-OH	18:1 Ratio / 1.05" Port / Wide Gap / Cast Cover		1			A-23524345
A-8V92-XHT-OH	17:1 Ratio / 1.05" Port / Wide Gap / Steel Cover		1			A-23524339
A-8V92-XHTC-OH	17:1 Ratio / 1.05" Port / Wide Gap / Cast Cover		1			A-23524339
A-8V92-XHT-.95-OH	17:1 Ratio / .95" Port / Wide Gap / Steel Cover		1			A-23524341
A-8V92-XHTC-.95-OH	17:1 Ratio / .95" Port / Wide Gap / Cast Cover		1			A-23524341
				NOTE	NOTE	
NOTE: For 12V & 16V units individual components are available.						

92 SERIES

ENGINE BEARINGS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5149572	6	8	12	16	Connecting Rod Bearing STD	
A-5149575	6	8	12	16	Connecting Rod Bearing .010"	
A-5149577	6	8	12	16	Connecting Rod Bearing .020"	
A-5149579	6	8	12	16	Connecting Rod Bearing .030"	
A-5149565	4	5	8	10	Main Bearing STD	
A-5149567	4	5	8	10	Main Bearing .010"	
A-5149568	4	5	8	10	Main Bearing .020"	
A-8922118	4	5	8	10	Main Bearing .030"	
A-5117005	4	4	4	4	Thrust Washer STD	
A-5196753	4	4	4	4	Thrust Washer .005"	
A-5196754	4	4	4	4	Thrust Washer .010"	
A-141346	4	4	4	4	Thrust Washer Dowel	
A-5111422	2	2	4	4	Cam End Bearing	Rear (front & rear 12&16V)
A-5194858	2	2	4	4	Cam End Bearing .010" USID	Rear (front & rear 12&16V)
A-5117984	2	2			Cam End Bearing	Front
A-5197569	2	2			Cam End Bearing .010" USID	Front
A-5196026	4	6	8	12	Cam Intermediate Bearing STD	
A-5196027	4	6	8	12	Cam Intermediate Brg .010" USID	
A-5115572	8	12	16	24	Ring Lock	
A-5111424	4	4	4	8	Cam Thrust Washer STD	
A-5194826	4	4	4	8	Cam Thrust Washer .005" OS	
A-5194827	4	4	4	8	Cam Thrust Washer .010" OS	
A-7451948	1	1	2	2	Idler Gear Bearing	
A-5103534	6	6	12	12	Idler Gear Bearing Lock Bolt	Do not reuse

ROCKER COVER MOUNTING

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5143405	2		4		Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5143406		2		4	Rocker Cover Gasket - Neoprene	For stamped steel cover
A-5104018	2		4		Rocker Cover Gasket - Silicone	For cast aluminum cover
A-5104081		2		4	Rocker Cover Gasket - Silicone	For cast aluminum cover
A-5149510	2		4		Cast Cover Installation Kit	
A-5149511		2		4	Cast Cover Installation Kit	
A-5104015	4	4	8	8	Cast Cover Hold Down Bolt	
A-5104515	4	4	8	8	Cast Cover Isolator	
A-5104514	4	4	8	8	Cast Cover Isolator Washer	

92 SERIES

OVERHAUL GASKET SETS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-23512683	1				Overhaul Gasket Set	Coach applications
A-23512684	1				Overhaul Gasket Set	
A-23512685		1			Overhaul Gasket Set	
A-23512686			1		Overhaul Gasket Set	
A-23512687				1	Overhaul Gasket Set	
NOTE: The above sets do not include R/C gaskets or crankshaft seals and only basic cooler gaskets.						

HEAD GASKET SETS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5199673	2		4		Head Gasket Set	
A-5199674		2		4	Head Gasket Set	
NOTE: The above head sets do not include rocker cover gaskets.						

BLOWER GASKET SETS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5149646	1		2		Blower Installation Kit	Natural
A-5149641	1		2		Blower Installation Kit	Turbocharged
A-5149644		1			Blower Installation Kit	Natural
A-5149643		1			Blower Installation Kit	Turbocharged
A-5149645				1	Blower Installation Kit	Natural & turbocharged

LINER INSERTS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5148612	6	8	12	16	Liner Insert - .1188" - .1193" thick	
A-5148501	6	8	12	16	Liner Insert - .1200" - .1205" thick	
A-5148611	6	8	12	16	Liner Insert - .1212" - .1217" thick	
A-5101727	6	8	12	16	Liner Insert - .1362" - .1367" thick	

CRANKSHAFT ASSEMBLY

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-8926419	1				Crankshaft	RH engine rotation
A-8926425		1			Crankshaft	RH engine rotation

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FRONT CRANKSHAFT SEALS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5115454	1	1			Front Seal - Lip Type	
A-5114335			1	1	Front Seal - Lip Type &	
A-5197860			1	1	Front Seal - Lip Type #	
A-23514608	1	1			Front Seal - Teflon / Directional	RH engine rotation
A-23512609	1	1			Front Seal - Teflon / Directional	LH engine rotation
A-8927747			1	1	Front Seal - Teflon / Directional &	RH engine rotation
A-8927749			1	1	Front Seal - Teflon / Directional OS &	RH engine rotation use sleeve &
A-8927746			1	1	Front Seal - Teflon / Directional &	LH engine rotation
A-8927748			1	1	Front Seal - Teflon / Directional OS &	LH engine rotation use sleeve &
A-8927749			1	1	Front Seal - Teflon / Directional #	RH engine rotation
A-8927748			1	1	Front Seal - Teflon / Directional #	LH engine rotation
A-5198908			1	1	Front Sleeve #	
A-23507225			1	1	Front Sleeve &	
Note: # = For outboard front trunnion mount with bearing. & =For non-outboard trunnion units.						

REAR CRANKSHAFT SEALS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5194462	1	1	1	1	Rear Seal - Single Lip Type O/S	For dry hsg / use wear sleeve
A-5106329	1	1	1	1	Rear Seal - Double Lip Type STD	For wet hsg
A-5198159	1	1	1	1	Rear Seal - Double Lip Type O/S	For wet hsg / use wear sleeve
A-8926761	1	1	1	1	Rear Seal - Teflon / Directional STD	RH eng. rot. / dry hsg
A-23501544	1	1	1	1	Rear Seal - Teflon / Directional O/S	RH eng. rot. / dry hsg / use sleeve
A-23501610	1	1	1	1	Rear Seal - Teflon / Directional STD	LH eng. rot. / dry hsg
A-23501545	1	1	1	1	Rear Seal - Teflon / Directional O/S	LH eng. rot. / dry hsg / use sleeve
A-23507226	1	1	1	1	O/S Rear Seal Sleeve	

VIBRATION DAMPER

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-8922491		1			Damper - Viscous	12.3" OD
A-8920653			1		Damper - Viscous	13.5" OD
A-8924435				1	Damper - Viscous	18" OD
A-5102957		1			Front Cone - .937" L	
A-23506876		1			Rear Cone - 1.40" L	Grooved
A-5104475		1			Rear Cone - 1.70" L	Grooved
A-23507297		1			Rear Cone - 2.22" L	Grooved
A-23503769		1			Seal Ring	For grooved cones

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CYLINDER HEAD COMPONENTS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5149878		2		4	Cylinder Head	
A-5149877	2		4		Cylinder Head	
A-5149771	24	32	48	64	Valve Kit	With locks
A-5111337	48	64	96	128	Valve Lock	
A-5147347	24	32	48	64	Valve Spring	
A-5117563	24	32	48	64	Valve Spring Cap (retainer)	
A-5117562	24	32	48	64	Valve Spring Seat	
A-5129919	24	32	48	64	Valve Guide	
A-5129919+.002	24	32	48	64	Valve Guide	.002" OS OD
A-5129919+.005	24	32	48	64	Valve Guide	.005" OS OD
A-8921209	24	32	48	64	Valve Guide Seal	Steel with teflon lip
A-5148490	24	32	48	64	Valve Seat (Insert) STD	
A-5101315	24	32	48	64	Valve Seat (Insert) .010" OS	
A-5148491	12	16	24	32	Valve Bridge	
A-5129101	12	16	24	32	Valve Bridge Adjuster Screw	
A-5151601	12	16	24	32	Valve Bridge Lock Nut	
A-5117564	12	16	24	32	Valve Bridge Guide	
A-5117564.006	12	16	24	32	Valve Bridge Guide	.006" OS
A-5128640	18	24	36	48	Push Rod	
A-5151601	18	24	36	48	Push Rod Nut	
A-5108918	18	24	36	48	Push Rod Spring	.177" wire dia.
A-5150302	18	24	36	48	Push Rod Spring Seat - Upper	
A-5123250	18	24	36	48	Push Rod Spring Seat - Lower	
A-5150303	18	24	36	48	Push Rod Spring Retainer	
A-8924439	18	24	36	48	Follower Assembly	
A-8923814	18	24	36	48	Roller & Pin Set	
A-5106413	6	8	12	16	Follower Guide	
A-443603	12	16	24	32	Guide Bolt	
A-103319	12	16	24	32	Guide Bolt Washer	
A-8925981	6	8	12	16	Injector Tube Kit STD	With seal
A-8925981A	6	8	12	16	Injector Tube Kit OS	Thicker nose with seal
A-5172874	4	4	8	8	Water Nozzle Single Jet	
A-8922388	8	12	16	24	Water Nozzle Double Jet	
A-8923554	6	8	12	16	Rocker Arm - Injector	MCB4355 repair kit available
A-5148472	6	8	12	16	Rocker Arm Valve - Left	MCB7217 repair kit available
A-5148475	6	8	12	16	Rocker Arm Valve - Right	MCB7217 repair kit available
A-8924355	6	8	12	16	Injector Arm Bushing	Large
A-23517217	12	16	24	32	Valve Arm Bushing	Large
A-8924354	18	24	36	48	Injector & Valve Arm Bushing	Small
A-5123700	18	24	36	48	Inj. & Valve Arm Clevis Bushing	
A-5150314	18	24	36	48	Inj. & Valve Arm Clevis Pin	
A-23500714	6	8	12	16	Rocker Shaft	
A-5103903	12	16	24	32	Rocker Shaft Bracket (stand)	
A-5150325	12	16	24	32	Rocker Shaft Bracket Bolt	
A-23511850	6	8	12	16	Fuel Jumper Line - Short	
A-23511851	6	8	12	16	Fuel Jumper Line - Long	
A-5117369	12	16	24	32	Fuel Connector	
A-5125108	12	16	24	32	Fuel Connector Washer	
A-8925804	8	10	14	20	Exhaust Manifold Stud	
A-23505398	8	10	14	20	Exhaust Manifold Nut	
A-5104439	4	6	10	12	Exhaust Manifold Washer	
A-8927270	12	16	24	32	Water Manifold Stud	

92 SERIES

FUEL INJECTOR & MOUNTING

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
Refer to the INTERSTATE-McBEE FUEL INJECTION CATALOG for DETROIT DIESEL® for a complete listing of injector assemblies and components.						
A-23511850	6	8	12	16	Fuel Jumper Line - Short	For offset body injectors
A-23511851	6	8	12	16	Fuel Jumper Line - Long	For offset body injectors
A-23511853	6	8			Fuel Jumper Line - Short "JAKE"	
A-23511854	6	8			Fuel Jumper Line - Long "JAKE"	
A-5117369	12	16	24	32	Fuel Connector	
A-5125108	12	16	24	32	Fuel Connector Washer	
A-5121259	6	8	12	16	Injector Clamp	For offset body injectors
A-5150250	6	8	12	16	Injector Clamp Washer	

FUEL PUMP

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5199560	1	1	1	1	Fuel Pump Assembly	LH standard capacity
R-5199560	1	1	1	1	Fuel Pump Assembly - Rebuilt	LH standard capacity
A-5199735	1	1	1	1	Fuel Pump Assembly	LH high capacity
R-5199735	1	1	1	1	Fuel Pump Assembly - Rebuilt	LH high capacity
A-5195078	1	1	1	1	Fuel Pump Repair Kit	For standard capacity
A-5149599	1	1	1	1	Fuel Pump Repair Kit	For high capacity
A-5102257	1	1	1	1	Fuel Pump Drive Fork	
A-5150193	1	1	1	1	Fuel Pump Mounting Gasket	
A-5110760	1	1	1	1	Fuel Primer Hand Pump	

SHUTDOWN CONTROL

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-23504196	1	1	1	1	Shutdown Solenoid - 12V	
A-23504197	1	1	1	1	Shutdown Solenoid - 24V	

