



Parts Manual

Commercial Mobile Generator Set

HDKBL (Spec A-C)

HDKBM (Spec A-C)

HDKBN (Spec A-C)

HDKBP (Spec A-B)

HDKBR (Spec A-B)

HDKBV (Spec A-B)

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Safety

Precautions

The following symbols are used in Cummins Power Generation manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

Product

Safety

Precautions

Before operating the generator set, read the manuals and become familiar with them and the equipment. Safe and efficient operation can be achieved only if the equipment is properly operated and maintained. Many accidents are caused by failure to follow fundamental rules and precautions.



Note:

It is in the Operator's interest to read and understand all Health and Safety information together with all Warnings and Cautions contained within the documentation relevant to the generator set, its operation and daily maintenance.



Improper operation and maintenance can lead to severe personal injury or loss of life and property by fire, electrocution, mechanical breakdown or exhaust gas asphyxiation. Read and follow all safety precautions in the health and safety manual 0908–0110.



Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service, repair or replacement of parts may result in damage to equipment & property, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

About This Manual

This manual applies to the generator models HDKBL, HDKBM and HDKBN. Parts illustrations are arranged in groups relating to their position and function on the generator set. Each part illustrated is identified by a reference number corresponding to the list of part numbers in the accompanying table.

Engine and alternator parts that have been modified or added by Cummins Power Generation are identified in this catalogue. Contact your nearest authorized distributor for assistance in ordering replacement parts. All other replacement parts must be ordered from the engine/alternator manufacturer by referring to the item nameplate and supplying all available information.

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts AC	Hertz	Wire	Phase	
7 HDKBL*	7,000	115/ 230	50	2, 3	1	12V / 24V
7 HDKBL*	7,000	110 / 220	50	2, 3	1	12V / 24V
7 HDKBL*	7,000	120 /240	50	2, 3	1	12V / 24V
7 HDKBL*	7,000	220 & 230	50	2, 3	1	12V / 24V
9.5 HDKBM*	9,500	115/ 230	50	2, 3	1	12V / 24V
9.5 HDKBM*	9,500	110 / 220	50	2, 3	1	12V / 24V
9.5 HDKBM*	9,500	120 /240	50	2, 3	1	12V / 24V
9.5 HDKBM*	9,500	220 & 230	50	2, 3	1	12V / 24V
11 HDKBN*	11,000	115/ 230	50	2, 3	1	12V / 24V
11 HDKBN*	11,000	110 / 220	50	2, 3	1	12V / 24V
11 HDKBN*	11,000	120 /240	50	2, 3	1	12V / 24V
11 HDKBN*	11,000	220 & 230	50	2, 3	1	12V / 24V

* – The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

– 380–13,800V (Refer to Genset Data Sheet).

Quick Serve Online (QSOL)

Documentation and operator manuals pertaining to the generator set are available on QuickServe Online.

QuickServe Online: <https://quickserve.cummins.com/info/index.html>

The information contained within this manual is based on information available at the time of going to print. In line with Cummins Power Generation policy of continuous development and improvement, information may change at any time without notice. Obtain the most up to date version available on QuickServe Online or contact your authorized distributor for assistance.

Related Literature

The related literature that is appropriate to your generator set includes:

- Operator Manual for Generator Set (A041K811)
- Installation Manual (A041K812)
- Service Manual for Generator Set (A041K813)
- Service Manual for Engine (981–0528 Series 05)

If further information is required, contact your authorized distributor.

Model Identification

This manual covers generator set models produced under the Cummins Power Generation and Cummins Onan brand names.

To avoid errors or delay in filling your parts order, always state the MODEL and SERIAL NUMBER from the Cummins Power Generation nameplate.

Model No.			
Serial No.		Spec.	
FREQUENCY: 60 HZ			
SERVICE RATING:			
PHASE: 3PH 3PH			
RATED KW:			
POWER FACTOR: 0.8 0.8			
RATED KVA:			
12 CAPABILITY:			
CONNECTIONS:			
BATTERY: VOLTS AMPS AMPS			
VDC 2400			
2400/4160			
ROTATING SPEED: 1800RPM			
NOMINAL RATED			
FUEL:			
WIRING DIAGRAM:			

The engine serial number is located on a data tag on the engine or is stamped on the engine block.

The control software number is located on the electronic control module (ECM) or can be obtained via the digital interface if one is available.

For reference document your genset information in the spaces below.

Generator Model Number: _____

Generator Set Serial Number: _____

Generator Spec Letter: _____

Engine Serial Number: _____

Digital Control Software: _____

Abbreviations

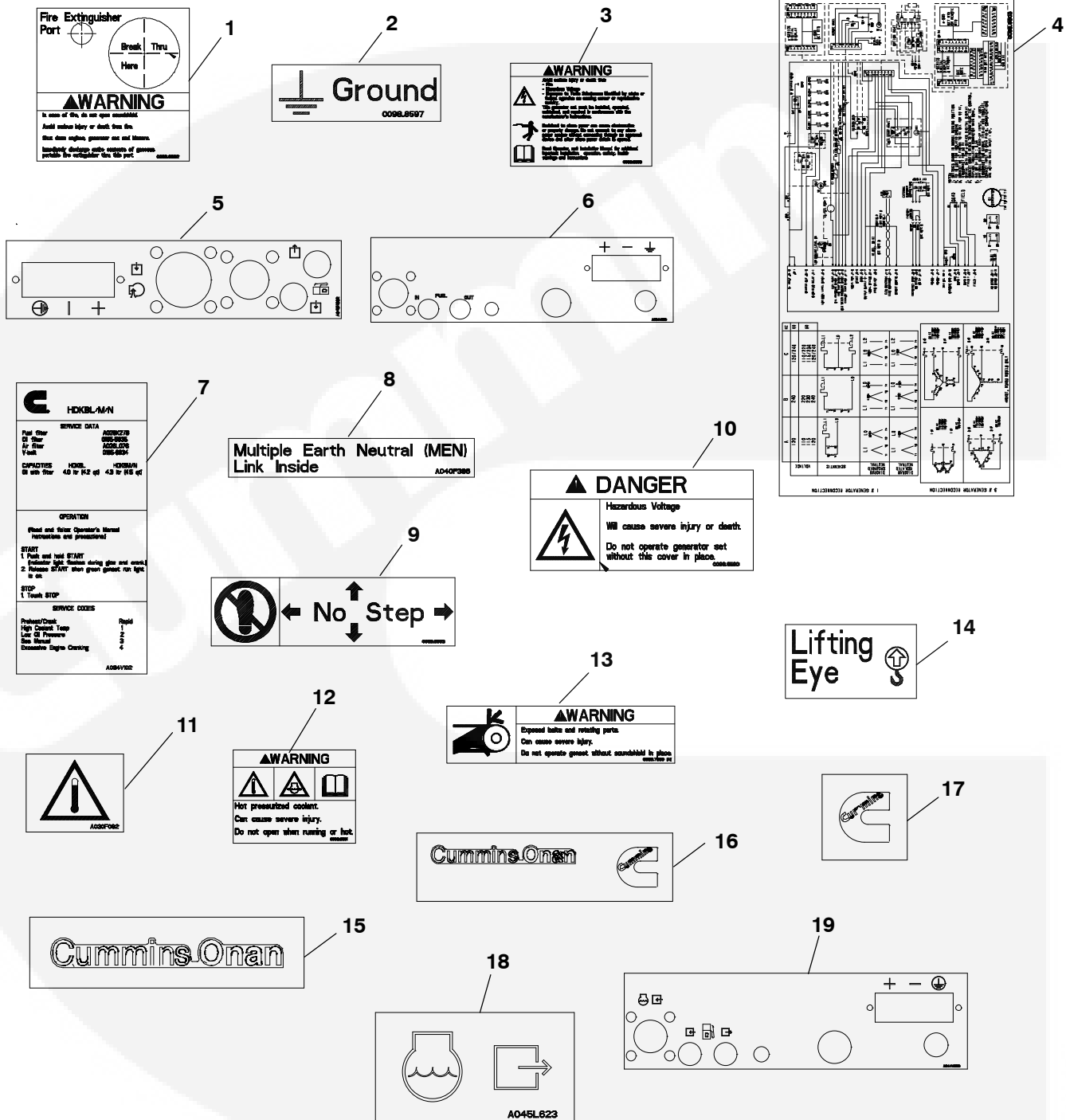
Some of the following abbreviations may be used throughout this Parts Manual:

AC	Alternating Current	LED	Light-Emitting Diode
ACB	Air Circuit Breaker	LTP	Limited Time Power Rating
ACH	Anti-Condensations Heaters	LTA	Low Temperature Aftercooling
ATS	Automatic Transfer Switch	LV	Low Voltage
Amp	Ampere	M	Meter
A/R	As Required	MCB	Miniature Circuit Breaker
AVR	Automatic Voltage Regulator	MCCB	Moulded Case Circuit Breaker
AWG	American Wire Gauge	MF	Mains Failed
BHP	Brake Horsepower	MFSS	Master First Start Sensor
BMS	Building Measurement System	mm	Millimeter
BST	Busbar Sensing Transformer	MOH	Mobile Off Highway
CAN	Controlled Area Network	MR	Mains Returned
CB	Circuit Breaker	MST	Mains Sensing Transformer
CCA	Cold Cranking Amps	MSU	Mains Sensing Unit
CHP	Combined Heat and Power	MV	Medium Voltage
COP	Continuous Power Rating	NEC	Neutral Earthing Contact
CT	Current Transformer	NFS	Not For Sale
		NPT	National Pipe Thread
dB(A)	Unit of noise level	OD	Outside Diameter
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	PowerCommand 3.3
DIP	Dual In-line Package	PC	Printed Circuit
DMC	Digital Master Control	PF	Power Factor
DMSU	Demand Load Standby Unit	Ph	Phase
ECM	Engine Control Module	PFC	Power Factor Controller
EFC	Electronic Fuel Control	PLC	Programmable Logic Controller
EIT	External/Internal Tooth	PMG	Permanent Magnet Generator
EMCU	Engine Monitoring and Control Unit	PRP	Prime Power Rating
EMF	Electromotive Force	PSU	Power Supply Unit
EPROM	Erasable Programmable Read Only Memory	PT/CT	Potential Transformer/Current Transformer
EPU	Engine Protection Unit	PTC	Power Transfer Control
ET	External Tooth	QCC	Quadrature Current Control
FAE	Full Authority Engine	RFI	Radio Frequency Interference
FSS	First Start Sensor	RMS	Root Mean Square
GCP	Generator Control Panel	RPM	Revolutions Per Minute
Genset	Generator set	RT	Right
GFI	Ground Fault Interrupter	RTD	Resistance Temperature Detector
GKWT	Global Kilowatt Transducer	Spec	Specification
HMI	Human/Machine Interface	Thk	Thick
HV	High Voltage	UL	Underwriters Laboratories Inc.
IC	Integrated Circuit	UNC	Union National Coarse
ID	Inside Diameter	UNF	Union National Fine
IEC	International Electrotechnical Commission	V	Volts
I/O	Input / Output	VAC	Volts, Alternating Current
IT	Internal Tooth	VCB	Vacuum Circuit Breaker
kVA	Apparent Power	VDC	Volts, Direct Current
kVAR	Reactive Power	VF	Volt-free
kW	Active / Real Power (Kilowatt)	VT	Voltage Transformer
kWh	Unit of electrical energy or work	W/(ET, IT, EIT)	With
LPG	Liquid Petroleum Gas		
LT	Left		

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Labels



Labels

Item	Part No.	Description	Qty
	98-8601	Label, Package – (Includes Labels marked #)	1
	A045H623	Label, Package – (Includes Labels marked +)	1
1	98-8592	+Label, Warning – Generator Operation	1
2	98-8597	+Label, Information – Ground	1
3	98-8599	+Label, Warning – Hazardous Voltage	1
4	98-8603	+Label, Warning – Wiring Diagram	1
5	A045H662	Label, Information – Rear Bulkhead	1
6	A034V088	Label, Information – Bulkhead (Spec A & B Only)	1
7	A034V102	+Label, Information – Model	1
8	A040F386	+Label, Information – Neutral	1
9	98-8593	#+Label, Information – No Step	1
10	98-8590	+Label, Danger – Hazardous Voltage	1
11	A030F092	+Label, Information – Temperature	1
12	98-8591	#+Label, Warning – Hot Pressure	1
13	98-7869	#Label, Warning – Rotating Parts	1
14	98-8596	#Label, Information – Lifting	1
15	98-8714	Label, Installation – Cummins Onan Logo	1
16	98-8717	Label, Information – Cummins Onan	1
17	98-8715	Label, Information – Cummins	1
18	A045L623	+Label, Information – Bulkhead (Spec C Only)	1
19	A044V396	Label, Information – Bulkhead (Spec C Only)	1

Consumables

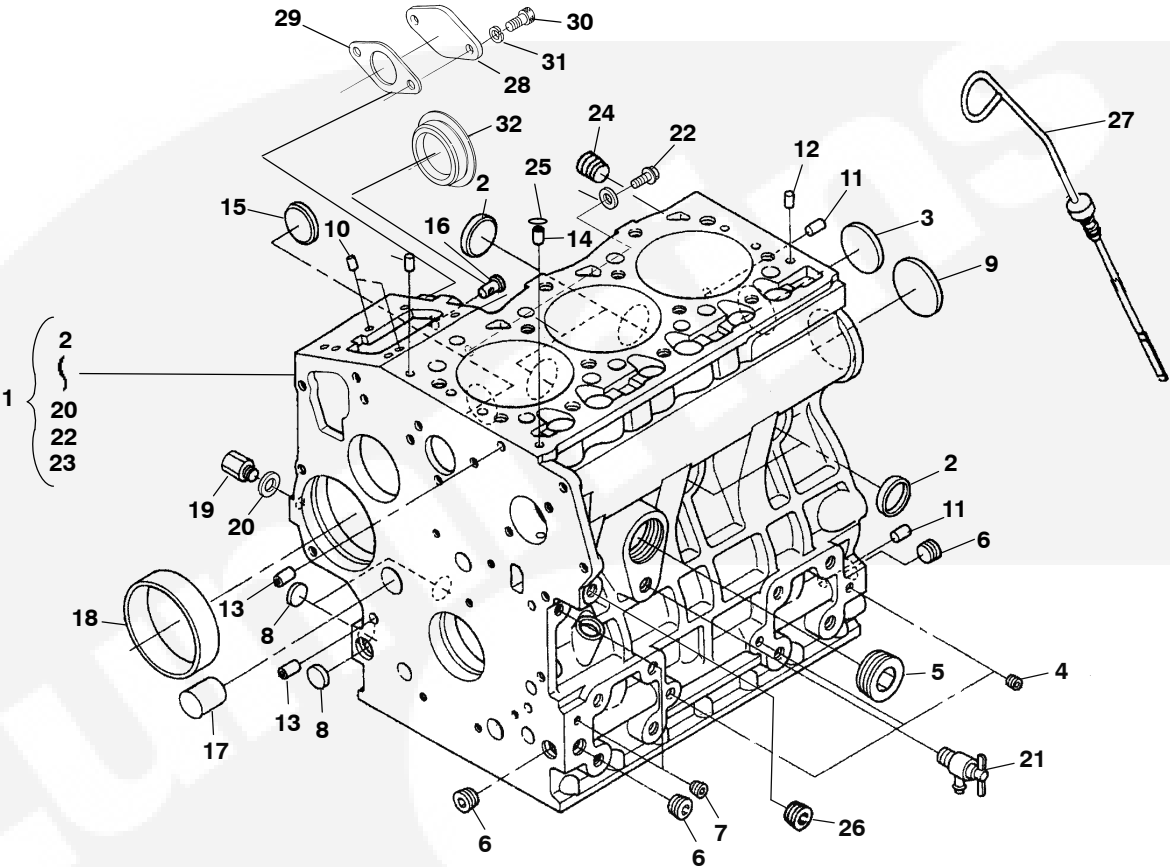
The following is a list of consumables associated with the generator models covered in this manual:

Ref. Page No.	Part No.	Description	Qty
67	185-5835	Filter, Oil	1
69, 70	185-6934	Belt, Fan (37.5")	1
73	A026K278	Filter, Fuel	1
64	185-6005	Thermostat	1
64	185-6004	Gasket, Thermostat	1
83	A026L076	Filter, Air	1

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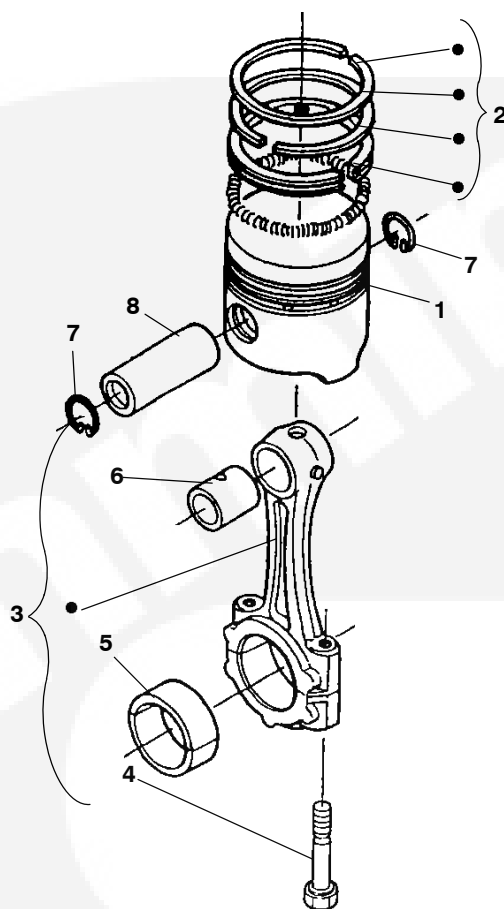
HDKBL Engine



Engine

Item	Part No.	Description	Qty
1		Assy, Engine Replacement	
	100-4101-01	12V	1
	100-4101-02	24V	1
1	185-7372	Block, Cylinder (Includes Parts Marked*)	1
2	185-5484	*Cap, Sealing	4
3	185-2412	*Cap, Sealing	1
4	185-2188	*Plug	3
5	185-6856	*Plug	1
6	185-6468	*Plug	3
7	185-2233	*Plug	2
8	185-6121	*Plug, Expansion	3
9	185-6040	*Plug, Expansion	1
10	185-5486	*Pin, Straight	2
11	185-5487	*Pin, Straight	2
12	185-7420	*Pin, Straight	2
13	185-2115	*Pin, Pipe	2
14	185-6469	*Pin, Pipe	1
15	185-7212	*Plug	1
16	185-6857	*Pin, Start Spring	1
17	185-6471	*Plug	1
18	185-6472	Bush, Governor Gear	1
19	185-5845	Plug	1
20	185-2338	*Gasket	1
21	185-5490	Cock Assy., Drain	1
22	185-2572	*Bolt, Flange	1
23	185-2284	*Gasket	1
24	185-6039	Plug	1
25	185-2095	O'Ring	1
26	185-5502	Plug	1
27	185-6866	Indicator, Oil Lever	1
28	184-0071	Cover, Solenoid	2
29	185-6579	Gasket	1
30		Bolt, Hex Socket Head	
	800-6548	Spec A	2
	A045Z579	Begin Spec B	2
31	185-6759	Washer, Spring	2
32	120-1366	Cover, Hydraulic Pump	1

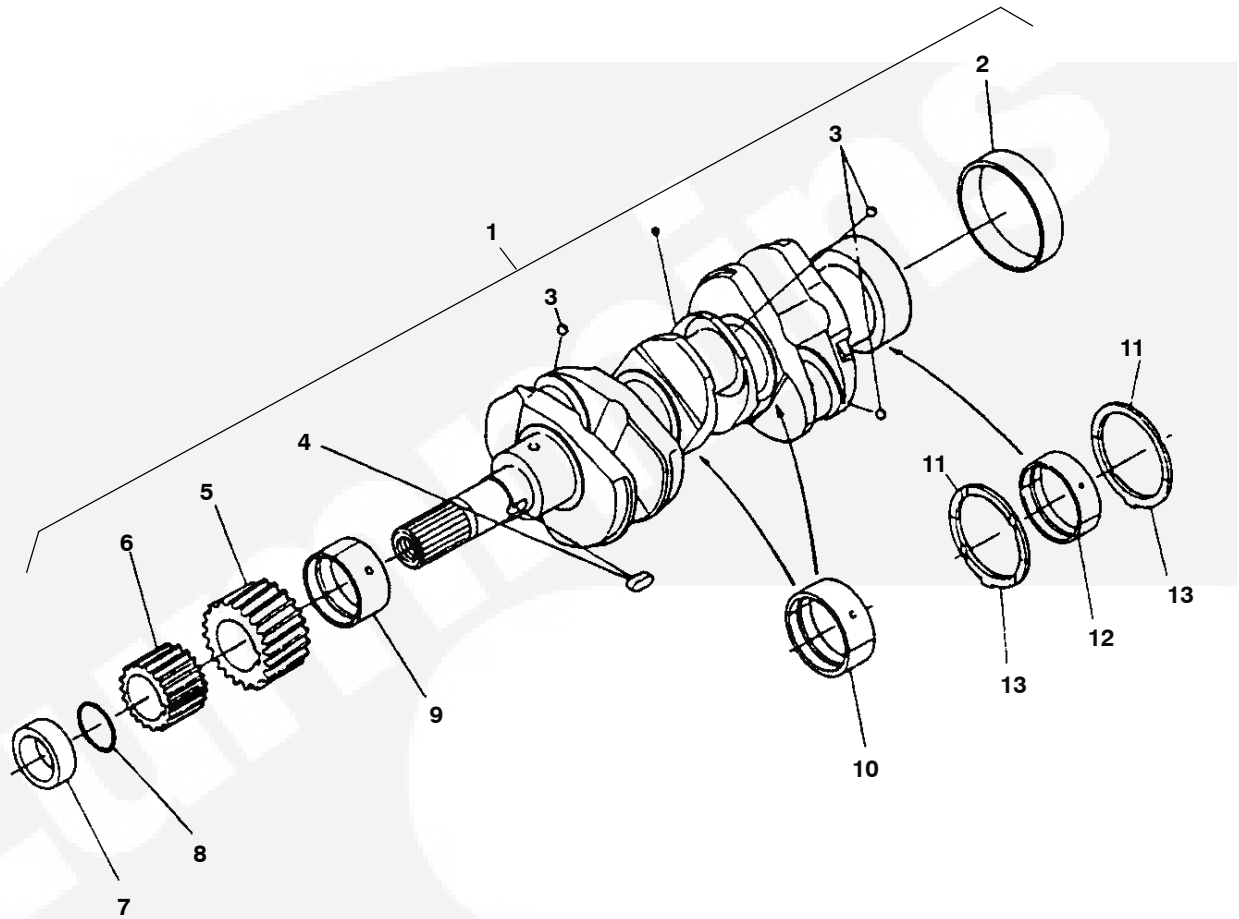
Piston HDKBL



Piston HDKBL

Item	Part No.	Description	Qty
1		Piston	
	112-0319	Standard (Spec A)	3
	A045Y939	Standard (Begin Spec B)	3
	112-0320	5mm Oversize (Spec A)	3
	A045Z584	5mm Oversize (Begin Spec B)	3
2		Ring Set, Piston	
	185-7310	Standard (Spec A)	3
	A045Y956	Standard (Begin Spec B)	3
	185-7311	5mm Oversize (Spec A)	3
	A045Z585	5mm Oversize (Begin Spec B)	3
3	114-0430	Rod Assy, Connecting (Includes Bolt, Bearing and Bushing)	3
4	181-9102	Bolt, Connecting Rod	6
5		Bearing, Connecting Rod	
	185-6536	Standard	3
	185-6537	2mm Undersize	3
	185-6538	4mm Undersize	3
6	114-0450	Bushing, Connecting Rod	3
7	185-6532	Circlip, Piston Pin	6
8	185-6531	Pin, Piston	3

Crankshaft HDKBL



Crankshaft

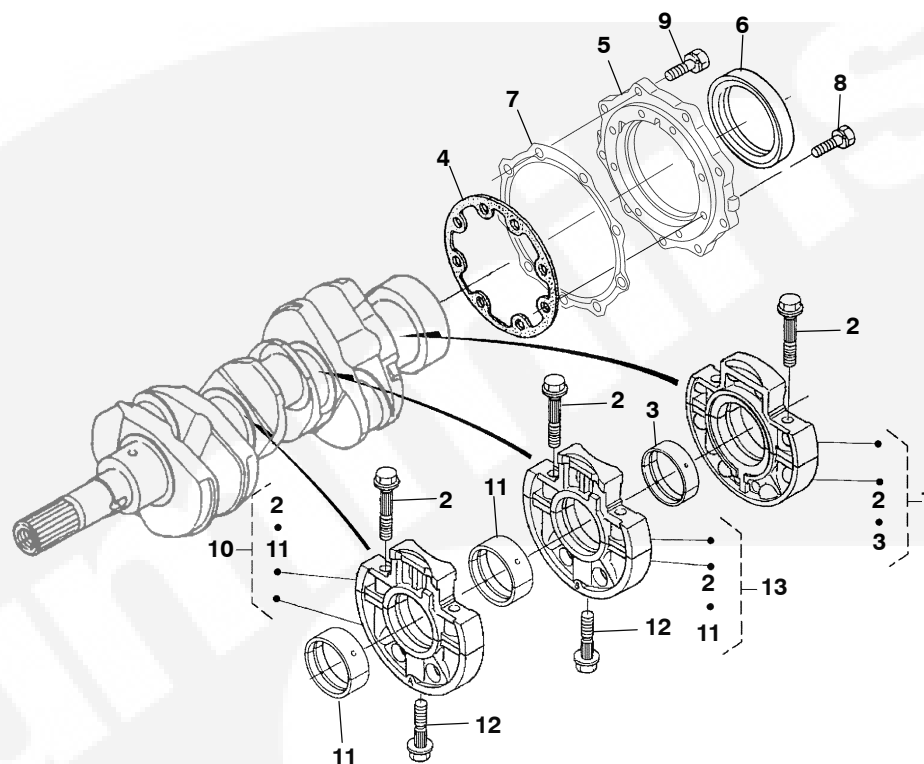
Item	Part No.	Description	Qty
1	185-7376	Crankshaft (Includes Parts Marked *)	1
2	185-6543	*Sleeve, Crankshaft	1
3	185-5924	*Ball	3
4	185-6541	*Key	1
5	185-6540	*Gear, Crankshaft	1
6	185-6542	*Gear, Oil Pump Drive	1
7	185-6544	Collar, Crankshaft	1
8	185-7429	O'Ring	1
9		Bearing, Crankshaft	
	185-6546	Standard	1
	185-6547	2mm, Undersize	1
	185-6548	4mm, Undersize	1
10		Bearing, Crankshaft	
	185-6549	Standard	2
	185-6550	2mm, Undersize	2
	185-6551	4mm, Undersize	2
11		Washer, Thrust	
	185-5938	Standard	2
	185-6555	2mm, Oversize	2
	185-6556	4mm, Oversize	2
12		Bearing, Crankshaft	
	185-7430	Standard	1
	185-6553	2mm, Undersize	1
	185-6554	4mm, Undersize	1
13		Washer, Thrust	
	185-5941	Standard	2
	185-5942	2mm, Oversize	2
	185-5943	4mm, Oversize	2

This technical diagram illustrates the assembly of a mechanical component, likely a shaft or axle, with various parts numbered 1 through 15. The components are shown in an exploded view, indicating their relative positions and assembly sequence. The parts include a long central shaft (3), a pin (2), a sleeve (1), a gear (5), a bracket (7), a nut (8), a washer (6), a gear (10), a bracket (14), a nut (15), a washer (11), a pin (12), a pin (13), and a pin (9). The diagram shows the shaft (3) being inserted into a housing (4) and secured with a pin (2) and a sleeve (1). The gear (5) is shown being mounted onto the shaft (3) using a bracket (7) and a nut (8). The gear (10) is shown being mounted onto the shaft (3) using a bracket (14) and a nut (15). The pin (12) and pin (13) are shown being inserted into the gear (10) and the bracket (14) respectively. The pin (9) is shown being inserted into the bracket (14).

