

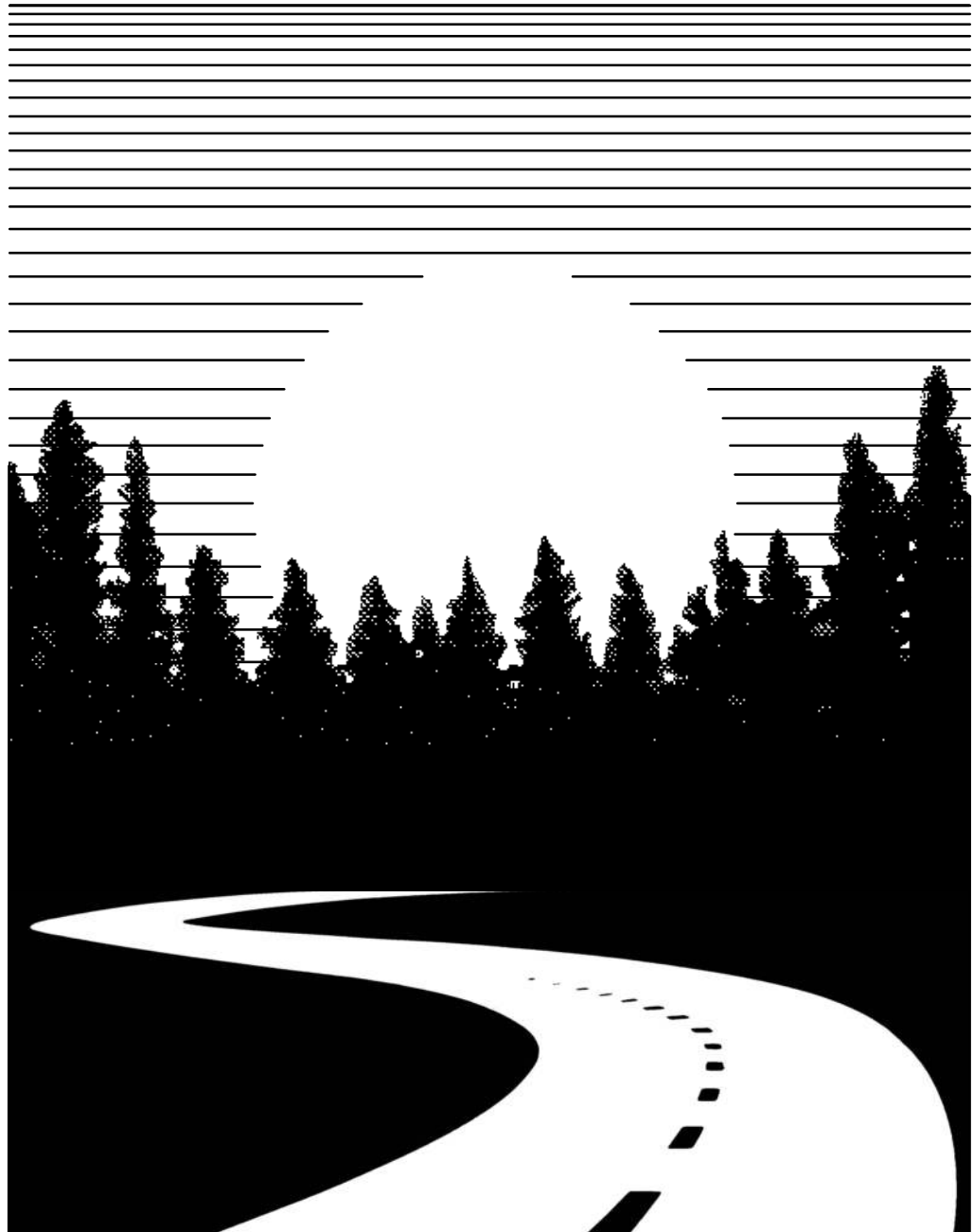
Onan

Genset

Parts Catalog

**HDKAH
HDKAJ
HDKAK**

**HDKAV
HDKAT
HDKAU**



Printed in U.S.A.

981-0200F
2/07 (HDKAH/J/K/V/T/U Spec A-K)

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Onan 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



Service and repair of Onan equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, 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!

PSP-1

Introduction

This parts catalog applies to the standard generator sets listed below. Parts are arranged in groups of related items and each illustrated part is defined by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table					
Model Identification	Rating	Wiring Diagram AC/DC	Voltage	Hertz	Phase
7.5HDKAJ/*	7,500 Watts	611-1236	120	60	1
7.5HDKAT/*	7,500 Watts	611-1236	120	60	1
8.0HDKAK/*	8,000 Watts	611-1236	120	60	1

* – The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes.

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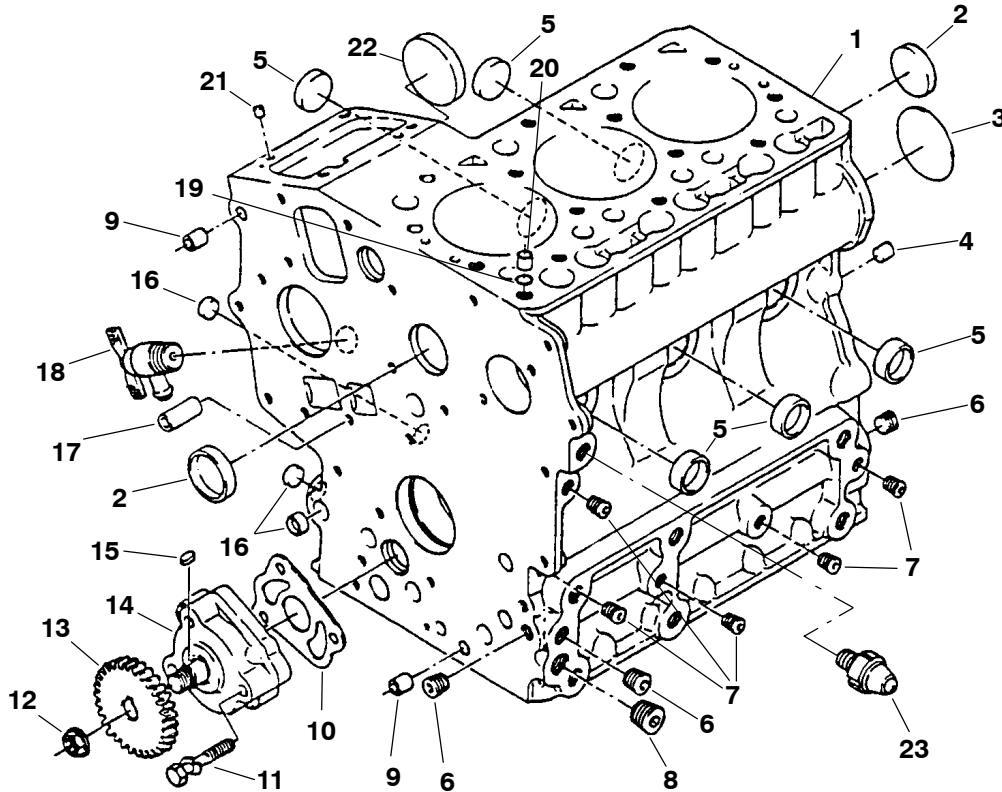
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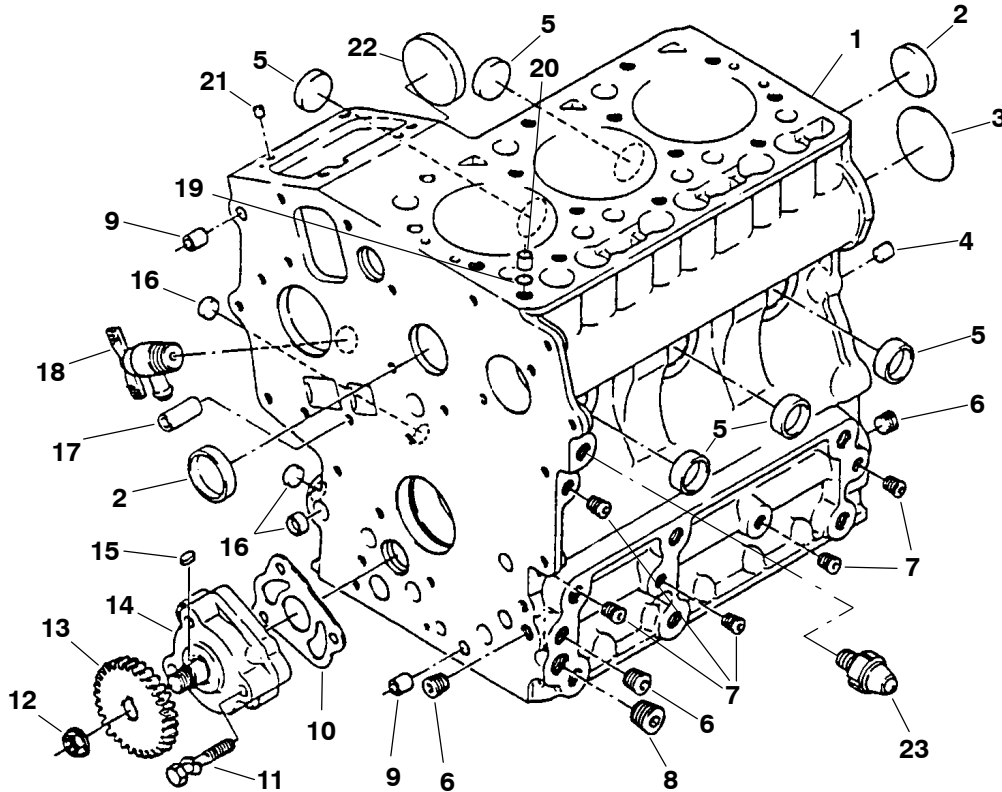
Cylinder Block (HDKAV, HDKAT and HDKAU)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	100-3707	1	Engine, Replacement Spec A	11	185-5491	3	*Screw, Hex Head Cap
	100-3957		Begin Spec E	12	185-5416	1	*Nut, Flange Hex
			HDKAV, HDKAT and HDKAU	13	185-5414	1	*Gear, Oil Pump Drive
1			Block Assy, Cylinder (Includes Parts Marked *)	14		1	*Pump, Oil
	185-6704	1	Spec A		185-5412	1	Spec A
	181-9183		Begin Spec E		120-1363	1	Begin Spec E
			HDKAV, HDKAT and HDKAU				HDKAV, HDKAT and HDKAU
2	185-5484	2	*Cap, Sealing	15	185-5415	1	*Key, Feather
3	185-5485	1	*Plug	16	185-5482	3	*Cap, Sealing
4	185-5487	2	*Pin, Straight	17	185-5488	2	*Pin, Hollow
5	185-5483	5	*Cap, Sealing	18	185-5490	1	*Cock, Drain
6	185-2233	3	*Plug, Pipe	19	185-2095	1	*O'Ring
7	185-2412	5	*Plug, Pipe	20	185-2094	1	*Pin, Hollow
8	185-2234	1	*Plug, Pipe	21	185-5486	2	*Pin, Straight
9	185-2115	2	*Pin, Hollow	22	185-5489	1	*Cover, Fuel Camshaft
10	185-5413	1	*Gasket, Oil Pump	23	185-5492	1	Switch, Oil Pressure (S15)*

- Parts Included in Cylinder Block Assy.