GOVERNOR COMPONENTS

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-IDS29397	1	1	1	1	Governor Repair Kit - Double Weight	For mechanical limiting unit
A-IDS02825	1	1	1	1	Governor Repair Kit - Single Weight	For mechanical limiting unit
A-8924869	1	1	1	1	Cover Gasket	Cover to governor housing
A-9431896	1	1	1	1	Bearing	Operating shaft upper
A-9436682	1	1	1	1	Bearing	Operating shaft lower
A-116337	1	1	1	1	Expansion Plug - 11/16"	Under lower bearing
A-5165221	1	1	1	1	Gasket	Weight shaft cap
A-9424121	1	1	1	1	Bearing	For weight shaft
A-9437108	1	1	1	1	Riser Bearing	
A-5147910	1	1	1	1	Riser - .865"L	
A-8924266	1	1	1	1	Governor Mounting Gasket	Governor to blower
A-8922593	1	1	1	1	Spring Housing Gasket	
A-5117952	1	1	1	1	Buffer Screw	
A-5174286	1	1	1	1	Buffer Screw Nut	
A-8924267	2	2	2	4	Control Link Hose - 13/16"L	Governor to head adaptor
A-5104556				1	Control Link Hose - .56"L	
A-5104592	4	4	4	8	Hose Clamp	

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BLOWER & BLOWER DRIVE

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-23514202	1	1	2	2	Blower Repair Kit	
A-8924453	4	4	8	8	End Plate Seal - OS	
A-5192439	4	4	8	8	Rotor Shaft Sleeve	
A-23500533	1	1	2	2	Blower Seal Kit	
A-5149646	1		2		Blower Installation Kit	Natural
A-5149641	1		2		Blower Installation Kit	Turbocharged
A-5149644		1			Blower Installation Kit	Natural
A-5149643		1			Blower Installation Kit	Turbocharged
A-5149645				1	Blower Installation Kit	All
A-8922666	1		2		Blower Drive Shaft - 29T - w/spring	4.89"L / .790" dia / TD / nitrided
A-8923052	1		2		Blower Drive Shaft - 48T - w/spring	4.89"L / .790" dia / TD / nitrided
A-8923053		1		2	Blower Drive Shaft - 48T - w/spring	6.67"L / .790" dia / TD / nitrided
A-8922634		1		2	Blower Drive Shaft - 29T - w/spring	6.67"L / .790" dia / TD / nitrided
A-5103377	1	1	1	2	Drive Coupling	48-teeth on blower gear
A-5103365	1	1	1	2	--Cam	
A-5196314	1	1	1	2	--Spring Pack	
A-23503682	1	1	1	2	Drive Coupling	29-teeth on blower gear
A-5141473	1	1	1	2	Drive Coupling - Spring Plate Type	48-teeth on blower gear
A-8922517	1	1	1	2	Drive Coupling - Spring Plate Type	29-teeth on blower gear
A-8920765	2	2	2	4	Coupling Spring Plate	
A-5122914	1	1	1	2	Drive Hub	48-teeth
A-5123081	1	1	1	2	Drive Hub w/ Accessory Drive Lugs	48-teeth
A-8922518	1	1	1	2	Drive Hub	29-teeth
A-8922519	1	1	1	2	Drive Hub w/ Accessory Drive Lugs	29-teeth
A-8920764	2	2	2	4	Hub Spring Plate	
A-5139545	1	1	1	1	Accessory Drive Coupling	

TURBOCHARGER & AFTERCOOLER MOUNTING

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5103394	1	1	AR	AR	Mounting Gasket	TO4 model turbo
A-8929529	1	1	AR	AR	Mounting Gasket	T18A & TV6/7 model turbo
A-9411981	4	4	AR	AR	Lock Nut 3/8-24	
A-5170466	1	1	AR	AR	Oil Inlet Gasket	
A-5170468	1	1	AR	AR	Oil Drain Gasket	
A-5147911	2	2	AR	AR	Air Outlet Hose Clamp	3.5" dia
A-5147912	2	2	AR	AR	Air Outlet Hose Clamp	3.375" dia
A-5162888	1	1	AR	AR	Air Outlet Hose	3.5"ID x 2.25"L
A-8926957	1	1	AR	AR	Air Outlet Hose	4"ID x 2.375"L
A-5101138	4	4	8	8	Aftercooler Seal Ring	
A-5137620	AR	AR	AR	AR	Exhaust Tube Clamp (marmon)	3.82" dia
A-5146165	AR	AR	AR	AR	Exhaust Tube Clamp (marmon)	3.88" dia
A-5137619	AR	AR	AR	AR	Exhaust Tube Clamp (marmon)	4.50" dia
A-5132650	AR	AR	AR	AR	Exhaust Tube Clamp (marmon)	5.25" dia

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OIL PUMP

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5196602	1	1			Gear Set	1.302" width gears
A-8927135	1	1			Drive Gear - 37 teeth	
A-8928545	1	1			Key 3/16 x 7/8	

OIL RELIEF & REGULATOR

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-8922740	2	2	2	3	Valve	
A-5126327	2	2	2	3	Spring - 2.96"L	
A-5126326				1	Spring - 2.57"L	

OIL FILLER & DIPSTICK

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5117362	1	1	AR	AR	Filler Cap - 2" diameter	Expansion rubber type
A-5146679	1	1	1	1	Dipstick - Universal Unmarked	61"L expansion type
A-5146680	1	1	1	1	Dipstick - Universal Unmarked	72"L cane handle type

OIL COOLER

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-8547195	AR	AR			Cooler Core - 18-plate	Single stack
A-8547236	AR				Cooler Core - 13-plate	Single stack
A-8547237	AR	AR	AR	AR	Cooler Core - 24-plate	Double stack
A-8547547	AR	AR			Cooler Core - 16-plate	Single stack
A-8547552			AR	AR	Cooler Core - 32-plate	Double stack
A-8547554			AR		Cooler Core - 12-plate	Single stack / double base
A-8547561		AR	AR		Cooler Core - 24-plate	12-engine & 12-marine gear

WATER PUMP

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-23506852	1	1			Rebuild Kit	
A-23506871			1	1	Rebuild Kit	
A-23505995	1	1			Impeller	
A-23506000			1		Impeller	
A-23506002				1	Impeller	
A-23522434	1	1	1	1	Unitized Seal	
A-23506053	1	1	1	1	Shaft	
A-23503687	1	1	1	1	Bearing Inner	
A-23503649	1	1	1	1	Bearing Outer	
A-23501819	1	1	1	1	Oil Seal	
A-221436	1	1	1	1	Flatwasher	
A-274746	1	1	1	1	Lock Ring	
A-5117972	1	1	1	1	Lock Nut	
A-5117975	1	1	1	1	Cover Gasket	
A-5117976			1		Cover Gasket	
A-23505239				1	Cover Gasket	
A-5103544	1	1	1		Mounting Seal Ring	
A-5109515				1	Mounting Gasket	

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THERMOSTAT

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5102112	2	2	4	4	Thermostat 160° F	Full blocking / use seal
A-23503826	2	2	4	4	Thermostat 170° F	Full blocking / use seal
A-23503825	2	2	4	4	Thermostat 180° F	Full blocking / use seal
A-5132155	2	2	4	4	Seal	Use with full blocking

RAW WATER PUMP & HEAT EXCHANGER

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5197222	1	1	1	1	Reconditioning Kit	Pumps #5122599,#23507972
A-5196846	1	1	1	1	Impeller Replacement Kit	Impeller #8924839
A-5197224	1	1	1	1	Reconditioning Kit	Pumps #5115396,#23507971
A-5194860	1	1	1	1	Impeller Replacement Kit	Impeller #8924839
A-8517479	2	2	2	2	Electrode Assembly - 2 1/8" L	At pump inlet & exchanger
A-8515850	2	2	2	2	Electrode Assembly - 3 3/8" L	In exchanger

AIR COMPRESSOR DRIVE

PART #	6V	8V	12V	16V	DESCRIPTION	NOTE
A-5170450	1	1	1	1	Drive Plate	On drive gear
A-5141773	1	1	1	1	Coupling	
A-5144866	1	1	1	1	Hub	On compressor

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GASKET LISTING

DESCRIPTION	NOTE	PART#	6V	8V	12V	16V
Aftercooler Seal Ring		A-5101138	4	4	8	8
Air Box Cover Gasket	Small cover	A-8923792	2	4	8	8
Air Box Cover Gasket	Large cover	A-8923791	2	2	2	4
Air Inlet Housing Gasket	To blower with screen	A-5103515	1		2	
Air Inlet Housing Gasket	To blower with screen	A-5103602		1		2
Air Inlet Housing Gasket	To blower no screen	A-5102062		1		2
Air Inlet Housing Gasket	To blower with screen	A-5103601				
Air Inlet Housing Rectangular Seal	On top of blower	A-5104978	1	1		
Air Inlet Housing Seal	On top of blower	A-5101419	2	2		
Exhaust Manifold Gasket	Metal clad	A-5122866	2			
Exhaust Manifold Gasket	Metal clad	A-5120224		4	4	8
Exhaust Manifold Gasket	Metal clad	A-5120223			2	
Exhaust Manifold Gasket	Metal clad 6 bolt hole	A-8925587			2	
Flywheel Housing Cover Gasket	Large hole	A-23515145	2	2	3	3
Flywheel Housing Cover Gasket	Small hole (star)	A-5104507	4	4	5	5
Flywheel Housing Gasket		A-5144875	1	1	1	1
Front Cover Gasket	Upper	A-5123638	1	1		
Front Cover Gasket	Lower	A-5121714	1	1		
Front Gear Housing Gasket		A-5144875			1	1
Fuel Pump Mounting Gasket		A-5150193	1	1	1	1
Governor Cover Gasket	Mechanical governor	A-8924869	1	1	1	1
Oil Pan Gasket		A-23503588	1			
Oil Pan Gasket		A-5117231		1		
Oil Pan Gasket	Sub pan to block	A-8920608			1	
Oil Pan Gasket - Lower	Sump to sub pan	A-5125635			1	
Oil Pan Sump Gasket	Round steel sump cover	A-5124796			1	
Oil Pan Gasket Kit	Sub pan to block	A-5126562				1
Oil Pan Gasket - Lower	Front sump to sub pan	A-5150115				2
Oil Pan Gasket - Lower	Rear sump to sub pan	A-5150116				2
Oil Pickup Tube Gasket		A-5117242	1	1		
Oil Pickup Tube Gasket		A-5123241			1	
Oil Regulator & Relief Gasket		A-5117269	2	2	2	2
Oil Regulator & Relief Gasket		A-29503153			1	1
Rocker Cover Gasket - Neoprene	For steel cover	A-5143405	2			
Rocker Cover Gasket - Neoprene	For steel cover	A-5143406		2		4
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-5104018	2		4	
Rocker Cover Gasket - Silicone	For cast aluminum cover	A-5104081		2		4
Rocker Cover Isolator	For cast aluminum cover	A-5104515	4	4	8	8
Starter Gasket	For wet housings	A-5130995	1	1	1	1
Thermostat Housing Cover Gasket		A-5117786	2	2		
Thermostat Housing Cover Gasket	Rapid warm housing	A-5133450	2	2		
Thermostat Housing Cover Gasket		A-5175989			2	2
Turbocharger Mounting Gasket	TO4 model turbo	A-5103394			AR	AR
Turbocharger Mounting Gasket	TV model turbo	A-8929529	1	1	AR	AR
Turbocharger Oil Gasket	Supply	A-5170466	1	1	AR	AR
Turbocharger Oil Gasket	Drain TO4 model turbo	A-5138977	1	1	AR	AR
Turbocharger Oil Gasket	Drain TV model turbo	A-5170468	1	1	AR	AR

92 SERIES
CYLINDER KIT
COMPONENTS

CYLINDER KIT	LINERLESS KIT	LINER	PORT	LINER SEAL	PISTON	SKIRT	RING SET	PIN	RETAINER	SLIPPER	PISTON SEAL
A-23524337	A-LCK24337	A-23507231	.95"	(2) A-8927189	A-23504353 (15:1)	A-23508986	A-23524349	A-5101120	(2) A-5180250	A-23501687	A-8923729
A-23524339	A-LCK4341	A-5148505	1.05"	(2) A-8927189	A-5144872 (17:1)	A-23508986	A-23524349	A-5101120	(2) A-5180250	A-23501687	A-8923729
A-23524340	A-LCK4341	A-23507231	.95"	(2) A-8927189	A-5144872 (17:1)	A-23508986	A-23524349	A-5101120	(2) A-5180250	A-23501687	A-8923729
A-23524341	A-LCK4341	A-5107176	.95"	(2) A-8927189	A-5144872 (17:1)	A-23508986	A-23524349	A-5101120	(2) A-5180250	A-23501687	A-8923729
A-23524342	A-LCK4342	A-23507231	.95"	(2) A-8927189	A-5144872 (17:1)	A-23508986	A-23524542	A-5101120	(2) A-5180250	A-23501687	A-8923729
A-23524343	A-LCK4342	A-23508383	.85"	(2) A-8927189	A-5144872 (17:1)	A-23508986	A-23524542	A-5101120	(2) A-5180250	A-23501687	A-8923729
A-23524344	A-LCK4344	A-23508383	.85"	(2) A-8927189	A-8926480 (18:1)	A-23508986	A-23524542	A-5101120	(2) A-5180250	A-23501687	A-8923729
A-23524345	A-LCK4345	A-5148505	1.05"	(2) A-8927189	A-8926480 (18:1)	A-23508986	A-23524349	A-5101120	(2) A-5180250	A-23501687	A-8923729
A-23524346	A-LCK4345	A-5107176	.95"	(2) A-8927189	A-8926480 (18:1)	A-23508986	A-23524349	A-5101120	(2) A-5180250	A-23501687	A-8923729