Camshaft

Item	Part No.	Description	Qty
1	115-0541	Tappet	6
2	185-6517	Rod, Push	6
3	181-9120	Camshaft Assy (Includes Parts Marked *)	1
4	185-5558	*Screw, Set	1
5	185-6519	*Gear, Cam	1
6	185-5560	*Key, Feather	1
7	185-6520	*Stopper, Camshaft	1
8	185-2388	*Bolt	2
9	185-6521	Gear Assy, Idle (Includes Bushing)	1
10	185-6522	Bushing, Idle Gear	1
11	185-6523	Collar, Idle Gear	1
12	185-6524	Collar, Idle Gear	1
13	185-6525	Circlip, Idle Gear	1
14	185-6526	Shaft, Idle Gear	1
15	185-2388	Bolt	3

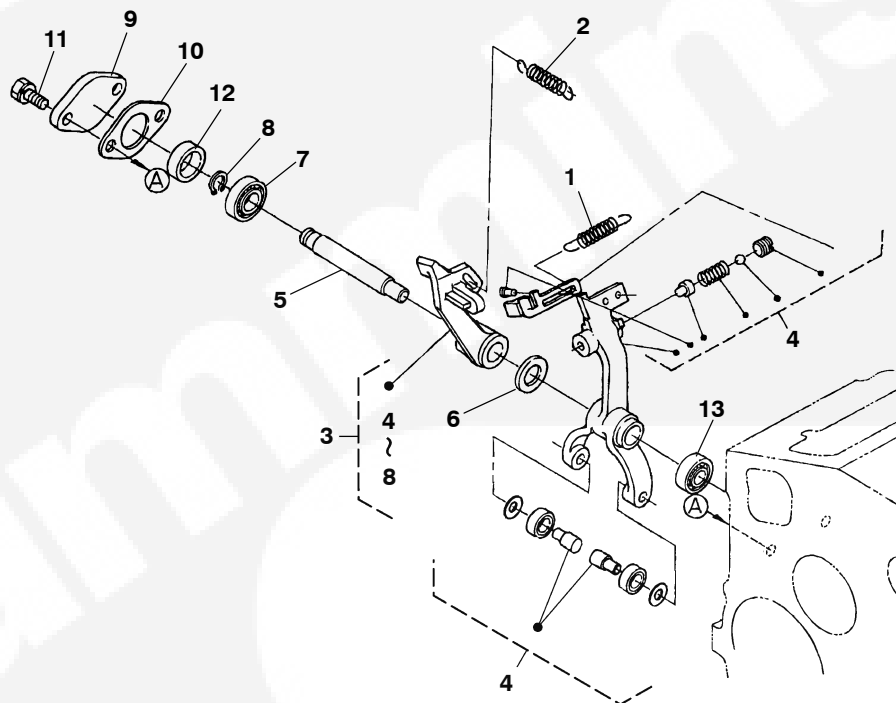
Main Bearing Case HDKBL



Main Bearing Case

Item	Part No.	Description	Qty
1	104-2120	Case Assy, Main Bearing	1
2	185-6507	Bolt, Bearing Case	3
3		Bearing	
	104-2121	Standard Set	1
	104-2157	0.20mm Set	1
	181-9137	0.40mm Set	1
4	181-9124	Gasket, Bearing Case	1
5	232-4204	Cover, Bearing Case	1
6	509-0547	Seal, Oil	1
7	185-6511	Gasket, Bearing Case Cover	1
8	185-2391	Bolt	8
9	185-2390	Bolt	9
10	104-2118	Assy, Bearing Case Main	1
11		Metal, Crankshaft	
	185-6549	Standard Set	2
	185-6550	0.20mm Set	2
	185-6551	0.40mm Set	2
12	185-6513	Bolt, Bearing Case	2
13	104-2119	Assy, Bearing Case Main	1

Governor HDKBL

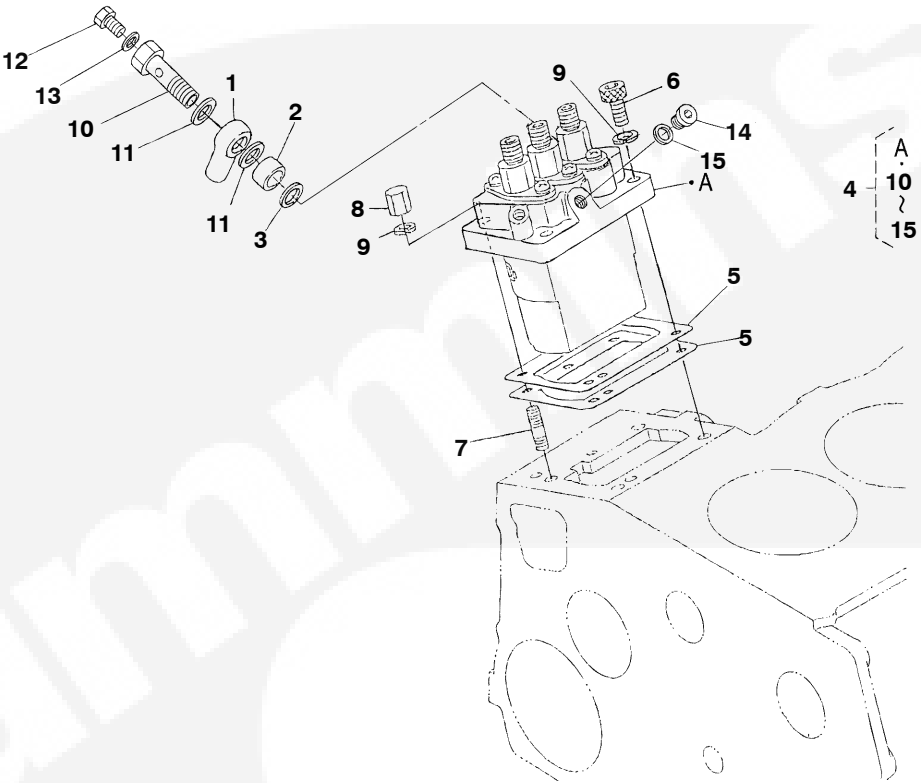


Item	Part No.	Description	Qty
1	185-6891	Spring, Start	1
2	181-9152	Spring, Governor	1
3	181-9149	Lever Assy, Fork (Includes Parts Marked *)	1
4	185-7432	*Lever, Fork (Includes Washer and Bearing)	1
5	185-6599	*Shaft, Fork Lever	1
6	185-6163	*Washer, Plain	1
7	185-6600	*Bearing, Miniature	1
8	185-6601	*Circlip, External	1
9	150-2927	Cover, Fork Lever Shaft	1
10	185-6603	Gasket	1
11	185-2386	Bolt	2
12	185-6604	Collar	1
13	185-6605	Bearing, Miniature	1

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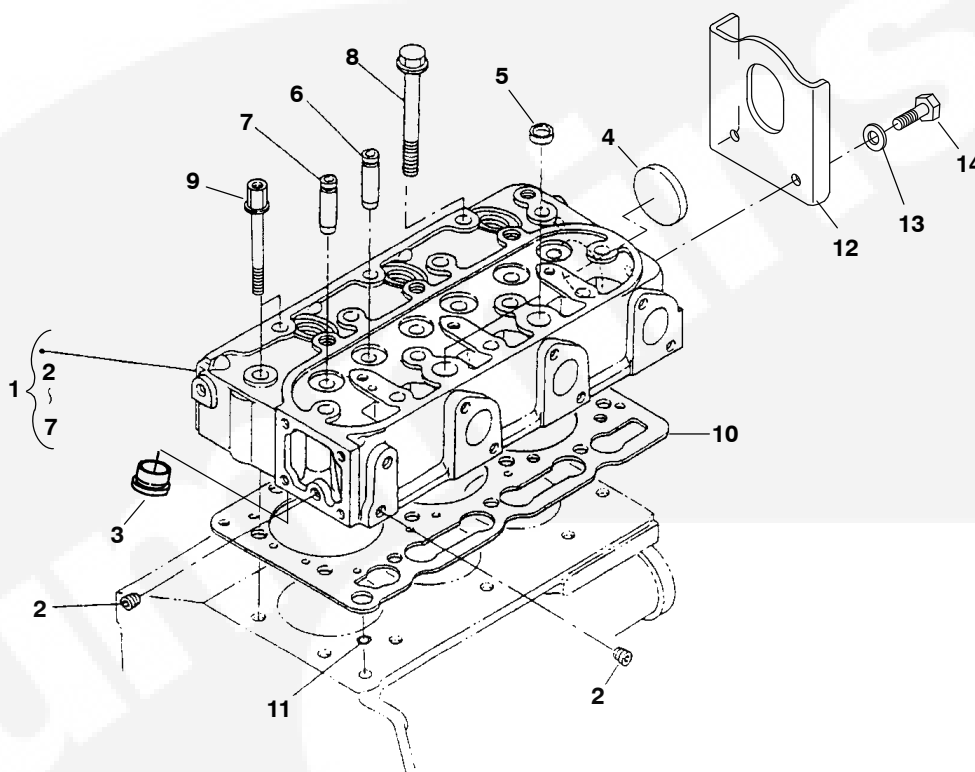
Injection Pump HDKBL



Injection Pump

Item	Part No.	Description	Qty
1	185-6584	Joint	1
2	185-6585	Collar, Joint	1
3	185-2578	Gasket	1
4	185-6882	Assy., Pump Injection	1
5		Shim, Injection Pump	
	185-6749	20mm	1
	185-6739	25mm	1
	185-6845	30mm	1
6	185-5623	Bolt, Hex Socket Head	2
7	185-5624	Stud	2
8	185-5625	Nut	2
9	185-6759	Washer, Spring	4
10	185-6887	Bolt, Joint	1
11	185-5661	Gasket	2
12	185-5662	Screw	1
13	185-5663	Gasket	1
14	185-6888	Plug	1
15	185-5823	Gasket	1

Cylinder Head HDKBL

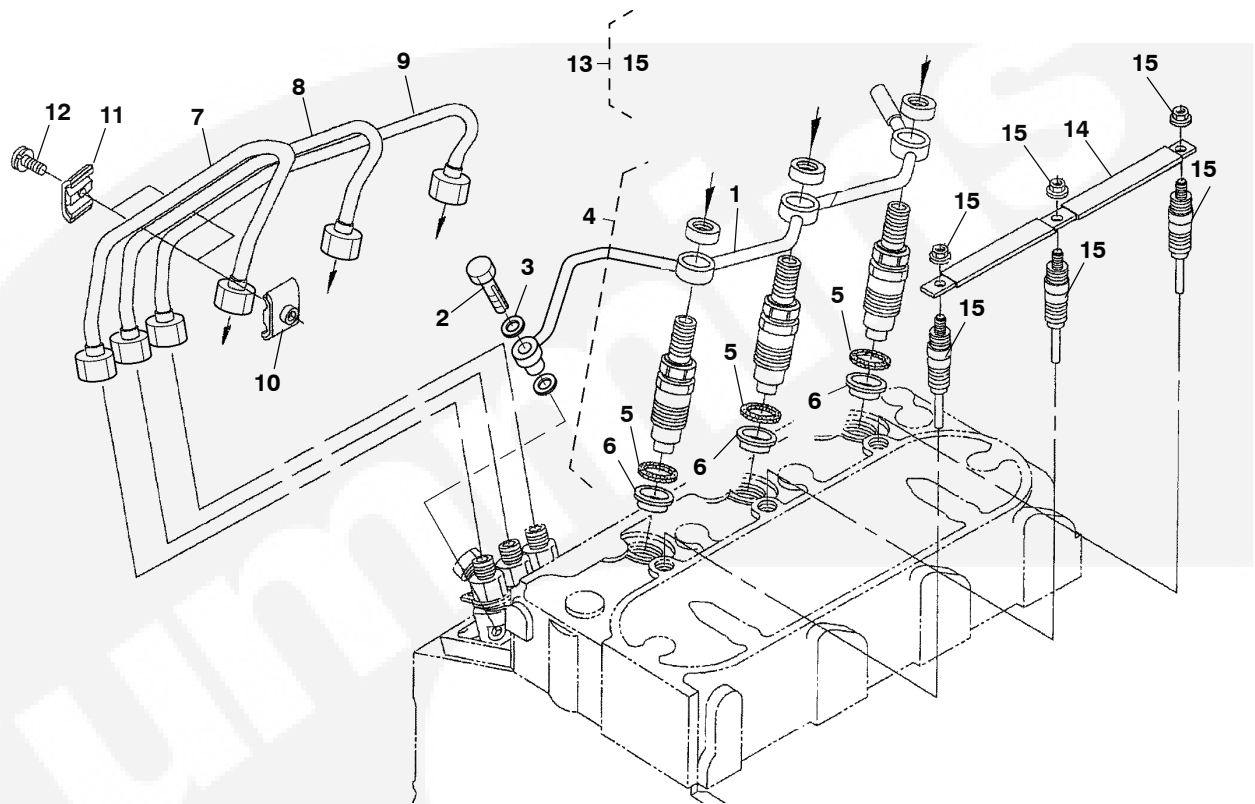


Item	Part No.	Description	Qty
1	110-4092	Head Assy, Cylinder (Includes Parts Marked *)	1
2	185-2188	*Plug	2
3	185-7375	*Chamber, Combustion	3
4	185-2411	*Cap, Sealing	1
5	185-2413	*Cap, Sealing	2
6	181-9119	*Guide, Exhaust Valve	3
7	110-3960	*Guide, Inlet Valve	3
8	185-6477	Bolt, Cylinder Head	12
9	185-6479	Bolt, Cylinder Head	2
10	181-9222	Gasket, Cylinder Head	1
11	185-2095	O'Ring	1
12	403-4284-04	Bracket, Lifting	1
13	526-0399-60	Washer, Flat (M8)	2
14	800-3017-18	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	2

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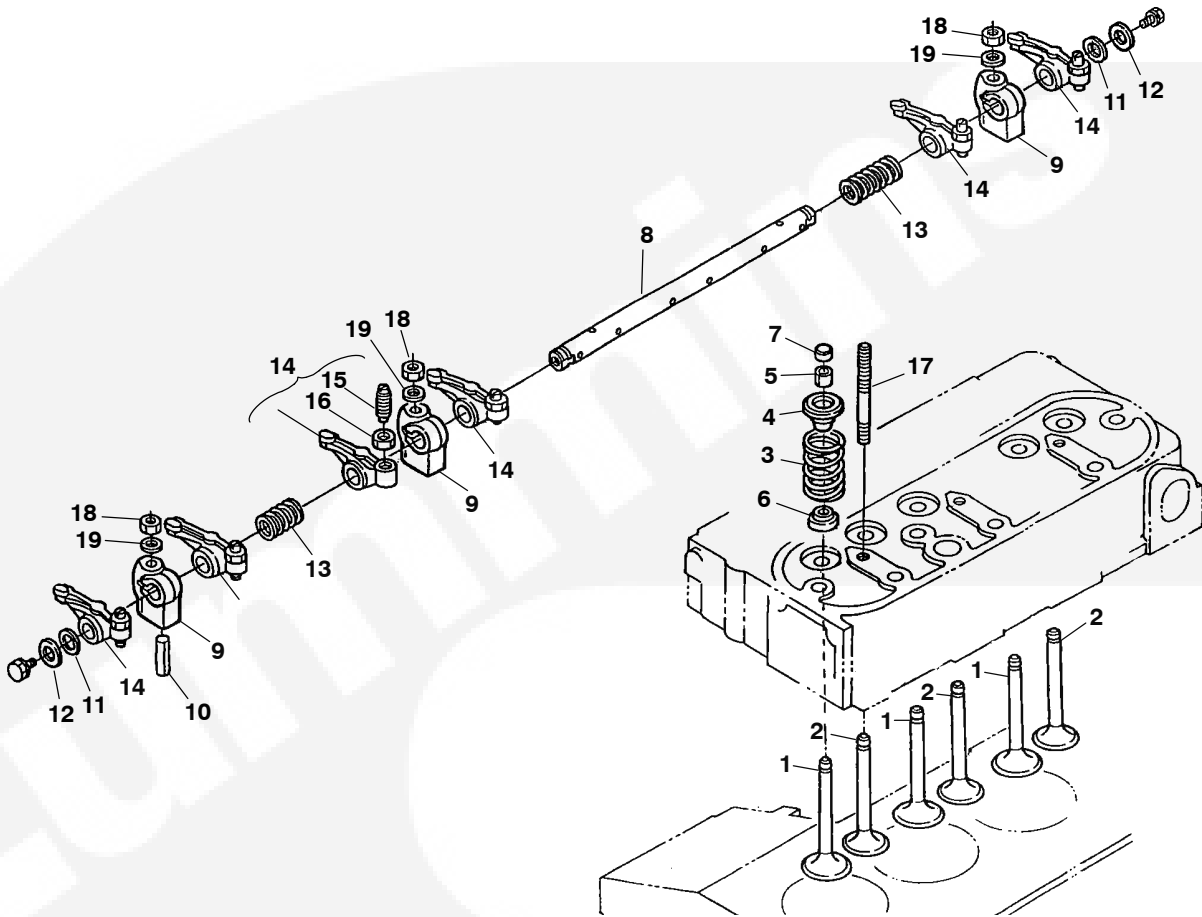
Nozzle Holder and Glow Plug HDKBL



Nozzle Holder and Glow Plug

Item	Part No.	Description	Qty
1	185-7106	Assy. Pipe, Overflow	1
2	185-7082	Screw, Air Bleeder	1
3	185-2284	Gasket	2
4	147-0978	Assy. Holder, Nozzle (See Separate Page for Components)	3
5	185-5337	Gasket	3
6	185-5985	Seal, Heat	3
7	185-6750	Pipe, Injection	1
8	185-6751	Pipe, Injection	1
9	185-6897	Pipe, Injection	1
10	185-5612	Clamp, Pipe	2
11	185-2345	Clamp, Pipe	2
12	185-2385	Screw, with Washer	2
13		Glow Plug	
	333-0802	12V (Spec A)	3
	A045Y557	12V (Begin Spec B)	3
	185-7268	24V	3
14	185-6899	Cord, Glow Plug	1
15	185-5615	Nut, Flange	3

Valve and Rocker Arm HDKBL



Valve and Rocker

Item	Part No.	Description	Qty
1	110-4021	Valve, Inlet	3
2	110-4022	Valve, Exhaust	3
3	185-6683	Spring, Valve	6
4	110-3959	Retainer, Spring	6
5	181-9036	Collet, Valve Spring	6
6	185-7300	Seal, Valve Stem	6
7	185-6459	Cap, Valve	6
8	185-7439	Shaft, Rocker Arm	1
9	185-6697	Bracket, Rocker Arm	3
10	185-7441	Pin, Spring	1
11	185-6689	Washer, Rocker Arm Shaft	2
12	185-7395	Washer, Plain	2
13	185-6691	Spring, Rocker Arm	3
14	185-6693	Assy, Rocker Arm	6
15	185-6694	Screw, Adjusting	6
16	185-6695	Nut	6
17	185-6688	Stud	3
18	185-2179	Nut	3
19	185-6040	Washer, Plain	3

This exploded view diagram illustrates the assembly of a carburetor. The main components are labeled as follows:

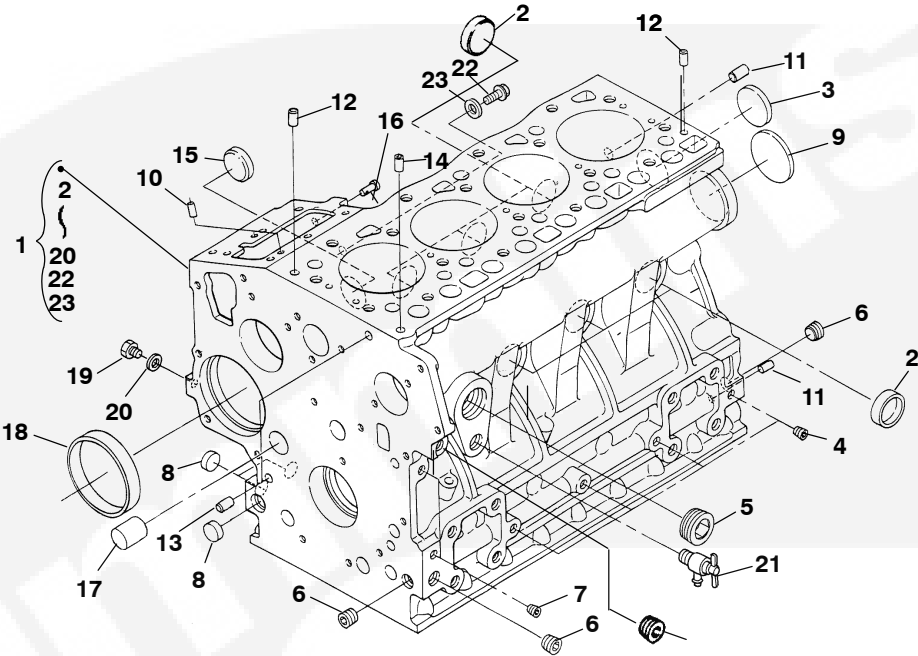
- 1**: Carburetor body (main casting)
- 2**: Mounting plate
- 3**: Float bowl
- 4**: Jet assembly (includes needle, spring, and jet)
- 5**: Needle valve
- 6**: Needle valve pin
- 7**: Needle valve O-ring
- 8**: Needle valve cap
- 9**: Needle valve cap O-ring
- 10**: Fuel inlet pipe
- 11**: Fuel inlet pipe O-ring
- 12**: Fuel inlet pipe nut
- 13**: Float valve
- 14**: Float valve O-ring

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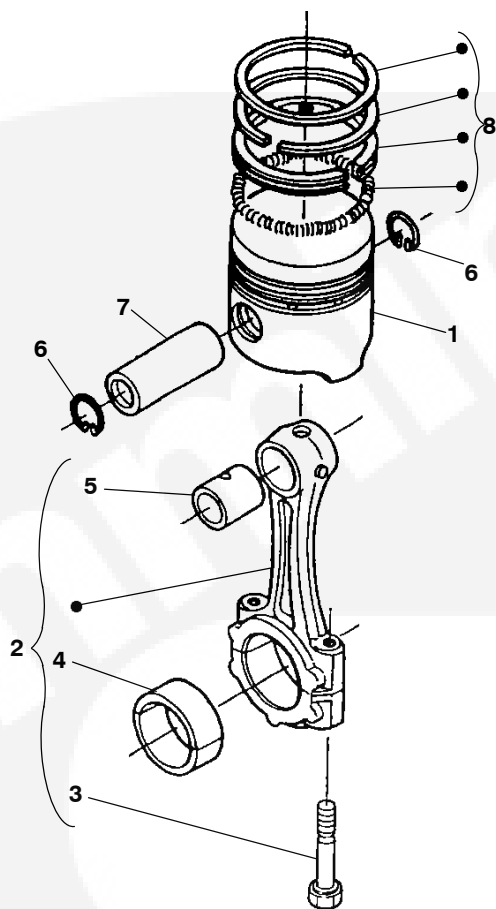
Engine HDKBM and HDKBN



Engine

Item	Part No.	Description	Qty
1		Assy, Engine Replacement	
	100-4102-01	12V	1
	100-4102-02	24V	1
1	110-4093	Block, Cylinder (Includes Parts Marked*)	1
2	185-5484	*Cap, Sealing	6
3	185-2412	*Cap, Sealing	1
4	185-2188	*Plug	4
5	185-6856	*Plug	1
6	185-6468	*Plug	3
7	185-2233	*Plug	2
8	185-6121	*Plug, Expansion	3
9	185-6040	*Plug, Expansion	1
10	185-5486	*Pin, Straight	2
11	185-5487	*Pin, Straight	2
12	185-5843	*Pin, Straight	2
13	185-2115	*Pin, Pipe	2
14	185-6469	*Pin, Pipe	1
15	185-7212	*Plug	1
16	181-9093	*Pin, Start Spring	1
17	185-6471	*Plug	1
18	185-6472	*Bush, Governor Gear	1
19	185-5845	*Plug	1
20	185-2338	*Gasket	1
21	185-5490	Cock Assy., Drain	1
22	185-2572	*Bolt, Flange	1
23	185-2284	*Gasket	1

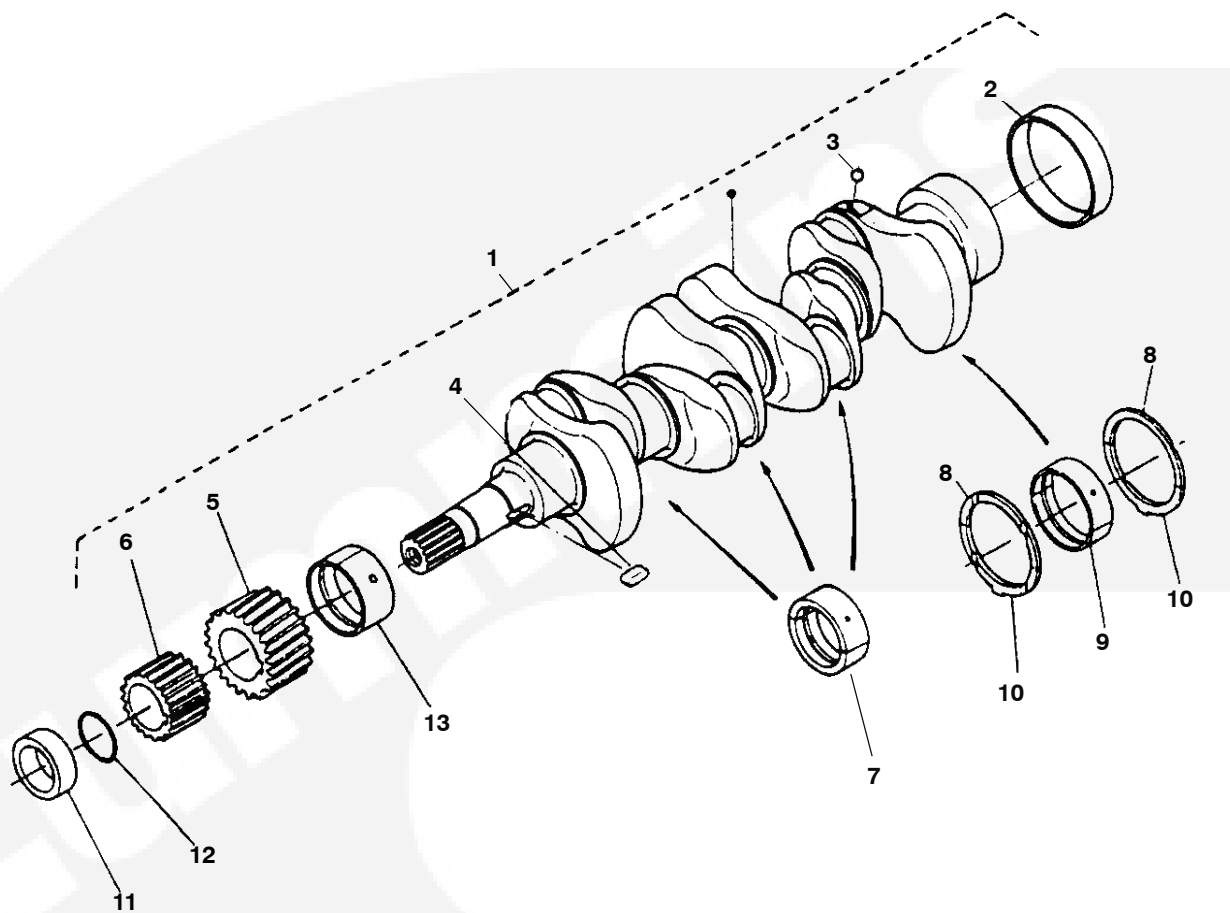
Piston HDKBM and HDKBN



Piston HDKBM and HDKBN

Item	Part No.	Description	Qty
1		Piston	
	112-0319	Standard (Spec A)	4
	A045Y939	Standard (Begin Spec B)	4
	112-0320	5mm Oversize (Spec A)	4
	A045Z584	5mm Oversize (Begin Spec B)	4
2	114-0430	Rod Assy, Connecting (Includes Bolt, Bearing and Bushing)	4
3	181-9102	Bolt, Connecting Rod	8
4		Bearing, Connecting Rod	
	185-6536	Standard	4
	185-6537	2mm Undersize	4
	185-6538	4mm Undersize	4
5	114-0450	Bushing, Connecting Rod	4
6	185-6532	Circlip, Piston Pin	8
7	185-6531	Pin, Piston	4
8		Ring Set, Piston	
	181-9134	Standard (Spec A)	4
	A045Y956	Standard (Begin Spec B)	4
	181-9135	5mm Oversize (Spec A)	4
	A045Z585	5mm Oversize (Begin Spec B)	4

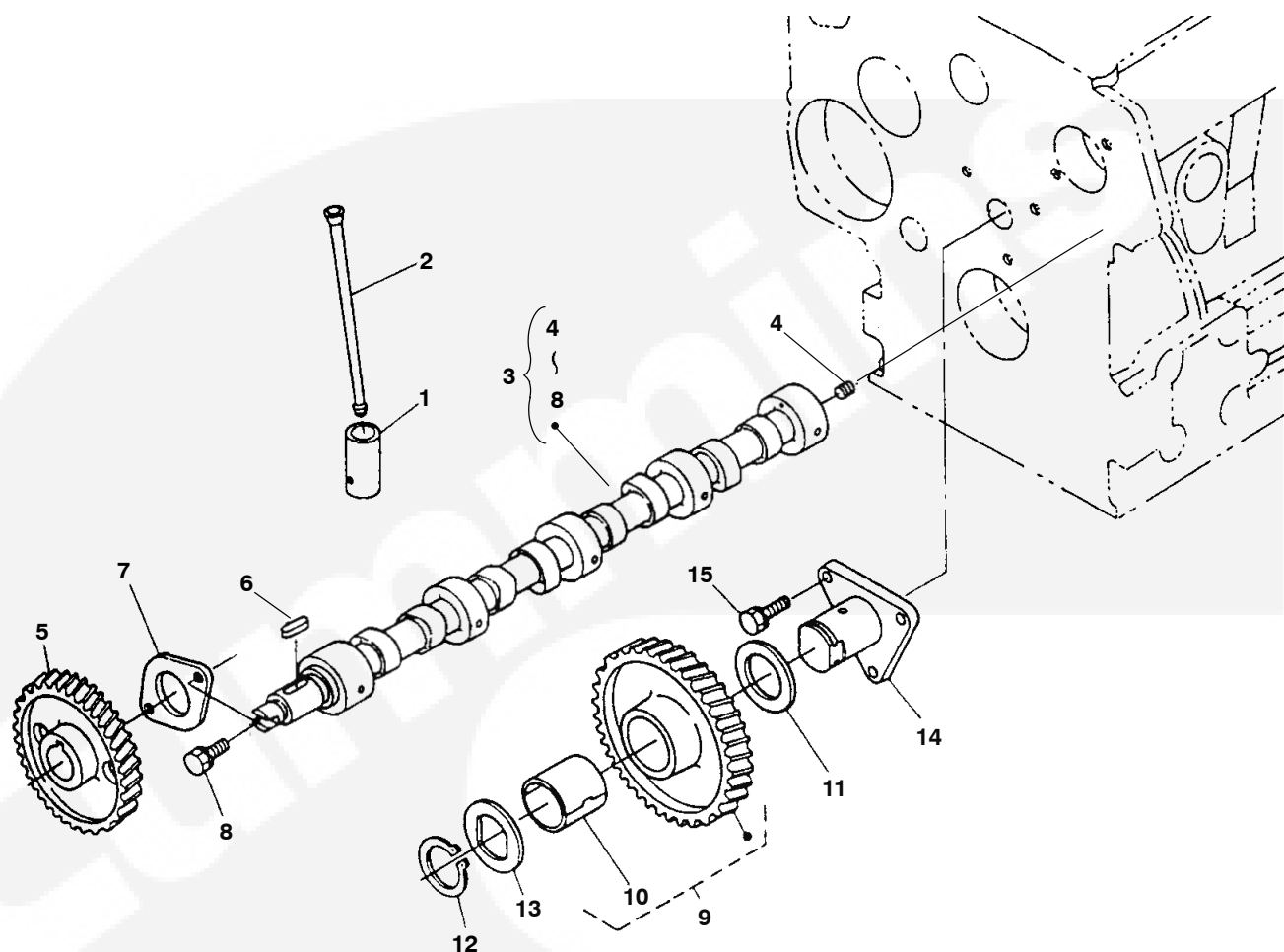
Crankshaft HDKBM and HDKBN



Crankshaft

Item	Part No.	Description	Qty
1	185-7312	Crankshaft (Includes Parts Marked *)	1
2	185-6543	*Sleeve, Crankshaft	1
3	185-5924	*Ball	4
4	185-6541	*Key	1
5	185-6540	*Gear, Crankshaft	1
6	185-6542	Gear, Oil Pump Drive	1
7		Bearing, Crankshaft	
	185-6549	Standard	3
	185-6550	2mm, Undersize	3
	185-6551	4mm, Undersize	3
8		Washer, Thrust	
	185-5938	Standard	2
	185-6555	2mm, Undersize	2
	185-6556	4mm, Undersize	2
9		Bearing, Crankshaft	
	104-2121	Standard	1
	510-0264	2mm, Undersize	1
	104-2158	4mm, Undersize	1
10		Washer, Thrust	
	185-5941	Standard	2
	185-5942	2mm, Oversize	2
	185-5943	4mm, Oversize	2
11	185-6544	Collar, Crankshaft	1
12		O'Ring	
	185-6545	Standard	1
	185-7429	2mm, Undersize	1
13		Bearing, Crankshaft	
	185-6546	Standard	1
	185-6547	2mm, Undersize	1
	185-6548	4mm, Undersize	1