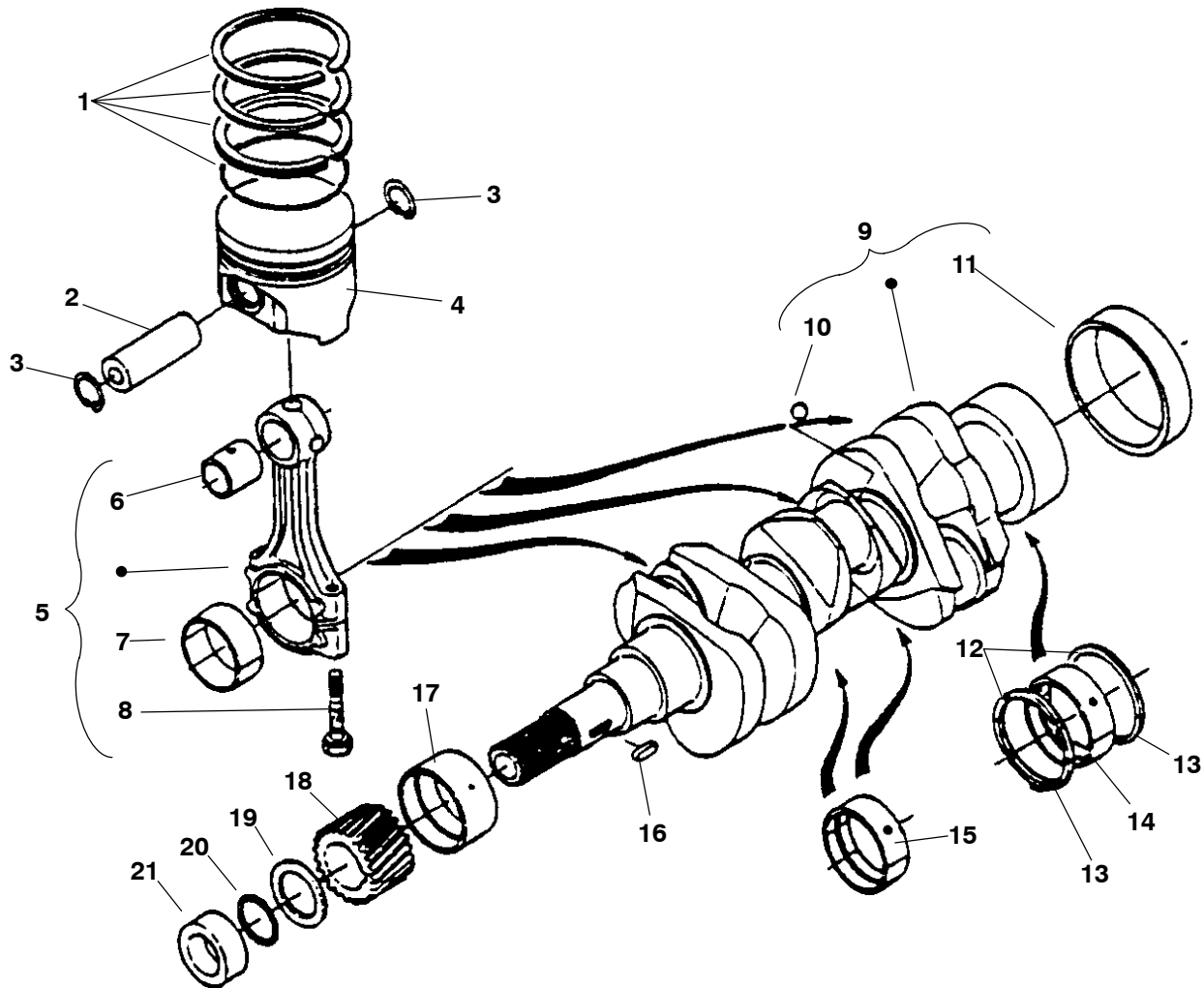
Cylinder Block (HDKAH, HDKAJ and HDKAK)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine, Replacement	11	185-5491	3	*Screw, Hex Head Cap
	100-3707	1	Spec A	12	185-5416	1	*Nut, Flange Hex
	100-3957	1	Begin Spec H	13	185-5414	1	*Gear, Oil Pump Drive
			HDKAH, HDKAJ	14		1	*Pump, Oil
			and HDKAK		185-5412	1	Spec A
1			Block Assy, Cylinder (Includes		120-1363	1	Begin Spec H
			Parts Marked *)				HDKAH, HDKAJ
	185-6704	1	Spec A				and HDKAK
	181-9183	1	Begin Spec H	15	185-5415	1	*Key, Feather
			HDKAH, HDKAJ	16	185-5482	3	*Cap, Sealing
			and HDKAK	17	185-5488	2	*Pin, Hollow
2	185-5484	2	*Cap, Sealing	18	185-5490	1	*Cock, Drain
3	185-5485	1	*Plug	19	185-2095	1	*O'Ring
4	185-5487	2	*Pin, Straight	20	185-2094	1	*Pin, Hollow
5	185-5483	5	*Cap, Sealing	21	185-5486	2	*Pin, Straight
6	185-2233	3	*Plug, Pipe	22	185-5489	1	*Cover, Fuel Camshaft
7	185-2412	5	*Plug, Pipe	23	185-5492	1	Switch, Oil Pressure (S15)
8	185-2234	1	*Plug, Pipe				
9	185-2115	2	*Pin, Hollow				
10	185-5413	1	*Gasket, Oil Pump				

* - Parts Included in Cylinder Block Assy.

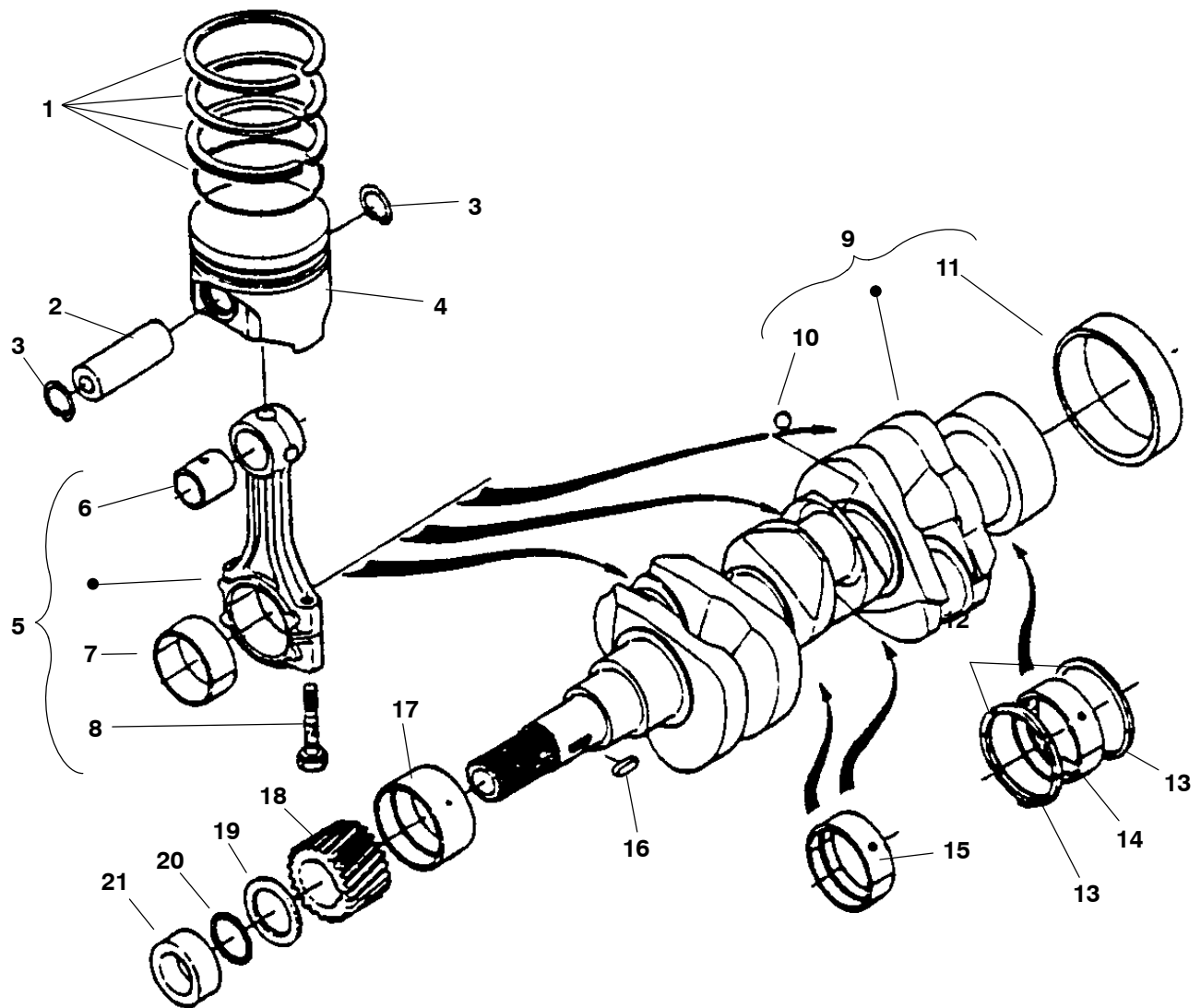
Crankshaft (HDKAV, HDKAT and HDKAU)