CONNECTING ROD HARDWARE

QTY.	PART #	DESCRIPTION
2	A-5148373	Pin Bolt
2	A-5144846	Pin Bolt Spacer
2	A-5132383	Rod Cap Bolt
2	A-5117629	Rod Cap Bolt Nut

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149 SERIES

CYLINDER COMPONENTS

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-23502388	8	12	16	Piston Crown	16:1 wide fire ring
A-23502389	8	12	16	Piston Crown	15:1 narrow fire ring
A-23502390	8	12	16	Piston Crown	16:1 narrow fire ring
A-23502671	8	12	16	Piston Crown	17:1 narrow fire ring
A-23502672	8	12	16	Piston Crown	17:1 wide fire ring
A-8928932	8	12	16	Ring Set - T / TI - Low Sulfur	Narrow fire ring
A-23522936	8	12	16	Ring Set - Natural 17:1 - Low Sulfur	Narrow fire ring
A-23501524	8	12	16	Ring Set - T / TI - High Sulfur	Wide fire ring
A-23522937	8	12	16	Ring Set - Natural 17:1 - High Sulfur	Wide fire ring
A-5138135	8	12	16	Liner STD	1.15" port
A-5149060	AR	AR	AR	Liner .002" OS	1.15" port
A-23502356	8	12	16	Liner STD	.85" port
A-23523189	8	12	16	Cylinder Installation Kit	
A-5144912	8	12	16	Piston Skirt	
A-8924099	8	12	16	Crown Seal	
A-8926002	8	12	16	Piston Pin	
A-5101323	16	24	32	Piston Pin Retainer	
A-23520852	8	12	16	Slipper Bearing	
A-5101198	16	24	32	Liner Seal Ring	
A-23504149	16	24	32	Pin Bolt	
A-5141126	16	24	32	Pin Bolt Spacer	

ENGINE BEARINGS

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-5198547	8	12	16	Rod Bearing - STD	
A-5199105	8	12	16	Rod Bearing - .010"	
A-5199106	8	12	16	Rod Bearing - .020"	
A-5199107	8	12	16	Rod Bearing - .030"	
A-5149096	4	6	8	Main Bearing - Narrow STD	
A-5198615	1	2	2	Main Bearing - Wide STD	
A-5149111	4	6	8	Main Bearing - Narrow .010"	
A-5199110	1	2	2	Main Bearing - Wide .010"	
A-5149113	4	6	8	Main Bearing - Narrow .020"	
A-5199112	1	2	2	Main Bearing - Wide .020"	
A-5149115	4	6	8	Main Bearing - Narrow .030"	
A-5199114	1	2	2	Main Bearing - Wide .030"	
A-5138992	4	4	4	Thrust Washer	
A-141359	4	4	4	Thrust Washer Pin	
A-5140203	32	48	64	Cam Bearing	
A-9424926	2	2	2	Cam Gear Bearing	
A-9424929	3	3	3	Idle Gear Bearing	
A-5139143	2	2	2	Blower Drive Bushing	

149 SERIES

GASKET SETS

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-23516642	1			Overhaul Gasket Set	Complete w/ tube style head sets
A-23516494		1		Overhaul Gasket Set	Minus head sets
A-23516494CO		1		Overhaul Gasket Set	Complete w/ tube style head sets
A-23516493			1	Overhaul Gasket Set	Minus head sets
A-23516493CO			1	Overhaul Gasket Set	Complete w/ tube style head sets
A-5149597	8	12	16	Head Set	Tube & ferrule style
A-23522737	8	12	16	Head Set	Integral seal STD
MCB149HBK	8	12	16	Head Bolt Kit	Bolts & washers for one head
A-23500485	1			Blower Installation Kit	
A-5199524		2		Blower Installation Kit	
A-5199526			2	Blower Installation Kit	

CYLINDER HEAD COMPONENTS

3/8" VALVE STEM WITH ADJUSTABLE BRIDGE

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-8921205	32	48	64	Valve Kit	Valve and locks "J6"
A-8928729	32	48	64	Valve & Cap Kit	Valve, spring cap & locks "U"
A-8926328	32	48	64	Valve & Cap Kit	Valve, spring cap & locks "J6"
A-23505104	32	48	64	Valve Guide	
A-5144008	32	48	64	Valve Stem Seal	
A-5139982	32	48	64	Valve Seat - STD	
A-8924798	AR	AR	AR	Valve Seat - .010" OS	
A-23512120	32	48	64	Valve Spring	
A-8925202	32	48	64	Valve Spring Cap	
A-8925203	64	96	128	Valve Locks	
A-5199528	8	12	16	Injector Tube Kit	
A-5138378	8	12	16	Injector Rocker Arm Roller	
A-5138656	8	12	16	Injector Rocker Arm Pin	
A-5138644	8	12	16	Injector Rocker Arm Bushing	
A-5138651	16	24	32	Valve Rocker Arm Roller	
A-5138513	16	24	32	Valve Rocker Arm Pin	
A-5138370	16	24	32	Valve Rocker Arm Bushing	
A-5138643	24	36	48	Rocker Arm Button	
A-8929607	24	36	48	Rocker Arm Adjuster Screw	
A-5176830	24	36	48	Adjuster Screw Jam Nut	3/8-24
A-5104243	12	24	32	Bridge	
A-5129101	12	24	32	Bridge Adj. Screw	5/16-24x1.00"
A-5151601	12	24	32	Jam Nut	5/16-24
MCB149HBK	8	12	16	Head Bolt Kit	Bolts & washers for one head
A-23516958	2	3	4	Head Bolt Kit 4 Heads	

149 SERIES

ROCKER COVER MOUNTING

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-23507345	2		4	Rocker Cover Gasket	
A-23507344		4		Rocker Cover Gasket	
A-23508779	2		4	Rocker Cover Seal	
A-23508780		4		Rocker Cover Seal	
A-5104015	8	16	16	Rocker Cover Hold Down Bolt	
A-8929255	8	16	16	Rocker Cover Isolator	
A-5104514	8	16	16	Rocker Cover Isolator Washer	

CRANKSHAFT SEALS

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-23505760	1	1	1	Seal Directional w/Dust Lip	Front R.H. rotation engines
A-23507976	1	1	1	Seal Directional	Rear R.H. rotation engines
A-23507976	1	1	1	Seal Directional	Front L.H. rotation engines
A-23505760	1	1	1	Seal Directional w/Dust Lip	Rear L.H. rotation engines
A-23501875	1	1	1	Rear Seal Lip Type	Use with A-5198553 sleeve
A-5198553	1	1	1	Rear Sleeve	

BLOWER

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-23509236	1	2	2	Blower Repair Kit	
A-23509313	2	2	2	Seal Kit	
A-5139043	1		1	Drive Shaft - Rear	9.90"L
A-5138959		1			10.70"L

THERMOSTAT

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-23503827	6	6	6	Thermostat 160° F	Full blocking / use seal
A-23503826	6	6	6	Thermostat 170° F	Full blocking / use seal
A-5132155	6	6	6	Seal	Use with full blocking
A-5139501	2	2	2	Thermostat Housing Gasket	

SIDE ACCESS GASKETS

PART #	8V	12V	16V	DESCRIPTION	NOTE
A-8927618	6	8	12	Block Hand Hole Gasket	
A-23506132	4	4	8	Block Water Cover Gasket	
A-8927620	4	12	8	Oil Pan Hand Hole Gasket	Single
A-8927619	2		4	Oil Pan Hand Hole Gasket	Double

INTERSTATE-MCBEE, LLC LIMITED EXTENDED WARRANTY

COVERAGE

• Engine Parts – U.S.A. and Canada

Diesel Engine

New engine parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service for a period of twenty-four (24) months from the date of installation, without mileage or hour limitation. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

Natural Gas or Methane Engine and Prime Power Generation

New engine parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service, for a period of twelve (12) months from the date of installation. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

Castings

Cylinder head and cylinder block castings are warranted for 12 months from date of installation; part replacement only, no progressive damage, no labor.

Fuel Injection parts and countries not included here-in are covered under a separate warranty titled "Interstate-McBee, LLC LIMITED General Products warranty." This warranty does not apply to parts provided by Interstate-McBee on a no-charge basis. In no event shall this warranty extend beyond thirty (30) months from date of sale or manufacture.

INTERSTATE-MCBEE RESPONSIBILITIES

Interstate-McBee will pay only for parts and labor needed to repair damages directly resulting from an above defined warranty failure to the functional condition existing immediately prior to the failure, including progressive damage to the engine in which the warrantable part was installed, provided Interstate-McBee's inspection of said failed part or parts discloses to our satisfaction to have been defective. Labor cost will be paid in accordance with published labor rates, but not to exceed reasonable flat rates times nor Interstate McBee's standard hourly rate. No overtime or holiday rates will be allowed. Only new or rebuilt Interstate-McBee or Interstate-McBee approved parts will be used in making the repair.

OWNER'S RESPONSIBILITIES

Owner is responsible for the operation and maintenance of the engine as specified in the APPLICABLE O.E.M. OPERATION AND MAINTENANCE MANUALS. Owner must give notice within (30) days of any suspected failure and before expiration of applicable warranty to be considered warrantable. Owner will provide alleged defective and associated parts for examination by Interstate-McBee and, if requested, return same F.O.B. Cleveland, Ohio. Interstate-McBee further reserves the right to examine any engine subject to a claim under this warranty. Approved warranty work is to be performed by an authorized Interstate-McBee Distributor or Dealer or other Interstate-McBee approved facility. Owner is responsible for all costs, including, but not limited to, repairs made to items other than the engine in which the parts are installed, "downtime" expenses and all business costs and losses resulting from a warrantable failure. OWNER MUST GET AUTHORIZATION FROM INTERSTATE-MCBEE'S WARRANTY ADMINISTRATOR (ALONG WITH A RETURN MATERIAL AUTHORIZATION FORM) PRIOR TO FILING A WARRANTY CLAIM WITHIN SAID WARRANTY PERIOD

WARRANTY LIMITATIONS

Interstate-McBee is not responsible for failure resulting from owner or operator abuse or neglect, such as, but not limited to: operation without adequate coolant, fuel or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, coolant or air intake systems; improper storage, starting, warm-up, run-in or shut down practices. Interstate-McBee is not responsible for failures resulting from improper repair or installation, for parts that have been altered or for parts not approved by Interstate-McBee. This warranty does not apply to parts furnished on a no charge basis. Interstate-McBee does not warrant parts supplied by Interstate-McBee which bear the name and or trademark of another company. These parts are warranted by their manufacturers and not by Interstate-McBee. In no event shall this warranty extend beyond (30) months from the date of sale. THERE ARE NO WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, FOR THE PARTS NAMED HEREIN BEFORE, MADE BY INTERSTATE-MCBEE OTHER THAN SET FORTH HEREIN. We neither assume nor authorize any other persons to assume for us any other liability in connection with our products. INTERSTATE-MCBEE SHALL NOT BE RESPONSIBLE FOR ANY OTHER CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. Further, in no event shall Interstate-McBee bear any responsibility for any damages, which exceed the then available aggregate coverage provided under the terms and conditions of its product liability policy. Fuel Injection parts and countries not included here-in are covered under a separate warranty titled "Interstate-McBee, LLC LIMITED General Products warranty."

This warranty for the U.S.A. & Canada shall be interpreted, governed and enforced in accordance with the laws of the State of Ohio, U.S.A. (For products not covered herein, see Interstate-McBee's General Product Warranty.) Any actions or proceedings relating to this warranty must be filed or commenced within three (3) months of the alleged breach. If any of these warranty provisions or portions thereof prohibited by law or by any court of competent jurisdiction, in any locality, its invalidity or unenforceability shall not affect the validity or enforceability of any other warranty provisions or portions thereof. This warranty applies to parts sold by Interstate-McBee on or after August 2007.