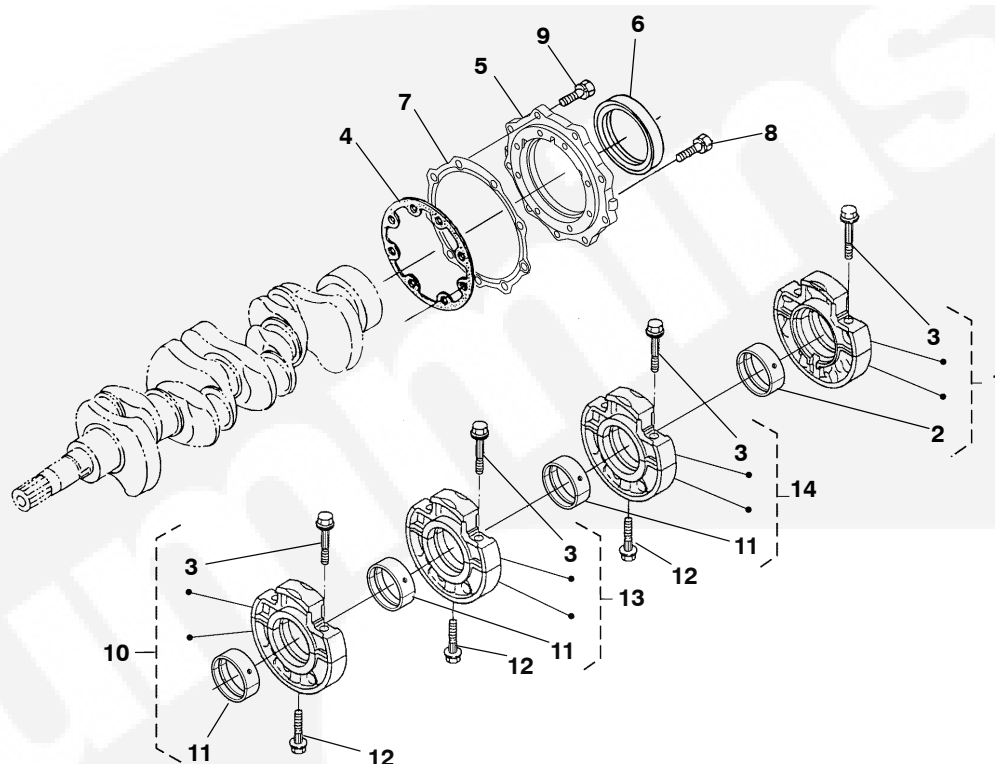
Camshaft HDKBM and HDKBN



Camshaft

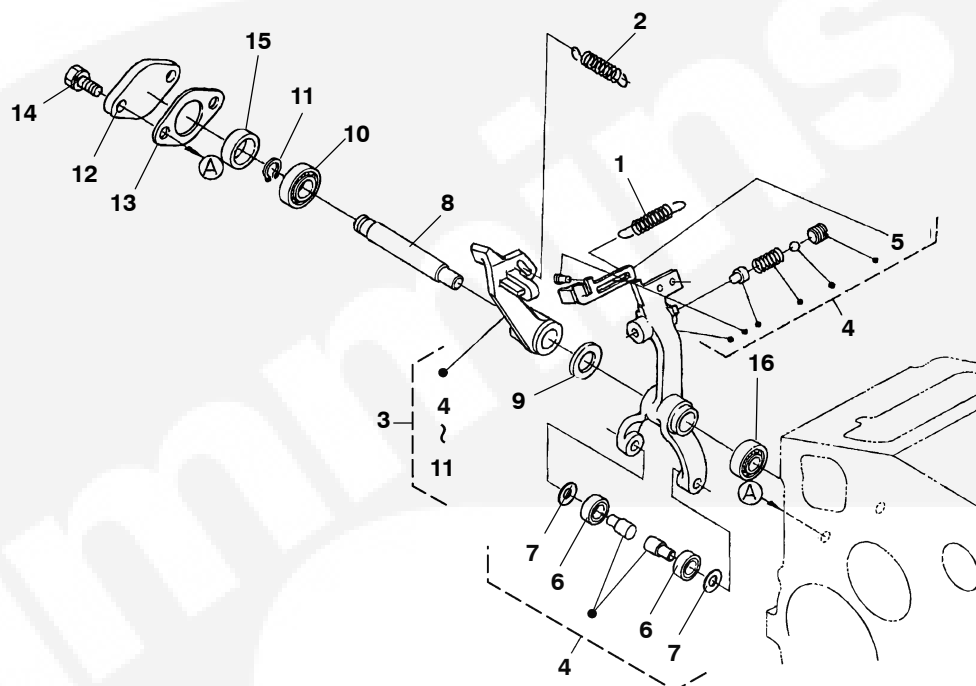
Item	Part No.	Description	Qty
1	115-0541	Tappet	8
2	185-6517	Rod, Push	8
3	181-9126	Camshaft Assy (Includes Parts Marked *)	1
4	185-5558	*Screw, Set	1
5	185-6519	*Gear, Cam	1
6	185-5560	*Key, Feather	1
7	185-6520	*Stopper, Camshaft	1
8	185-2388	*Bolt	2
9	185-6521	Gear Assy, Idle (Includes Bushing)	1
10	185-6522	Bushing, Idle Gear	1
11	185-6524	Collar, Idle Gear	1
12	185-6523	Collar, Idle Gear	1
13	185-6525	Circlip, Idle Gear	1
14	185-6526	Shaft, Idle Gear	1
15	185-2388	Bolt	3

Main Bearing Case HDKBM and HDKBM



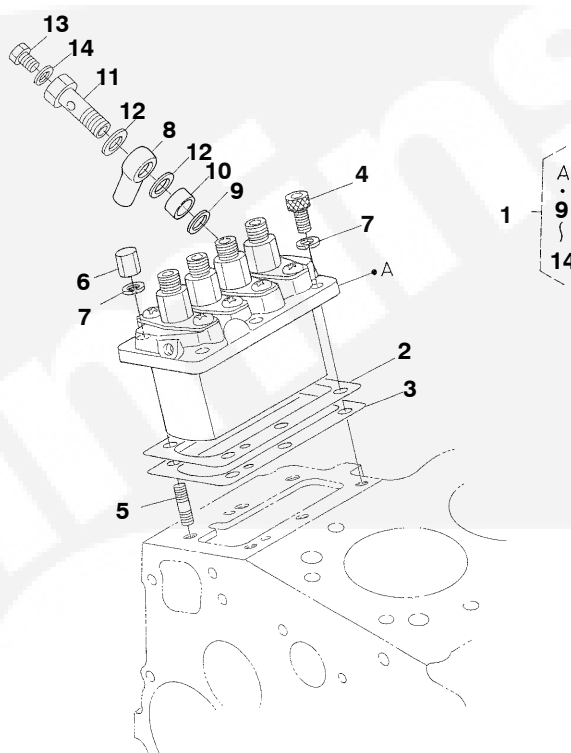
Item	Part No.	Description	Qty
1	104-2120	Case, Main Bearing	1
2	104-2121	Metal, Crankshaft	1
3	185-6507	Bolt, Bearing Case	8
4	181-9124	Gasket, Bearing Case	1
5	232-4204	Cover, Bearing Case	1
6	509-0547	Seal, Oil	1
7	101-0868	Gasket, Case Cover	1
8	185-2391	Bolt	8
9	185-2390	Bolt	9
10	104-2118	Assy Bearing Case, Main	1
11	185-6549	Metal, Crankshaft	3
12	185-6513	Bolt, Bearing Case	3
13	104-2119	Assy Bearing Case, Main	1
14	232-4226	Assy Bearing Case, Main	1

Governor HDKBM and HDKBN



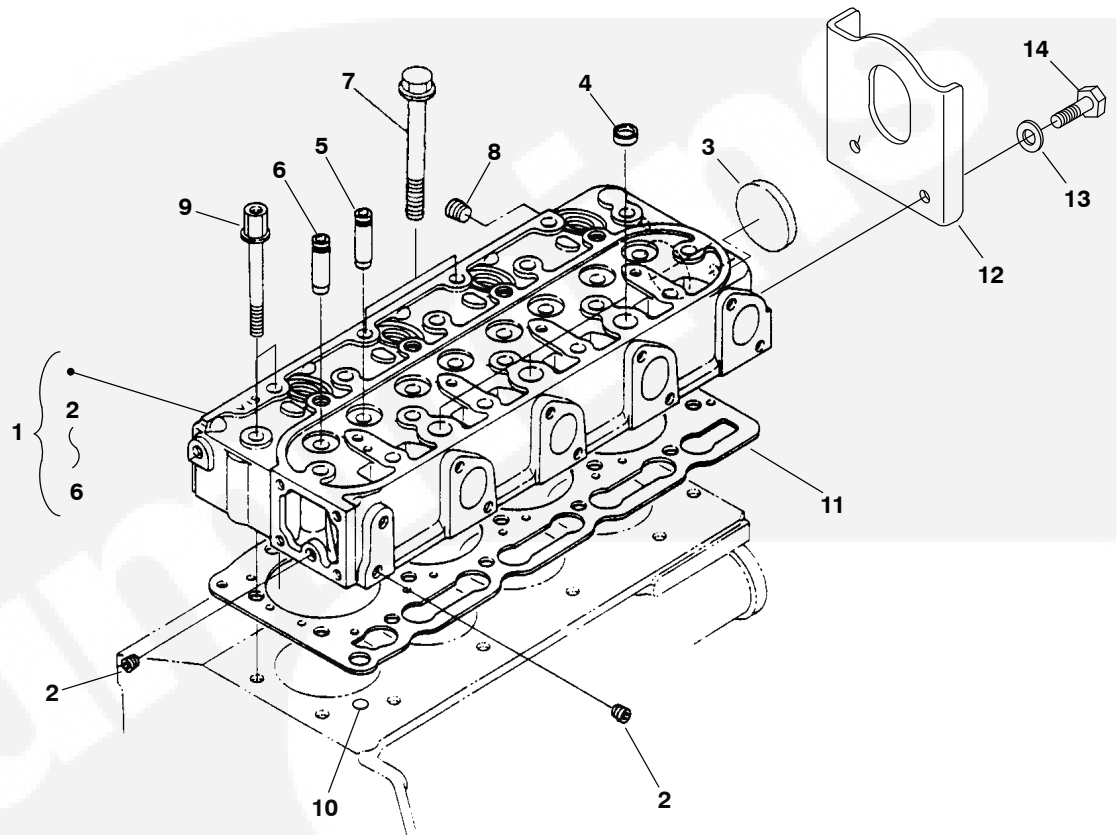
Item	Part No.	Description	Qty
1	185-6593	Spring, Start	1
2	181-9150	Spring, Governor	1
3	181-9149	Lever Assy, Fork (Includes Parts Marked *)	1
4	185-7432	*Lever, Fork (Includes Washer and Bearing)	1
5	185-6597	Lever, Thrust	1
6	185-5959	Bearing	2
7	185-5960	Washer	2
8	181-9105	*Shaft, Fork Lever	1
9	185-6163	*Washer, Plain	1
10	185-6600	*Bearing, Miniature	1
11	185-6601	*Circlip, External	1
12	150-2927	Cover, Fork Lever Shaft	1
13	185-6603	Gasket	1
14	185-2386	Bolt	2
15	185-6604	Collar	1
16	185-6605	Bearing, Miniature	1

Injection Pump HDKBM and HDKBN



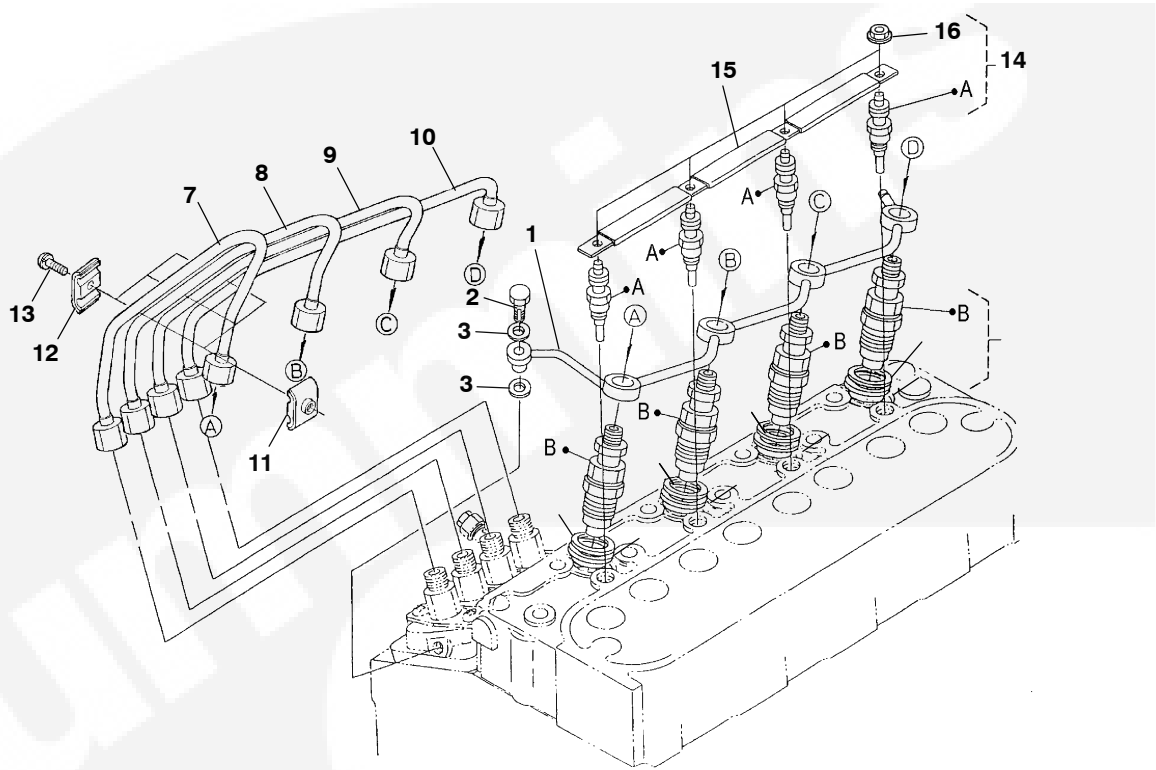
Item	Part No.	Description	Qty
1	185-6748	Assy, Pump Injection	1
2		Shim, Injection Pump	
	147-0976	20mm	1
	147-0977	25mm	1
3	185-6744	Shim, Injection Pump (.30mm)	1
4	185-5623	Bolt, Hex Head Socket	3
5	185-5624	Stud	3
6	185-5625	Nut	3
7	185-6759	Washer, Spring	6
8	185-6584	Joint	1
9	185-2578	Gasket	1
10	185-6585	Collar, Joint	1
11	185-6887	Bolt, Joint	1
12	185-5661	Gasket	2
13	185-5662	Screw	1
14	185-5663	Gasket	1

Cylinder Head HDKBM and HDKBN



Item	Part No.	Description	Qty
1	110-4094	Head Assy, Cylinder (Includes Parts Marked *)	1
2	185-2188	*Plug	2
3	185-2411	*Cap, Sealing	1
4	185-2413	*Cap, Sealing	3
5	181-9119	*Guide, Exhaust Valve	4
6	110-3960	*Guide, Inlet Valve	4
7	185-6477	Bolt, Cylinder Head	16
8	185-5502	Plug	1
9	185-6479	Bolt, Cylinder Head	2
10	185-2095	O'Ring	1
11	110-3965	Gasket, Cylinder Head	1
12	403-4284-04	Bracket, Lifting	1
13	526-0399-60	Washer, Flat (M8)	2
14	800-3017-18	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	2

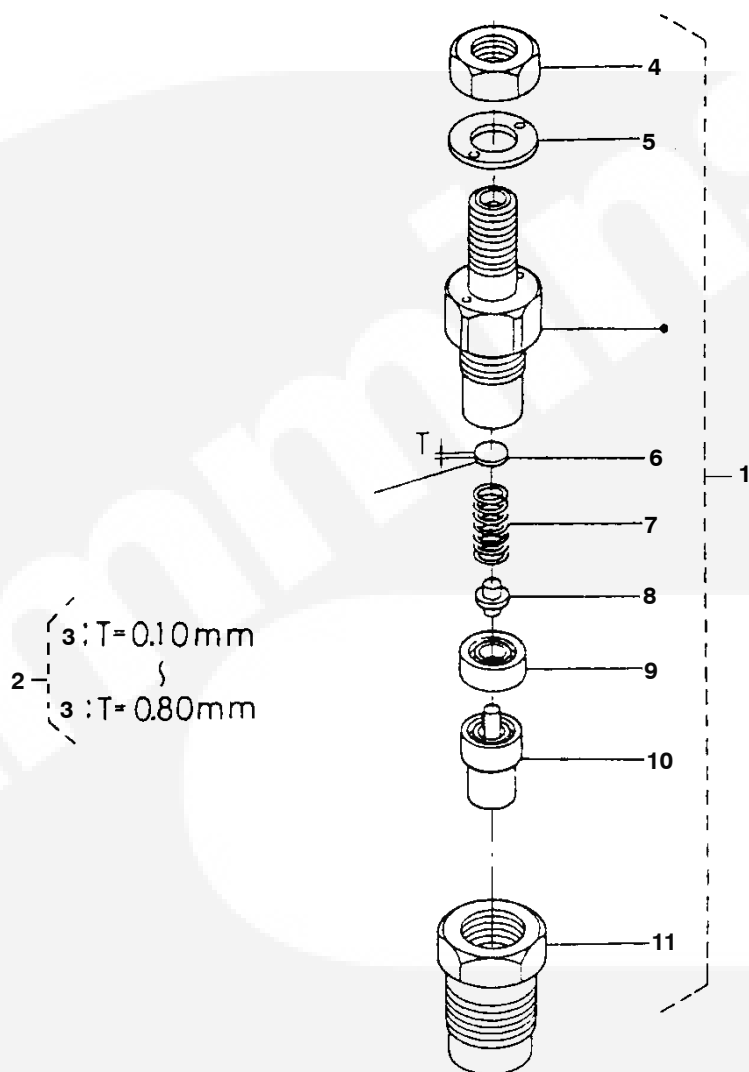
Nozzle Holder and Glow Plug HDKBM and HDKBN



Nozzle Holder and Glow Plug

Item	Part No.	Description	Qty
1	185-7265	Assy. Pipe, Overflow	1
2	185-7082	Screw, Air Bleeder	1
3	185-2284	Gasket	2
4	147-0978	Assy. Holder, Nozzle (See Separate Page for Components)	4
5	185-5337	Gasket	4
6	185-5985	Seal, Heat	4
7	185-6750	Pipe, Injection	1
8	185-6751	Pipe, Injection	1
9	185-6897	Pipe, Injection	1
10	185-7266	Pipe, Injection	1
11	185-5612	Clamp, Pipe	3
12	185-2345	Clamp, Pipe	3
13	185-2385	Screw, with Washer	3
14		Plug, Glow	
	333-0802	12V (Spec A)	4
	A045Y557	12V (Begin Spec B	4
	185-7268	24V	4
15	185-6624	Cord, Glow Plug	1
16	185-5615	Nut, Flange	4

Nozzle Holder



Nozzle Holder

Item	Part No.	Description	Qty
1	147-0978	Holder Assy, Nozzle (Includes Parts Marked *)	4
2		*Washer Assy, Adjust (Includes Adjusting Washers)	
	185-6908	HDKBL	3
	185-6908	HDKBM, HDKBN	4
3		Washer, Adjusting	
		HDKBL	
	185-6909	10mm	3
	185-6910	20mm	3
	185-6911	30mm	3
	185-6912	40mm	3
	185-6913	50mm	3
	185-6914	52mm	3
	185-6915	54mm	3
	185-6916	56mm	3
	185-6917	58mm	3
	185-6918	80mm	3
		HDKBM, HDKBN	
	185-6909	10mm	4
	185-6910	20mm	4
	185-6911	30mm	4
	185-6912	40mm	4
	185-6913	50mm	4
	185-6914	52mm	4
	185-6915	54mm	4
	185-6916	56mm	4
	185-6917	58mm	4
	185-6918	80mm	4
4		*Nut	
	185-6900	HDKBL	3
	185-6900	HDKBM, HDKBN	4
5		*Washer, Plain	
	185-6906	HDKBL	3
	185-6906	HDKBM, HDKBN	4
6		*Washer, Adjusting	
	185-6901	HDKBL	3
	185-6901	HDKBM, HDKBN	4
7		*Spring, Nozzle	
	185-6902	HDKBL	3
	185-6902	HDKBM, HDKBN	4
8		*Rod, Push	
	185-6904	HDKBL	3
	185-6904	HDKBM, HDKBN	4

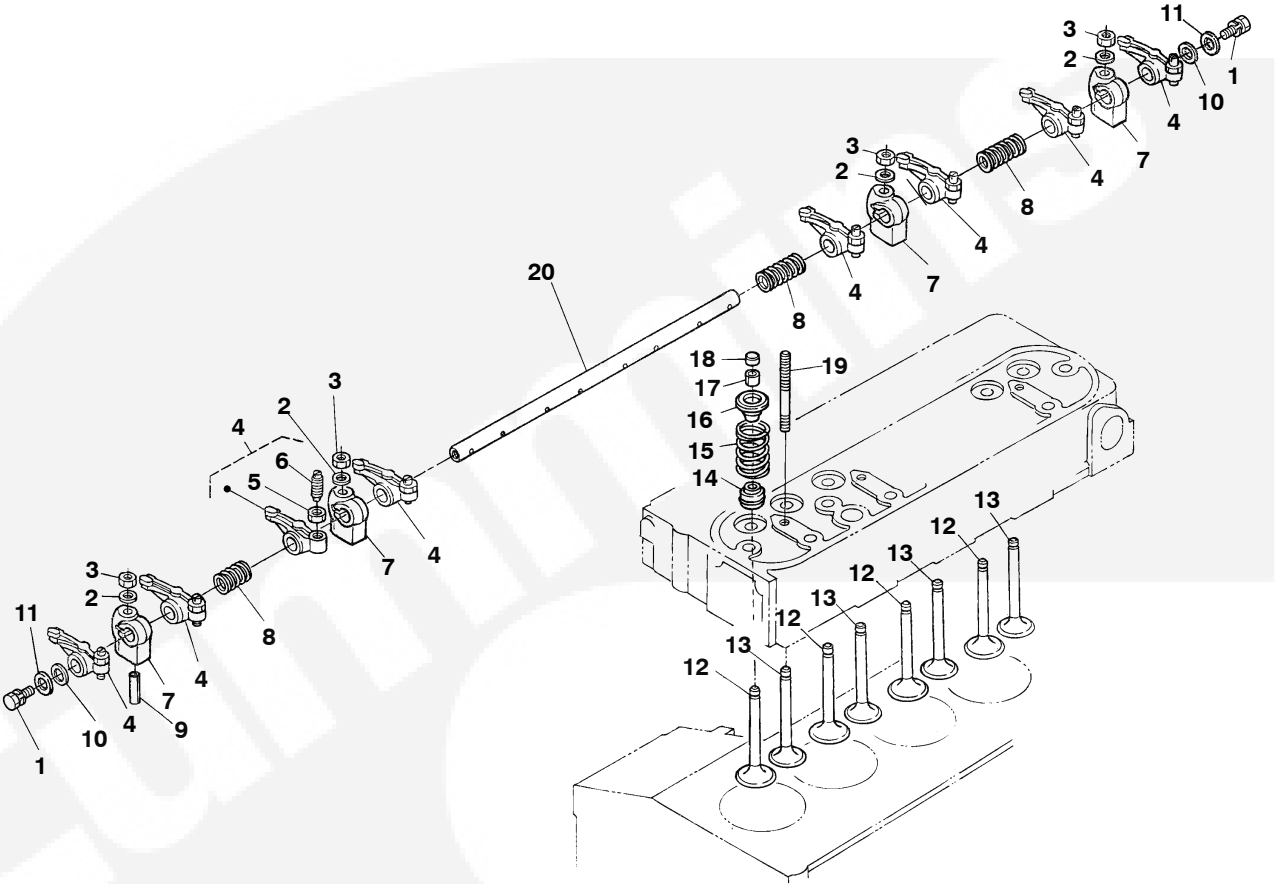
Nozzle Holder (Continued)

Item	Part No.	Description	Qty
9		*Piece, Distance	
	185-6903	HDKBL	3
	185-6903	HDKBM, HDKBN	4
10		*Piece, Nozzle	
	147-0974	HDKBL	3
	147-0974	HDKBM, HDKBN	4
11		*Nut, Nozzle	
	185-6905	HDKBL	3
	185-6905	HDKBM, HDKBN	4

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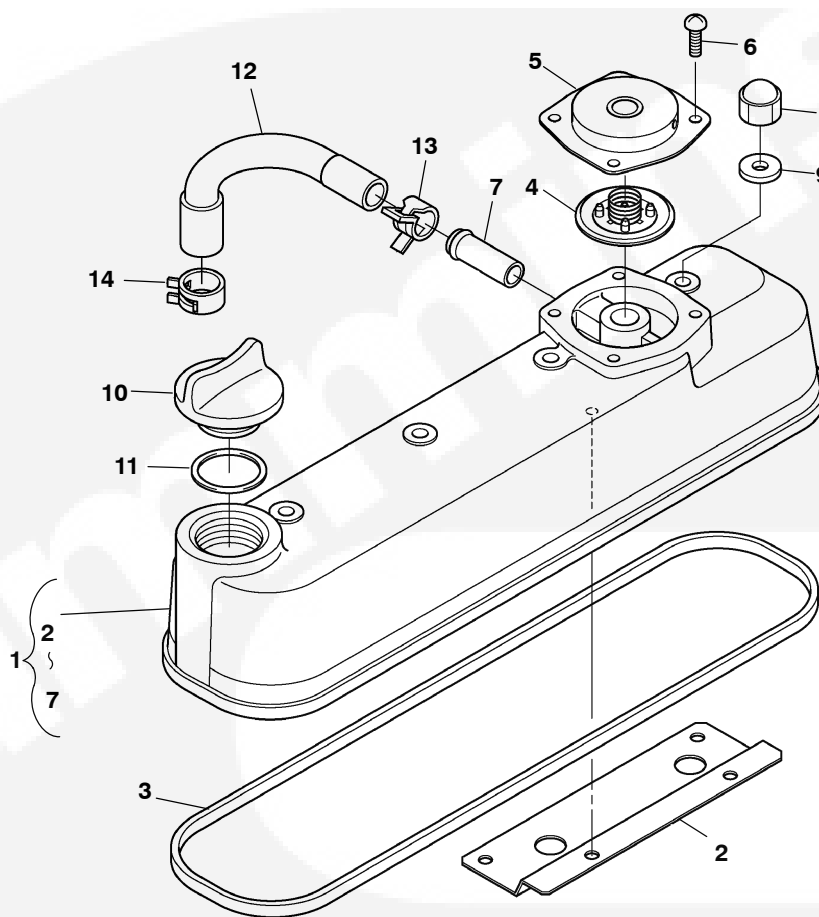
Valve and Rocker Arm HDKBM and HDKBN



Valve and Rocker Arm

Item	Part No.	Description	Qty
1	185-7440	Bolt	2
2	185-2184	Washer, Plain	4
3	185-2179	Nut	4
4	185-6693	Arm Assy, Rocker (Includes Screw and Nut)	8
5	185-6695	Nut	8
6	185-6694	Screw, Adjusting	8
7	185-6687	Bracket, Rocker Arm	4
8	185-6691	Spring, Rocker Arm	3
9	185-7441	Pin, Spring	1
10	185-6689	Washer, Rocker Arm Shaft	2
11	185-7395	Washer, Plain	2
12	110-4021	Valve, Inlet	4
13	110-4022	Valve, Exhaust	4
14	110-3974	Seal, Valve Stem	8
15	185-6683	Spring, Valve	8
16	181-9117	Retainer, Spring	8
17	181-9036	Collet, Valve Spring	8
18	185-6459	Cap, Valve	8
19	185-6688	Stud	4
20	181-9100	Shaft, Rocker Arm	1

Cylinder Head Cover HDKBM and HDKBN

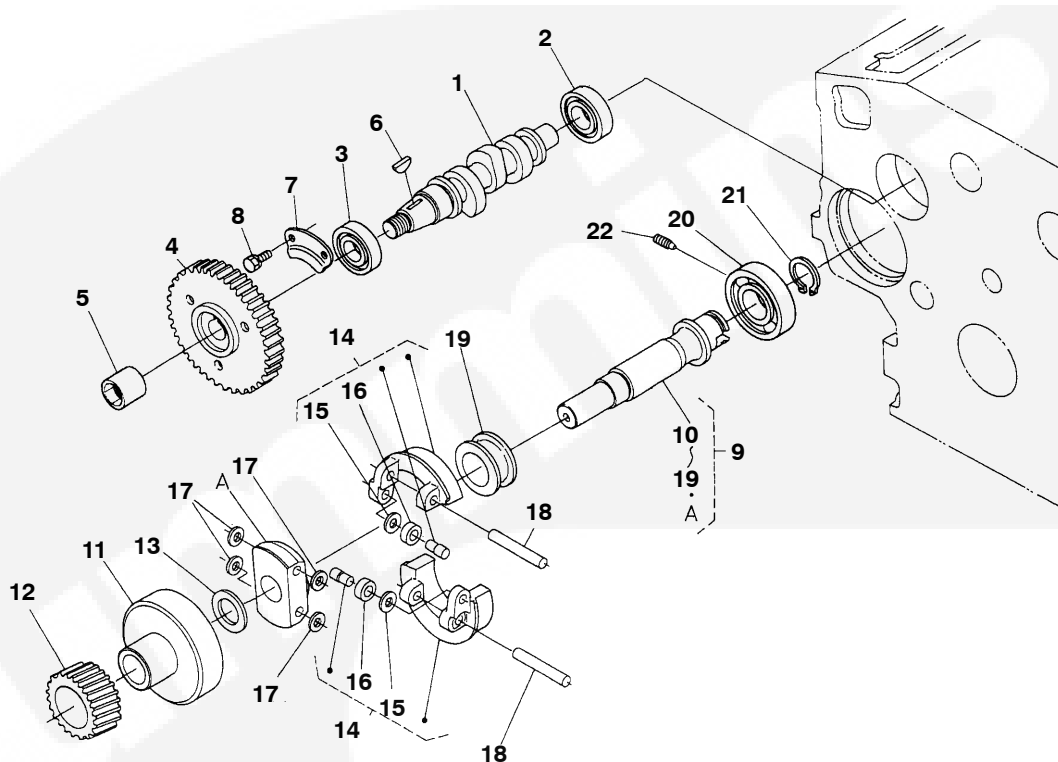


Item	Part No.	Description	Qty
1	134-5386	Cover Assy, Cylinder Head (Includes Parts Marked*)	1
2	123-2298	Shield, Breather	1
3	185-6498	*Gasket, Cylinder Head Cover	1
4	181-9240	*Comp. Valve, Breather	1
5	181-9238	*Cover, Breather	1
6	185-2384	*Screw, Pan Head	4
7	181-9188	*Pipe, Water Return	1
8	181-9079	*Nut	3
9	185-2291	Gasket	3
10	181-9000	Plug, Oil Filler	1
11	185-7426	O' Ring	1
12	181-9220	Tub, Breather	1
13	181-9109	Clamp, Hose	1
14	181-9025	Clamp, Hose	1