Crankshaft (HDKAV, HDKAT and HDKAU)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Set, Piston Ring	13			Bearing, Thrust
	185-7076	3	Spec A		185-2023	2	Standard
	185-5351	3	Standard		185-2030	2	+ 0.20 mm
			+ 0.25 mm		185-2031	2	+ 0.40 mm
			Begin Spec E HDKAV & HDKAT and HDKAU	14			Set, Bearing
	185-7076	3	Standard		185-5581	2	Spec A
	185-7386	3	+ 0.25 mm		185-5360	2	Standard
2			Pin, Piston		185-5357	2	- 0.20 mm
	185-7076	3	Spec A				- 0.40 mm
	112-0304	3	Begin Spec E HDKAV & HDKAT and HDKAU				Begin Spec E HDKAV & HDKAT and HDKAU
3	185-2016	6	Ring, Retaining		185-5580	2	Standard
4			Piston		185-5356	2	- 0.20 mm
	185-5566	3	Standard		185-5357	2	- 0.40 mm
	185-5350	3	+ 0.25 mm	15			Set, Bearing
5			Rod, Connecting (Includes Bushings and Bolt)		185-5580	2	Spec A
	185-5569	3	Spec A		185-5360	2	Standard
	114-0420	3	Begin Spec E HDKAV & HDKAT and HDKAU		185-5361	2	- 0.20 mm
6			Bushing, Connecting Rod				- 0.40 mm
	185-5358	3	Spec A		185-5581	2	Begin Spec E HDKAV & HDKAT and HDKAU
	508-1255	3	Begin Spec E HDKAV & HDKAT and HDKAU		185-5360	2	Standard
7			Bushing, Connecting Rod		185-5361	2	- 0.20 mm
	185-5571	3	Standard	16	185-2353	1	- 0.40 mm
	185-5572	3	- 0.20 mm	17			Key, Feather
	185-5573	3	- 0.40 mm		185-5577	1	Bushing, Crankshaft
8	185-5570	6	Bolt, Connecting Rod		185-5578	1	Standard
9			Crankshaft (Includes Ball and Sleeve)		185-5579	1	- 0.20 mm
	185-6705	1	Spec A	18	185-5576	1	- 0.40 mm
	185-7415	1	Begin Spec E HDKAV & HDKAT and HDKAU	19	185-5583	1	Gear, Crankshaft
10	185-5575	3	Ball	20			Slinger, Oil
11	185-2033	1	Sleeve		185-5584	1	O'Ring
12			Bearing, Thrust		509-0380	1	Spec A
	185-2022	2	Standard				Begin Spec E HDKAV & HDKAT and HDKAU
	185-2028	2	+ 0.20 mm	21	185-7407	1	Collar
	185-2029	2	+ 0.40 mm				

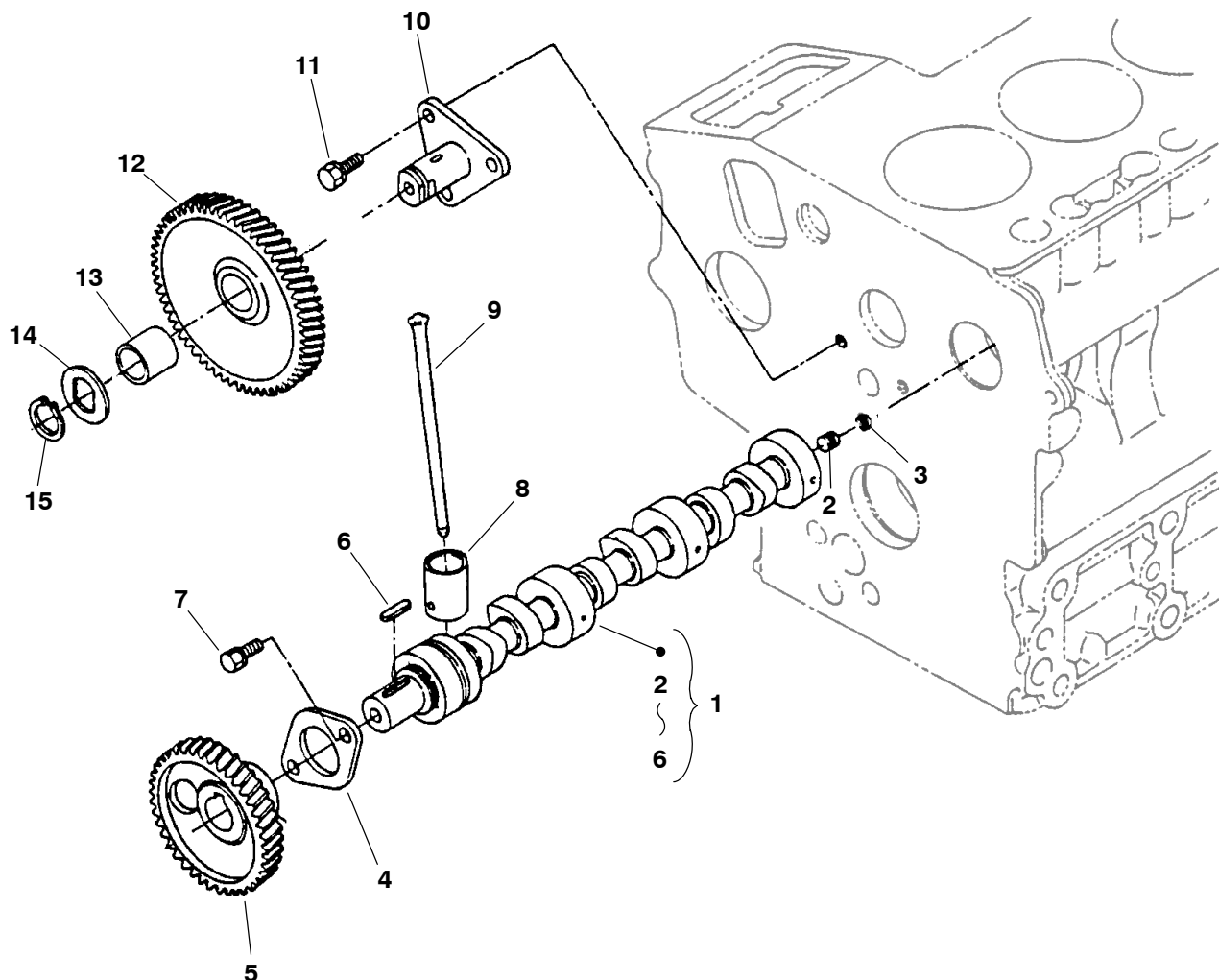
Crankshaft (HDKAH, HDKAJ and HDKAK)



Crankshaft (HDKAH, HDKAJ and HDKAK)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Set, Piston Ring	13			Bearing, Thrust
	185-7076	3	Spec A		185-2023	2	Standard
	185-5351	3	Standard		185-2030	2	+ 0.20 mm
			+ 0.25 mm		185-2031	2	+ 0.40 mm
			Begin Spec H HDKAH & HDKAJ and HDKAK	14			Set, Bearing
	185-7076	3	Standard		185-5581	2	Spec A
	185-7386	3	+ 0.25 mm		185-5360	2	Standard
2			Pin, Piston		185-5357	2	- 0.20 mm
	185-7076	3	Spec A				- 0.40 mm
	112-0304	3	Begin Spec H HDKAH & HDKAJ and HDKAK				Begin Spec H HDKAH & HDKAJ and HDKAK
3	185-2016	6	Ring, Retaining		185-5580	2	Standard
4			Piston		185-5356	2	- 0.20 mm
	185-5566	3	Standard		185-5357	2	- 0.40 mm
	185-5350	3	+ 0.25 mm	15			Set, Bearing
5			Rod, Connecting (Includes Bushings and Bolt)		185-5580	2	Spec A
	185-5569	3	Spec A		185-5360	2	Standard
	114-0420	3	Begin Spec H HDKAH & HDKAJ and HDKAK		185-5361	2	- 0.20 mm
6			Bushing, Connecting Rod				- 0.40 mm
	185-5358	3	Spec A		185-5581	2	Begin Spec H HDKAH & HDKAJ and HDKAK
	508-1255	3	Begin Spec H HDKAH & HDKAJ and HDKAK		185-5360	2	Standard
7			Bushing, Connecting Rod		185-5361	2	- 0.20 mm
	185-5571	3	Standard	16	185-2353	1	- 0.40 mm
	185-5572	3	- 0.20 mm	17			Key, Feather
	185-5573	3	- 0.40 mm		185-5577	1	Bushing, Crankshaft
8	185-5570	6	Bolt, Connecting Rod		185-5578	1	Standard
9			Crankshaft (Includes Ball and Sleeve)		185-5579	1	- 0.20 mm
	185-6705	1	Spec A	18	185-5576	1	- 0.40 mm
	185-7415	1	Begin Spec H HDKAH & HDKAJ and HDKAK	19	185-5583	1	Gear, Crankshaft
10	185-5575	3	Ball	20			Slinger, Oil
11	185-2033	1	Sleeve		185-5584	1	O'Ring
12			Bearing, Thrust		509-0380	1	Spec A
	185-2022	2	Standard				Begin Spec H HDKAH & HDKAJ and HDKAK
	185-2028	2	+ 0.20 mm	21	185-7407	1	Collar
	185-2029	2	+ 0.40 mm				