INTERSTATE-MCBEE, LLC LIMITED GENERAL PRODUCTS WARRANTY

- **Export & Remanufactured Engine Parts**
- **All Fuel Injection, New & Remanufactured**

COVERAGE

The parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service for a period of twelve (12) months, 100,000 miles or 2,000 hours of operation, whichever comes first, from date of first installation in an engine. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

This warranty does not apply to parts provided by Interstate-McBee on a no-charge basis. In no event shall this warranty extend beyond eighteen (18) months from date of sale or manufacture.

INTERSTATE-MCBEE RESPONSIBILITIES

The obligation of Interstate-McBee under this warranty, statutory or otherwise, is limited to the replacement or repair of Interstate-McBee parts, which our inspection discloses to our satisfaction to have been defective. Repair will be performed at our factory in Cleveland, OH or other Interstate-McBee approved facility. Proof of purchase is required.

OWNER'S RESPONSIBILITIES

Owner is responsible for the operation and maintenance of the engine as specified in the APPLICABLE O.E.M. OPERATION AND MAINTENANCE MANUALS. Owner must give notice within (30) days of any suspected failure and before expiration of applicable warranty to be considered warrantable. Owner will provide alleged defective and associated parts for examination by Interstate-McBee and, if requested, return same F.O.B. Cleveland, Ohio. Interstate-McBee further reserves the right to examine any engine subject to a claim under this warranty. Owner is responsible for all costs, including, but not limited to, repairs made to items other than the engine in which the parts are installed, "downtime" expenses and all business costs and losses resulting from a warrantable failure. OWNER MUST GET AUTHORIZATION FROM INTERSTATE-MCBEE'S WARRANTY ADMINISTRATOR (ALONG WITH A RETURN MATERIAL AUTHORIZATION FORM) PRIOR TO FILING A WARRANTY CLAIM WITHIN SAID WARRANTY PERIOD

WARRANTY LIMITATIONS

Interstate-McBee is not responsible for failure resulting from owner or operator abuse or neglect, such as, but not limited to: operation without adequate coolant, fuel or lubricants; overfueling*; overspeeding; lack of maintenance of lubricating, coolant or air intake systems; improper storage, starting, warm-up, run-in or shut down practices. Interstate-McBee is not responsible for failures resulting from improper repair or installation, for parts that have been altered or for parts not approved by Interstate-McBee. This warranty does not apply to parts furnished on a no charge basis. Interstate-McBee does not warrant parts supplied by Interstate-McBee which bear the name and or trademark of another company. These parts are warranted by their manufacturers and not by Interstate-McBee. In no event shall this warranty extend beyond eighteen (18) months from the date of sale. THERE ARE NO WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, FOR THE PARTS NAMED HEREIN BEFORE, MADE BY INTERSTATE-MCBEE OTHER THAN SET FORTH HEREIN. We neither assume nor authorize any other persons to assume for us any other liability in connection with our products. INTERSTATE-MCBEE SHALL NOT BE RESPONSIBLE FOR ANY OTHER CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. Further, in no event shall Interstate-McBee bear any responsibility for any damages, which exceed the then available aggregate coverage provided under the terms and conditions of its product liability policy.

*covered on fuel injection products

This warranty shall be interpreted, governed and enforced in accordance with the laws of the State of Ohio, U.S.A. (For products not covered herein, see Interstate-McBee's Extended Warranty). Any actions or proceedings relating to this warranty must be filed or commenced within three (3) months of the alleged breach. If any of these warranty provisions or portions thereof is prohibited by law or by any court of competent jurisdiction, in any locality, its invalidity or unenforceability shall not affect the validity or the enforceability of any other warranty provisions or portions thereof.

This warranty applies to parts sold by Interstate on or after August, 2007.

U.S.A. Presidential Award



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New and Remanufactured Replacement Parts for DETROIT DIESEL® 50/60 SERIES ENGINES



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60 SERIES

ENGINE KIT MATRIX

11.1L & 12.7L OEM Style Kits						
Cylinder Kit		Basis O/H		Bearing Kit		Bearing Kit
A-23532555	use	A-23532565	+	A-23531604	or	A-23531605
A-23532556	use	A-23532581	+	A-23531604	or	A-23531605
A-23532557	use	A-23532585	+	A-23531604	or	A-23531605
A-23532558	use	A-23533033	+	A-23531605		
A-23532561	use	A-23532574	+	A-23531606		
A-23532562	use	A-23532577	+	A-23531606		
A-23532590	use	A-23532592	+	A-23531604		
A-23532591	use	A-23532593	+	A-23531604		

Serial #		Bearing Kit
11.1L ≤6R184522	use	A-23531604
12.7L ≤6R188251	use	A-23531604
11.1L ≤6R184523	use	A-23531605
12.7L ≤6R188252	use	A-23531605

14L OEM Style Kits								
Cylinder Kit		Basis O/H		Bearing Kit		Bearing Kit		Bearing Kit
A-23530663	use	A-23532307	+	A-23527914	or	A-23535280		
A-23530665	use	A-23537081	+	A-23527914	or	A-23535280	or	A-23533692

50/60 SERIES

S60 IN-FRAME KITS

A-MCIFS60	Without cast iron crown & skirt / with wide bearings
A-MCIFS60-4	Without articulated steel crown & aluminum skirt
A-MCIFS60-4S	Without articulated steel crown / with aluminum skirt
MCIFS60-5	DDEC V No pistons / Must have 23533282 piston
A-MCIF23532555N (Narrow Bearings)	TLC Cast iron 15:1 pistons with 2.5mm fire ring with narrow bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251
A-MCIF23532555	TLC Cast iron 15:1 pistons with 2.5mm fire ring with wide bearings 11.1L ESN 184523 to MY2000 12.7L ESN 188252 to MY2000
A-MCIF23532555NQ (Narrow Bearings)	TLC Cast iron 15:1 pistons with 2.5mm fire ring with narrow bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532555Q	TLC Cast iron 15:1 pistons with 2.5mm fire ring with wide bearings 11.1L ESN 184523 to MY2000 12.7L ESN 188252 to MY2000 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532556N (Narrow Bearings)	TLC Cast iron 15:1 pistons with 3.5mm fire ring with narrow bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251
A-MCIF23532556	TLC Cast iron 15:1 pistons with 3.5mm fire ring with wide bearings 11.1L ESN 184523 to MY2000 12.7L ESN 188252 to MY2000
A-MCIF23532556NQ (Narrow Bearings)	TLC Cast iron 15:1 pistons with 3.5mm fire ring with narrow bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532556Q	TLC Cast iron 15:1 pistons with 3.5mm fire ring with wide bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532557	TLC Cast iron 15:1 elliptical dome pistons with 2.5mm fire ring with wide bearings
A-MCIF23532557Q	TLC Cast iron 15:1 elliptical dome pistons with 2.5mm fire ring with wide bearings Includes cam bearings, head bolts and injector installation kits
A-MCIF23532561	Articulated steel 15:1 pistons 2.5mm fire ring & heavy pin MY1998
A-MCIF23532561Q	Articulated steel 15:1 pistons 2.5mm fire ring & heavy pin MY1998 Includes cam bearings, head bolts and injector installation kits.
A-MCIF23532562	Articulated steel 16.5:1 pistons 2.5mm fire ring & heavy pin MY1999 -2003
A-MCIF23532562Q	Articulated steel 16.5:1 pistons 2.5mm fire ring & heavy pin MY1999 -2003 Includes cam bearings, head bolts and injector installation kits.

50/60 SERIES

S60 OVERHAUL KITS

A-MCOHS60	Without cast iron crown & skirt / with wide bearings
A-MCOH23532555N (Narrow Bearings)	TLC Cast iron 15:1 pistons with 2.5mm fire ring with narrow bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251
A-MCOH23532555	TLC Cast iron 15:1 pistons with 2.5mm fire ring with wide bearings 11.1L ESN 184523 to MY2000 12.7L ESN 188252 to MY2000
A-MCOH23532555NQ (Narrow Bearings)	TLC Cast iron 15:1 pistons with 2.5mm fire ring with narrow bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532555Q	TLC Cast iron 15:1 pistons with 2.5mm fire ring with wide bearings 11.1L ESN 184523 to MY2000 12.7L ESN 188252 to MY2000 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532556N (Narrow Bearings)	TLC Cast iron 15:1 pistons with 3.5mm fire ring with narrow bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251
A-MCOH23532556	TLC Cast iron 15:1 pistons with 3.5mm fire ring with wide bearings 11.1L ESN 184523 to MY2000 12.7L ESN 188252 to MY2000
A-MCOH23532556NQ (Narrow Bearings)	TLC Cast iron 15:1 pistons with 3.5mm fire ring with narrow bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532556Q	TLC Cast iron 15:1 pistons with 3.5mm fire ring with wide bearings 11.1L ESN 151000 approx. to 184522 12.7L ESN 151000 approx. to 188251 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532557	TLC Cast iron 15:1 elliptical dome pistons with 2.5mm fire ring with wide bearings
A-MCOH23532557Q	TLC Cast iron 15:1 elliptical dome pistons with 2.5mm fire ring with wide bearings Includes cam bearings, head bolts and injector installation kits
A-MCOH23532561	Articulated steel 15:1 pistons 2.5mm fire ring & heavy pin MY1998
A-MCOH23532561Q	Articulated steel 15:1 pistons 2.5mm fire ring & heavy pin MY1998 Includes cam bearings, head bolts and injector installation kits.
A-MCOH23532562	Articulated steel 16.5:1 pistons 2.5mm fire ring & heavy pin MY1999 -2003
A-MCOH23532562Q	Articulated steel 16.5:1 pistons 2.5mm fire ring & heavy pin MY1999 -2003 Includes cam bearings, head bolts and injector installation kits.

50/60 SERIES

S50 IN-FRAME KITS

A-MCIFS50	Without cast iron crown & skirt / with wide bearings
A-MCIFS50-4	Without articulated steel crown & aluminum skirt
A-MCIFS50-4S	Without articulated steel crown / with aluminum skirt
A-MCIF23532555N-50 (Narrow Bearings)	TLC Cast iron 15:1 pistons with 2.5mm fire ring with narrow bearings ESN $\leq$ 6664
A-MCIF23532555-50	TLC Cast iron 15:1 pistons with 2.5mm fire ring with wide bearings ESN $\geq$ 6665
A-MCIF23532555NQ-50 (Narrow Bearings)	TLC Cast iron 15:1 pistons with 2.5mm fire ring with narrow bearings ESN $\leq$ 4664 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532555Q-50	TLC Cast iron 15:1 pistons with 2.5mm fire ring with wide bearings ESN $\geq$ 4665 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532556N-50 (Narrow Bearings)	TLC Cast iron 15:1 pistons with 3.5mm fire ring with narrow bearings ESN $\leq$ 6664
A-MCIF23532556-50	TLC Cast iron 15:1 pistons with 3.5mm fire ring with wide bearings ESN $\geq$ 6665
A-MCIF23532556NQ-50 (Narrow Bearings)	TLC Cast iron 15:1 pistons with 3.5mm fire ring with narrow bearings ESN $\leq$ 4664 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532556Q-50	TLC Cast iron 15:1 pistons with 3.5mm fire ring with wide bearings ESN $\geq$ 4665 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532557-50	TLC Cast iron 15:1 elliptical dome pistons with 2.5mm fire ring with wide bearings ESN $\geq$ 4665
A-MCIF23532557Q-50	TLC Cast iron 15:1 elliptical dome pistons with 2.5mm fire ring with wide bearings ESN $\geq$ 4665 Includes cam bearings, head bolts and injector installation kits
A-MCIF23532561-50	Articulated steel 15:1 pistons 2.5mm fire ring & heavy pin
A-MCIF23532561Q-50	Articulated steel 15:1 pistons 2.5mm fire ring & heavy pin Includes cam bearings, head bolts and injector installation kits.
A-MCIF23532562-50	Articulated steel 16.5:1 pistons 2.5mm fire ring & heavy pin
A-MCIF23532562Q-50	Articulated steel 16.5:1 pistons 2.5mm fire ring & heavy pin Includes cam bearings, head bolts and injector installation kits.