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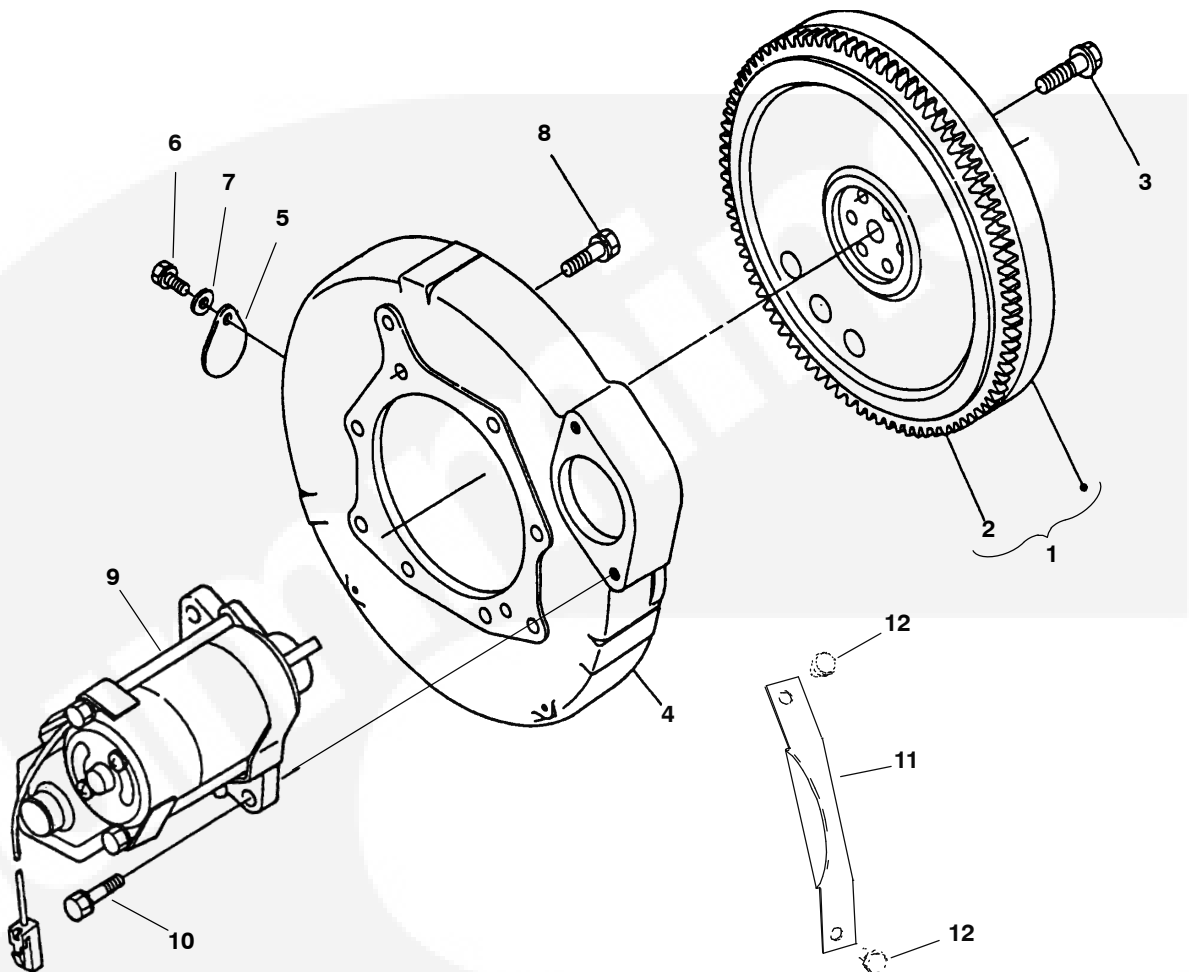
Fuel Camshaft



Fuel Camshaft

Item	Part No.	Description	Qty
1		Camshaft, Fuel	
	185-6875	HDKBL	1
	185-6741	HDKBM and HDKBN	1
2	181-9122	Bearing, Ball	1
3	181-9123	Bearing, Ball	1
4	181-9223	Gear, Injection Pump	1
5	185-6560	Nut	1
6	185-6561	Key, Woodruff	1
7	185-6562	Stopper, Fuel Camshaft	1
8	185-2388	Bolt	2
9		Assy. Shaft, Governor	
	185-6877	HDKBL	1
	185-6563	HDKBM and HDKBN	1
10		Shaft, Governor	
	185-6878	HDKBL	1
	185-6564	HDKBM and HDKBN	1
11	185-6880	Holder, Governor Gear	1
12	185-6565	Gear, Governor	1
13	185-6566	Collar, Governor Weight	1
14	185-6567	Comp Weight, Governor	2
15	185-5960	Washer	2
16	185-5959	Bearing	2
17	185-6568	Washer, Governor Weight	4
18	185-6569	Shaft, Governor Weight	2
19	185-6570	Sleeve, Governor	1
20	185-6571	Bearing, Ball	1
21	185-6572	Circlip, Governor Shaft	1
22	185-6573	Screw, Set	1

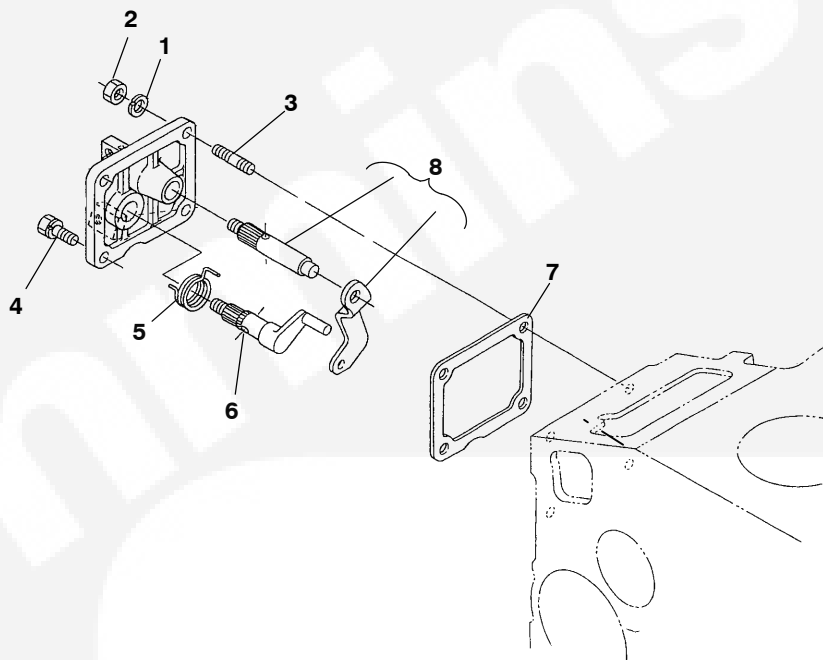
Flywheel



Flywheel

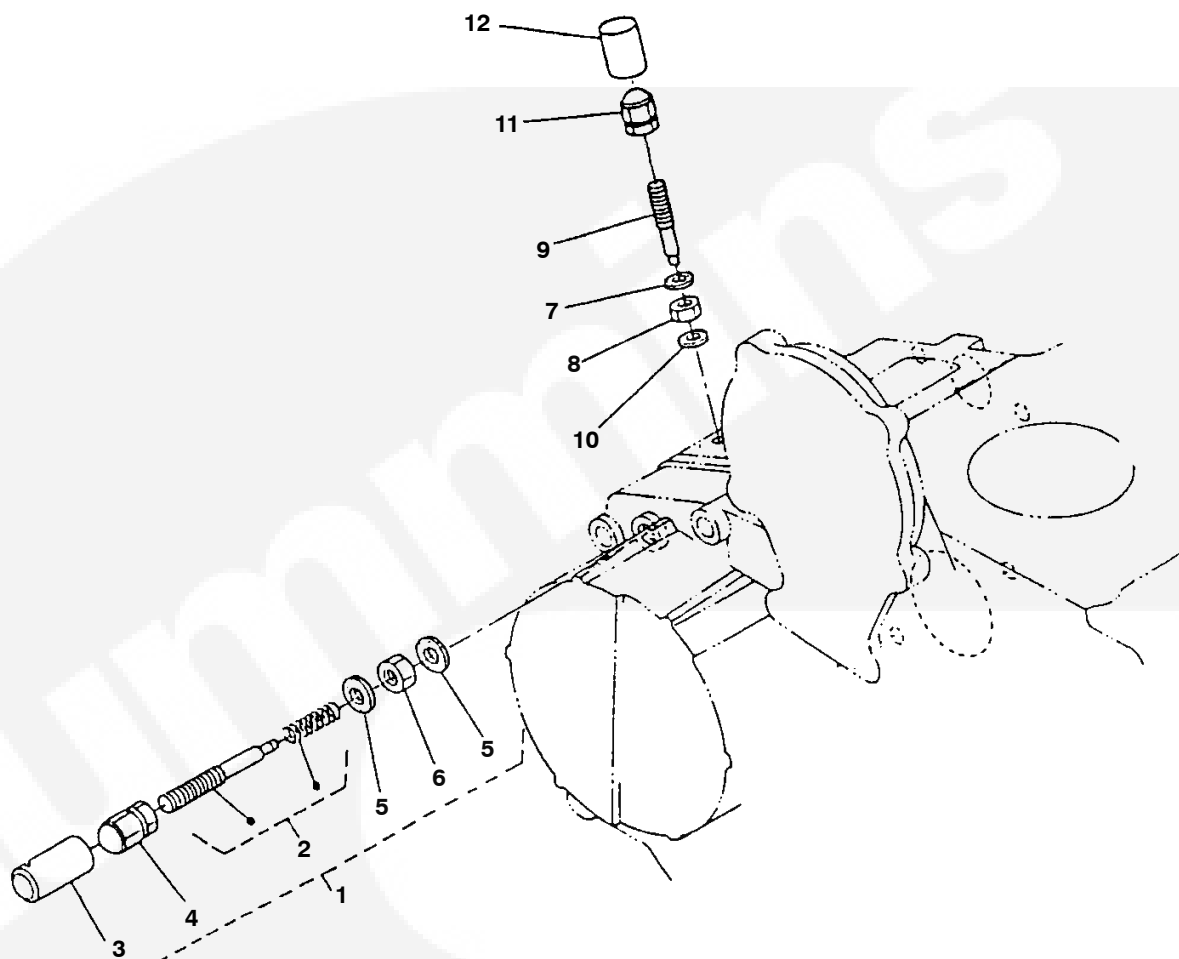
Item	Part No.	Description	Qty
1		Flywheel (Includes Ring Gear)	
	104-2156	HDKBL	1
	104-2159	HDKBM and HDKBN	1
2	185-2170	Gear, Ring	1
3	185-6409	Bolt, Flywheel	6
4	185-7218	Housing, Flywheel	1
5	185-7219	Cover	1
6		Bolt	
	185-6956	HDKBL	1
	185-7222	HDKBM and HDKBN	1
7	185-7221	Washer, Plain	1
8	185-2178	Bolt	8
9		Starter	
	185-7104	12V	1
	185-7105	24V	1
10	185-2564	Screw	2
11	191-2275-02	Guard, Starter	1
12	815-0194	Screw, Hex Head (#10-32 x .38")	2

Speed Control Plate



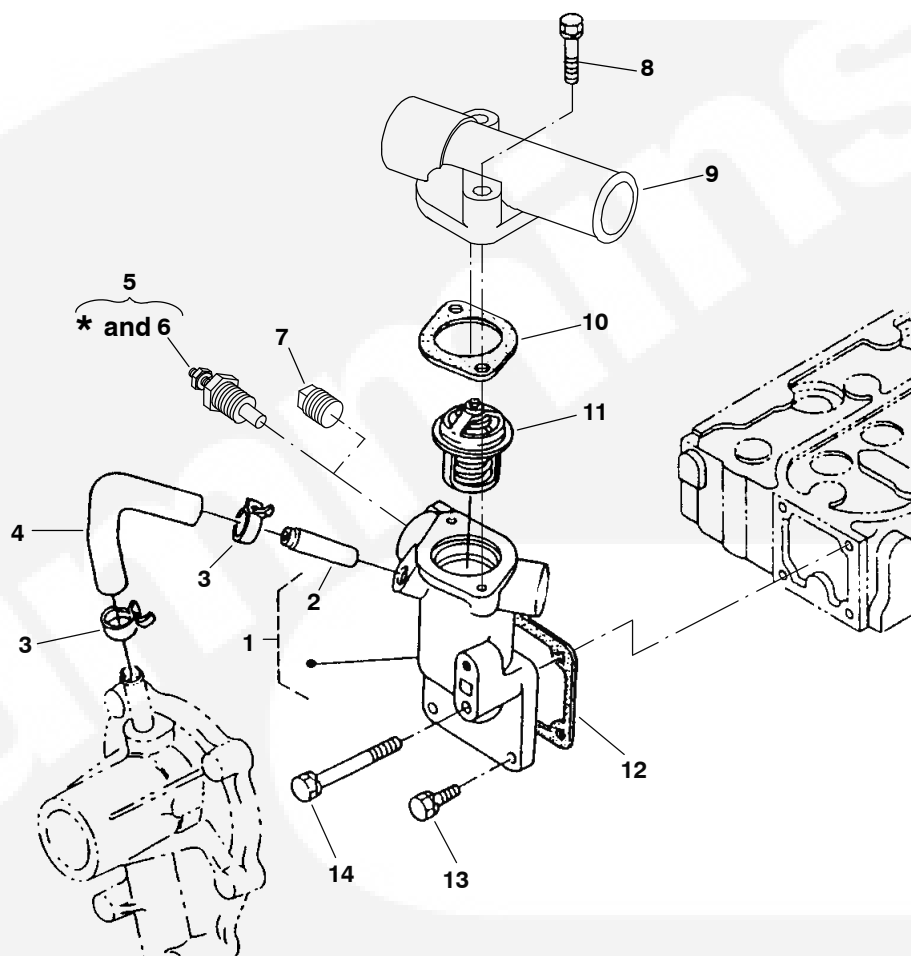
Item	Part No.	Description	Qty
1	185-6759	Washer, Spring	2
2	185-4255	Nut	2
3		Stud	
	185-7425	Spec A	2
	A045Y579	Begin Spec B	2
4	185-2388	Bolt	1
5	185-6614	Spring, Return	1
6	185-6615	Shaft, Stop Lever	1
7	185-6894	Gasket	1
8	185-6612	Comp, Lever, Governor	1

Governor Lever



Item	Part No.	Description	Qty
1	181-9113	Assy, Governor Lever (Includes Parts Marked *)	1
2	181-9114	*Bolt Assy, Adjusting	1
3	185-6930	*Cap	1
4	181-9067	*Nut, Cap	1
5	185-2284	*Gasket	2
6	185-5684	*Nut	1
7	185-2284	Gasket	1
8	185-6931	Nut, Lock	1
9	181-9104	Bolt, Adjusting	1
10	185-7313	Gasket	1
11	181-9067	Nut, Cap	1
12	185-6932	Cap	1

Water Flange

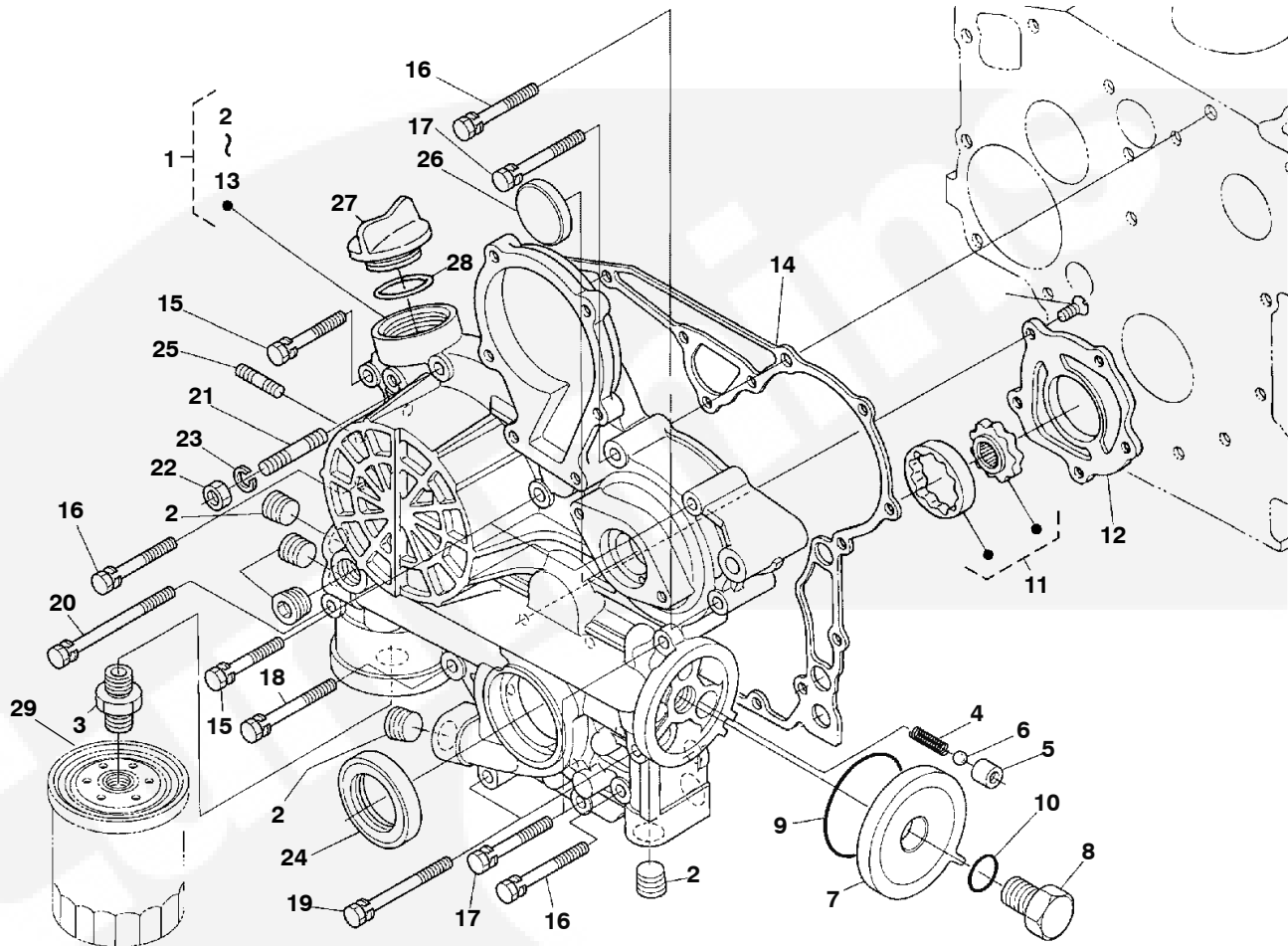


Item	Part No.	Description	Qty
1	185-7297	Flange, Water (Includes Water Return Pipe)	1
2	185-6445	Pipe, Water Return	1
3	185-6667	Band, Pipe	2
4	185-6666	Pipe, Water Return	1
5	300-5040	Kit, Sender (Includes Water Temperature Sender)	1
6	193-0318	Sender, Water Temperature	1
7	185-5826	Plug	1
8	185-6781	Bolt	2
9	185-7298	Cover, Thermostat	1
10	185-6004	Gasket, Thermostat	1
11	185-6005	Thermostat	1
12	185-6922	Gasket, Water Flange	1
13	185-2388	Bolt	3
14	185-6665	Bolt	1

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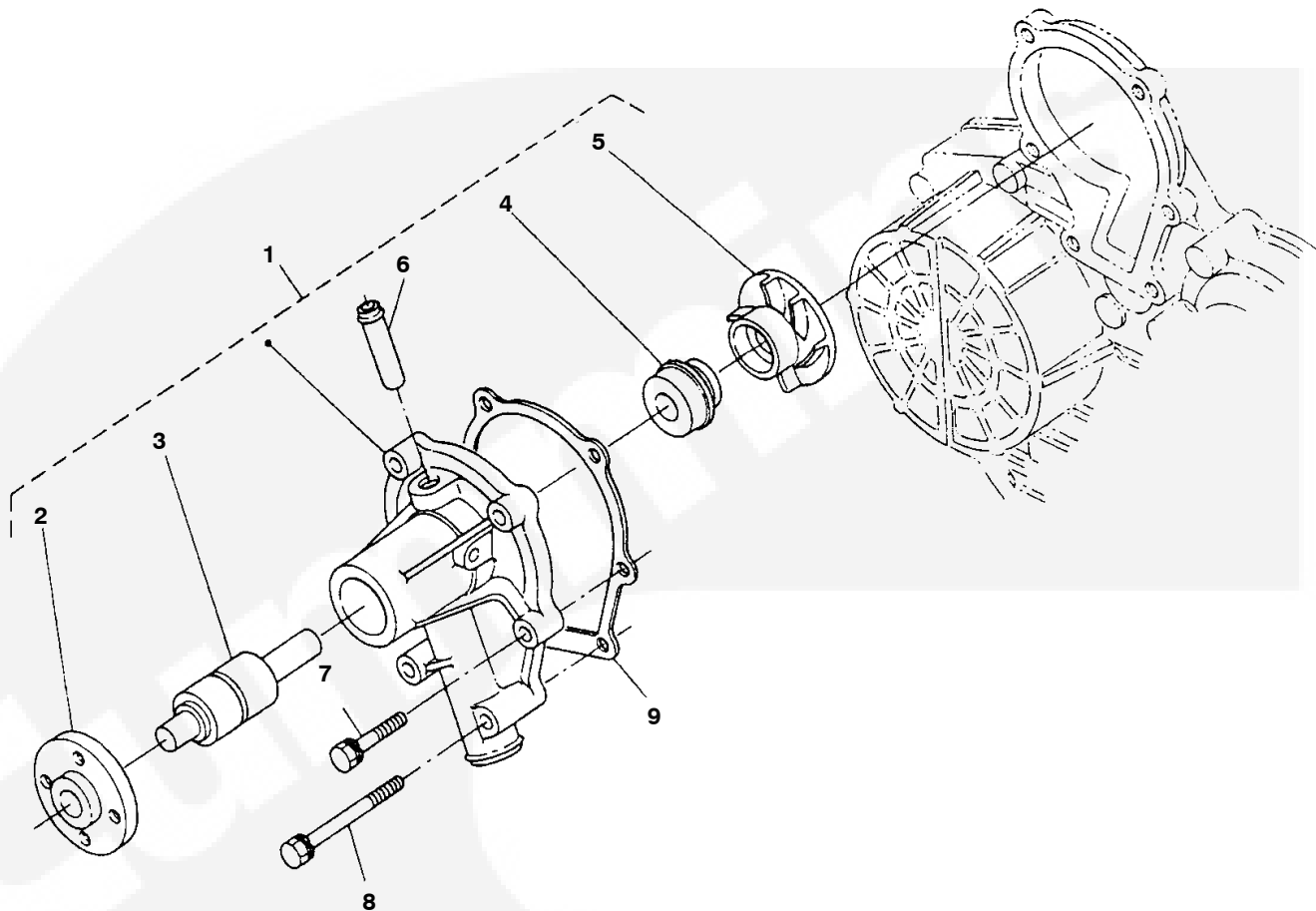
Gearcase HDKBL, HDKBM and HDKBN



Gearcase

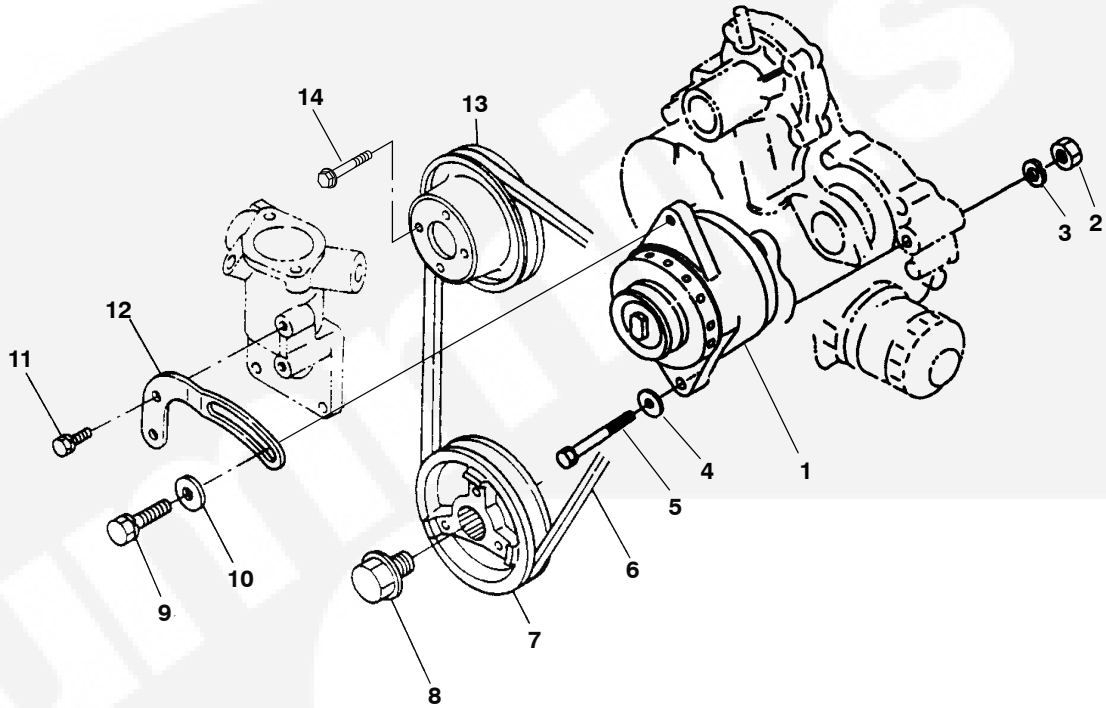
Item	Part No.	Description	Qty
1	103-0861	Gearcase Assy (Includes Parts Marked *)	1
2	185-6481	*Plug	4
3	185-2124	*Joint, Pipe	1
4	185-6482	*Spring	1
5	185-6483	*Seat, Valve	1
6	185-6484	*Ball	1
7	185-5741	*Cover	1
8	185-5742	*Bolt	1
9	181-9021	*O'Ring	1
10	181-9019	*O'Ring	1
11	185-6485	*Assy Rotor, Oil Pump	1
12	185-6486	*Cover, Oil Pump	1
13	185-6487	*Screw, Counter Sunk Head	5
14	185-6863	Gasket, Gear Case	1
15	185-5833	Bolt	3
16	185-7069	Bolt	4
17	185-6489	Bolt	2
18	184-0038	Bolt	1
19	185-6491	Bolt	2
20	185-6492	Bolt	1
21	185-7423	Stud	1
22	181-9013	Nut	1
23	185-6759	Washer, Spring	1
24	185-6864	Seal, Oil	1
25		Stud	
	185-7425	Spec A	2
	A045Y579	(Begin Spec B)	2
26	185-7216	Cover, Gear Case	1
27	181-9000	Cover, Oil Fill	1
28	185-7426	O'Ring	1
29	185-5835	Filter, Oil	1

Captive Water Pump



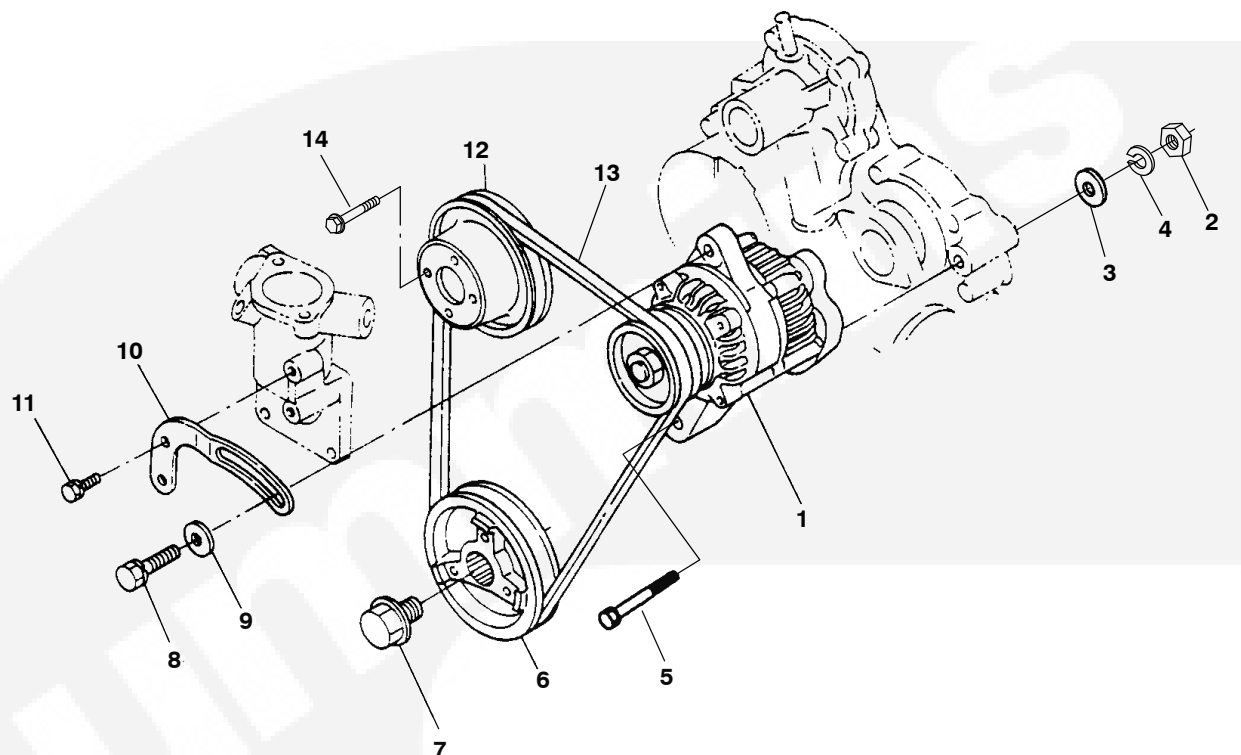
Item	Part No.	Description	Qty
1	181-9108	Pump Assy, Water (Includes Parts Marked *)	1
2	185-6672	*Flange, Pump Water	1
3	181-9116	*Bearing	1
4	181-9233	*Seal Assy, Mechanical	1
5	181-9115	*Impeller, Captive Water Pump	1
6	185-5716	*Pipe, Water Return	1
7	185-6677	Bolt	4
8	181-9007	Bolt	2
9	185-7299	Gasket, Water Pump	1