Camshaft

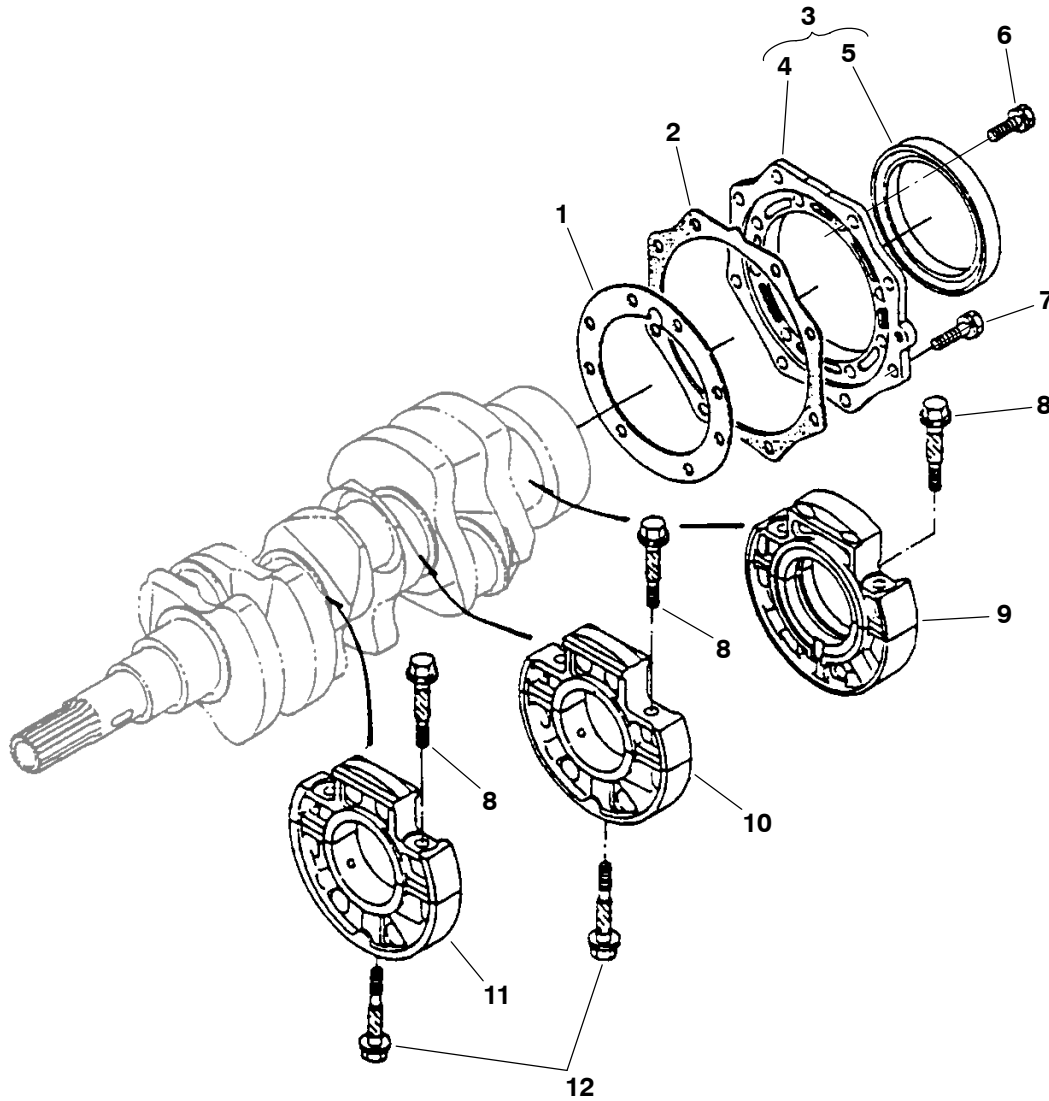


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7074	1	Camshaft Assy (Includes Parts Marked *)
2	185-5558	1	*Screw, Set (Spec A)
3	185-5924	1	Bearing, Ball (Spec H /Spec E)
4	185-5561	1	*Plate, Retaining
5	185-7075	1	*Gear, Camshaft
6	185-5560	1	*Key, Feather
7	185-2380	2	Screw, Hex Washer Head W/Lock Cap (M6 x 12mm)
8			Tappet
	185-5554	1	Spec A
	181-9159	1	Begin Spec H HDKAH & HDKAJ and HDKAK
	181-9159	1	Begin Spec E HDKAV & HDKAT and HDKAU
9	185-5555	6	Rod, Push

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	185-5565	1	Shaft, Idle Gear
11	185-2387	3	Screw, Hex Washer Head Cap W/ Lock (M6 x 14mm)
12	185-5562	1	Gear, Idle (Includes Bushing)
13	185-7385	1	Bushing, Idle Gear
14	185-5563	1	Spacer
15	185-5564	1	Ring, Retaining

* - Parts Included in Camshaft Assy.

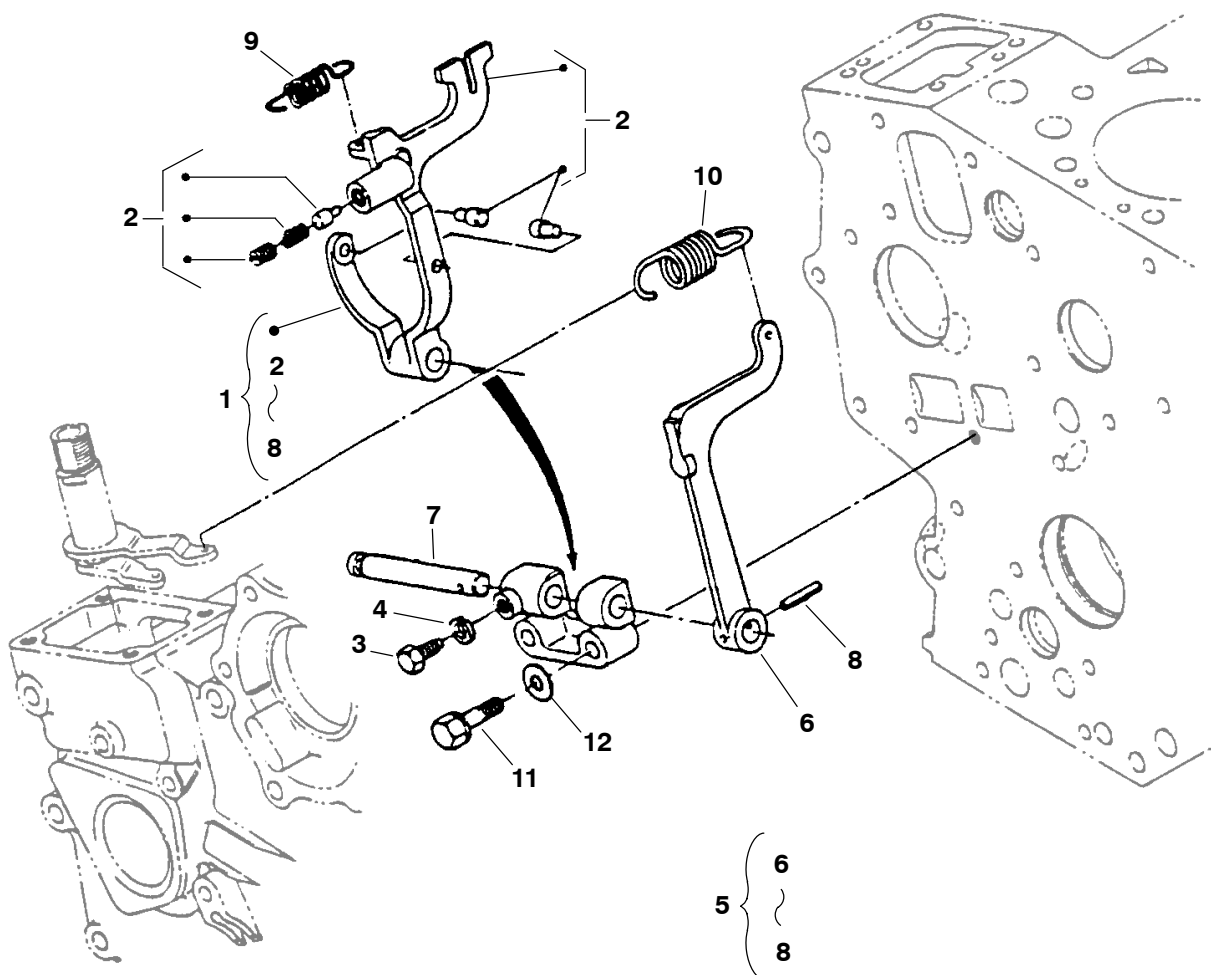
Main Bearing Holders



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5438	1	Gasket
2	185-7383	1	Gasket
3	185-7073	1	Cover Assy, Main Bearing Case (Includes Cover and Seal)
4	185-5516	1	Cover, Bearing Plate
5	185-5437	1	Seal, Oil
6	185-2390	8	Screw, Hex Head W/ Lock Cap Washer (M6 x 20mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	185-2559	8	Screw, Hex Head Cap
8	185-5515	6	Screw, Hex Head Cap
9	185-7072	1	Holder, Main Rear Bearing
10	185-5808	1	Holder, Main Center Bearing
11	185-5517	1	Holder, Main Front Bearing
12	185-5519	2	Bolt, Bearing Case

Fork Lever

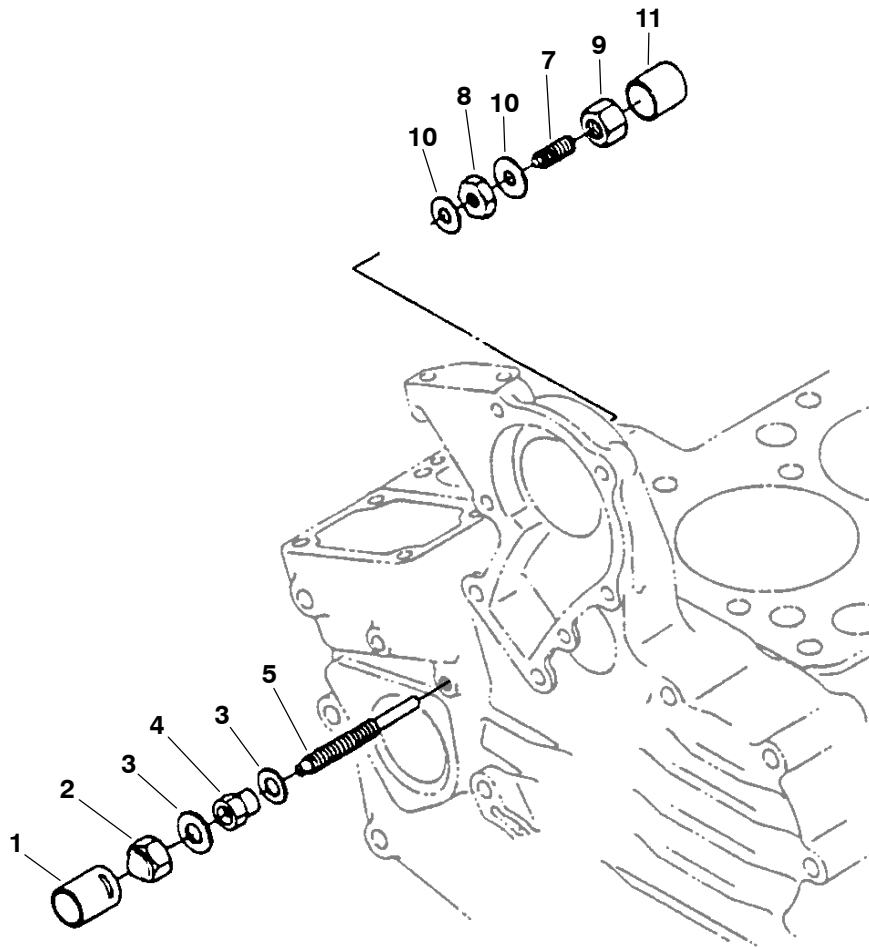


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2871	1	Lever Assy, Fork (Includes Parts Marked *)	8	185-5696	1	*Pin, Spring
2	181-9203	1	*Lever, Inner Fork	9	181-9169	1	Spring, Start
3	185-2173	1	*Screw, Hex Head Cap	10	185-0054	1	Spring, Governor
4	185-6999	1	*Washer, Spring Lock	11	185-2393	2	Screw, Hex Head Cap (M6 x 35mm)
5	185-5701	1	*Lever Assy, Outer Fork (Includes Lever, Shaft and Pin)	12	185-5966	2	Washer, Plain
6	185-5702	1	*Lever, Outer Fork				
7	185-5703	1	*Shaft				

* - Parts Included in Fork Lever Assy.