50/60 SERIES

S50 OVERHAUL KITS

A-MCOHS50	Without cast iron crown & skirt / with wide bearings
A-MCOHS50-4	Without articulated steel crown & aluminum skirt
A-MCOHS50-4S	Without articulated steel crown / with aluminum skirt
A-MCOH23532555N-50 (Narrow Bearings)	TLC Cast iron 15:1 pistons with 2.5mm fire ring with narrow bearings ESN $\leq$ 6664
A-MCOH23532555-50	TLC Cast iron 15:1 pistons with 2.5mm fire ring with wide bearings ESN $\geq$ 6665
A-MCOH23532555NQ-50 (Narrow Bearings)	TLC Cast iron 15:1 pistons with 2.5mm fire ring with narrow bearings ESN $\leq$ 4664 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532555Q-50	TLC Cast iron 15:1 pistons with 2.5mm fire ring with wide bearings ESN $\geq$ 4665 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532556N-50 (Narrow Bearings)	TLC Cast iron 15:1 pistons with 3.5mm fire ring with narrow bearings ESN $\leq$ 6664
A-MCOH23532556-50	TLC Cast iron 15:1 pistons with 3.5mm fire ring with wide bearings ESN $\geq$ 6665
A-MCOH23532556NQ-50 (Narrow Bearings)	TLC Cast iron 15:1 pistons with 3.5mm fire ring with narrow bearings ESN $\leq$ 4664 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532556Q-50	TLC Cast iron 15:1 pistons with 3.5mm fire ring with wide bearings ESN $\geq$ 4665 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532557-50	TLC Cast iron 15:1 elliptical dome pistons with 2.5mm fire ring with wide bearings ESN $\geq$ 4665
A-MCOH23532557Q-50	TLC Cast iron 15:1 elliptical dome pistons with 2.5mm fire ring with wide bearings ESN $\geq$ 4665 Includes cam bearings, head bolts and injector installation kits
A-MCOH23532561-50	Articulated steel 15:1 pistons 2.5mm fire ring & heavy pin
A-MCOH23532561Q-50	Articulated steel 15:1 pistons 2.5mm fire ring & heavy pin Includes cam bearings, head bolts and injector installation kits.
A-MCOH23532562-50	Articulated steel 16.5:1 pistons 2.5mm fire ring & heavy pin
A-MCOH23532562Q-50	Articulated steel 16.5:1 pistons 2.5mm fire ring & heavy pin Includes cam bearings, head bolts and injector installation kits.

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CYLINDER COMPONENTS

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23532555	4	6	6		Cylinder Kit - Cast Iron Piston	15:1 2.5mm
A-23532556	4	6	6		Cylinder Kit - Cast Iron Piston	15:1 3.5mm
A-23532557	4		6		Cylinder Kit - Cast Iron Piston	15:1 2.5mm elliptical dome
A-23532558	4		6		Cylinder Kit - Cast Iron Piston	16.5:1 2.5mm 22mm ID pin
A-23532561	4		6		Cylinder Kit - Art. Steel Piston	15:1 2.5mm 22mm ID pin
A-23532562	4		6		Cylinder Kit - Art. Steel Piston	16.5:1 2.5mm 22mm ID pin
A-23530661				6	Cylinder Kit - Art. Steel Piston	15:1
A-23530663				6	Cylinder Kit - Art. Steel Piston	16:1
A-23530665				6	Cylinder Kit - Art. Steel Piston	16:1 EGR
A-23532468		6	6		Liner Kit - Early w/Seals	(A-23505278)
A-23531249	4	6	6		Liner Kit - TLC w/Seals	(A-23523938/A-23514285)
A-23531250				6	Liner Kit - TLC w/Seals	
A-8929013	4	6	6	6	Liner Seal - Crevice	
A-8929176	8	12	12	12	Liner Seal - D-ring	
A-23519635	4	6	6		Piston Kit CI 3.5mm 15:1	Dome assembly, skirt & pin
A-23519624	4	6	6		Piston Kit CI 2.5mm 15:1	Dome assembly, skirt & pin
A-23519646	4		6		Piston Kit CI Elliptical 2.5mm 15:1	Dome assembly, skirt & pin
A-23524601	4		6		Piston Kit CI 2.5mm 16.5:1	Dome, skirt, pin & retainers
A-23533203	4		6		Piston Kit Art. Steel 2.5mm 15:1	Dome, skirt, pin & retainers
A-23532552	4		6		Piston Kit Art. Steel 2.5mm 16.5:1	Dome, skirt, pin & retainers
A-23530660				6	Piston Kit Art. Steel 15:1	Dome, skirt, pin & retainers
A-23530662				6	Piston Kit Art. Steel 16:1	Dome, skirt, pin & retainers
A-23530664				6	Piston Kit Art. Steel 16:1 EGR	Dome, skirt, pin & retainers
A-23503747	4	6	6		Ring Set 2.5mm	
A-23505729	4	6	6		Ring Set 3.5mm	
A-23531252				6	Ring Set	
A-23519723	4	6	6		Slipper Bearing Kit - OE Crown	X-head iron crown
MCB23519723	4	6	6		Slipper Bearing Kit - McBee Crown	X-head iron crown
A-8929087	4	6	6		Piston Pin X-head Iron	
A-8929337	8	12	12		Pin Bolts	
A-8929504	8	12	12		Pin Bolt Spacer	
A-23525168	4		6		Piston Pin Articulated Steel	22mm ID use in sets only
A-23522872				6	Piston Pin Articulated Steel	
A-23521781	8		12	12	Pin Retainer	Steel articulated crown
MCB60BSH	4		6	6	Rod Bushing Closed Rod (trunk)	Use in drilled rods only
A-8929355	8	12	12		Rod cap bolt	M14x1.5x108
A-8929019	8	12	12	12	Rod cap nut	M14x1.5
A-23522877			12	12	Rod cap bolt	M14x1.5x111.5
A-23528493	4		6	6	Piston Cooling Nozzle	
A-23506222	4		6	6	Piston Cooling Nozzle Bolt	

GASKET SETS

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23532330	1				Head Gasket Set	Must use w/ NEW style bolts
MCB50HBK	1				Head Bolt Kit	New style bolts & washers
A-23532333		1	1	1	Head Gasket Set	Must use w/ NEW style bolts
A-23536442			1	1	Head Gasket Set - EGR	Must use w/ NEW style bolts
MCB60HBK		1	1	1	Head Bolt Kit	New style bolts & washers
A-23532329	1				Overhaul Gasket Set	
A-23532720		1	1	1	Overhaul Gasket Set	
A-23536443			1	1	Overhaul Gasket Set - EGR	
MCBS0060	1	1	1	1	Kit, Oil Cooler Installation	MY 1991 & up

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50/60 SERIES

ENGINE BEARINGS

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-8929710	4	6	6		Rod Brg - Early STD X-head	≤4R6664 ≤6R184521 11.1L ≤6R188250 12.7L 1.710"W 43mm
A-8929711	4	6	6		Rod Brg - Early .254mm X-head	
A-8929712	4	6	6		Rod Brg - Early .508mm X-head	
A-8929713	4	6	6		Rod Brg - Early .762mm X-head	
A-23515581	4	6	6		Rod Brg - Wide STD X-head	≥4R6665 ≥6R184522 11.1L ≥6R188251 12.7L 1.863"W 47mm
A-23515582	4	6	6		Rod Brg - Early .254mm X-head	
A-23515583	4	6	6		Rod Brg - Early .508mm X-head	
A-23515584	4	6	6		Rod Brg - Early .762mm X-head	
A-23526142	4		6		Rod Brg - STD	Closed rod / steel piston
A-23527065	4		6		Rod Brg - .254mm	Closed rod / steel piston
A-23527066	4		6		Rod Brg - .508mm	Closed rod / steel piston
A-23527067	4		6		Rod Brg - .762mm	Closed rod / steel piston
A-23526141			6	6	Rod Brg - STD	Closed rod / large journal
A-23533567			6	6	Rod Brg - .254mm	Closed rod / large journal
A-23533568			6	6	Rod Brg - .508mm	Closed rod / large journal
A-8929670	4	6	6	6	Main Brg STD	
A-8929680	1	1	1	1	Main Brg STD	
A-8929671	4	6	6	6	Main Brg .254mm	
A-8929681	1	1	1	1	Main Brg .254mm	
A-8929672	4	6	6	6	Main Brg .508mm	
A-8929682	1	1	1	1	Main Brg .508mm	
A-8929673	4	6	6	6	Main Brg .762mm	
A-8929683	1	1	1	1	Main Brg .762mm	
A-8929085	2	2	2	2	Thrust Washer	
A-23530554			2	2	Thrust Washer - Front	6R0762048 & up
A-23530555			2	2	Thrust Washer - Rear	6R0762048 & up
A-8929690	5	7	7	7	Cam Bearing - STD	
A-8929691	5	7	7	7	Cam Bearing - .254mm	
A-8929692	5	7	7	7	Cam Bearing - .508mm	
A-8929693	5	7	7	7	Cam Bearing - .762mm	
MCB7133	4		6	6	Rod Bushing	For drilled rods only
A-8929430		1	1	1	Bull Gear Bearing Assembly	

ENGINE BEARING KITS

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23531604		1	1		Lower Bearing Kit - STD	Early narrow mains 43mm
A-23531605		1	1		Lower Bearing Kit - STD	Wide mains 47mm
A-23519905		1	1		Lower Bearing Kit - .254mm	Wide mains 47mm
A-23519906		1	1		Lower Bearing Kit - .508mm	Wide mains 47mm
A-23531606			1		Lower Bearing Kit - STD	Articulated steel piston
A-23527914				1	Lower Bearing Kit - STD	Non EGR engine
A-23535280			1	1	Lower Bearing Kit - STD	Hooked & tabbed thrust washers
A-23533692			1	1	Lower Bearing Kit - STD	Tabbed thrust washers

50/60 SERIES

CYLINDER BLOCK

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23525500	AR	AR	AR		Sleeve, Counter Bore Repair	Upper
A-23539134	AR	AR	AR	AR	.010" Liner Shim	Stainless
A-23539135	AR	AR	AR	AR	.030" Liner Shim	Stainless
A-S60.031 SHIM	AR	AR	AR	AR	.031" Liner Shim	Brass
A-23539136	AR	AR	AR	AR	.060" Liner Shim	Stainless
A-S60.062 SHIM	AR	AR	AR	AR	.062" Liner Shim	Brass

CYLINDER HEAD COMPONENTS

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23501576	8	12	12	12	Valve Kit - Intake	"A" or large dimple
A-23501577		12	12		Valve Kit - Exhaust - Pre 1991 %	"U" & No machined ID ring
A-23507504	8	12	12	12	Valve Kit - Exhaust - 1991-2001 %	ID ring & "H" or small dimple
Note: Valve kits include valve, locks, seal & rotator.						
%Note: Valve lash settings for these are not the same and cannot be mixed in an engine.						
A-8929589	8	12	12	12	Valve - Intake	"A" or large dimple
A-23529629	8		12	12	Valve - Intake - EGR	
A-23520149	8		12		Valve - Intake - GAS	
A-8929590		12	12		Valve - Exhaust - Pre 1991 %	"U" & No machined ID ring
A-23506350	8	12	12	12	Valve - Exhaust - 1991-2001 %	ID ring & "H" or small dimple
A-23529596	8		12	12	Valve - Exhaust - EGR 2002 up	
A-23520148	8		12		Valve - Exhaust - GAS	
A-23518571	16	24	24	24	Valve Guide-Rifled	14.30 -14.32mm OD
A-23533552	16	24	24	24	Valve Guide-Smooth	14.30 -14.32mm OD
A-23518572	AR	AR	AR	AR	Valve Guide	14.43 -14.45mm OD
A-23523930	16	24	24	24	Valve Stem Seals	
A-23521944	16		24		Valve Stem Seals - GAS	
A-8929127	8	12	12	12	Valve Seat - Intake - STD	
A-8929127.010	AR	AR	AR	AR	Valve Seat - Intake - .010" OS	
A-23517058	8		12		Valve Seat - Intake - GAS	
A-8929126	8	12	12	12	Valve Seat - Exhaust - STD	
A-8929126.010	AR	AR	AR	AR	Valve Seat - Exhaust - .010" OS	
A-23519090	8		12		Valve Seat - Exhaust - GAS	
A-8929415	16	24	24	24	Valve Spring	Both non-EGR
A-8929415	8		12	12	Valve Spring - Intake EGR	
A-23535122	8		12	12	Valve Spring - Exhaust EGR	
A-8929076	16	24	24	24	Spring Seat	STD
A-8929105	16	24	24	24	Rotator	
A-8929573	32	48	48	48	Locks	
A-5138643		30	30	30	Button Valve Adjustment	≤MY 2000
A-8929059	AR	AR	AR	AR	Valve Rocker Arm Bushing - Narrow	3
A-8929536	AR	AR	AR	AR	Valve Rocker Arm Bushing - Wide	1
A-23538247PR	4	6	6	6	Pin and Roller Kit Exhaust Rocker Arm	
A-23532937PR	4	6	6	6	Pin and Roller Kit Intake Rocker Arm	
A-23513939PR	4	6	6	6	Pin and Roller Kit Injector Rocker Arm	
A-23501580	4	6	6	6	N2 Injector Tube Kit	With seal (A-23515470)
A-23515470	4	6	6	6	N2 Injector Tube Seal	
A-5104701	4	6	6	6	N2 Injector Tube Auxiliary Seal Large	
A-23511870	4	6	6	6	N2 Injector Tube Auxiliary Seal Small	
A-23533148	4		6	6	N3 Injector Tube Kit - Threaded SST	With seal (A-23533147)
A-23533147	4		6	6	N3 Injector Tube Seal	
A-23534745			6	6	E3 Injector Tube Kit - Threaded SST	With seal (A-23534743)
A-23534743			6	6	E3 Injector Tube Seal	
A-23536862			AR	AR	E3 Injector Tube Shim - .007"	
A-23536863			AR	AR	E3 Injector Tube Shim - .012"	1 notch
A-23536864			AR	AR	E3 Injector Tube Shim - .018"	2 notches
A-23530768	26	38	38	38	Head Bolt	
A-8929328	26	38	38	38	Head Bolt Washer	
MCB50HBK	1				Head Bolt Kit	
MCB60HBK		1	1	1	Head Bolt Kit	
A-8929129	5	7	7	7	Cam Journal Cap Bolt	
A-8929587	4	6	6	6	Cam Journal Cap Bolt	
A-8929588		2	2	2	Cam Journal Cap Stud	
A-23500708	2	2	2	2	Cam Journal Cap Nut	
A-8929586	6	8	8	8	Rocker Shaft Spacer	