Alternator (12V)



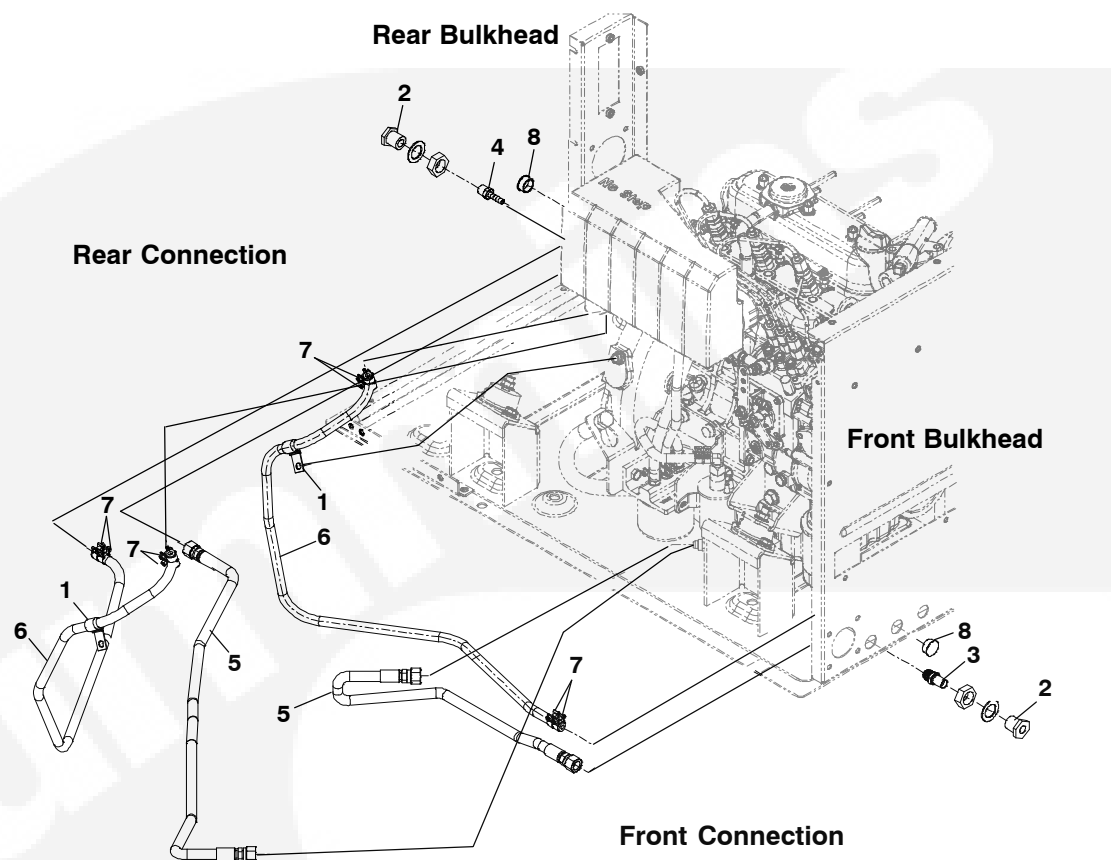
Item	Part No.	Description	Qty
1	185-7269	Alternator (12V) (No Components Available)	1
2	185-5445	Nut	1
3	185-6785	Washer, Spring	1
4	185-7272	Washer, Plain	1
5	185-7271	Bolt	1
6	185-6934	Belt, Fan (37.5")	1
7		Pulley, Fan Drive	
	185-6933	HDKBL	1
	185-7273	HDKBM, HDKBN	1
8	185-6633	Bolt	1
9	185-2564	Bolt	1
10	185-6786	Washer, Plain	2
11	185-2388	Bolt	1
12	185-7270	Stay, Alternator	1
13	185-6631	Pulley, Fan	1
14	185-2572	Bolt	4

Alternator (24V)



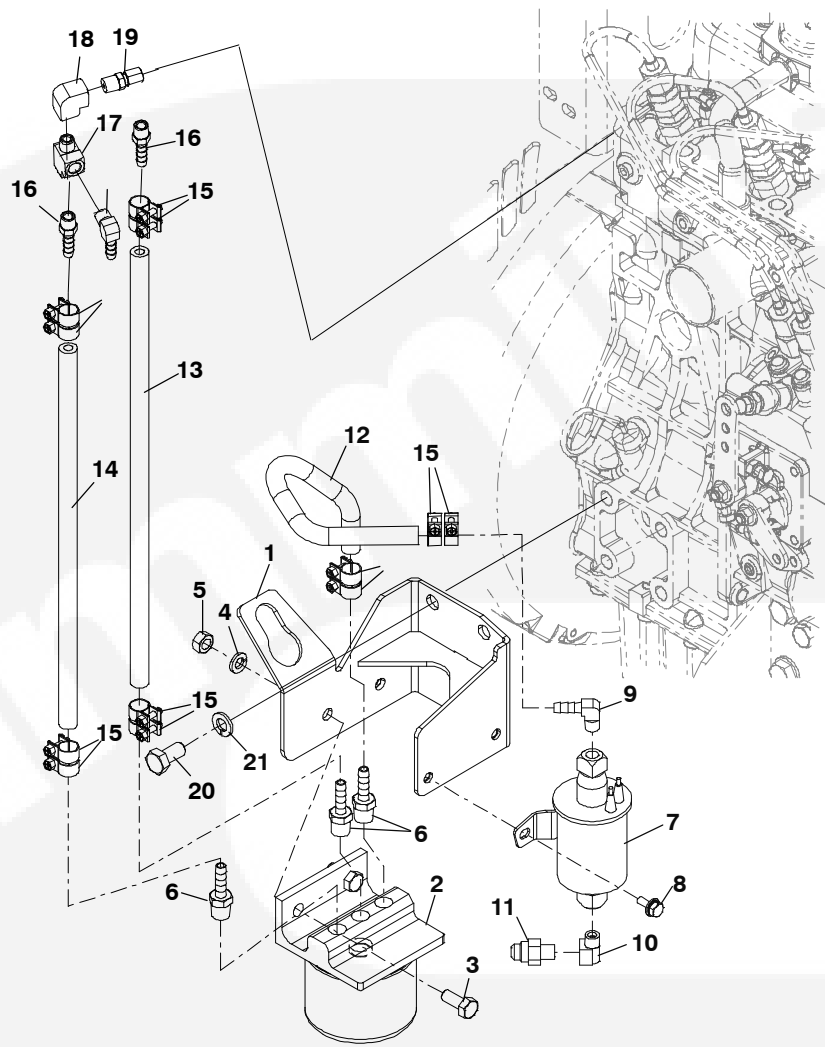
Item	Part No.	Description	Qty
1	185-7225	Alternator (24V)	1
2	185-5445	Nut	1
3	185-6630	Washer, Plain	1
4	185-6785	Washer, Spring	1
5	185-7227	Bolt	1
6		Pulley, Fan Drive	
	185-6933	HDKBL	1
	185-7273	HDKBM, HDKBN	1
7	185-6633	Bolt	1
8	185-2564	Bolt	1
9	185-6786	Washer, Plain	1
10	185-7226	Stay, Alternator	1
11	185-2388	Bolt	1
12	185-6631	Pulley, Fan	1
13	185-6934	Belt, Fan (37.5")	1
14	185-2572	Bolt	4

Fuel System, Transfer



Item	Part No.	Description	Qty
1	518-0515	Clamp, Hose	1
2	502-1133	Coupling, Hose	2
3	502-1615	Coupling, Hose	1
4	502-1367-02	Connector, Hose	1
5	503-2588-03	Hose, Fuel	1
6	503-2935-02	Hose, Fuel	1
7	503-2808	Clamp, Hose	4
8	517-0136-01	Plug, Hose (Front and Rear Housed)	2

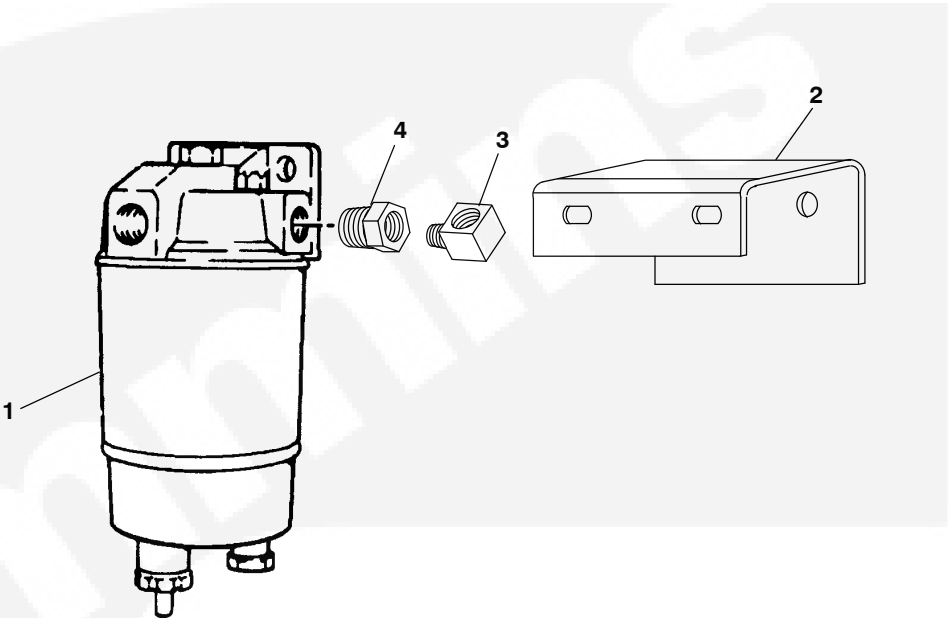
Fuel System, Pump



Fuel System, Pump

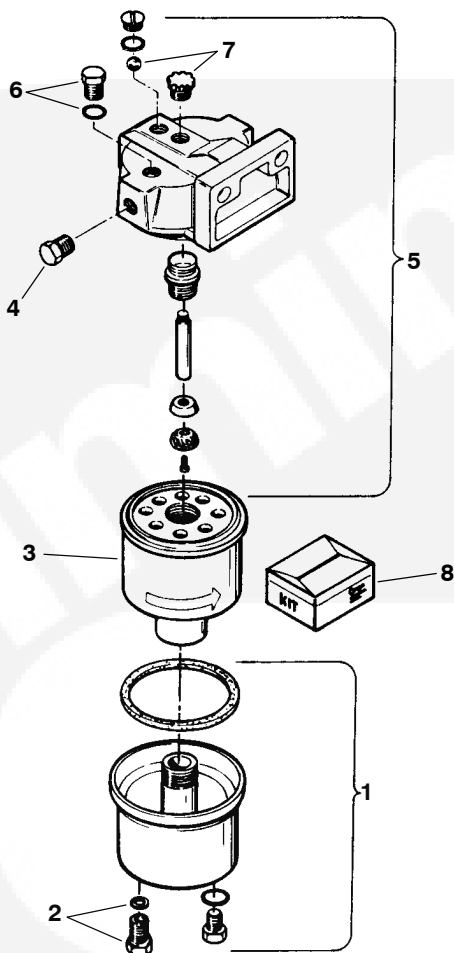
Item	Part No.	Description	Qty
1	149-2830-03	Bracket, Fuel Pump	1
2	149-2634-01	Filter, Fuel	1
3	800-3017-19	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	2
4	850-0114-54	Washer, Split Locking (M8)	2
5	862-0026-55	Nut, Hex (M8 x 1.25)	2
6	502-1367-02	Connector, Hose (1/4 NPT x 1/4 Hose)	3
7		Pump, Fuel	
	149-2646	12V	1
	149-2795	24V	1
8	821-6002-02	Screw, Hex Head Sems (M6 x 1.0 x 12mm)	2
9	502-1353-02	Elbow, 90° Pipe	2
10	502-0020-01	Elbow, Pipe	1
11	505-1490	Connector, Male	1
12	503-2883-01	Hose, Fuel	1
13	503-2883-08	Hose, Fuel	1
14	503-2883-07	Hose, Fuel	1
15	A034B591	Clamp, Hose	12
16	502-1367-01	Connector, Hose (1/8 NPT x 1/4 Hose)	2
17	502-1368	Tee, Street (1/8 NPT)	1
18	502-0055	Elbow, Pipe	1
19	502-1245	Adapter, Pipe	1
20	800-3030	Screw, Hex Head Cap (M10 x 1.25 x 20mm)	1
21	850-0114-55	Washer, Split Locking (M10)	3

Remote Water Sparator Kit



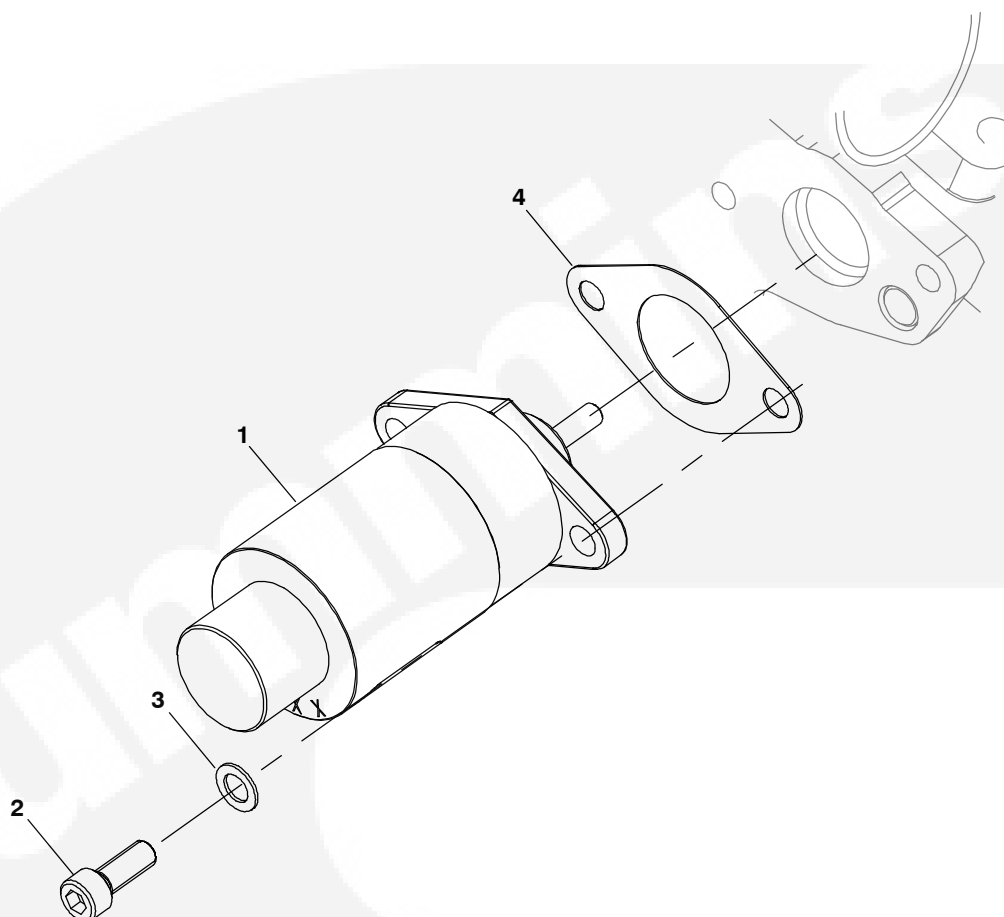
Item	Part No.	Description	Qty
	A026M935	Kit, Remote Fuel/Water Separator	1
1	A026M941	Separator, Fuel/Water (See Separate Page for Components)	1
2	149-2041-03	Bracket, Separator Mounting	1
3	502-0020-01	Elbow, Street 90°	1
4	502-0029	Bushing, Pipe	2

Remote Water Sparator Kit



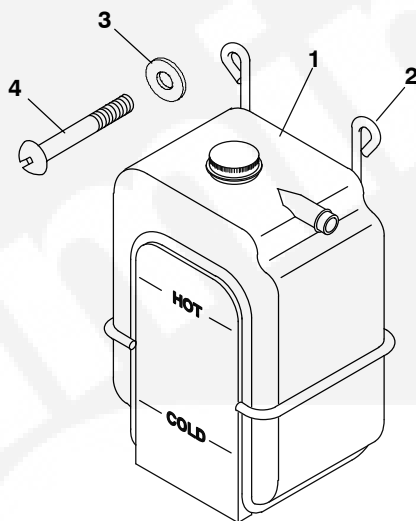
Item	Part No.	Description	Qty
	A026M941	Separator, Water	1
1	149-2046	Kit, Metal Bowl Replacement (Includes Plug, O'Rings and Drain Assy)	1
2	149-1953	Assy, Drain (Includes Knob and Seal)	1
3	149-1914-01	Element (Includes Seals)	1
4	502-0153	Plug, Hex (1/4")	1
5	149-1949	Assy, Replacement Head (Includes Vent Plug, O'Rings, Assy)	1
6	149-1952	Plug, Vent (Includes O'Ring)	1
7	149-2047	Assy, Pump (Includes O'Ring)	1
8	149-2045	Kit O'Ring (Includes Seal and Plunger)	1

Governor Actuator



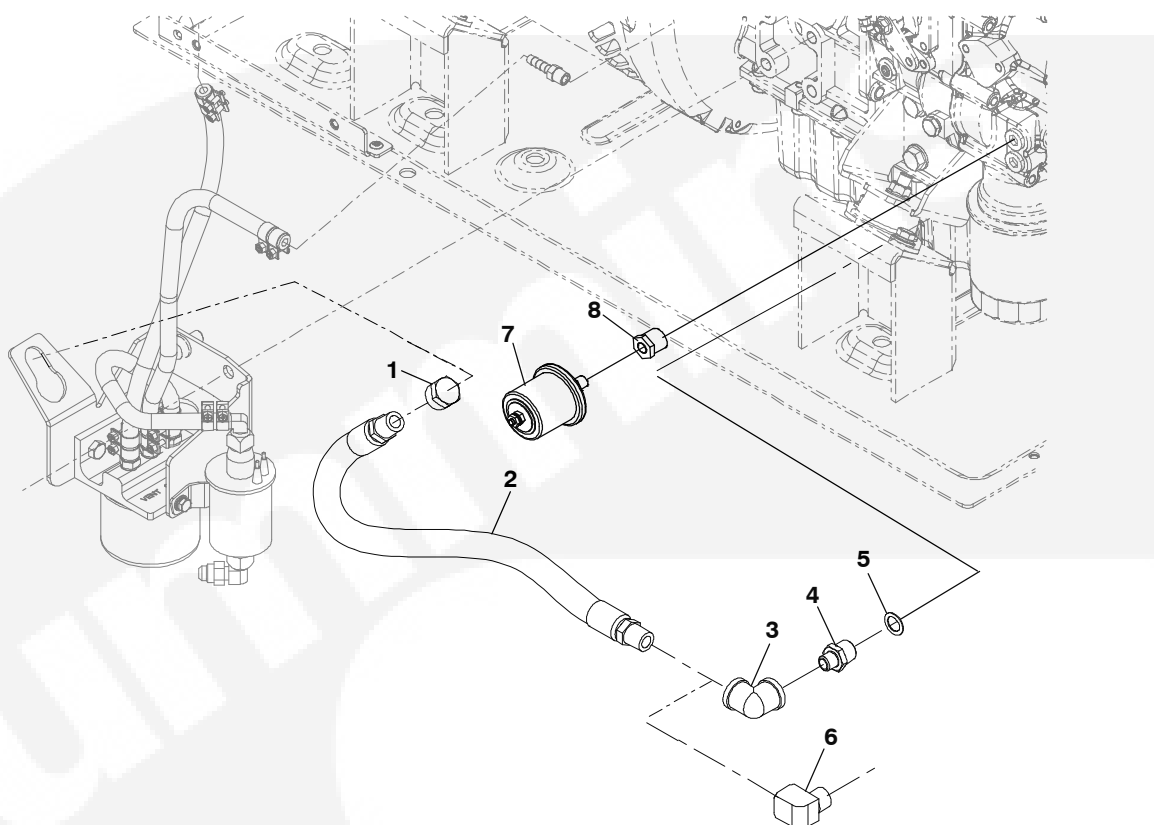
Item	Part No.	Description	Qty
1		Actuator, Governor	
	306-5006-01	12V	1
	306-5006-02	24V	1
2	725-1027	Screw, Slotted Head Cap (M6 x 1 x 16mm)(1/32")	2
3	526-0063	Washer, Copper	2
4	184-0071	Gasket, Solenoid Cover	1

Cooling System



Item	Part No.	Description	Qty
	130-2781	Kit, Coolant Recovery	1
1	130-2779	Tank, Water Recovery	1
2	130-2780	Bracket, Tank	1
3	808-0054	Screw, Round Head Metal (7/8" x 14")	2
4	526-0021	Washer, Flat	2

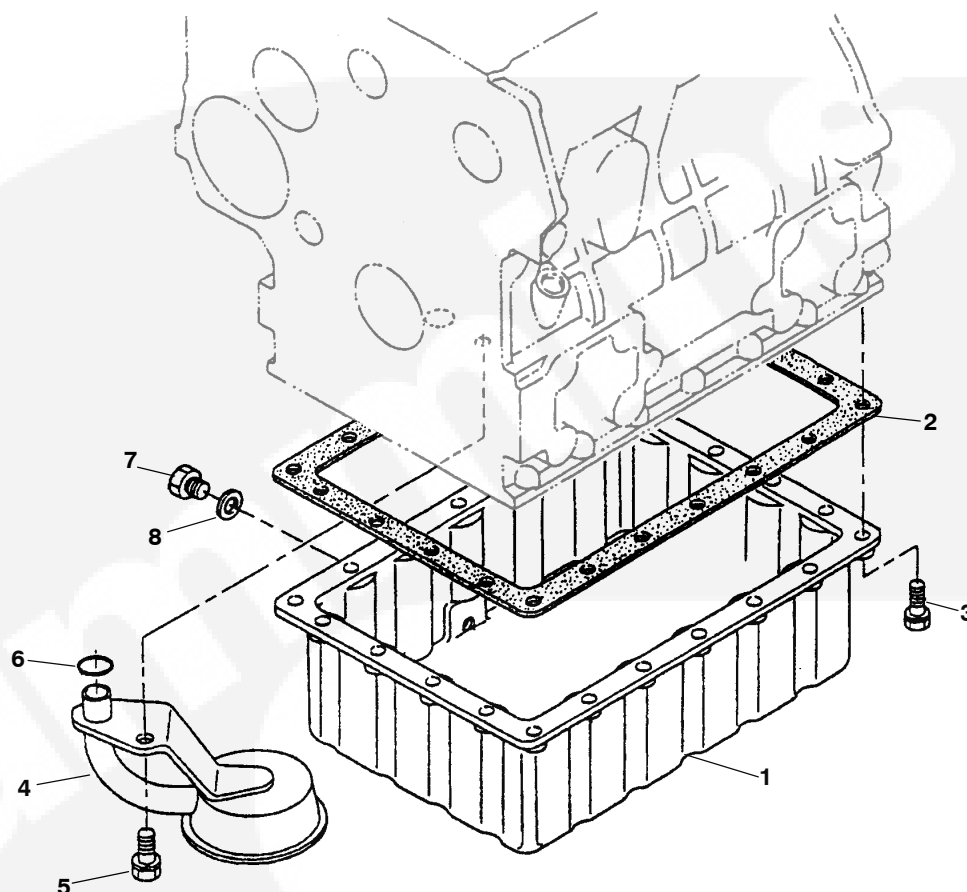
Oil System



Item	Part No.	Description	Qty
1	502-1123	Cap, Pipe	1
2	501-0910	Hose, Oil Drain	1
3	502-0263	Elbow, Pipe(HDKBL)	1
4	102-1485	Adapter, Oil Drain (HDKBL)	1
5	185-5495	Gasket, Oil Drain (HDKBL)	1
6	502-0075	Elbow, Pipe (HDKBM and HDKBN)	1
7	193-0244	*Sender, Oil Pressure	1
8	505-0395	Reducer, Bushing (1/8" NPSF)	1

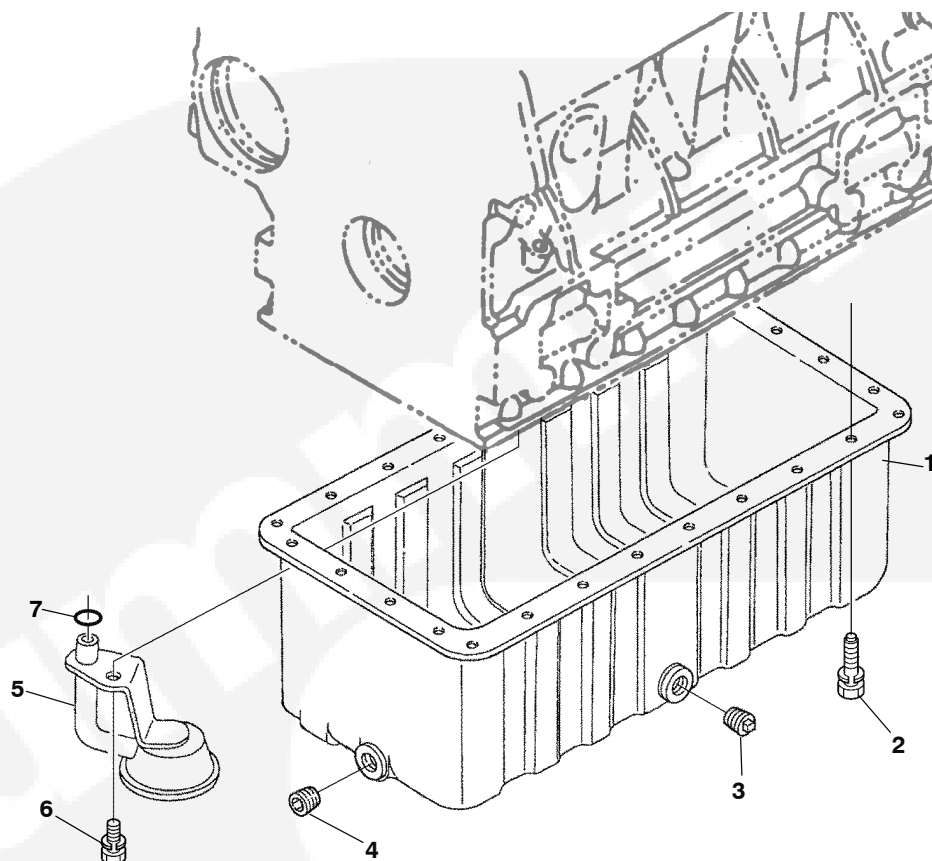
* – Sender Included in Sender Kit Listed on Water Flange Page.