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Speed Control (Spec A)

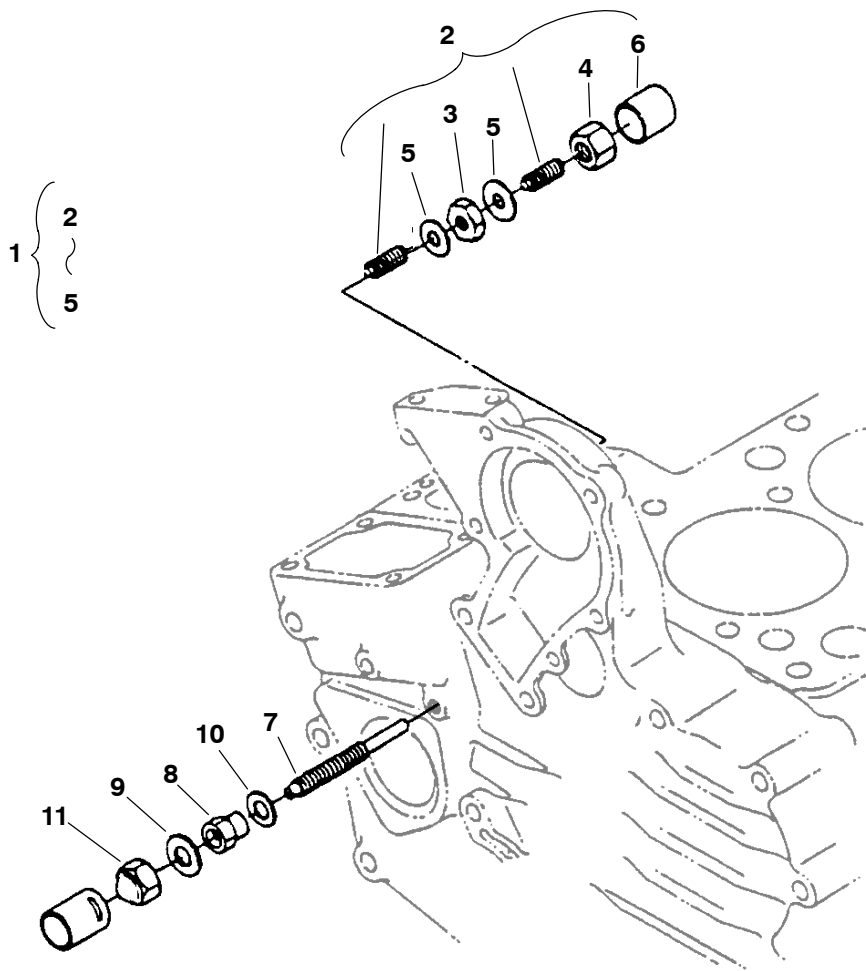


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2283	1	Cap
2	185-5685	1	Nut, Cap
3	185-2284	2	Gasket
4	185-6931	1	Nut, Hex
5	185-7078	1	Screw, Adjusting
6	185-5679	1	Idle Assy., Obsolete
7	185-5680	1	*Bolt, Adjusting (Includes Nuts)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	185-2180	1	*Nut, Hex
9	185-5681	1	*Nut, Cap
10	185-2338	2	*Gasket
11	185-5682	1	*Cap

* - Parts Included in Idle Assy.

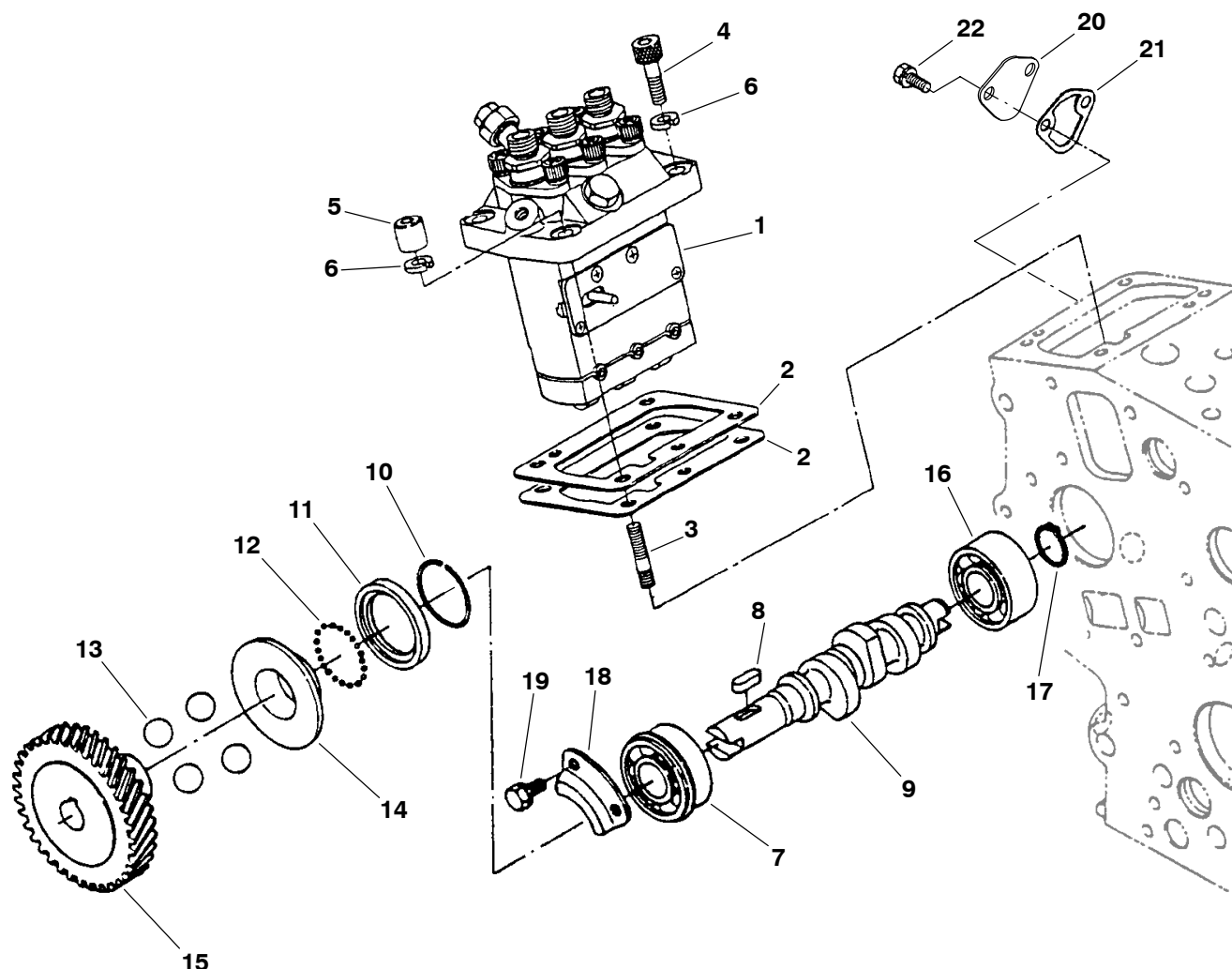
Speed Control (HDKAH, HDKAJ, HDKAK Begin Spec H and HDKAV HDKAT and HDKAU
Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5679	1	Assy, Idle Apparatus (Includes Parts Marked *)	7	150-2872	1	Screw, Adjusting
2	185-5680	1	*Bolt, Adjusting (Includes Nuts)	8	185-6931	1	Nut, Hex
3	185-2180	1	*Nut, Hex	9	185-2284	1	Gasket
4	185-5681	1	*Nut, Cap	10	185-5685	1	Nut, Cap
5	185-2338	2	*Gasket	11	185-5685	1	Nut
6	185-5682	1	Cap				

* - Parts Included in Idle Assy.