50/60 SERIES

ROCKER COVER MOUNTING

1 PIECE COVER

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23516322		1	1	1	Gasket, Cover to Head 4-bolt Grey	≤ 6/1999 MY
A-8929255		4	4	4	Isolator up to 1996	
A-5104514		4	4	4	Isolator Washer up to 1996	
A-23517911		4	4	4	Isolator/washer Assy. 1996 - 1999	
A-23522269		1	1	1	Gasket, Cover to Head 10-bolt Black	MY 6/1999 & up
A-23522271		10	10	10	Bolt & Isolator Assy.	MY 6/1999 & up
A-5101760		1	1	1	Breather element 1pc covers	

ROCKER COVER MOUNTING

2 PIECE COVER

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23511772	1				Gasket, Upper to Lower	
A-8929803		1	1	1	Gasket, Upper to Lower	≤ 6/1999 MY
A-11504822	6	8	8	8	Bolt - Upper to Lower Housing	
A-23516531	1				Gasket, Lower to Head	Valve Cover
A-23516322		1	1	1	Gasket, Lower to Head Grey	≤ 6/1999 MY
A-8929255		10	10	10	Isolator up to 1996	Lower housing to head
A-5104514		10	10	10	Isolator Washer up to 1996	Lower housing to head
A-23517911	8				Isolator/washer Assy.	Lower housing to head
A-23517911		10	10	10	Isolator/washer Assy. 1996 - 1999	Lower housing to head
A-23511991		1	1	1	Gasket, Upper to Lower	MY 6/1999 & up
A-11504822		8	8	8	Bolt - Upper to Lower Housing	MY 6/1999 & up
A-23522269		1	1	1	Gasket, Lower to Head Black	MY 6/1999 & up
A-23522271		10	10	10	Bolt & Isolator Assy. 6/99 & up	Lower housing to head

ROCKER COVER MOUNTING

3 PIECE COVER

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23506153		1	1	1	Gasket, Upper to Intermediate	≤ 6/1999 MY
A-11504822		8	8	8	Bolt - Upper to Intermediate Hsg.	
A-8929803		1	1	1	Gasket, Intermediate to Lower	≤ 6/1999 MY
A-11504822		8	8	8	Bolt - Intermediate to Lower Hsg	
A-23516322		1	1	1	Gasket, Lower to Head Grey	≤ 6/1999 MY
A-8929255		10	10	10	Isolator up to 1996	Lower housing to head
A-5104514		10	10	10	Isolator Washer up to 1996	Lower housing to head
A-23517911		10	10	10	Isolator/washer Assy. 1996 - 1999	Lower housing to head
A-23511992		1	1	1	Gasket, Upper to Intermediate	MY 6/1999 & up
A-11504822		8	8	8	Bolt - Upper to Intermediate Hsg.	
A-23511991		1	1	1	Gasket, Intermediate to Lower	MY 6/1999 & up
A-11504822		8	8	8	Bolt - Intermediate to Lower Hsg	
A-23522269		1	1	1	Gasket, Lower to Head Black	MY 6/1999 & up
A-23522271		10	10	10	Bolt & Isolator Assy. 6/99 & up	Lower housing to head

CRANKSHAFT SEALS

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23515598			1		Crankshaft Wide 6-hole	>6R188251 with cast pistons
A-23518355	1	1	1	1	Front Seal Assembly	Unitized seal & wear sleeve
A-23519651	1	1	1	1	Rear Seal & Wear Sleeve Assembly	Unitized seal & wear sleeve
A-23516969	1	1	1	1	Rear Seal & Wear Sleeve	
A-23513578	1	1	1	1	Rear Seal & Wear Sleeve	Wet housing
A-5100532	1	1	1	1	Flywheel Scuff Plate	

FUEL INJECTOR COMPONENTS

This diagram illustrates the exploded view of a mechanical assembly, with components numbered 1 through 32. The assembly is oriented vertically. At the top, components 1, 2, 3, and 16 are shown. Component 1 is a main housing. Below it are components 4, 5, 6, 7, 8, and 9, which appear to be a series of plates or guides. Component 10 is a small cylindrical part. Component 11 is another housing-like part. Component 12 is a small pin or screw. Component 13 is a base plate with four mounting points. Component 14 is a small screw. Component 15 is a small ring or washer. Component 16 is a long, thin rod or pin. Component 17 is a large, flat, circular disc. Component 18 is a long, thin rod or pin. Component 19 is a long, thin rod or pin. Component 20 is a large, cylindrical component with a flange. Component 21 is a small ring or washer. Component 22 is a large, cylindrical component with a flange. Component 23 is a large, cylindrical component with a flange. Component 24 is a large, cylindrical component with a flange. Component 25 is a small ring or washer. Component 26 is a small ring or washer. Component 27 is a small ring or washer. Component 28 is a small ring or washer. Component 29 is a small ring or washer. Component 30 is a small ring or washer. Component 31 is a small ring or washer. Component 32 is a small ring or washer.

50/60 SERIES

FUEL INJECTOR COMPONENTS

FIGURE A	PART #	DESCRIPTION	QTY.
1	4991685	SOLENOID (WITHOUT GROOVE)	1
2	A-5235586	SCREW, SOLENOID ASSEMBLY (4 REQUIRED PER INJECTOR)	4
3	4991452	LOAD PLATE	1
4	4991454	FLAT HEAD SCREW	1
5	4991453	ARMATURE - CALL WITH SIZES	1
6	A-5234224	SPACER SEAL, SOLENOID	2
7	4991455	PAN HEAD SCREW	2
8	4991456	SPACER, SOLENOID - CALL WITH SIZES	1
9	4991457	RETAINER, SPRING	1
10	4991458	SPRING, CONTROL VALVE	1
11	4991469	SEAT, CONTROL VALVE SPRING	1
12	4991459	CONTROL VALVE - CALL WITH SIZES	1
13	4991470	HEX HEAD SCREW	3
14	4991460	VALVE STOP - CALL WITH SIZES	1
15	4991539	O-RING, INTERNAL	1
16	4991450	RETAINER, FOLLOWER (OLD STYLE)	1
16	4991598	RETAINER, FOLLOWER (NEW STYLE)	1
17	4991444	FOLLOWER	1
18	4991597	SPRING, FOLLOWER (NEW STYLE)	1
19	4991446	PLUNGER	1
20	4991471	BODY ASSEMBLY	1
21	A-5234701	O-RING, INTERNAL	1
22	A-5234702	O-RING, EXTERNAL	1
23	4991636	NUT ASSEMBLY (FILTERS INSTALLED)	1
24	A-5234699	O-RING, EXTERNAL	2
25	4991462	SPACER	1
26	4991448	FILTER RETAINER (2 REQUIRED PER INJECTOR)	2
27	4991449	FILTER RETAINER (2 REQUIRED PER INJECTOR)	2
28		SPRAY TIP - SEE CHART ON NEXT PAGE	1
29	4991463	CHECK VALVE CAGE	1
30	4991465	VALVE SPRING CAGE	1
31	4991464	VALVE SPRING	1
32	4991466	VALVE SPRING SEAT	1

50/60 SERIES

SPRAY TIPS

DRAWING NUMBER	INJECTOR PART NUMBER	SPRAY TIP PART NUMBER	NUMBER OF HOLES
28	R-5234785	4991753-C2A	9
28	R-5234795	4991754-D5	9
28	R-5234865	4991753-C1A	9
28	R-5234870	4991753-C2	9
28	R-5234935	4991753-C1	9
28	R-5234940	4991753-C3	9
28	R-5234945	4991754-D4	9
28	R-5234970	4991754-D3	9
28	R-5235550	4991752-B3	8
28	R-5235575	4991752-B5	8
28	R-5235580	4991751-A1	8
28	R-5235600	4991754-D2	9
28	R-5235605	4991753-C1	9
28	R-5235695	4991754-D3	9
28	R-5235915	4991752-B6	8
28	R-5236347	4991752-B4	8
28	R-5236977	4991752-B3	8
28	R-5236978	4991751-A1	8
28	R-5236980	4991752-B4	8
28	R-5236981	4991752-B1	8
28	R-5237014	4991754-D2	9
28	R-5237042	4991751-A2	8
28	R-5237045	4991752-B4	8
28	R-5237099	4991752-B2	8
28	R-5237315	4991748-E3	9
28	R-5237320	4991754-D2	9
28	R-5237466	4991752-B5	8
28	R-5237473	4991748-E5	9
28	R-5237635	4991753-C2	9
28	R-5237650	4991754-D1	9
28	R-5237787	4991753-C1	9
28	R-5237820	4991753-C1A	9
28	R-5237821	4991753-C1A	9

ELECTRONIC FUEL INJECTOR KITS

QTY	PART #	DESCRIPTION	Contains Ref # in Fig. A
1	MCBS60INJ	Installation Kit DDEC II-IV	22, 24 plus upper & lower auxilliary seals (not shown)
1	A-23537111	Installation Kit DDEC V (N3)	Seals, gasket, bolt & washer
1	A-23537123	Installation Kit DDEC V (E3)	Seals, bolt & washer
1	A-5236116	Solenoid Seal & Screw Kit	2, 6
1	MCB26210	Nut Assembly O-ring Kit	21, 22, 23
1	MCB26209	Internal O-ring Kit	6, 15, 21
1	A-5234699K	Complete O-ring Kit	6, 15, 21, 22, 24 plus upper & lower auxilliary seals
1	A-23528939	Follower Spring & Retainer Kit	2, 16, 18
1	A-5230001	Repair Kit	2, 4, 6, 7, 10, 13, 15, 21, 22, 24, 31, 32, plus upper & lower auxilliary seals

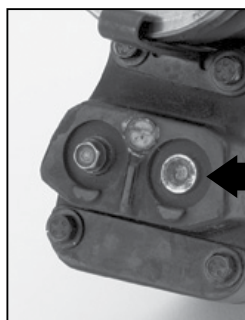
50/60 SERIES

REBUILT INJECTORS

PART #	DESCRIPTION	CORE CODE
R-5234785	REBUILT INJECTOR, S60, 11.1L, 12.7L	C-S60DDEC1
R-5234795	REBUILT INJECTOR, S60, 12.7L	C-S60DDEC2
R-5234865	REBUILT INJECTOR, S60, 11.1L	C-S60DDEC2
R-5234870	REBUILT INJECTOR, S60, 11.1L	C-S60DDEC2
R-5234935	REBUILT INJECTOR, S60, 11.1L	C-S60DDEC2
R-5234940	REBUILT INJECTOR, S60, 11.1L, 12.7L	C-S60DDEC2
R-5234945	REBUILT INJECTOR, S60, 12.7L	C-S60DDEC2
R-5234970	REBUILT INJECTOR, S60	C-S60DDEC2
R-5235550	REBUILT INJECTOR, S50/60	C-S60DDEC3/4
R-5235575	REBUILT INJECTOR, S50/60, 12.7L	C-S60DDEC3/4
R-5235580	REBUILT INJECTOR, S60, 11.1L	C-S60DDEC3/4
R-5235600	REBUILT INJECTOR, S50/60 (8.5L S50)	C-S60DDEC3/4
R-5235605	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5235695	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5235915	REBUILT INJECTOR, S50/60	C-S60DDEC3/4
R-5236347	REBUILT INJECTOR, S50	C-S60DDEC3/4
R-5236977	REBUILT INJECTOR, S50/60	C-S60DDEC3/4
R-5236978	REBUILT INJECTOR, S50/60	C-S60DDEC3/4
R-5236980	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5236981	REBUILT INJECTOR, S50	C-S60DDEC3/4
R-5236995	REBUILT INJECTOR, S50	C-S60DDEC3/4
R-5237014	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237042	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237045	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237099	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237466	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237473	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237635	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237650	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237787	REBUILT INJECTOR, S50/60	C-S60DDEC3/4
R-5237820	REBUILT INJECTOR, S60	C-S60DDEC3/4
R-5237821	REBUILT INJECTOR, S60	C-S60DDEC3/4

C-S60DDEC1, C-S60DDEC2, C-S60DDEC3/4

Each core can be identified by the tower of the body, underneath the spring. The C-S60DDEC2 core has two distinct steps and the C-S60DDEC3/4 has a tapered tower. Series 60 cores with a broken or missing terminal screw will not be accepted.