Oil Pan HDKBL



Item	Part No.	Description	Qty
1	185-7213	Pan, Oil	1
2	185-7214	Gasket, Oil Pan	1
3	185-2389	Screw, Hex Head	22
4	122-0932	Tube, Oil Pickup	1
5	185-6762	Bolt	1
6	185-7421	O'Ring	1
7	517-0418	Plug	1
8	509-0428	Gasket	1

Oil Pan HDKBM and HDKBN

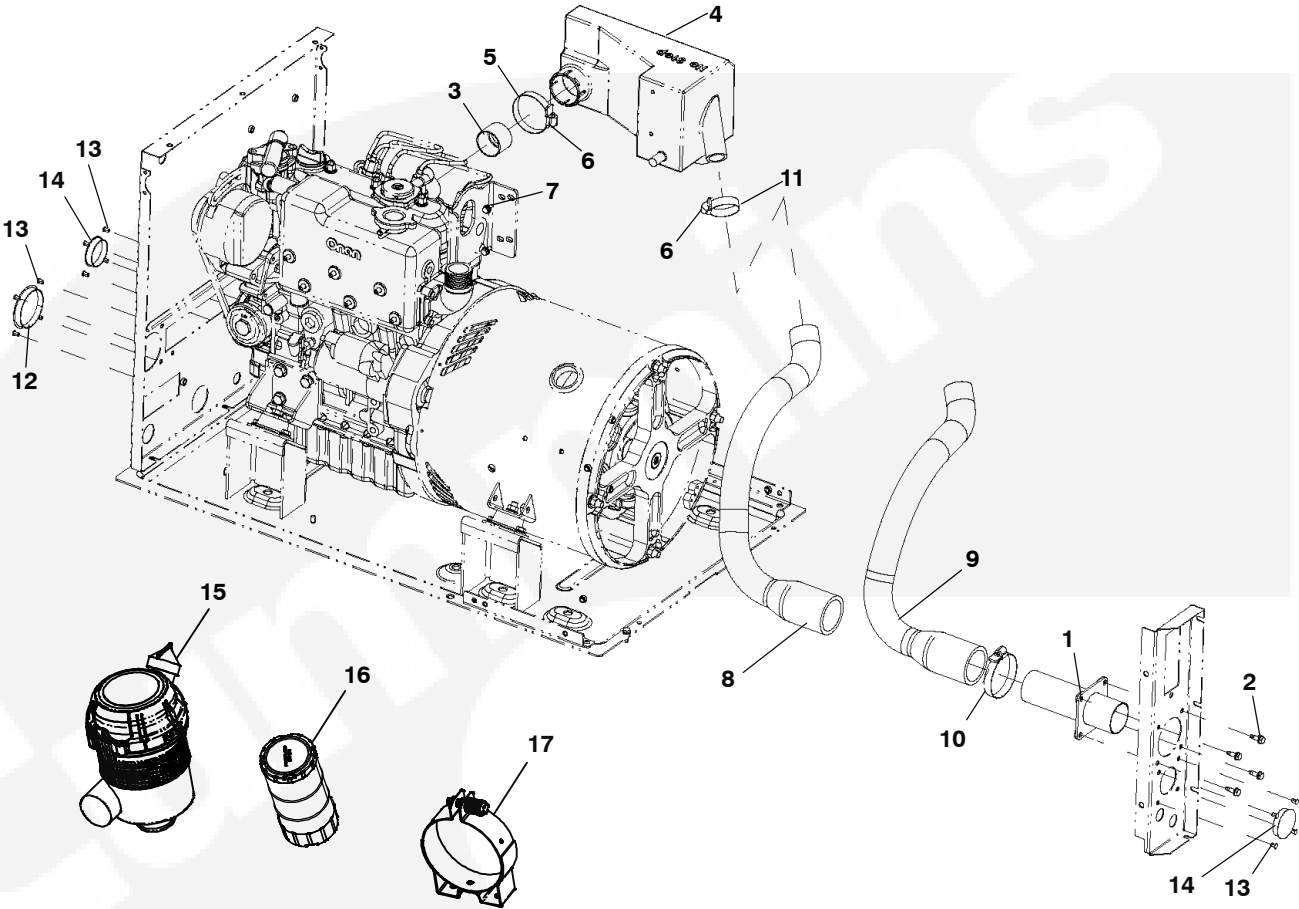


Item	Part No.	Description	Qty
1	185-7246	Pan, Oil	1
2	181-9094	Bolt	26
3	817-0441	Plug	1
4	181-9230	Plug	1
5	123-2414	Tube, Oil Pickup	1
6	185-2563	Bolt	1
7	185-7421	O'Ring, Seal	1

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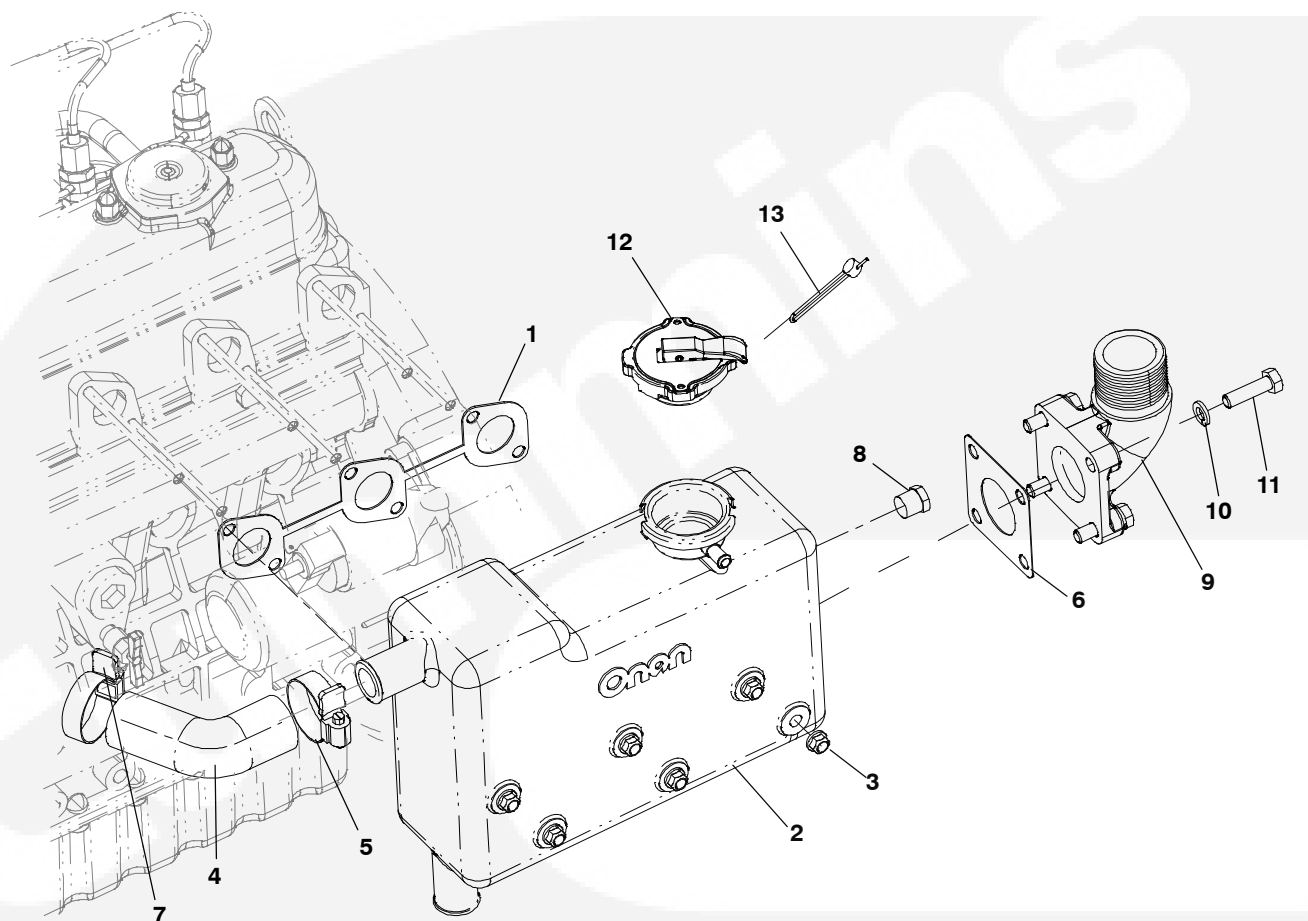
Resonator



Resonator

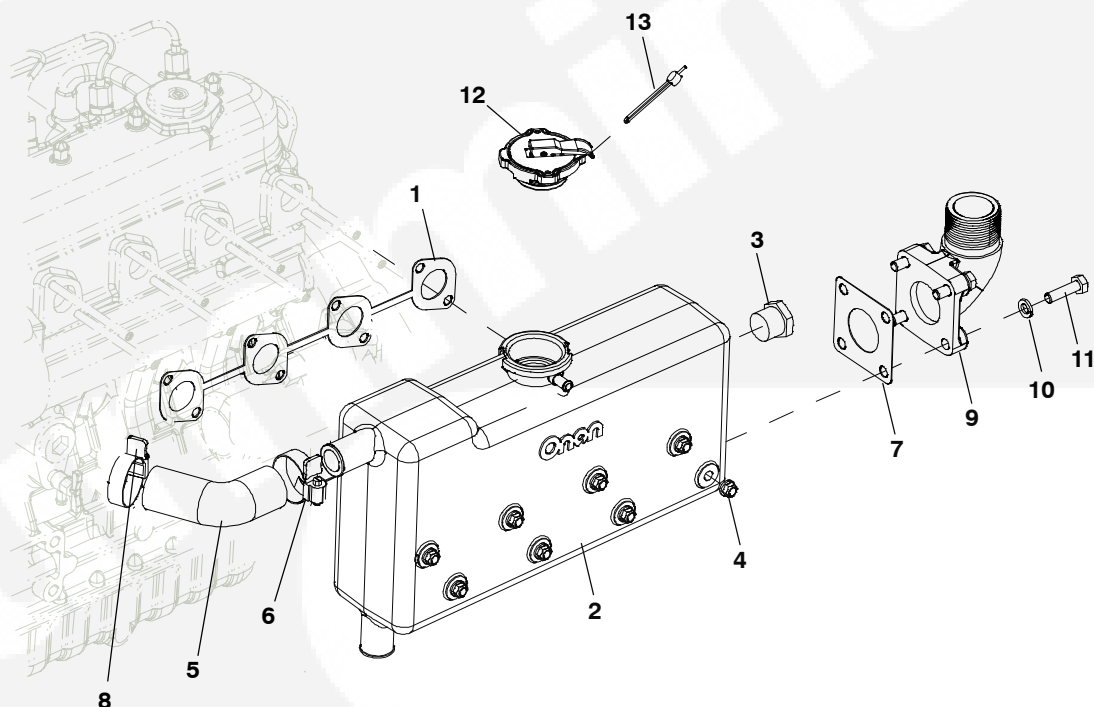
Item	Part No.	Description	Qty
1	404-0057	Bulkhead	1
2	A030B088	Screw, Hex Head	4
3	140-2898	Sleeve, Air Intake	1
4	A034X828	Resonator, Intake	1
5	503-1141	Clamp	1
6	503-2823	Clamp, Hose	3
7	821-6002-02	Screw, Hex Head	2
8	A034T425	Hose, Intake (HDKBM and HDKBN Only)	1
9	A034T427	Hose, Intake (HDKBL Only)	1
10	503-1142	Clamp	1
11	503-1139	Clamp	1
12	517-0138-09	Plug, Hole (Spec A & B Only)	1
13		Plug, Hole	
	517-0131-02	Spec A & B	12
	517-0131-02	Spec C	4
14		Plug, Hole	
	517-0138-07	Spec A & B	2
	517-0138-07	Spec C	1
15	140-4177	Filter, Air Assy	1
16	A026L076	Filter, Air	1
17	140-4178	Bracket, Mounting	1

Exhaust Manifold HDKBL



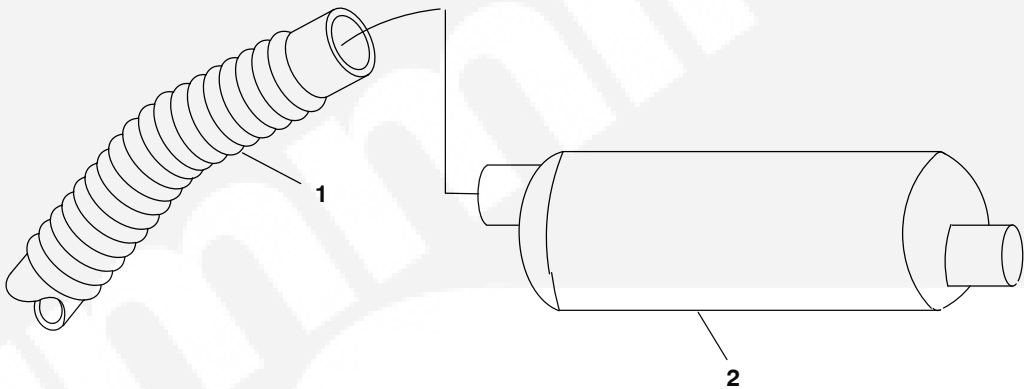
Item	Part No.	Description	Qty
1	154-3269	Gasket , Exhaust Manifold	1
2	154-3020-01	Manifold	1
3	185-6699	Nut	6
4	503-2046	Hose, Exhaust	1
5	503-1137	Clamp	2
6	185-6853	Gasket	1
7	503-2823	Clamp, Hose	2
8	502-0153	Plug Hex Pipe	1
9	155-2666-01	Elbow, Exhaust	1
10	850-0114-54	Washer, Lock	4
11	800-3017-21	Screw, Hex Head	4
12	A041H125	Cap, Radiator	1
13	185-6856	Seal, Wire	1

Exhaust Manifold HDKBM and HDKBN



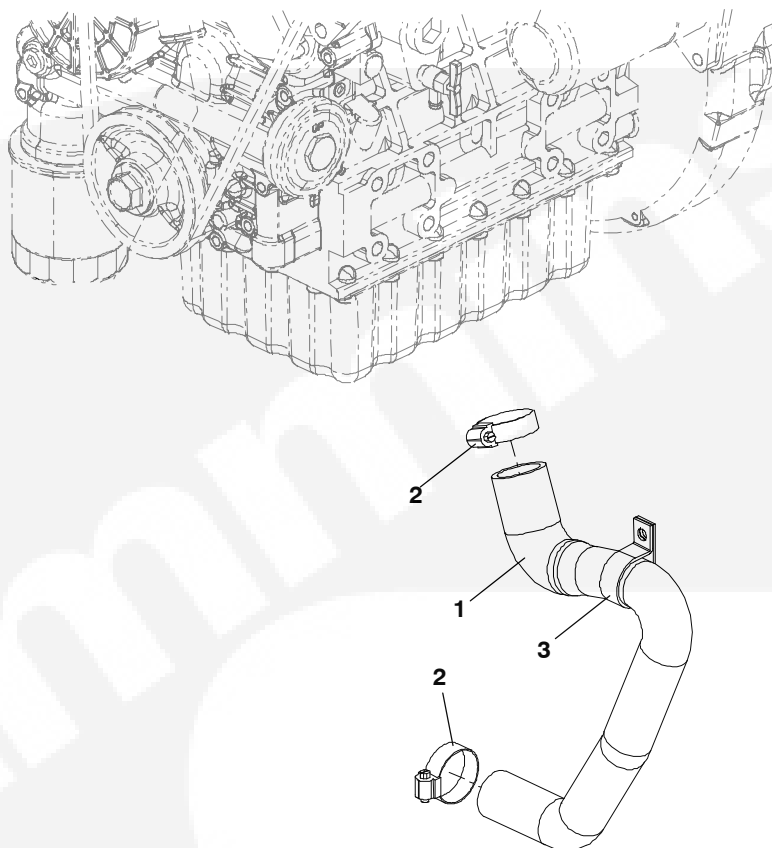
Item	Part No.	Description	Qty
1	185-6854	Gasket , Exhaust Manifold	1
2	154-3060	Manifold	1
3	502-0820	Plug Hex Pipe	1
4	185-6699	Nut	8
5	503-2046	Hose, Exhaust	1
6	503-1137	Clamp	2
7	185-6853	Gasket	1
8	503-2823	Clamp, Hose	2
9	155-2666-01	Elbow, Exhaust	1
10	850-0114-54	Washer, Lock	4
11	800-3017-21	Screw, Hex Head	4
12	A041H125	Cap, Radiator	1
13	880-0283	Seal, Wire	1

Muffler



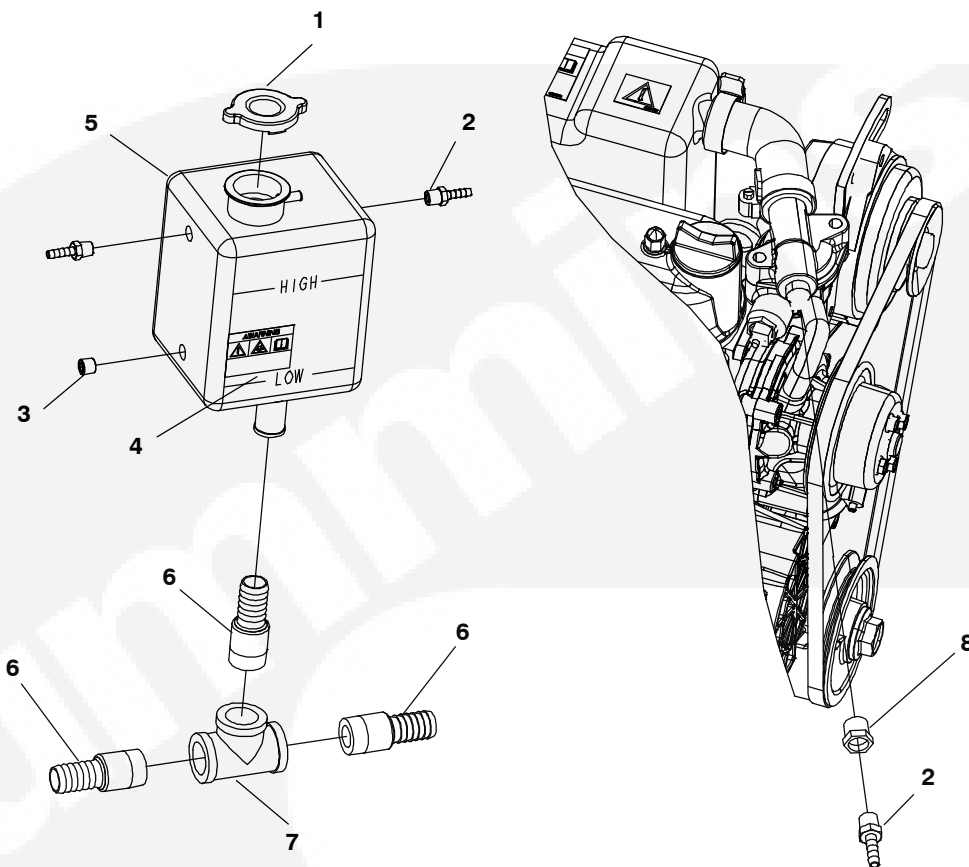
Item	Part No.	Description	Qty
1	155-2355-02	Tube, Flexible Exhaust (2")	1
2	155-0077	Muffler, Dry Exhaust (Up) (2")	2

Engine Cooling System Connections (Spec A & B)



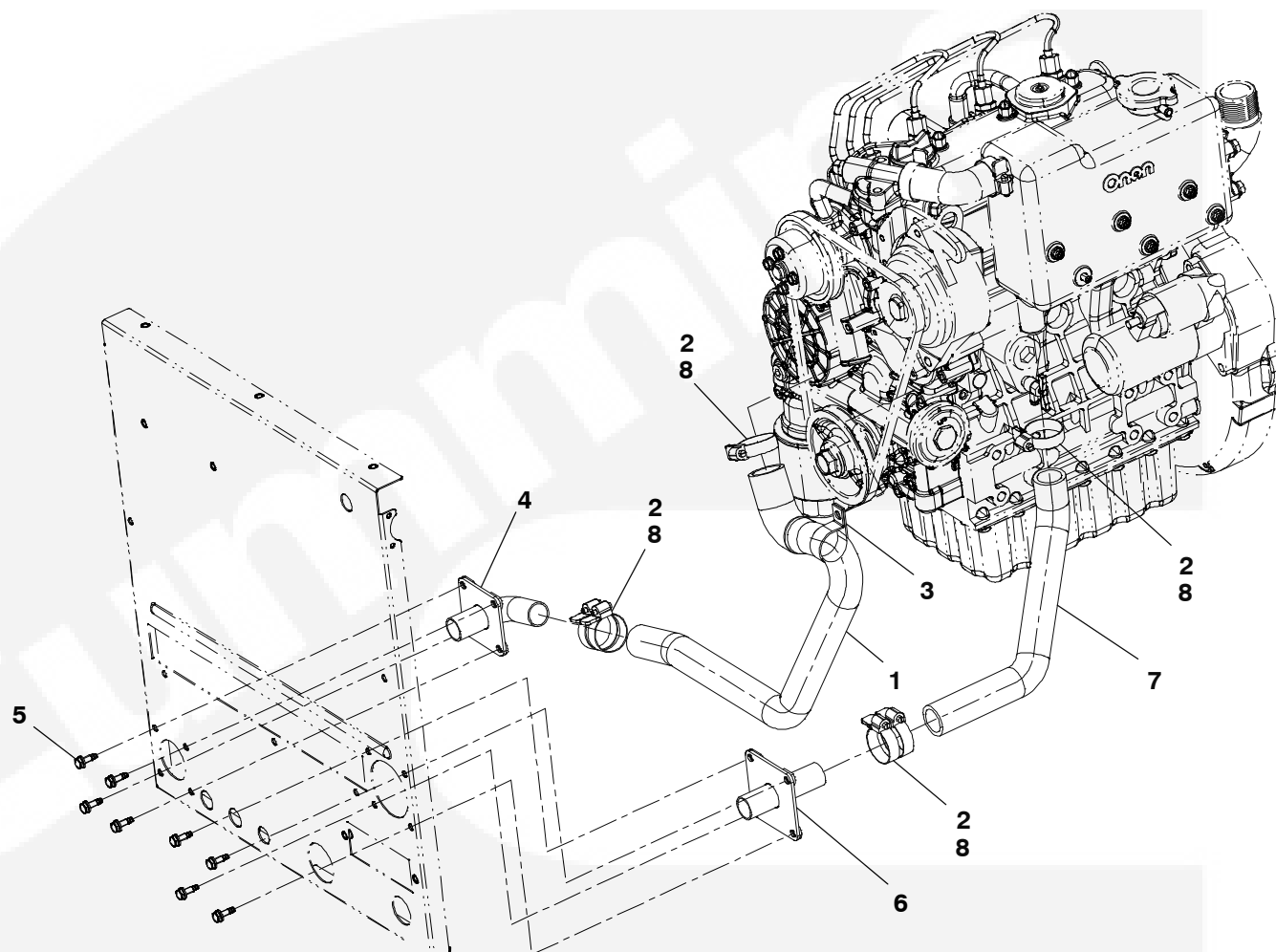
Item	Part No.	Description	Qty
1	503-2195	Hose, Coolant	1
2	503-1137	Hose, Clamp	2
3	518-0248-05	Clamp, Hose	1

Engine Cooling System Connections



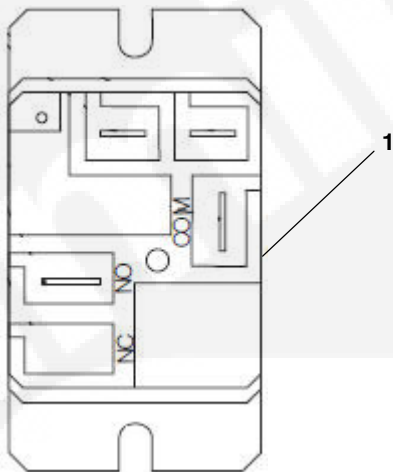
Item	Part No.	Description	Qty
1	130-3721	Cap, Radiator	1
2	502-1367	Connector, Hose	3
3	505-2035-02	Plug, Pipe	1
4	098-7871	Label, Warning	1
5	A041B576	Coolant, Tank	1
6	505-0759	Combination, Nipple	3
7	505-0304	Fitting, Pipe Tee	1
8	502-0050	Bushing, Pipe	1

Engine Cooling System Connections (Spec C)



Item	Part No.	Description	Qty
1	A044V398	Hose, Coolant	1
2	503-1137	Clamp	6
3	518-0548-05	Clamp, Hose	1
4	A045C419	Adapter, Bulkhead	1
5	A030B088	Screw, Hex Head	8
6	A045C412	Adapter, Bulkhead	1
7	A044V394	Hose, Coolant	1
8	503-2823	Clamp, Hose	6

Engine Cooling System Connections (Electrical)

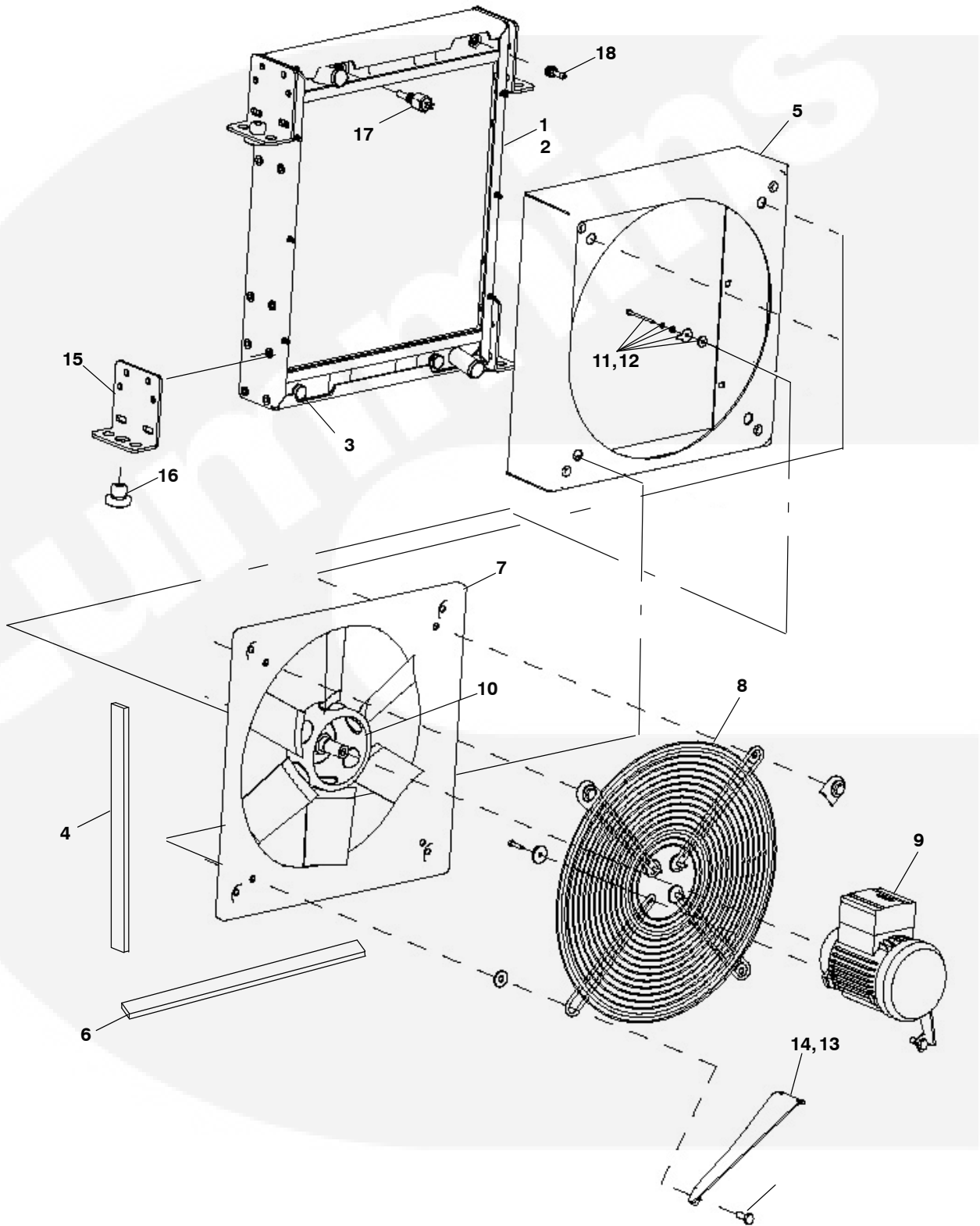


Item	Part No.	Description	Qty
1		Relay	
	A040S618	12V	1
	A040S621	24V	1

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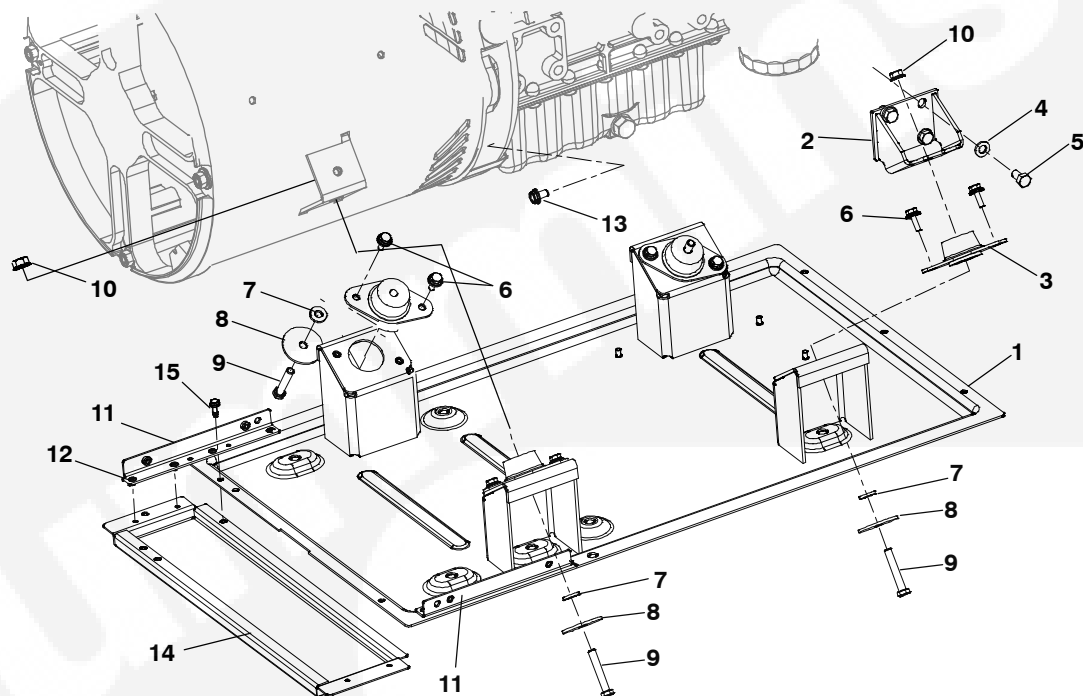
Remote Heat Exchanger



Heat Exchanger

Item	Part No.	Description	Qty
1		Cooler, Remote	
	A035A433	HDKBL	1
	A040S614	HDKBM and HDKBN	1
2		Radiator (Including Frame)	
	A042S556	HDKBL	1
	A042S558	HDKBM and HDKBN	1
3	A042S565	Plug, Drain	2
4	A042S567	Seal, Foam (Radiator to Fan Assy (Mounting Shroud)) (1.5M x 5mm x 15mm)	1
5		Assy, Fan (Mounting Shroud)	
	A042S571	HDKBL	1
	A042T133	HDKBM and HDKBN	1
6	A042S569	Seal, Foam (Fan Assy (Mounting Shroud) to fan Motor Mounting Plate) (3M x 10 x 15mm)	1
7		Plate, Fan Motor Mounting	
	A042V303	HDKBL	1
	A042V305	HDKBM and HDKBN	1
8		Guard, Fan	
	A042V310	HDKBL	1
	A042V314	HDKBM and HDKBN	1
9		Motor, Fan	
	A042V316	HDKBL	1
	A042V318	HDKBM and HDKBN	1
10		Impeller, Fan	
	A042V325	HDKBL	1
	A042V327	HDKBM and HDKBN	1
11	A043C876	Hardware, Fan Assembly (HDKBL Only)	1
12	A043C880	Hardware, Fan Assembly (HDKBM and HDKBN Only)	1
13	A042V331	Bracket, Fan Motor Support (Left) (HDKBL Only)	1
14	A042V320	Bracket, Fan Motor Support (Right) (HDKBL Only)	1
15	A042S573	Bracket, Mounting/ Lifting	4
16	A042S575	Isolator, Vibration	4
17	A042S577	Switch, Temperature	1
18	A042S588	Barb, Air Vent (Radiator)	1
19		Package, Warning Label (Includes Lifting, Fan, High Temp and Electrical Shock Labels, Not Shown)	
	A042S590	HDKBL	1
	A042S592	HDKBM and HDKBN	1