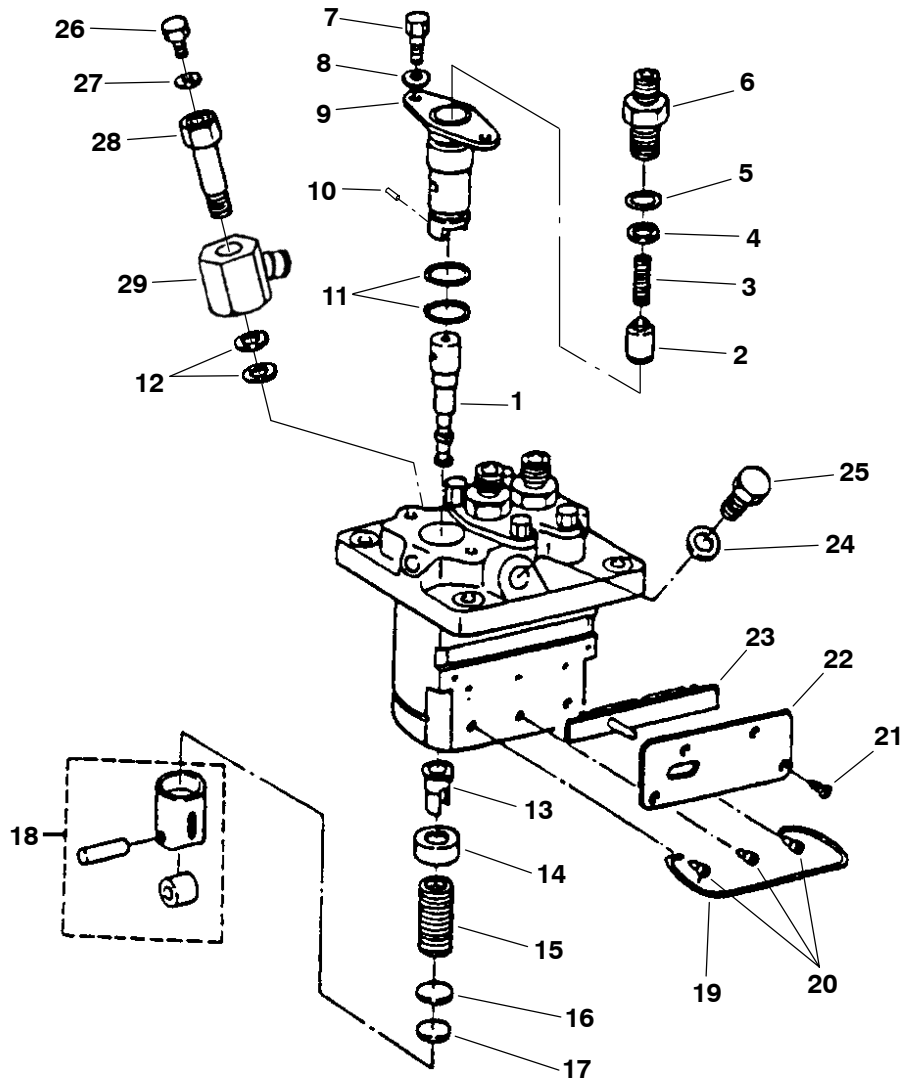
Injection Pump (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-7077	1	Camshaft Assy, Fuel (Includes Parts Marked *)	12	185-2357	32	*Ball
1	185-6937	1	Pump, Injection	13	185-5633	4	*Ball
2			Shim, Injection Pump	14	185-5631	1	*Sleeve, Governor
	185-6883	1	.20mm	15	185-5630	1	*Gear, Injection Pump
	185-6739	1	.25mm	16	510-0163	1	Bearing
	185-6845	1	.30mm	17	185-5634	1	Circlip
3	185-5624	2	Stud	18	185-5635	1	Plate, Retaining
4	185-5623	2	Screw, Socket Head Cap	19	185-2386	2	Screw, Hex Lock Washer Cap (M6 x 12mm)
5	185-5625	2	Nut, Cap	20	185-5798	1	Cover, Hole
6	185-6759	4	Washer, Spring Lock	21	185-6580	1	Gasket, Hole Cover
7	185-5629	1	*Bearing, Ball	22	185-2389	2	Screw, Hex Head Cap
8	185-2353	1	*Key, Feather				
9	185-6706	1	*Camshaft, Fuel				
10	185-2163	1	*Circlip, Governor Sleeve				
11	185-5632	1	*Case, Governor Ball				

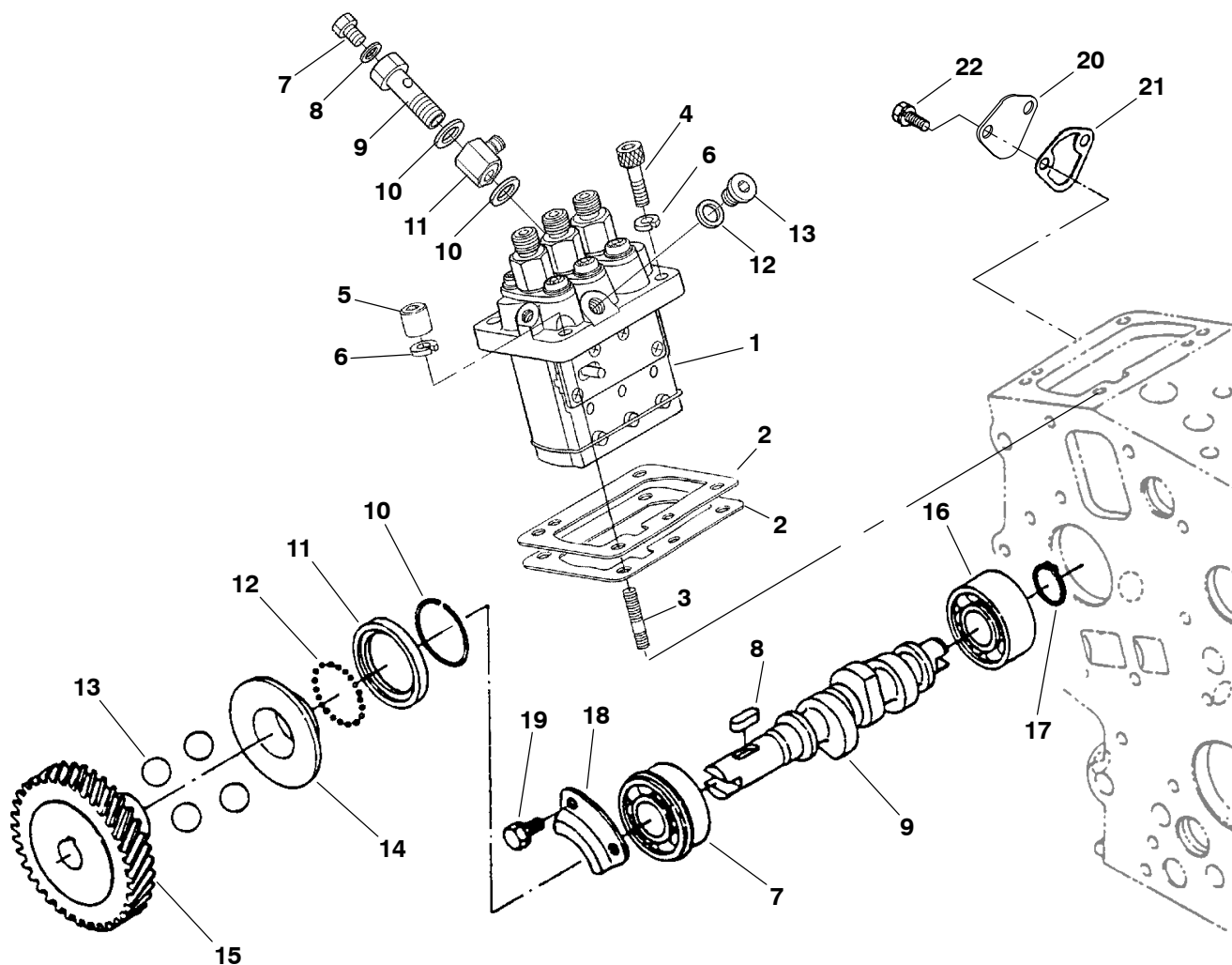
* - Parts Included in Fuel Camshaft Assy.

Injection Pump Components (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6937	1	Pump Assy, Injection	15	185-5652	3	Spring, Plunger
1	185-5638	3	Plunger, Injection Pump	16	185-5654	3	Seat, Lower Spring
2	185-5639	3	Valve, Delivery	17	185-5655	3	Shim
3	185-5640	3	Spring, Delivery Valve	18	185-5649	3	Tappet
4	185-5641	3	Gasket, Delivery Valve	19	185-6707	1	Wire, Retainer
5	185-5643	3	O'Ring	20	185-5650	3	Pin
6	185-5642	3	Holder, Delivery Valve	21	185-5658	4	Screw, Machine
7	185-5647	6	Screw, Round Head Machine	22	185-5818	1	Plate
8	185-5648	6	Washer	23	185-5817	1	Rack, Control
9	185-5644	3	Flange, Sleeve	24	185-5820	1	Gasket, Injection Pump
10	185-5645	3	Pin, Joint	25	185-5819	1	Bolt
11	185-5646	6	O'Ring	26	185-5662	1	Screw
12	185-5661	2	O'Ring	27	185-5663	1	Gasket
13	185-5659	3	Sleeve, Control	28	185-5660	1	Screw, Follow
14	185-5653	3	Seat, Upper Spring	29	185-5626	1	Joint, Eye

Injection Pump(HDKAH, HDKAJ, HDKAK Begin Spec H and HDKAV, HDKAT, HDKAU Begin Spec E)

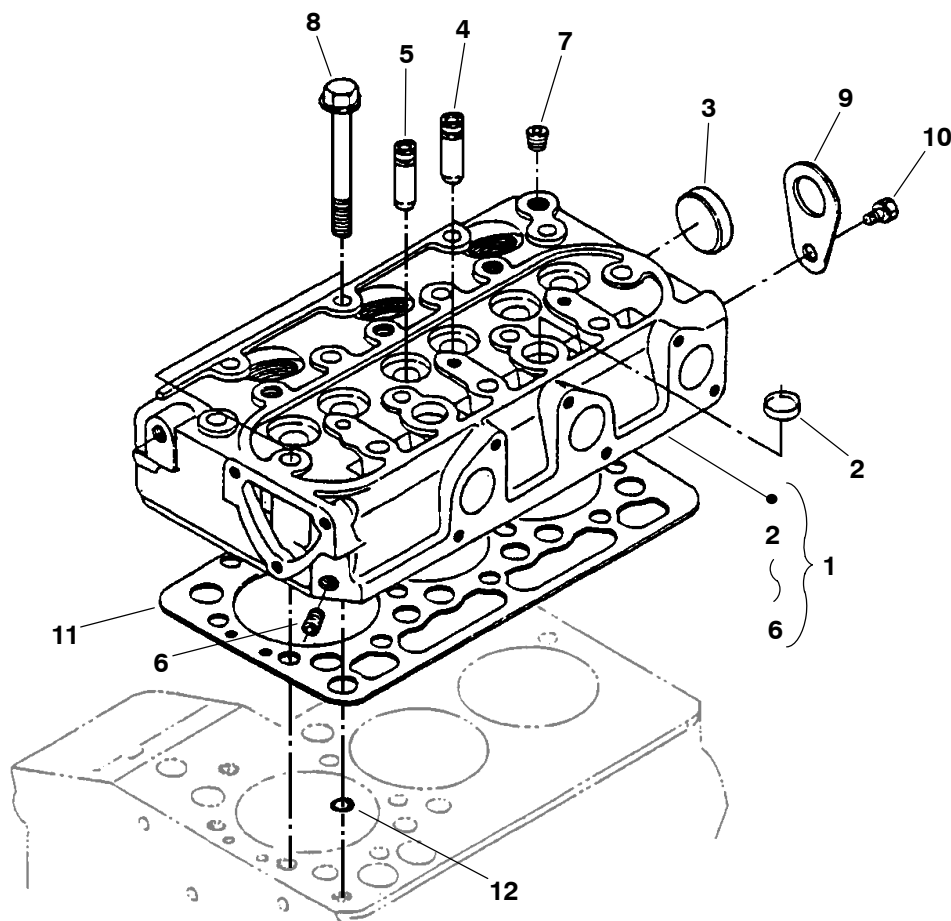


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	181-9201		Camshaft Assy, Fuel (Includes Parts Marked +)
1	185-5425	1	Pump, Injection (Includes Parts Marked*)
2			Shim, Injection Pump
	185-6883	1	.20mm
	185-6739	1	.25mm
	185-6845	1	.30mm
3	185-5624	2	Stud
4	185-5623	2	Screw, Socket Head Cap
5	185-5625	2	Nut, Cap
6	185-6759	4	Washer, Spring Lock
7	185-5662	1	*Screw
8	185-5663	1	*Gasket
9	185-5660	1	*Screw, Hollow
10	185-5626	1	Joint, Eye
11	185-5661	2	*Gasket
12	185-5820	1	*Gasket
13	185-6888	1	*Plug
14	185-5629	1	+Bearing, Ball