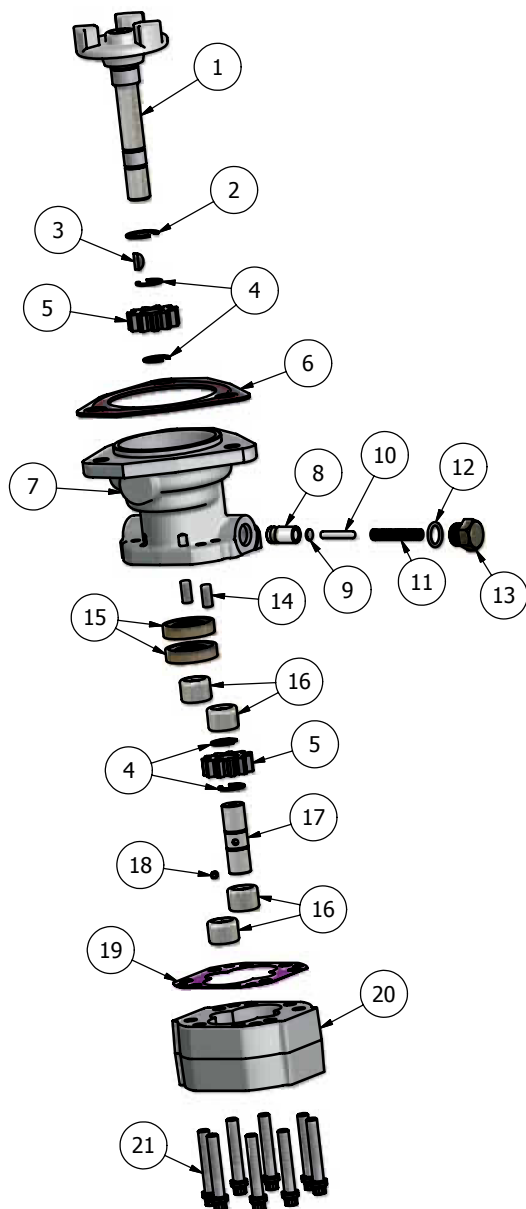
**BROKEN
TERMINAL
SCREW**



50/60 SERIES

FUEL PUMP

Figure B



PART #	DESCRIPTION
R-23517845	REBUILT, SERIES 60 FUEL PUMP, AIR COMPRESSOR DRIVE

FIGURE B	PART #	DESCRIPTION	QTY. REQ'D
1	A-23532977	SHAFT & HUB ASSEMBLY	1
2	4991902	RETAINER RING (LARGE)	1
3	4992018	KEY	1
4	A-8923522	SNAP RING	4
5	A-23506546	GEAR	2
6	A-23505248	GASKET, BODY	1
7	4991793	BODY, PUMP	1
8	A-8923528	VALVE, RELIEF	1
9	A-23506560	SPACER	1
10	A-23506564	PIN	1
11	A-23506557	SPRING, RELIEF VALVE	1
12	A-23506556	SEAL	1
13	A-23506555	CAP, RELIEF VALVE	1
14	A-23500694	ALIGNMENT PIN	2
15	A-23512243	OIL SEAL	2
16	A-8923526	NEEDLE BEARING	4
17	A-23506549	SHAFT, DRIVEN	1
18	A-8923521	PIN, GEAR	1
19	A-23516117	GASKET, COVER	1
20	4991794	COVER, PUMP	1
21	A-23506551	SCREW W/LOCK WASHER	8

ADDITIONAL PARTS & KITS

PART #	DESCRIPTION
A-23505249	SHOCK COUPLING, SPIDER
A-23517845RK	REPAIR KIT, FUEL PUMP, S60
A-23517845RK-S	REPAIR KIT, FUEL PUMP, S60 WITH SHAFT
A-23517845RK-SG	REPAIR KIT, FUEL PUMP, S60 WITH SHAFT AND GEARS

50/60 SERIES

FUEL SYSTEM MISCELLANEOUS

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
MCBS60INJ	4	6	6	6	Installation Kit DDEC II-IV	▲denotes items in kit
A-5234702	4	6	6	6	▲O-ring Seal, Injector Mtg	Upper
A-5234699	8	12	12	12	▲O-ring Seal, Injector Mtg	Lower
A-5104701	4	6	6	6	▲Upper Auxiliary Seal	
A-23511870	4	6	6	6	▲Lower Auxiliary Gasket	
A-23537111	4		6	6	Installation Kit DDEC V (N3)	Seals, gasket, bolt & washer
A-23537123			6	6	Installation Kit DDEC V (E3)	Seals, bolt & washer
A-J35637A	AR	AR	AR	AR	Timing Gauge, 78.2	
A-J39697	AR	AR	AR	AR	Timing Gauge, 78.8	
A-J42665	AR	AR	AR	AR	Timing Gauge, 80.3	
A-5236116	4	6	6	6	Solenoid Seal & Screw Kit	DDEC II-IV
A-23516918	AR	AR	AR	AR	Fuel Check Valve	3/8 NPTF male x # 8 male flare
A-23516919	AR	AR	AR	AR	Fuel Check Valve	3/8 NPTF female x # 8 male flare
A-23516993	AR	AR	AR	AR	Fuel Check Valve	3/8 NPTF female x # 6 male flare
A-23512307	8	8	8	8	Isolator, ECM Mounting	

ENGINE SENSORS

A-23522322			1	1	Sensor - Air Pressure Turbo Boost	
A-8929387		1	1	1	Sensor - SRS	
A-8929388		1	1	1	Sensor - TRS	
A-23514708	1	1	1	1	Sensor - Coolant Temp	
A-23527338				1	Sensor - SRS DDEC V	
A-23527339				1	Sensor - TRS DDEC V	
A-23515251			1	1	Sensor - Oil Temp	
A-23532787		1	1	1	Sensor - Oil Pressure	
A-23518092	1	1	1	1	Sensor - Temperature Oil, Water, Fuel, Air	

TURBOCHARGER ASSEMBLIES

PART #	DESCRIPTION	MODEL	PART #	DESCRIPTION	MODEL
A-8929435	Turbocharger	TV51	A-23518588	Turbocharger	TMF55
A-8929507	Turbocharger	TV51	A-23518597	Turbocharger	TMF55
A-8929796	Turbocharger	TV51	A-23522188	Turbocharger	GT4294
A-8929797	Turbocharger	TV51	A-23522189	Turbocharger	GT4202
A-8929902	Turbocharger	TV51	A-23522190	Turbocharger	GT4202
A-8929903	Turbocharger	TV51	A-23522312	Turbocharger	GT4202
A-23503732	Turbocharger	TV51	A-23525463	Turbocharger	GTA42
A-23504966	Turbocharger	TMF51	A-23526016	Turbocharger	
A-23504967	Turbocharger	TMF51	A-23526271	Turbocharger	
A-23507908	Turbocharger	TV4501	A-23526272	Turbocharger	
A-23507909	Turbocharger	TV4501	A-23526679	Turbocharger	GT4294
A-23508405	Turbocharger	TV4502	A-23528052	Turbocharger	GTA4294
A-23508406	Turbocharger	TV4502	A-23528059	Turbocharger	GTA4202
A-23508410	Turbocharger	TMF5102	A-23528062	Turbocharger	
A-23508411	Turbocharger	TMF5102	A-23528064	Turbocharger	GT4202
A-23515635	Turbocharger	TMF55	A-23528065	Turbocharger	GTA4294
A-23515636	Turbocharger	TMF55	A-23528069	Turbocharger	GTA4294
A-23516431	Turbocharger	TMF55	A-23529103	Turbocharger	
			A-23535324	Turbocharger	GTA4294

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50/60 SERIES

LUBRICATION SYSTEM

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23511580	1				Oil Pan Seal	
A-8929102		1	1	1	Oil Pan Seal - up to April 1999	Separate bolt, isolator & sleeve
A-23517243	8	10	10	10	Spacer	
A-23517242	8	10	10	10	Isolator	
A-11504571	8	10	10	10	Bolt	
A-23522282		1	1	1	Oil Pan Assembly - Front Sump	April 1999 & up
A-23522279		1	1	1	Oil Pan Seal - April 1999 & up	One piece bolt & isolator assy.
A-23522281		10	10	10	Bolt, isolator & spacer assy.	
A-5126327		2	2	2	Spring Reg & Rel Valve	
A-8922740		2	2	2	Valve, Regulator& Relief	
A-23505886		1	1	1	Oil Pump Assembly	Option type #198
A-23505992		1	1	1	Oil Inlet Pipe Gasket	
A-23511656	1				Oil Inlet Pipe Gasket	
A-23505891		1	1	1	Oil Outlet Pipe O-ring	
A-23505892	2	1	1	1	Oil Outlet Pipe O-ring	
A-23522416	1	1	1		Cooler Core 10-plate	MY 1991 & up
A-23522415			1	1	Cooler Core 11-plate	MY 1991 & up
MCBS0060	1	1	1	1	Kit, Oil Cooler Installation	▲denotes items in kit
A-23506247	1	1	1	1	▲Gasket, Cooler Housing	MY 1991 & up
A-23508392	2	2	2	2	▲Seal Ring, Core to Filter Head	MY 1991 & up
A-8929289	1	1	1	1	▲Seal Ring, Hsg Neck to Block	MY 1991 & up
A-23505902	1	1	1	1	▲Seal Ring, Bypass	MY 1991 & up
A-23508392	1	1	1	1	▲Seal Ring, Filter Hsg to Block	MY 1991 & up

COOLING SYSTEM

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23522707	1	1	1		Water Pump Assembly	6R37023 - 6R579833
A-23520377					---Mounting Seal Ring Square Cut	
A-23526039	1	1	1	1	Water Pump Assembly	6R579834 & up Non-EGR
A-23526038					---Mounting O-ring	
A-23535017	1	1	1	1	Water Pump Assembly	EGR
A-23527272					---Mounting O-ring	
A-23529962	1	1	1	1	Water Pump Reconditioning Kit	▲denotes items in kit
A-8922407	1	1	1	1	Cover Retainer Ring	
A-8922383	1	1	1	1	Cover - Non-metallic	
A-23512048	1	1	1	1	▲Cover Seal Ring	
A-23517973	1	1	1	1	Impeller 6-vane C.I.	
A-23522433	1	1	1	1	▲Water Seal Assembly	
A-23528190	1	1	1	1	▲Oil Seal	
A-23505896	1	1	1	1	Pump Shaft	
A-8929422	1	1	1	1	▲Bearing Assembly	
A-8929427	1	1	1	1	▲Bearing Retainer Ring	
A-23505910	1	1	1	1	Gear	
A-23503827			2		Thermostat 160°	
A-23503825			2	2	Thermostat 180°	
A-23533312			2	2	Thermostat 185° (A-23533492 Kit)	Kit = 1-t/stat & 1-seal
A-8929878	2	2	2	2	Thermostat 190° (A-23532436 Kit)	Kit = 1-t/stat & 1-seal
A-5132155	2	2	2	2	Seal	
A-8929875		2	2	2	Hose, Water Bypass	1.75" x 3.25"
A-23505048		4	4	4	Clamp, Water Bypass	
A-23506325		2	2	2	Hose, W/P to Cooler Hsg	2.75" x 3.01"

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50/60 SERIES

VIBRATION DAMPER

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-8929502	1	1	1	1	Damper 13.5" April 1993 & up	(A-23525990)
A-8929222	6	6	6	6	Bolt	
A-5133981	6	6	6	6	Washer	