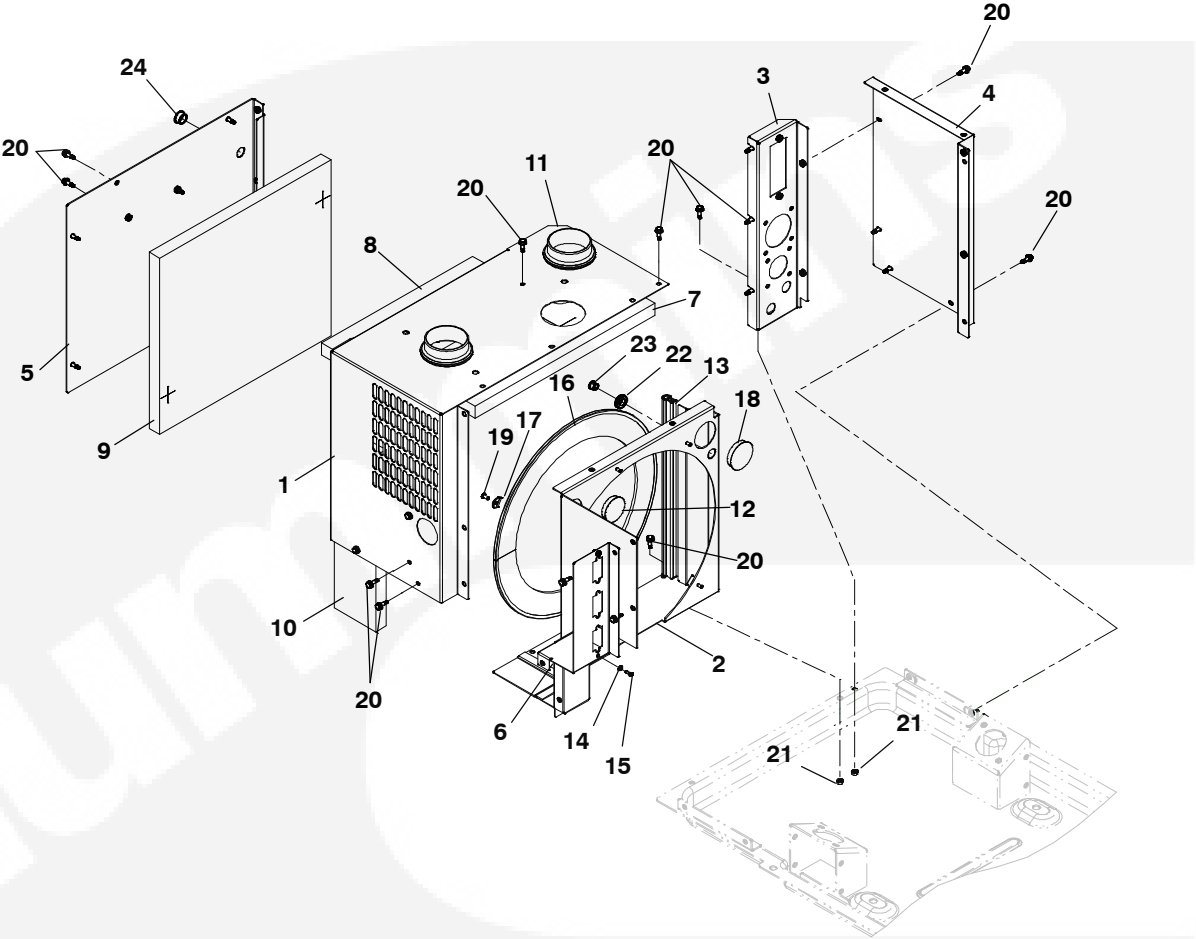
Mounting Base



Mounting Base

Item	Part No.	Description	Qty
1		Base, Drip Pan	
	403-6402-03	HDKBL	1
	403-6402-04	HDKBM and HDKBM	1
2	403-6785-02	Mount, Engine	2
3		Isolator, Vibration	
	402-0728	HDKBL	4
	402-0728-02	HDKBM and HDKBM	4
4	526-0399-62	Washer, Flat	8
5	800-3030	Screw, Hex Head	8
6	821-6003-02	Screw, Hex Head	8
7	526-0030	Washer, Flat	4
8	526-2340	Washer, Flat	4
9	800-0573	Screw, Hex Head	4
10	870-0550-09	Nut, Hex Flange	4
11	404-0044-02	Bracket, Enclosure	2
12	818-0231-01	Rivet, Pop (HDKBM and HDKBN)	8
13	A029X506	Screw, Hex Flange Head	6
14	405-6518-02	Panel, Extension (HDKBM and HDKBN)	1
15	A030B088	Panel, Extension (HDKBM and HDKBN)	1

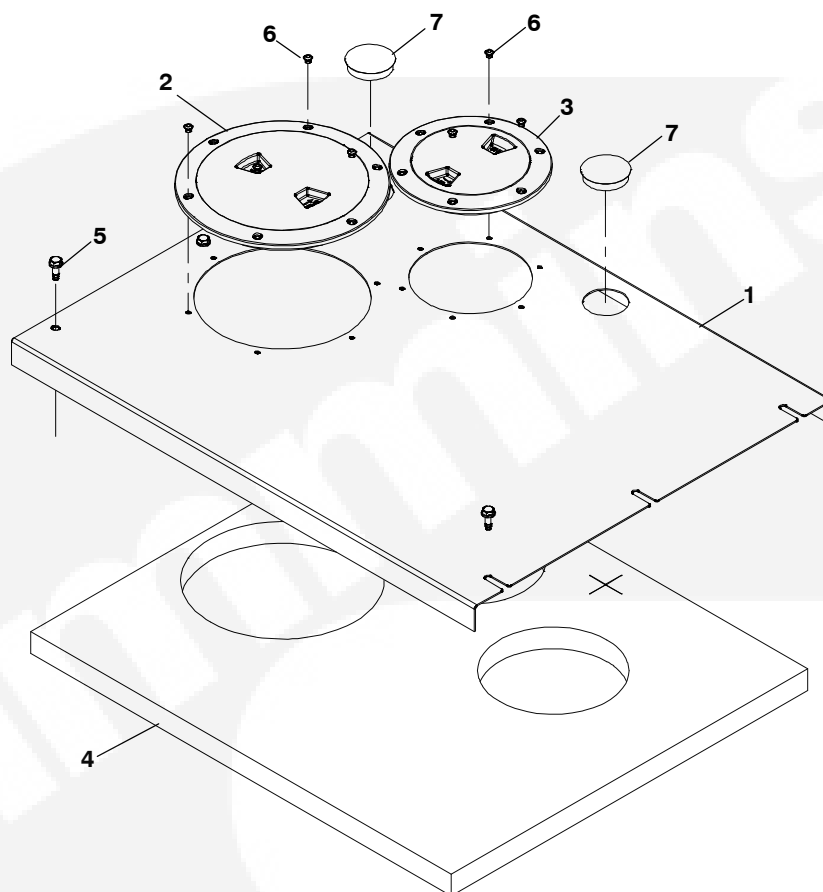
Generator Enclosure



Generator Enclosure

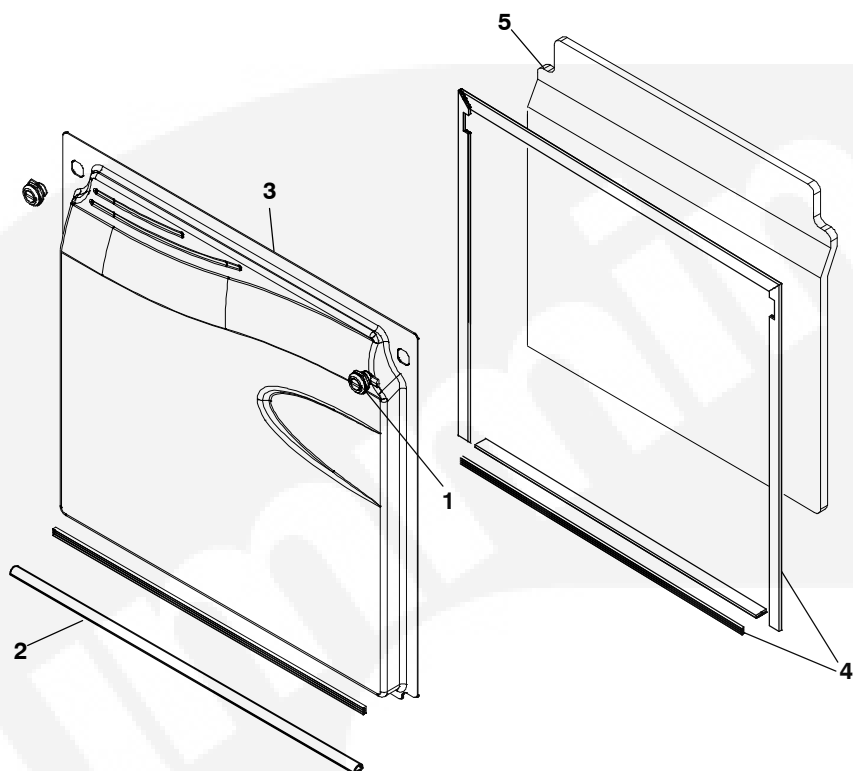
Item	Part No.	Description	Qty
1	404-0023-03	Panel, Enclosure	1
2	404-0020-03	Panel, Air Baffle	1
3	404-0019-03	Panel, Enclosure	1
4	404-0024-03	Panel, Enclosure	1
5	404-0021-03	Cover, Enclosure	1
6	404-0022-03	Panel, Enclosure (See PCB Mounting)	1
7	405-9129	Insulation, Panel	1
8	405-9079	Insulation, Enclosure	1
9	404-0045	Insulation, Cover	1
10	405-7430	Insulation, Panel	1
11	508-1152	Grommet, Rubber	2
12	517-0138-07	Plug, Hole	1
13	895-0402	Seal, Weather	1.23'
14	526-2050	Washer, Flat	2
15	800-3042	Screw, Hex Head	2
16	509-0368	Seal, Brush	1
17	134-5299-02	Bracket	5
18	517-0138-08	Plug, Hole	1
19	818-0231-02	Rivet, Pop	5
20	A030B088	Screw, Hex Head	25
21	860-2057	Nut	2
22	508-0021	Grommet, Rubber	1
23	517-0133	Plug, Hole	1
24	517-0136	Plug, Hole	1

Engine Sound Shield



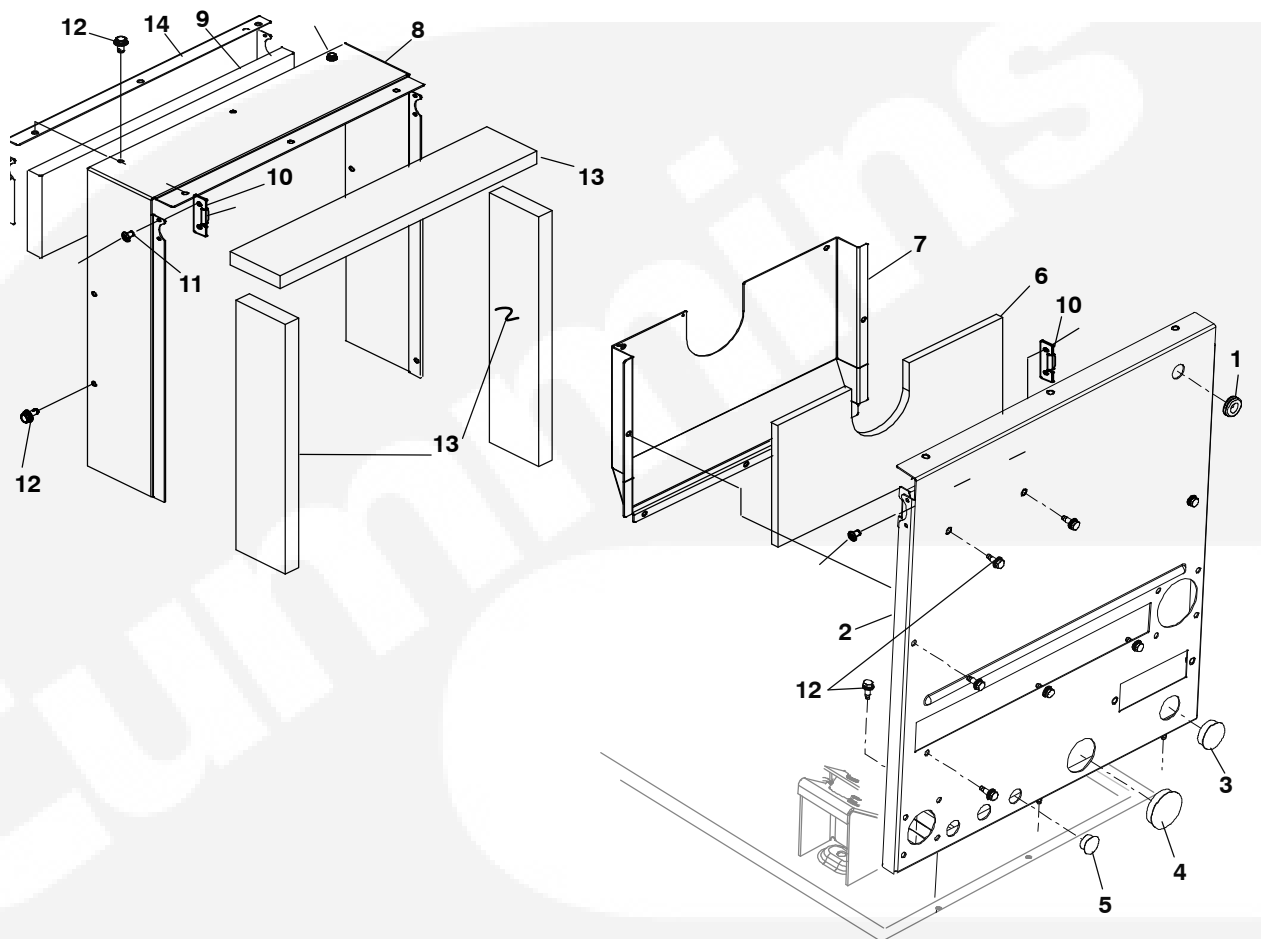
Item	Part No.	Description	Qty
1	404-0016-03	Panel, Roof	1
2	405-6340	Cover, Access	1
3	405-6709	Cover, Access	1
4	405-6688	Insulation, Roof	1
5	A030B088	Screw, Hex Head	6
6	A030F177	Rivet, Flat Head	12
7	517-0392-19	Plug, Hole	2

Engine Sound Shield



Item	Part No.	Description	Qty
1	A030B824	Latch	4
2	895-0411	Strip, Weather	2
3	405-9751-03	Door, Access	2
4	895-0395	Seal, Weather	27.5'
5	405-9568	Insulation, Door	2

Engine Sound Shield

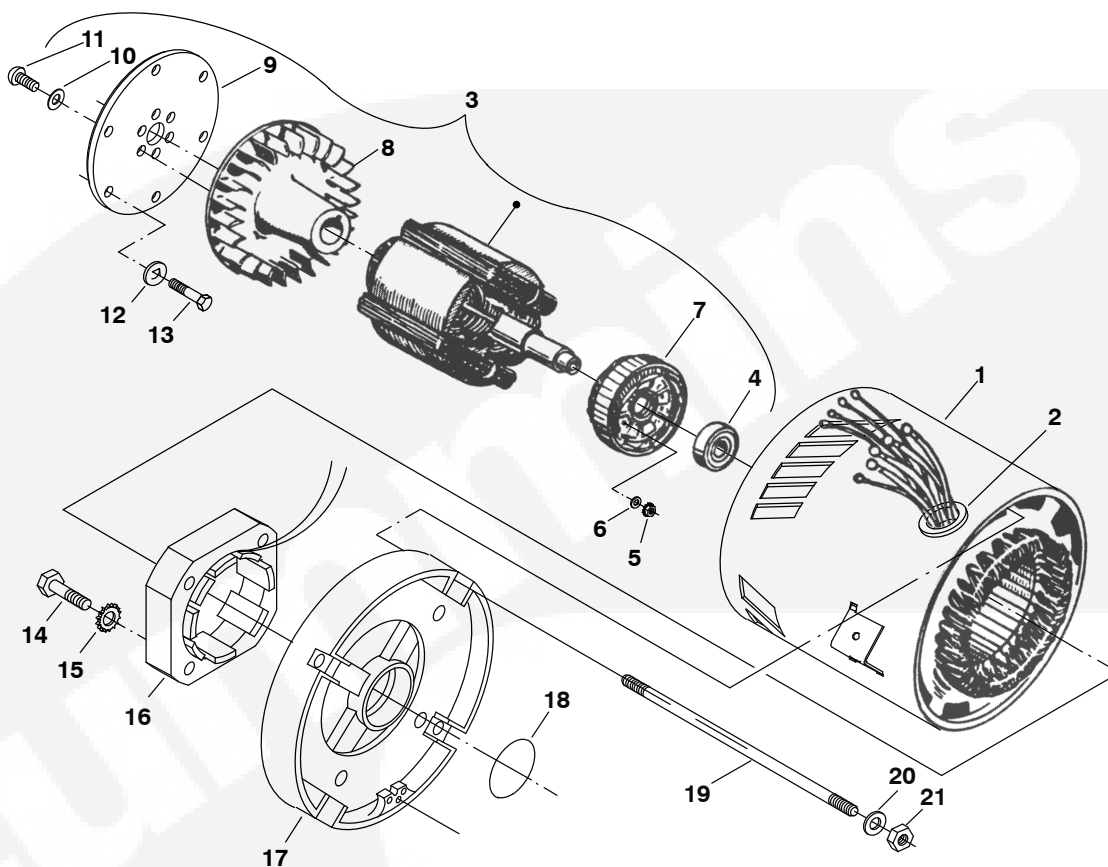


Item	Part No.	Description	Qty
1	508-0021	Grommet, Rubber	1
2	404-0012-03	Panel, Enclosure	1
3	517-0138-04	Plug, Hole	1
4	517-0138-07	Plug, Hole	1
5	517-0136	Plug, Hole	1
6	405-9616	Insulation, Duct	1
7	404-0017-03	Panel, Duct	1
8	404-0015-03	Panel, Roof Extention (HDKBM and HDKBN Only)	1
9	405-4445-03	Insulation	1
10	406-1032	Catch, Door	4
11	A030F179	Rivet, Flat Head	8
12	A030B088	Screw, Hex Head	15
13	405-6811	Insulation Roof Extention (HDKBM and HDKBN Only)	3
14	404-0014-03	Panel, Roof End	1

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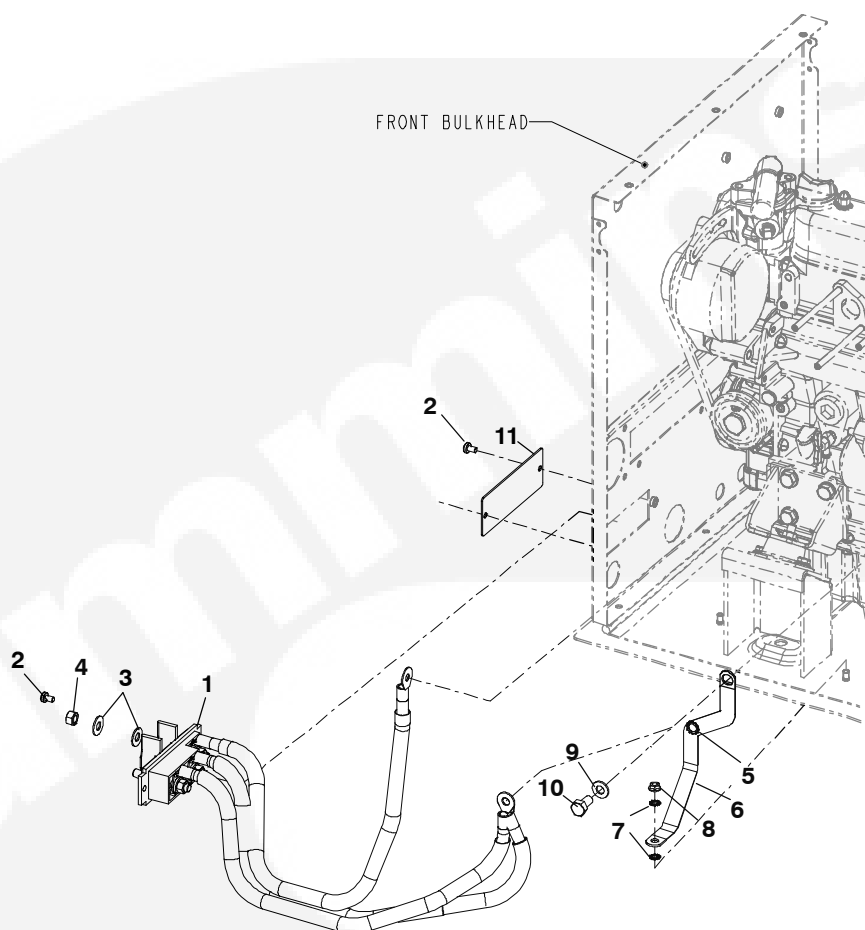
Generator



Generator

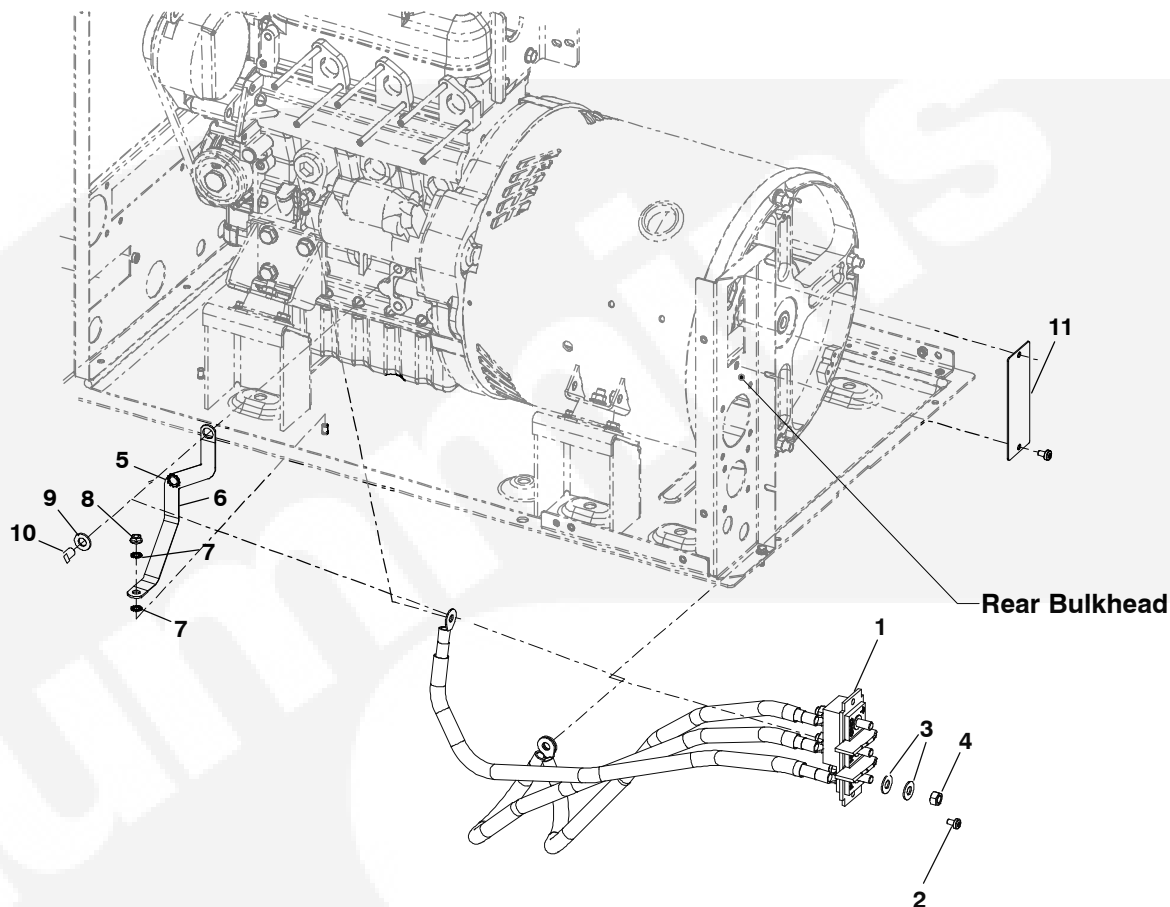
Item	Part No.	Description	Qty
1		Stator, Generator	
	220-4600-01	HDKBL	1
	220-4600-03	HDKBM and HDKBN	1
2	508-0183	Grommet	1
3		Rotor Assy, Generator (Includes Parts Marked*)	
	201-3565-01	HDKBL	1
	201-3565-03	HDKBM and HDKBN	1
4	510-0112	*Bearing, Ball	1
5	870-0131-01	*Nut ET Hex HD (#10-32)	2
6	526-0399-11	*Washer, Flat (#10)	2
7	201-3515-02	*Rotor, Exciter	
	358-0069	Diode	1
	358-0070	Rectifier	1
8	205-0255	*Fan, Generator	1
9	232-2826	*Disk, Rotor Drive	1
10	526-0399-42	*Washer Flat	6
11	815-0917-04	*Screw, Button Head Torx (3/8-16 x 1")	6
12	526-0399-41	Washer Flat	6
13	800-2054	Screw, Hex Head Cap (M8 x 1.25 x14mm)	6
14	815-0843	Screw, Hex Head Tread Form (1/4")	4
15	853-0013	Washer, Lock	4
16	220-4413-02	Stator, Exciter	1
17	211-0465-02	Endbell	1
18	509-0094	Seal, O'Ring	1
19		Stud	
	520-1002-06	HDKBL	4
	520-1002-02	HDKBM and HDKBM	4
20	526-0399-42	Washer Flat	4
21	862-0026-07	Nut, Hex	4

Front Bulkhead Battery Connection



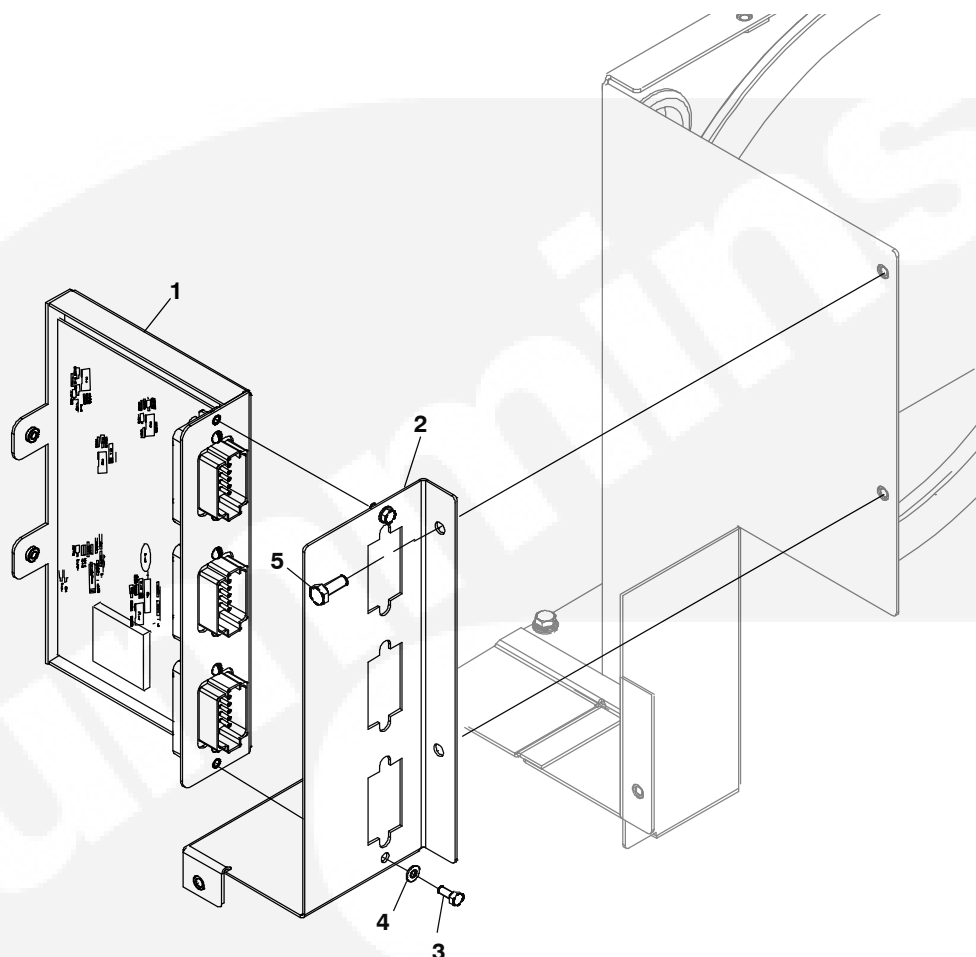
Item	Part No.	Description	Qty
1	338-4622	Harness, Battery	1
2	823-1002-03	Screw, Pan Head Torx (M6 x 1 x 10mm)	4
3	526-0029	Washer, Flat (1/2")	6
4	862-0003	Nut, Hex Head Heavey (3/8-16 UNC)	3
5	853-2010	Washer, Lock EIT (M10)	1
6	337-2785	Strap, Bond	1
7	853-2006	Washer, Lock (M6)	2
8	185-6699-02	Nut, Hex Flange	1
9	526-2120	Washer, Flat	1
10	800-3030	Screw, Hex Head	1
11	405-9764-02	Cover, Access	1

Rear Bulkhead Battery Connection



Item	Part No.	Description	Qty
1	338-4622	Harness, Battery	1
2	823-1002-03	Screw, Pan Head Torx (M6 x 1 x 10mm)	4
3	526-0029	Washer, Flat (1/2")	6
4	862-0003	Nut, Hex Head Heavy (3/8-16 UNC)	3
5	853-2010	Washer, Lock EIT (M10)	1
6	337-2785	Strap, Bond	1
7	853-2006	Washer, Lock (M6)	2
8	185-6699-02	Nut, Hex Flange	1
9	526-2120	Washer, Flat	1
10	800-3030	Screw, Hex Head	1
11	405-9764-02	Cover, Access	1