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15	185-2353	1	+Key, Feather
16	181-9075	1	+Camshaft, Fuel
17	185-2163	1	+Circlip, Governor Sleeve
18	185-5632	1	+Case, Governor Ball
19	185-2357	32	+Ball
20	185-5633	4	+Ball
21	185-5631	1	+Sleeve, Governor
22	185-5630	1	+Gear, Injection Pump
23	510-0229	1	Bearing
24	185-5634	1	Circlip
25	185-5635	1	Plate, Retaining
26	185-2380	2	Screw, Hex Lock Washer Cap (M6 x 12mm)
27	185-5798	1	Cover, Hole
28	185-6919	1	Gasket, Hole Cover
29	185-2389	2	Screw, Hex Head Cap

* - Parts Included in Fuel Camshaft Assy.

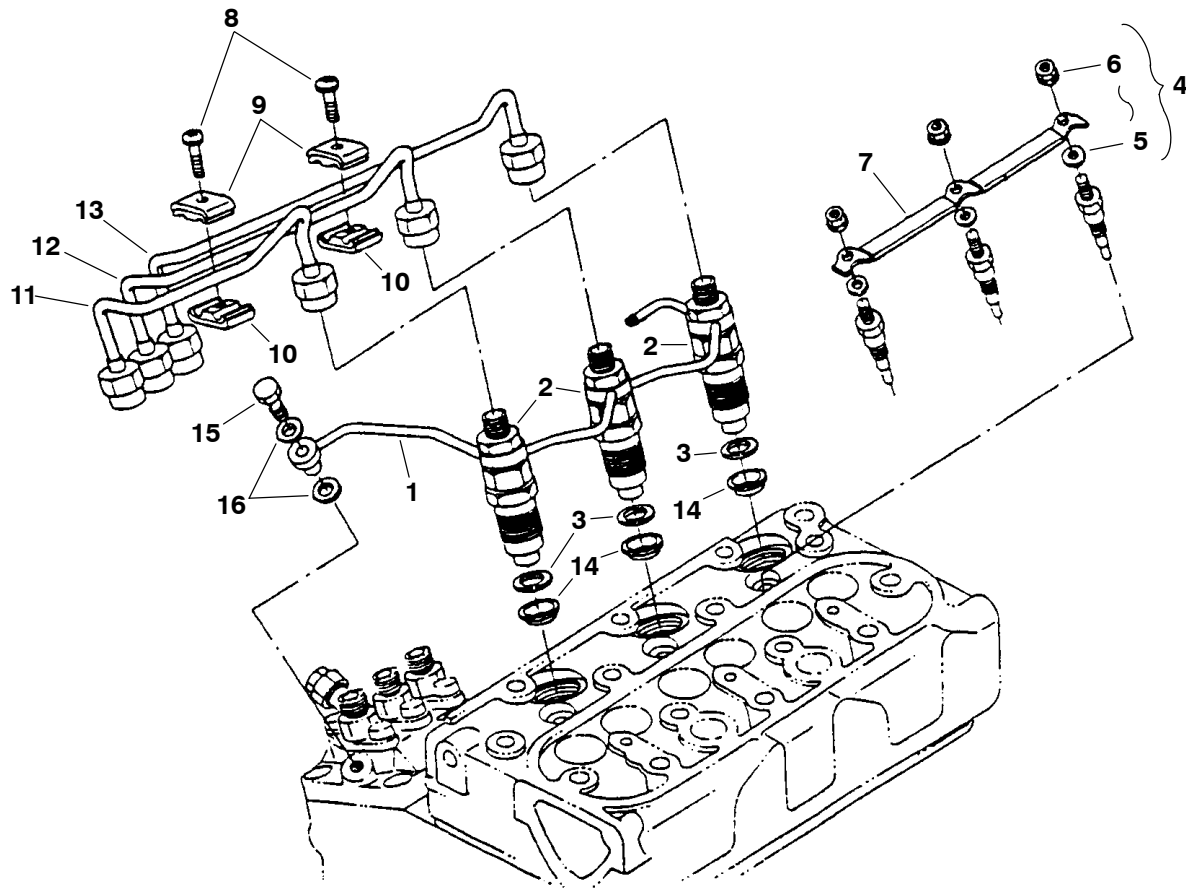
Cylinder Head



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Head Assy, Cylinder (Includes Parts Marked *)	6	185-2412	1	*Plug, Pipe
	185-5805	1	Spec A	7	185-5502	1	Plug, Pipe
	181-9247	1	Begin Spec H HDKAJ, HDKAK	8	185-5503	14	Bolt, Cylinder Head
	181-9247	1	Begin Spec E HDKAV, HDKAT and HDKAU	9	185-2414	1	Eye, Lifting
				10	185-6762	1	Screw, Hex Head Cap
2	185-2413	2	*Cap, Sealing	11	185-6120	1	Gasket, Cylinder Head
3	185-2411	1	*Cap, Sealing	12	185-2095	1	O'Ring
4	185-5501	3	*Guide, Exhaust Valve				
5	185-5500	3	*Guide, Intake Valve				

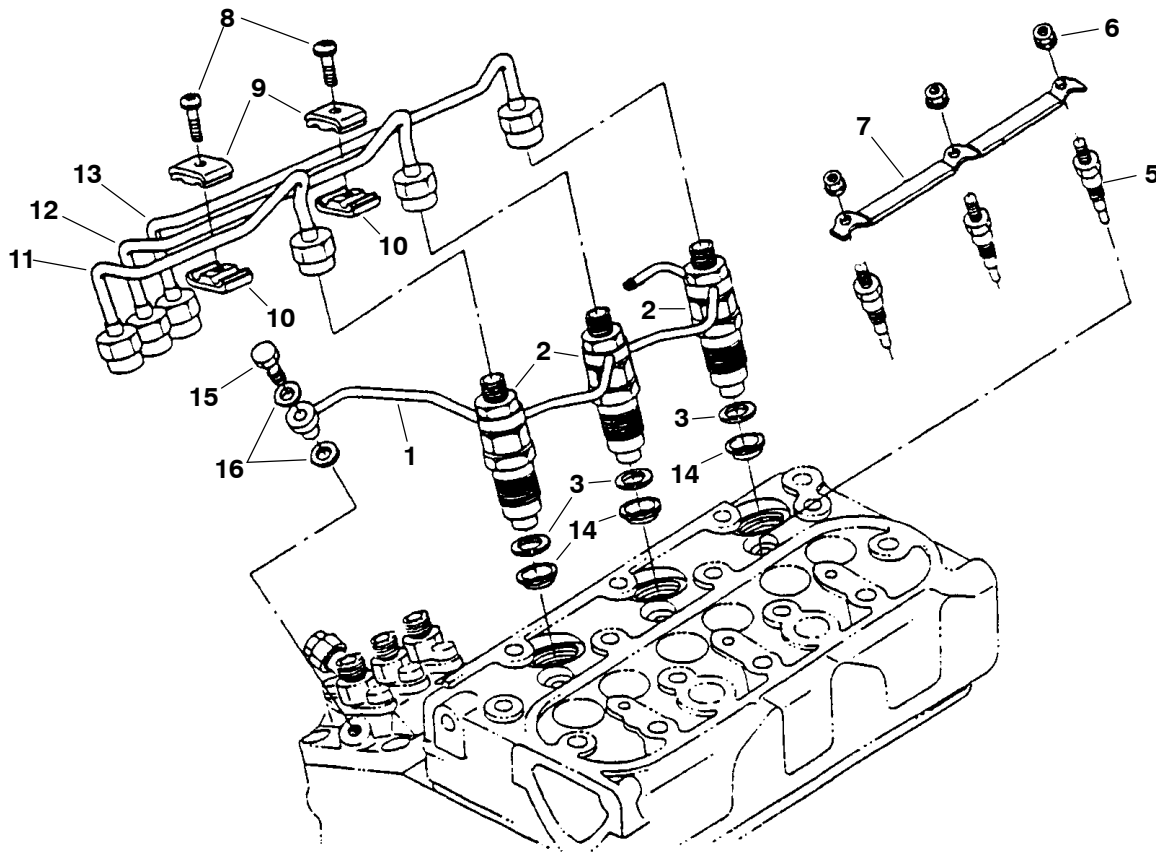
* - Parts Included in Cylinder Head Assy.