EXHAUST SYSTEM

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-23511666	2	3	3	3	Gasket, Exhaust Manifold Mtg.	
A-8929357	8	AR	AR	AR	Bolt, Exhaust Manifold Mtg.	
A-11506101		AR	AR	AR	Nut, Exhaust Manifold Mtg.	
A-8929529	1	1	1	1	Gasket, Turbo Mounting	
A-23507438	4	4	4	4	Turbo Mounting Stud	M10 1.5 x 44
A-8929425	4	4	4	4	Turbo Mounting Stud	M10 1.5 x 50
A-11506101	4	4	4	4	Turbo Mounting Nut	
A-8929169	4	4	4	4	Turbo Mounting Washer	

AIR COMPRESSOR DRIVE

PART #	S50 8.5L	S60 11.1L	S60 12.7L	S60 14L	DESCRIPTION	NOTE
A-5141773	1	1	1		Coupling, Compressor to Drive	≤ My1994
A-23515145	1	1	1		Gasket, Compressor to Drive	≤ My1994
A-8929299	1	1	1		Gasket, A/C or Drive to Gear Case	
A-5110410	1	1	1	1	Gasket, Air Strainer Mtg	

50/60 SERIES

GASKET LISTING

DESCRIPTION	NOTE	PART#	S50	S60
Accessory Drive Seal Ring	Drive to front cover	A-8929253	1	1
Air Compressor Drive Gasket		A-8929299	2	2
Air Compressor Mounting Gasket		A-23515145	1	1
Boost Sensor Seal		A-5182977	1	1
Cam Access Cover Gasket		A-8929130	1	2
Cam Thrust Plate Perimeter Seal		A-23528491	1	1
Cam Thrust Plate Perimeter Seal	EGR - Units	A-23527416		1
Cam Thrust Plate Seal - 2 Bolt	Plate to head	A-23521935		1
Cam Thrust Plate Seal - 3 Bolt	Plate to head	A-23521894	1	1
Exhaust Manifold Gasket		A-23511666	2	3
Front Cam Cap Seal Ring	Racetrack	A-23522975	1	1
Front Cover Seal Ring		A-5141452	1	1
Fuel Pump Drive Seal Ring	Pump drive to front cover	A-8929253	1	1
Fuel Pump Mounting Gasket	Earl style pump to drive	A-5150193	1	1
Fuel Pump Mounting Gasket - Late	Pump to air compressor	A-23505248	1	1
Gear Case Seal ring	Case to block	A-8929740	1	1
Intake Manifold Gasket		A-23517875	2	3
Intake Manifold Gasket	EGR engines	A-23531110		3
Oil Cooler Core Gasket	Prior to 1991 MY	A-8929348		1
Oil Cooler Core Gasket	MY 1991 & up	A-23506247	1	1
Oil Cooler Housing Seal Ring	Neck to block	A-8929289	1	1
Oil Filler Tube Gasket	Tube to block	A-8929302	1	1
Oil Filter Housing Seal Ring	MY 1991 & up bypass	A-23505902	1	1
Oil Filter Housing Seal Ring	MY 1991 & up	A-23508392	1	1
Oil Outlet Tube Seal Ring	Front	A-23505891		1
Oil Outlet Tube Seal Ring	Rear	A-23505892	2	1
Oil Pan Seal		A-23511580	1	
Oil Pan Seal - April 1999 & up	Black, One piece bolt & isolator assy.	A-23522279		1
Oil Pan Seal - up to April 1999	Grey, Separate bolt, isolator & sleeve	A-8929102		1
Oil Pickup Tube Gasket	Tube to pump	A-23505992		1
Oil Pickup Tube Gasket	Tube to pump	A-23511656	1	
Oil Pressue Regulator Gasket		A-5117269		1
Oill Cooler Core Seal Ring	MY 1991 & up	A-23508392	2	2
Rocker Cover Gasket		See Page 11		
Thermostat Seal		A-5132155	2	2
Turbo Mounting Gasket		A-8929529	1	1
Turbo Oil Drain Gasket		A-8929285	1	1
Water Pump Mounting Seal	Square cut	A-23520377	1	1
Water Pump Mounting Seal	O-ring	A-23526038	1	1

CA-800-522-6163

NOTES

[illegible]

INTERSTATE-MCBEE, LLC LIMITED EXTENDED WARRANTY

• Engine Parts – U.S.A. and Canada

COVERAGE

Diesel Engine

New engine parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service for a period of twenty-four (24) months from the date of installation, without mileage or hour limitation. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

Natural Gas or Methane Engine and Prime Power Generation

New engine parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service, for a period of twelve (12) months from the date of installation. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

Castings

Cylinder head and cylinder block castings are warranted for 12 months from date of installation; part replacement only, no progressive damage, no labor.

Fuel Injection parts and countries not included here-in are covered under a separate warranty titled "Interstate-McBee, LLC LIMITED General Products warranty." This warranty does not apply to parts provided by Interstate-McBee on a no-charge basis. In no event shall this warranty extend beyond thirty (30) months from date of sale or manufacture.

INTERSTATE-MCBEE RESPONSIBILITIES

Interstate-McBee will pay only for parts and labor needed to repair damages directly resulting from an above defined warranty failure to the functional condition existing immediately prior to the failure, including progressive damage to the engine in which the warrantable part was installed, provided Interstate-McBee's inspection of said failed part or parts discloses to our satisfaction to have been defective. Labor cost will be paid in accordance with published labor rates, but not to exceed reasonable flat rates times nor Interstate McBee's standard hourly rate. No overtime or holiday rates will be allowed. Only new or rebuilt Interstate-McBee or Interstate-McBee approved parts will be used in making the repair.

OWNER'S RESPONSIBILITIES

Owner is responsible for the operation and maintenance of the engine as specified in the APPLICABLE O.E.M. OPERATION AND MAINTENANCE MANUALS. Owner must give notice within (30) days of any suspected failure and before expiration of applicable warranty to be considered warrantable. Owner will provide alleged defective and associated parts for examination by Interstate-McBee and, if requested, return same F.O.B. Cleveland, Ohio. Interstate-McBee further reserves the right to examine any engine subject to a claim under this warranty. Approved warranty work is to be performed by an authorized Interstate-McBee Distributor or Dealer or other Interstate-McBee approved facility. Owner is responsible for all costs, including, but not limited to, repairs made to items other than the engine in which the parts are installed, "downtime" expenses and all business costs and losses resulting from a warrantable failure. OWNER MUST GET AUTHORIZATION FROM INTERSTATE-MCBEE'S WARRANTY ADMINISTRATOR (ALONG WITH A RETURN MATERIAL AUTHORIZATION FORM) PRIOR TO FILING A WARRANTY CLAIM WITHIN SAID WARRANTY PERIOD

WARRANTY LIMITATIONS

Interstate-McBee is not responsible for failure resulting from owner or operator abuse or neglect, such as, but not limited to: operation without adequate coolant, fuel or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, coolant or air intake systems; improper storage, starting, warm-up, run-in or shut down practices. Interstate-McBee is not responsible for failures resulting from improper repair or installation, for parts that have been altered or for parts not approved by Interstate-McBee. This warranty does not apply to parts furnished on a no charge basis. Interstate-McBee does not warrant parts supplied by Interstate-McBee which bear the name and or trademark of another company. These parts are warranted by their manufacturers and not by Interstate-McBee. In no event shall this warranty extend beyond (30) months from the date of sale. THERE ARE NO WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, FOR THE PARTS NAMED HEREIN BEFORE, MADE BY INTERSTATE-MCBEE OTHER THAN SET FORTH HEREIN. We neither assume nor authorize any other persons to assume for us any other liability in connection with our products. INTERSTATE-MCBEE SHALL NOT BE RESPONSIBLE FOR ANY OTHER CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. Further, in no event shall Interstate-McBee bear any responsibility for any damages, which exceed the then available aggregate coverage provided under the terms and conditions of its product liability policy. Fuel Injection parts and countries not included here-in are covered under a separate warranty titled "Interstate-McBee, LLC LIMITED General Products warranty."

This warranty for the U.S.A. & Canada shall be interpreted, governed and enforced in accordance with the laws of the State of Ohio, U.S.A. (For products not covered herein, see Interstate-McBee's General Product Warranty.) Any actions or proceedings relating to this warranty must be filed or commenced within three (3) months of the alleged breach. If any of these warranty provisions or portions thereof prohibited by law or by any court of competent jurisdiction, in any locality, its invalidity or unenforceability shall not affect the validity or enforceability of any other warranty provisions or portions thereof. This warranty applies to parts sold by Interstate-McBee on or after August 2007.

INTERSTATE-MCBEE, LLC LIMITED GENERAL PRODUCTS WARRANTY

- **Export & Remanufactured Engine Parts**
- **All Fuel Injection, New & Remanufactured**

COVERAGE

The parts furnished by Interstate-McBee are warranted to be free from defects in material and workmanship under normal use and service for a period of twelve (12) months, 100,000 miles or 2,000 hours of operation, whichever comes first, from date of first installation in an engine. This warranty applies to all owners in the chain of distribution, i.e. distributor, dealer, original owner, until the end of the respective periods of coverage and shall not apply to subsequent owners.

This warranty does not apply to parts provided by Interstate-McBee on a no-charge basis. In no event shall this warranty extend beyond eighteen (18) months from date of sale or manufacture.

INTERSTATE-MCBEE RESPONSIBILITIES

The obligation of Interstate-McBee under this warranty, statutory or otherwise, is limited to the replacement or repair of Interstate-McBee parts, which our inspection discloses to our satisfaction to have been defective. Repair will be performed at our factory in Cleveland, OH or other Interstate-McBee approved facility. Proof of purchase is required.

OWNER'S RESPONSIBILITIES

Owner is responsible for the operation and maintenance of the engine as specified in the APPLICABLE O.E.M. OPERATION AND MAINTENANCE MANUALS. Owner must give notice within (30) days of any suspected failure and before expiration of applicable warranty to be considered warrantable. Owner will provide alleged defective and associated parts for examination by Interstate-McBee and, if requested, return same F.O.B. Cleveland, Ohio. Interstate-McBee further reserves the right to examine any engine subject to a claim under this warranty. Owner is responsible for all costs, including, but not limited to, repairs made to items other than the engine in which the parts are installed, "downtime" expenses and all business costs and losses resulting from a warrantable failure. OWNER MUST GET AUTHORIZATION FROM INTERSTATE-MCBEE'S WARRANTY ADMINISTRATOR (ALONG WITH A RETURN MATERIAL AUTHORIZATION FORM) PRIOR TO FILING A WARRANTY CLAIM WITHIN SAID WARRANTY PERIOD

WARRANTY LIMITATIONS

Interstate-McBee is not responsible for failure resulting from owner or operator abuse or neglect, such as, but not limited to: operation without adequate coolant, fuel or lubricants; overfueling*; overspeeding; lack of maintenance of lubricating, coolant or air intake systems; improper storage, starting, warm-up, run-in or shut down practices. Interstate-McBee is not responsible for failures resulting from improper repair or installation, for parts that have been altered or for parts not approved by Interstate-McBee. This warranty does not apply to parts furnished on a no charge basis. Interstate-McBee does not warrant parts supplied by Interstate-McBee which bear the name and or trademark of another company. These parts are warranted by their manufacturers and not by Interstate-McBee. In no event shall this warranty extend beyond eighteen (18) months from the date of sale. THERE ARE NO WARRANTIES EXPRESSED, IMPLIED OR STATUTORY, FOR THE PARTS NAMED HEREIN BEFORE, MADE BY INTERSTATE-MCBEE OTHER THAN SET FORTH HEREIN. We neither assume nor authorize any other persons to assume for us any other liability in connection with our products. INTERSTATE-MCBEE SHALL NOT BE RESPONSIBLE FOR ANY OTHER CONSEQUENTIAL DAMAGES OR CONTINGENT LIABILITIES. Further, in no event shall Interstate-McBee bear any responsibility for any damages, which exceed the then available aggregate coverage provided under the terms and conditions of its product liability policy.

*covered on fuel injection products

This warranty shall be interpreted, governed and enforced in accordance with the laws of the State of Ohio, U.S.A. (For products not covered herein, see Interstate-McBee's Extended Warranty). Any actions or proceedings relating to this warranty must be filed or commenced within three (3) months of the alleged breach. If any of these warranty provisions or portions thereof is prohibited by law or by any court of competent jurisdiction, in any locality, its invalidity or unenforceability shall not affect the validity or the enforceability of any other warranty provisions or portions thereof.

This warranty applies to parts sold by Interstate on or after August, 2007.

U.S.A. Presidential Award



For Excellence in Export



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