PCB Mounting

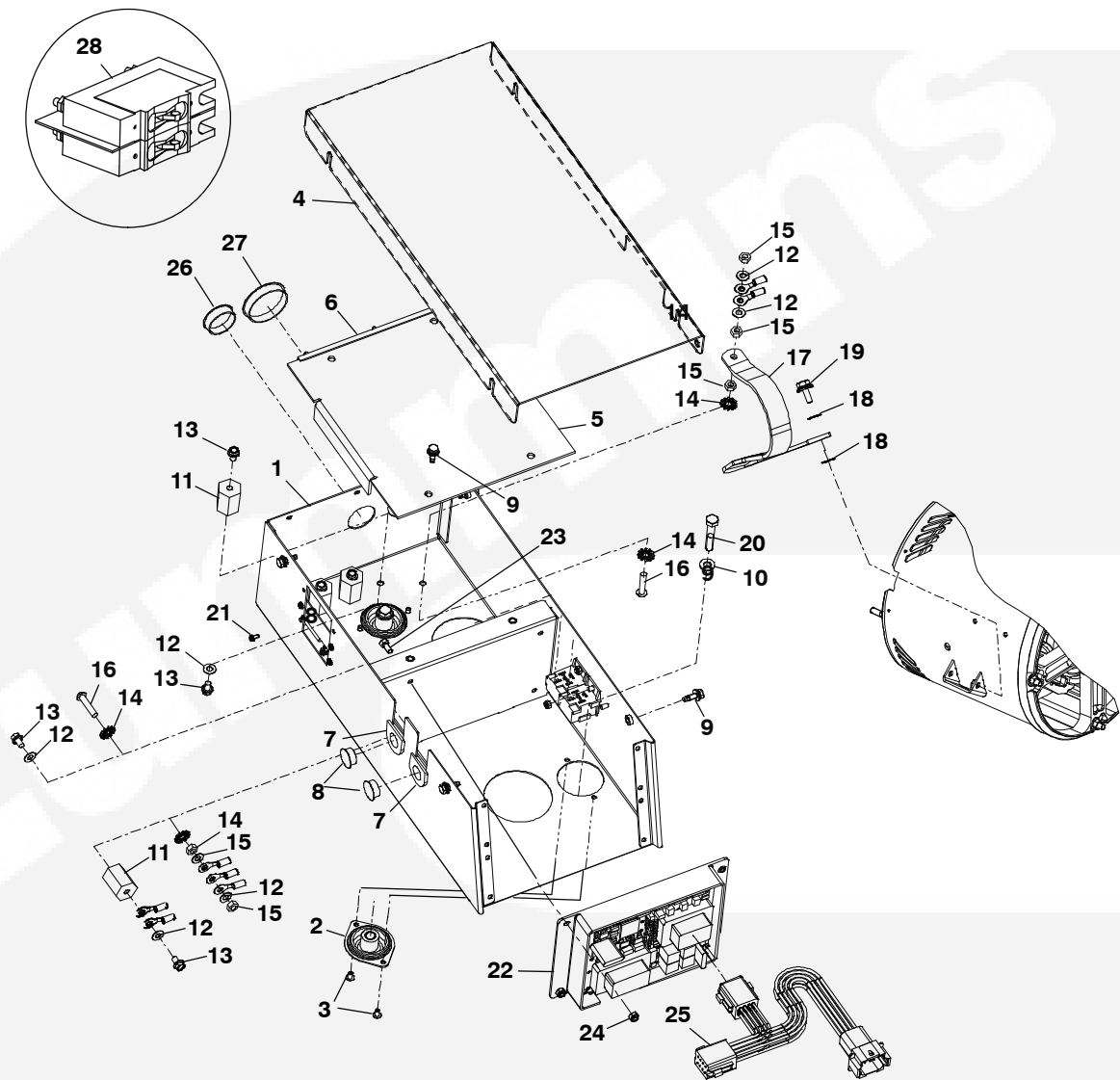


Item	Part No.	Description	Qty
1	327-1691	PCB, Control Card	1
2	404-0022-03	Panel, PCB Mounting	1
3	800-3042	Screw, Hex Head (M4 x 10mm)	2
4	526-2050	Washer, Flat (M4)	2
5	800-6033	Screw, Hex Head Sems Stainless Steel (M6 x 1 x 16mm)	3

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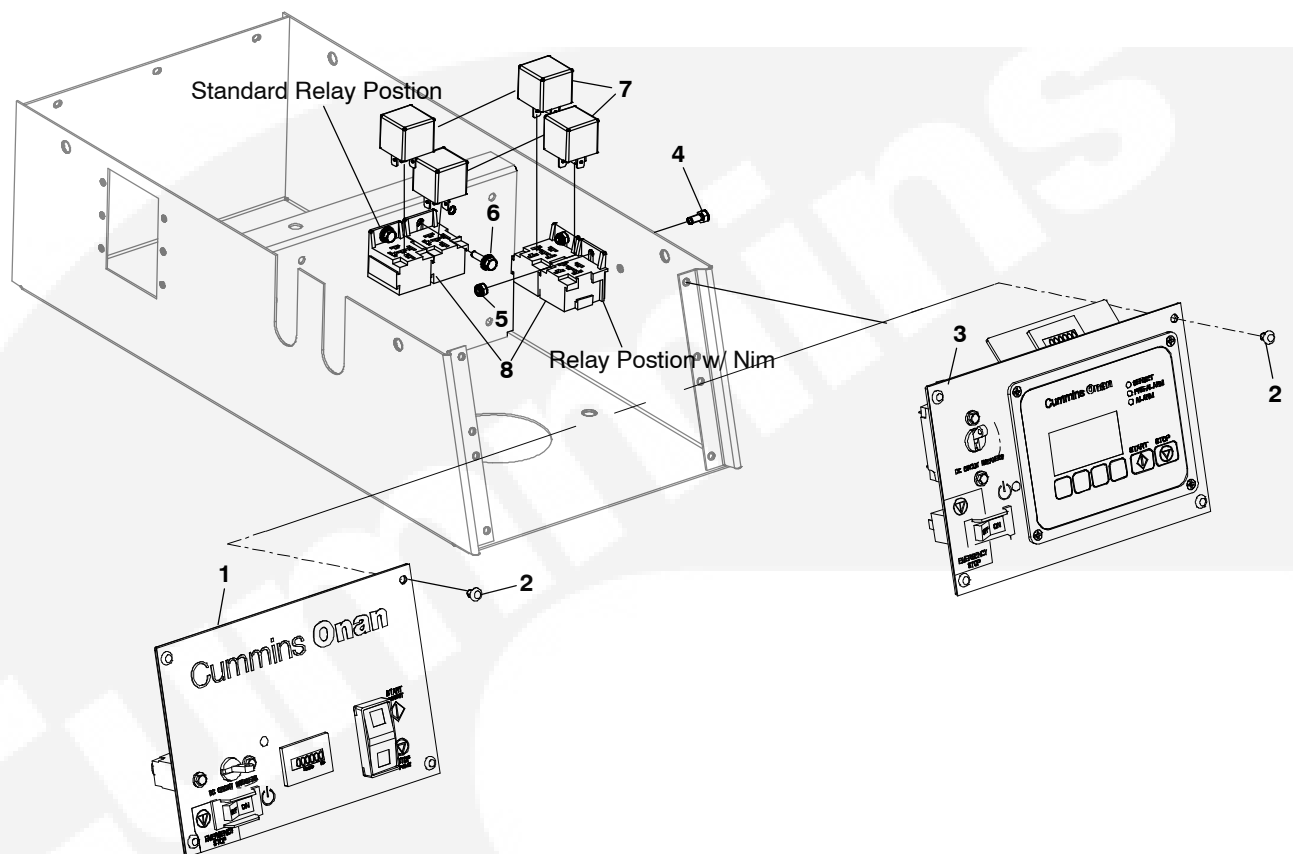
Control Box



Control Box

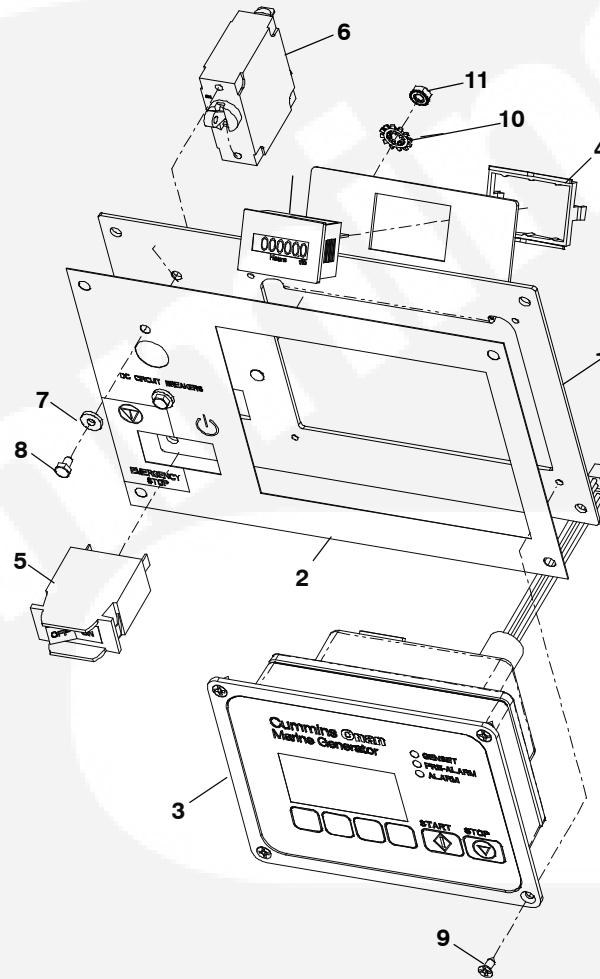
Item	Part No.	Description	Qty
1	319-6227-03	Control, Box	1
2	402-0681-01	Isolator, Vibration	3
3	818-0231-01	Rivet, Pop	6
4	319-6228-03	Cover, Box Control	1
5	319-4404	Cover	1
6	332-3750	Guide, Card	1
7	508-1105	Grommet, Remote	2
8	517-0136	Plug, Hole	2
9	A030B088	Screw, Hex Head Sems (M6 1.0 x 16mm)	6
10	526-2100	Washer, Flat (M8)	3
11	332-2370	Standoff, Insulator	2
12	526-0052	Washer, Flat (6.75ID x 14.30D x .8mm)	6
13	821-0009	Screw, Locking Head (1/4-20UNC x 14.30D x .8)	4
14	856-0006	Washer, ETIT Locking (1/4")	4
15	871-0016	Nut, Hex (1/4-20")	5
16	810-0155	Screw, Round Head	2
17	337-2795	Strap, Bond	1
18	853-0016	Washer, ET Locking (5/16")	2
19	821-6003-01	Screw, Hex Head Sems (M8 x 1.25 x 16mm)	1
20	800-6062	Screw, Hex Head Cap (M8 x 1.25 x 45mm)	3
21	815-0550-03	Screw, XREC Phillips (#6-23 x .312")	4
22	327-1659-01	PCB	1
23	800-6002	Screw, Hex Head (M5 x 0.8 x 10mm)	4
24	870-2062	Nut, Nylon Locking (M5)	4
25	338-4491	Harness, Accessory (J1939)	1
26	517-0138-05	Plug, Hole	1
27	517-0138-08	Plug, Hole	1
28		Breaker, Circuit	
		HDKBL	
	A040F807	30 Amp	1
		HDKBM	
	A040F811	45 Amp	1
		HDKBM	
	A040F813	50 Amp	1

Control Panel



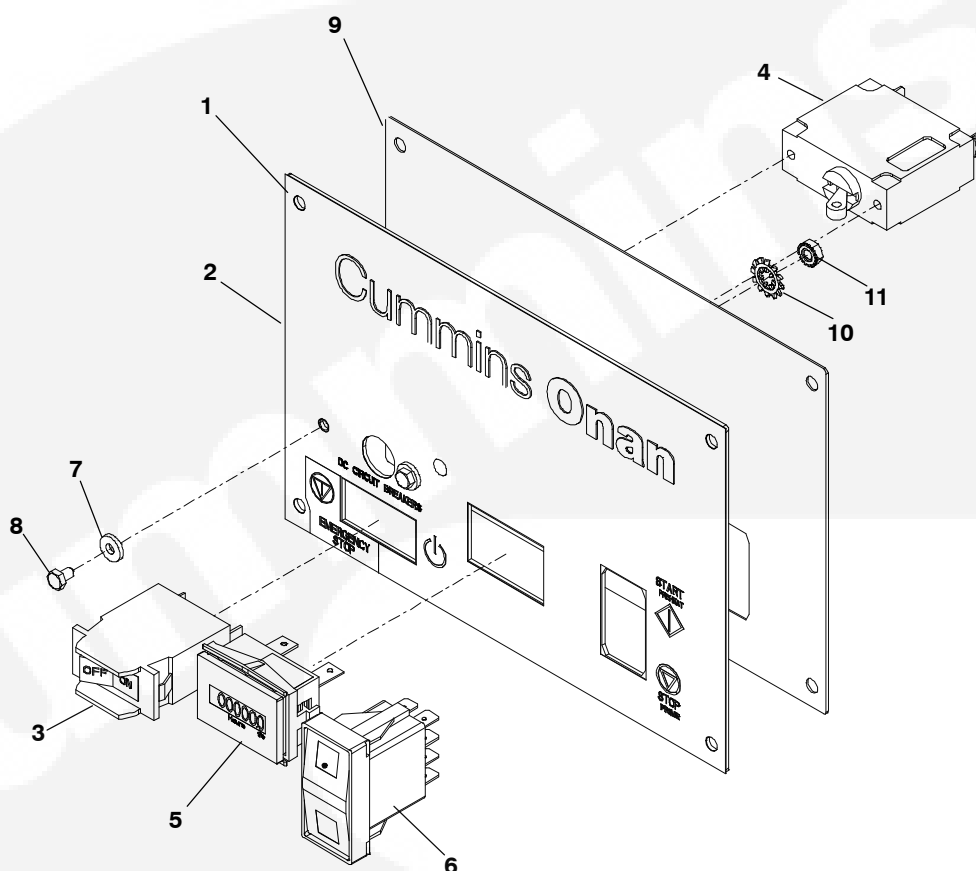
Item	Part No.	Description	Qty
1		Assy, Engine Panel (See Control Panel for Parts)	
	300-6362-01	12V	1
	300-6362-02	24V	1
2	818-1150-03	Rivet, Drive Plastic (Std)	4
3	300-6363-02	Assy, Control	1
4	800-6002	Screw, Hex Head Cap (M5 x .8 x 10mm)	2
5	870-2062	Nut, Nylon Lock (M5)	2
6	821-6001-03	Screw, Hex Head Sems (M5 x .8 x 16mm)	2
7		Relays	
	307-2767	12V	2
	307-2819	24V	2
8	323-1563	Contact, Relay	2

Control Panel (eSDD Display)



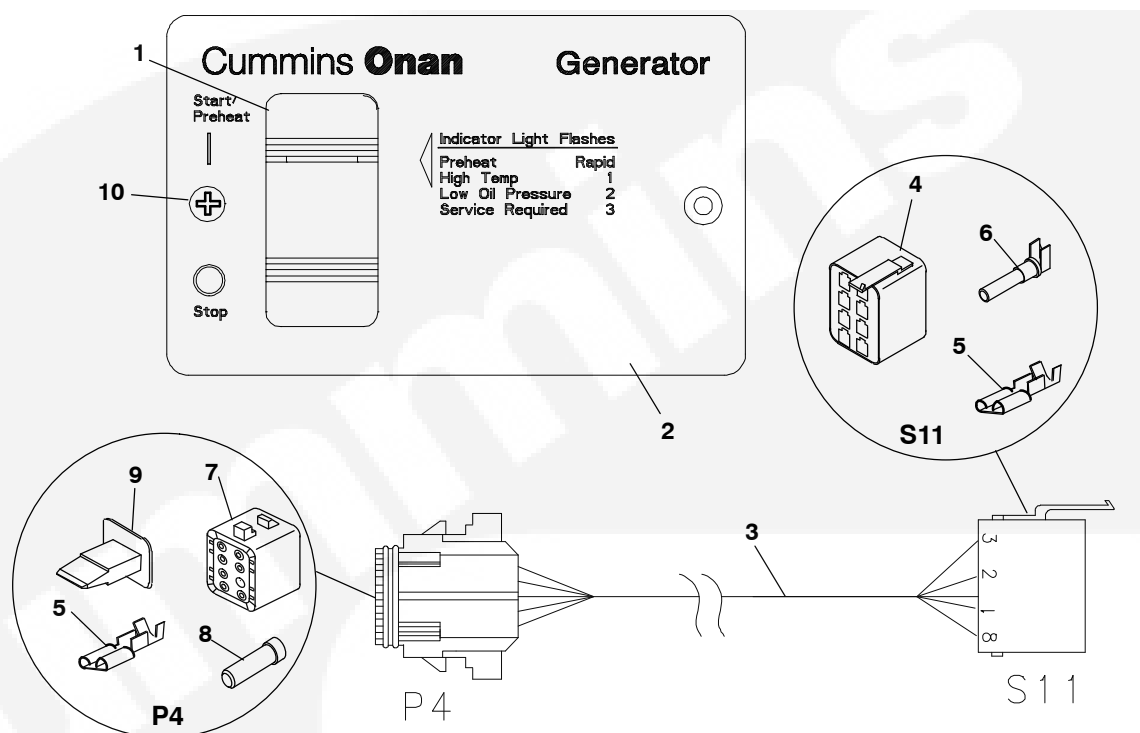
Item	Part No.	Description	Qty
	300-5944-03	Kit, Control (Kit Includes Parts Marked *)	1
1	319-5544-02	*Panel, Display	1
2	98-8323	*Label, Information	1
3	300-6393	*Controls	1
4	302-2048	Hourmeter	1
5	320-2361	Breaker, Circuit	1
6	320-2362	Breaker, Circuit	1
7	526-0399-05	*Washer, Flat (#6)	2
8	800-0309-10	*Screw, Hex Head Mach (#6-32UNC-2A x .250")	2
9	814-2155-01	*Screw, Flange Head XREC (M3.5 x 9.5mm)	4
10	856-0003	*Washer, ETIT Lock (#10")	1
11	870-0131	*Nut, Sems ET (#10-32")	1

Control Panel (eSDD Display)



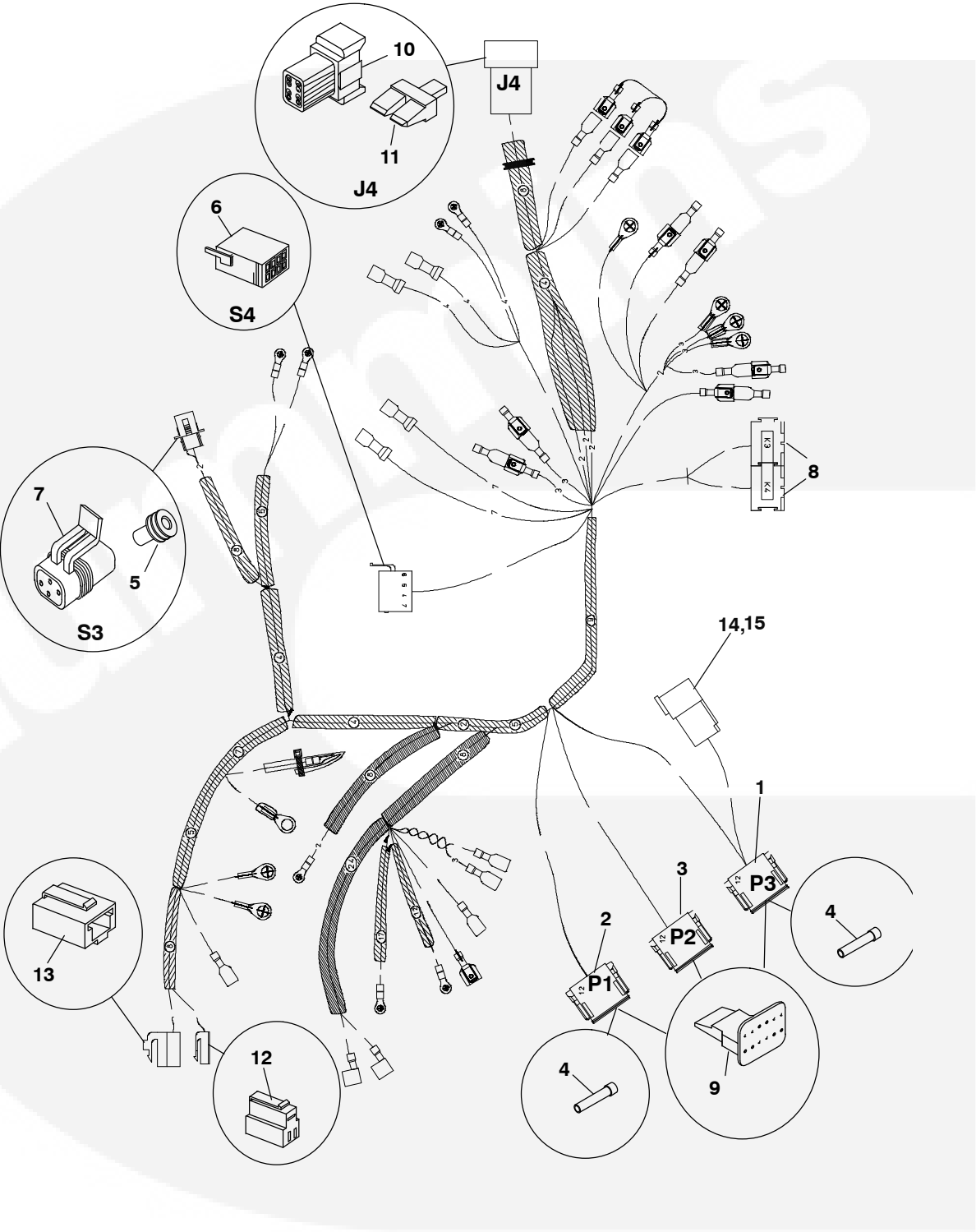
Item	Part No.	Description	Qty
		Assy, Engine Panel (All Parts Included)	
	300-6362-01	12V	1
	300-6362-02	24V	1
1	319-6871-02	Panel, Control	1
2	98-8713	Label, Information (Control)	1
3	320-2361	Breaker Circuit	1
4	320-2362	Breaker Circuit	1
5	302-2048	Meter, Hour	1
6		Switch, Rocker	
	308-1218	12VDC	1
	308-1219	24VDC	1
7	526-0399-05	Washer, Flat DAC	2
8	800-0309-10	Screw, Hex Head Mach (6-32 x 1/4")	2
9	319-6873	Panel, Control Box (Ground)	1
10	856-0003	Washer, EIT Lock (#10)	1
11	870-0131	Nut, Sems EIT (#10-32)	1

Remote Control Panel



Item	Part No.	Description	Qty
		Kit, Remote Switch Harness (Includes Parts Marked +)	
	541-0941-01	12V	
	541-0941-02	24V	
		Kit, Panel Remote (Includes Parts Marked #)	
	300-5725-01	12V	
	300-5725-02	24V	
1		#+Switch, Rocker (S11)	
	308-1101	12V	1
	308-1102	24V	1
2	319-6990	#Panel, Remote (Includes Printing)	1
3	338-3988	#+Harness, Remote Panel (Includes Parts Marked *)	1
4	308-1019	*Connector, Switch (S11)	1
5	332-2890	*Terminal, Receptacle (.25")	6
6	323-1492	*Terminal, Socket	6
7	323-1541	*Plug, (8 Pin)	1
8	323-1491	*Plug, Seal	3
9	323-1543	*Wedge, Plug (8 Pin)	1
10	815-0910	#Screw, Wood (#6 x 1)	2
11	98-8092	+Label, Instructions	1
12	98-8081	#+Label, Warning	1

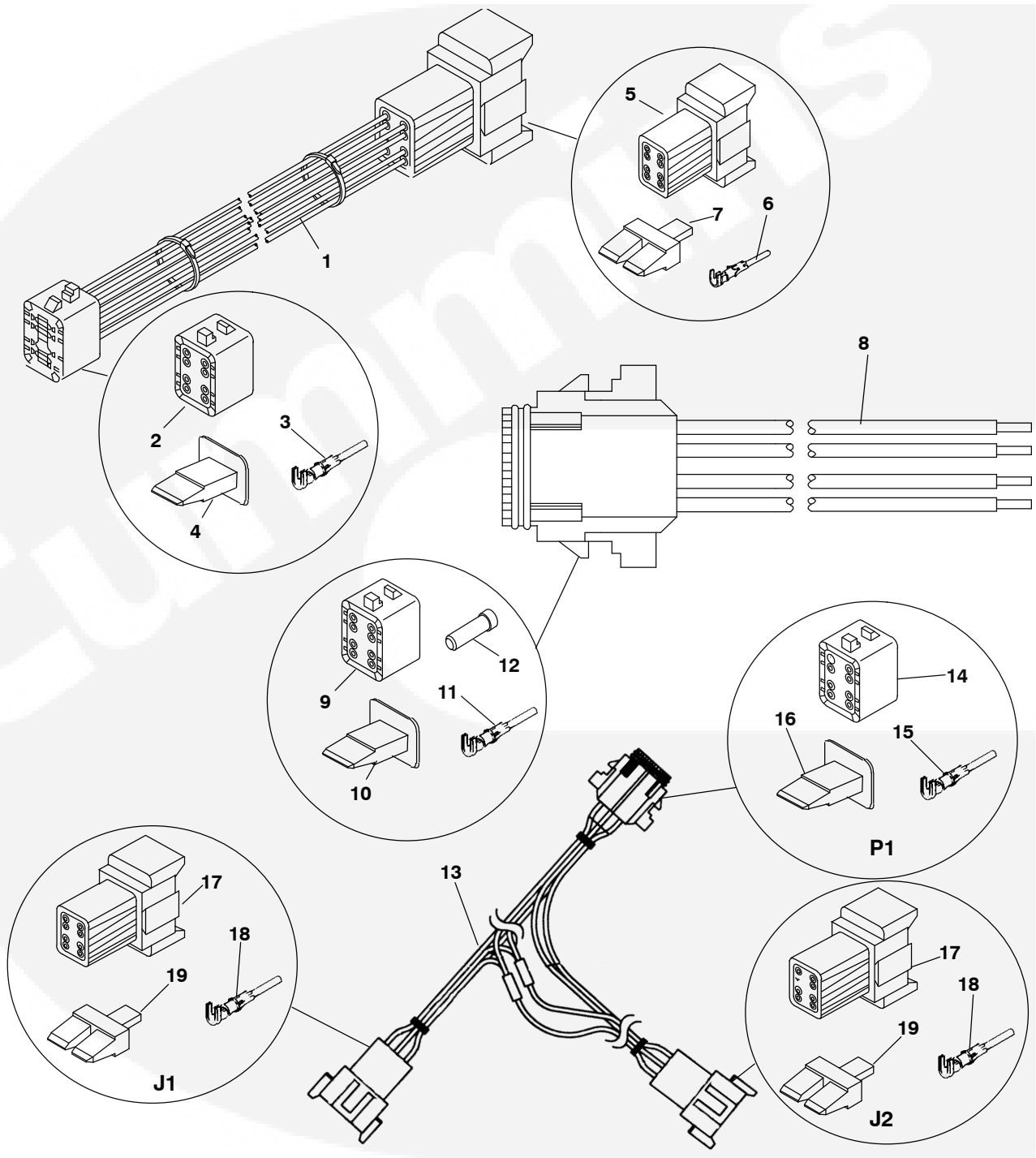
Control Harness



Control Harness

Item	Part No.	Description	Qty
	338-4953	Harness, Control	1
1	323-1582-06	Plug(12 Pin, Green P3)	1
2	323-1582-05	Plug (12 Pin, Black P1)	1
3	323-1582-07	Plug (12 Pin, Gray P2)	1
4	323-1591	Plug (P1, P3)	AR
5	323-1708	Seal,Cable(S3)	AR
6	308-1019	Switch, Connector (S4)	1
7	323-1765	Connector, Housing 4 Pin (S3)	1
8	323-1563	Socket, Relay	1
9	323-1583	Plug, Wedge 12 Pin	3
10	323-1542	Connector, Receptacle 8 Pin	1
11	323-1544	Receptacle, Wedge(J4)	1
12	323-1791	Connector, Plus 1 Pos	1
13	323-1792	Connector, Plus 3 Pos	1
14	323-1625	Connector, Connector Receptacle 6 Pin	1
15	323-1626	Wedge, 6 Pin	1

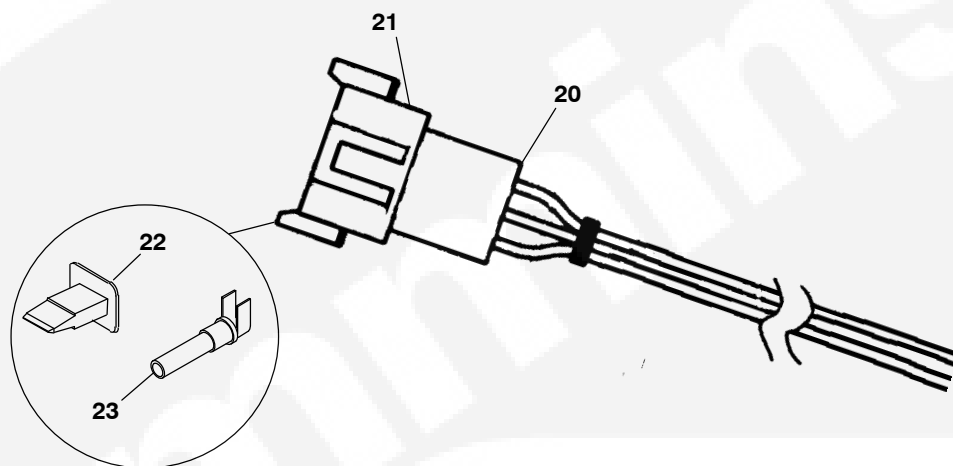
Wiring Harnesses



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Wiring Harnesses



Wiring Harness

Item	Part No.	Description	Qty
1		Harness, Remote Extension (Includes Parts Marked #)	
	338-3167	15 feet	1
	338-3168	25 feet	1
	338-3169	45 feet	1
	338-3169-01	75 feet	1
	338-3169-02	100 feet	1
	338-3169-03	150 feet	1
2	323-1541	# Plug (8 Pin)	1
3	323-1492	# Terminal, Socket	8
4	323-1543	# Wedge, Plug (8 Pin)	1
5	323-1542	# Receptacle, (8 Pin)	1
6	323-1491	# Terminal, Pin	8
7	323-1544	# Wedge, Receptacle (8 Pin)	1
8	338-4223	Harness, Remote Panel	1
9	323-1541	Plug (8 Pin)	1
10	323-1543	Wedge, Plug (8Pin)	1
11	323-1492	Terminal, Socket	AR
12	323-1591	Plug, Seal	AR
13	338-4016	Harness, Junction (Includes Parts Marked +)	1
14	323-1541	±° Plug, Connector (8 Pin)	1
15	323-1492	±° Terminal, Socket	AR
16	323-1543	±° Wedge, Plug (8 Pin)	1
17	323-1542	+ Connector, Receptacle (8 Pin)	2
18	323-1491	@ Terminal, Pin	AR
19	323-1544	+ Wedge, Lock, Receptacle (8 Pin)	2
20	338-4017	Harness, Pigtail (Includes Parts Marked @)	1
21	323-1542	@ Connector, Receptacle (8 Pin)	1
22	323-1544	@ Wedge, Lock (8 Pin)	2
23	323-1491	@ Terminal, Pin	AR

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