Injection Nozzle (Spec A)



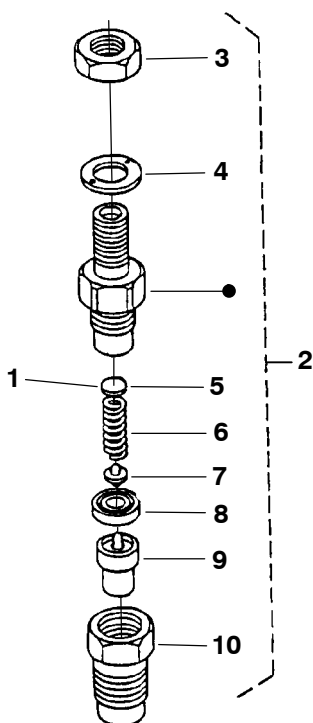
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6948	1	Pipe, Overflow	9	185-2345	2	Clamp, Top Pipe
2	185-6738	3	Holder, Nozzle	10	185-5612	2	Clamp, Bottom Pipe
3	185-5337	3	Gasket	11	185-7389	1	Pipe, Injection
4	185-5421	3	Plug, Glow (HR5) (Includes Washer and Nut)	12	185-7390	1	Pipe, Injection
5	185-7004	3	Washer, Plain	13	185-7397	1	Pipe, Injection
6	185-5615	3	Nut, Flange	14	185-5985	3	Seal, Heat
7	185-5823	1	Cord, Glow Plug	15	185-7082	1	Screw, Air Bleeder
8	185-2385	2	Screw, Pan Head Machine W/Lock Washer	16	185-5337	2	Packing, O'Ring

Injection Nozzle (HDKAH, HDKAJ and HDKAK Begin Spec H and HDKAV, HDKAT and HDKAU Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9202	1	Pipe, Overflow	8	185-5613	2	Clamp, Top Pipe
2	185-6738	3	Holder, Nozzle	9	185-5612	2	Clamp, Bottom Pipe
3	185-5337	3	Gasket	10	501-0927	1	Pipe, Injection
4	185-5421	3	Plug, Glow (HR5) (Includes Washer and Nut)	11	181-9168	1	Pipe, Injection
5	185-5615	3	Nut, Flange	12	181-9177	1	Pipe, Injection
6	185-5823	1	Cord, Glow Plug	13	185-5985	3	Seal, Heat
7	185-2385	2	Screw, Pan Head Machine W/Lock Washer	14	185-7082	1	Screw, Air Bleeder
				15	185-2284	2	O'Ring
				16	337-3782	3	Plug, Glow

Injection Nozzle Components

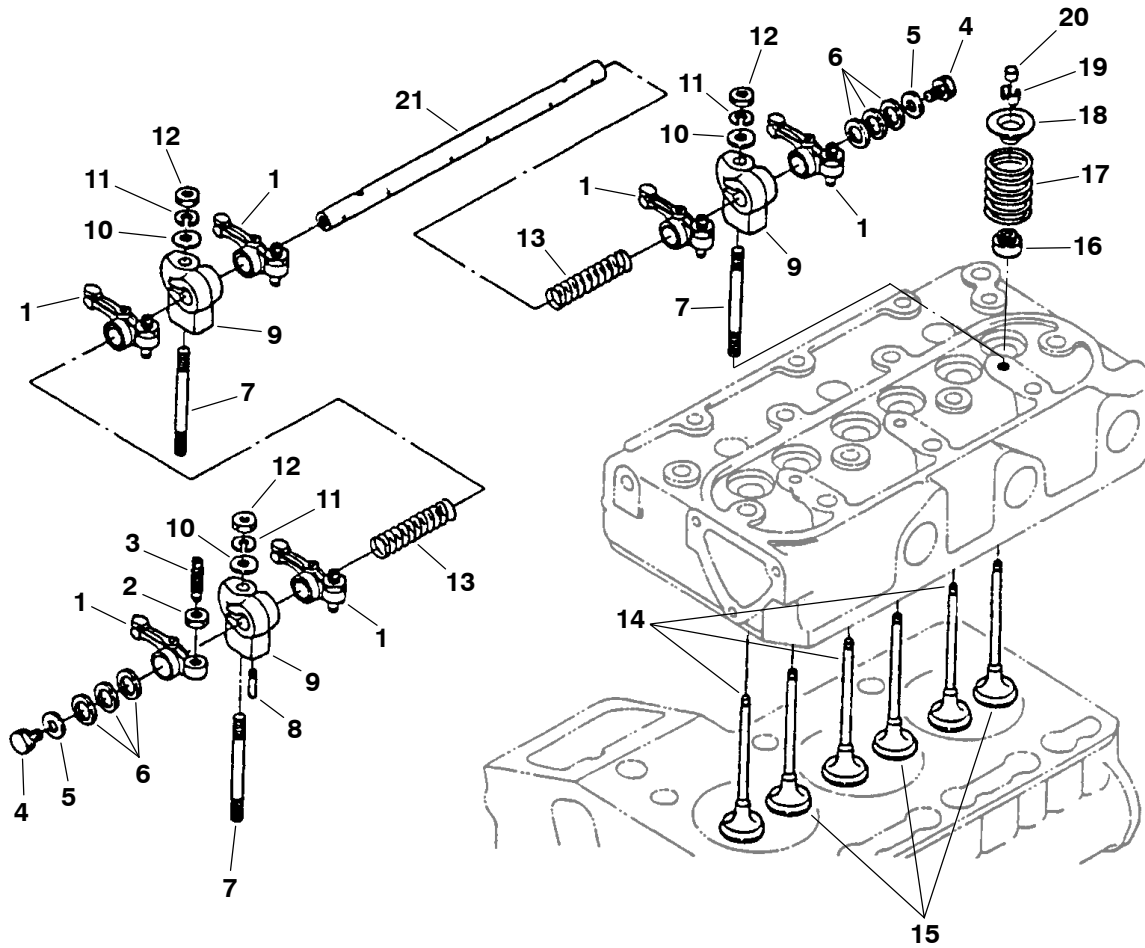


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5363	3	Washer Assy – Includes the Following Adjusting Washers:	185-5391	3	1.575 mm	
	185-5364	3	0.900 mm	185-5392	3	1.600 mm	
	185-5365	3	0.925 mm	185-5393	3	1.625 mm	
	185-5366	3	0.950 mm	185-5394	3	1.650 mm	
	185-5367	3	0.975 mm	185-5395	3	1.675 mm	
	185-5368	3	1.000 mm	185-5396	3	1.700 mm	
	185-5369	3	1.025 mm	185-5397	3	1.725 mm	
	185-5370	3	1.050 mm	185-5398	3	1.750 mm	
	185-5371	3	1.075 mm	185-5399	3	1.775 mm	
	185-5372	3	1.100 mm	185-5400	3	1.800 mm	
	185-5373	3	1.125 mm	185-5401	3	1.825 mm	
	185-5374	3	1.150 mm	185-5402	3	1.850 mm	
	185-5375	3	1.175 mm	185-5403	3	1.875 mm	
	185-5376	3	1.200 mm	185-5404	3	1.900 mm	
	185-5377	3	1.225 mm	185-5405	3	1.925 mm	
	185-5378	3	1.250 mm	185-5406	3	1.950 mm	
	185-5379	3	1.275 mm	2	185-6738	3	Holder Assy, Nozzle (Includes Parts Marked *)
	185-5380	3	1.300 mm	3	185-5616	3	*Nut, Hex
	185-5381	3	1.325 mm	4	185-5621	3	*Washer
	185-5382	3	1.350 mm	5	185-5364	3	*Washer, Adjusting
	185-5383	3	1.375 mm	6	185-5617	3	*Spring
	185-5384	3	1.400 mm	7	185-5619	3	*Rod, Push
	185-5385	3	1.425 mm	8	185-5618	3	*Spacer
	185-5386	3	1.450 mm	9	185-5622	3	*Nozzle
	185-5387	3	1.475 mm	10	185-6825	3	*Nut, Nozzle
	185-5388	3	1.500 mm				
	185-5389	3	1.525 mm				
	185-5390	3	1.550 mm				

* – Parts Included in Nozzle Holder Assy.

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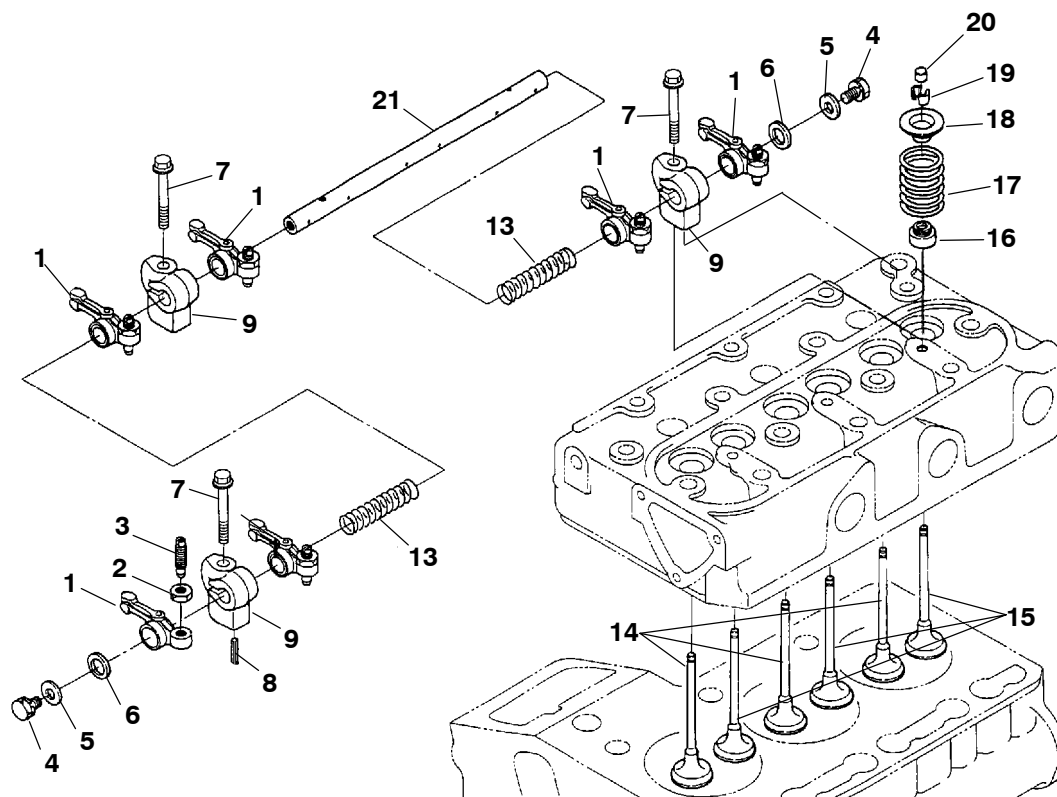
Rocker Arm (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5551	6	Arm, Rocker (Includes Nut and Screw)
2	185-5553	6	Nut
3	185-5552	6	Screw, Adjusting
4	185-2386	2	Screw, Hex Head Cap (M6 x 12mm)
5	185-5545	2	Washer, Flat
6	185-7086	6	Washer, Flat
7	185-5547	3	Stud
8	185-2351	1	Pin, Spring
9	185-5546	3	Bracket, Rocker Arm
10	526-2080	3	Washer, Flat (M6)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	185-6759	3	Washer, Spring Lock
12	185-4255	3	Nut, Flange
13	185-5550	2	Spring, Rocker Arm
14	185-5537	3	Valve, Intake
15	185-5538	3	Valve, Exhaust
16	185-5348	6	Seal, Valve Stem
17	185-5539	6	Spring, Valve
18	185-5540	6	Retainer, Valve Spring
19	185-5541	6	Collet, Valve Spring
20	185-5542	6	Cap, Valve
21	185-7085	1	Shaft, Rocker Arm

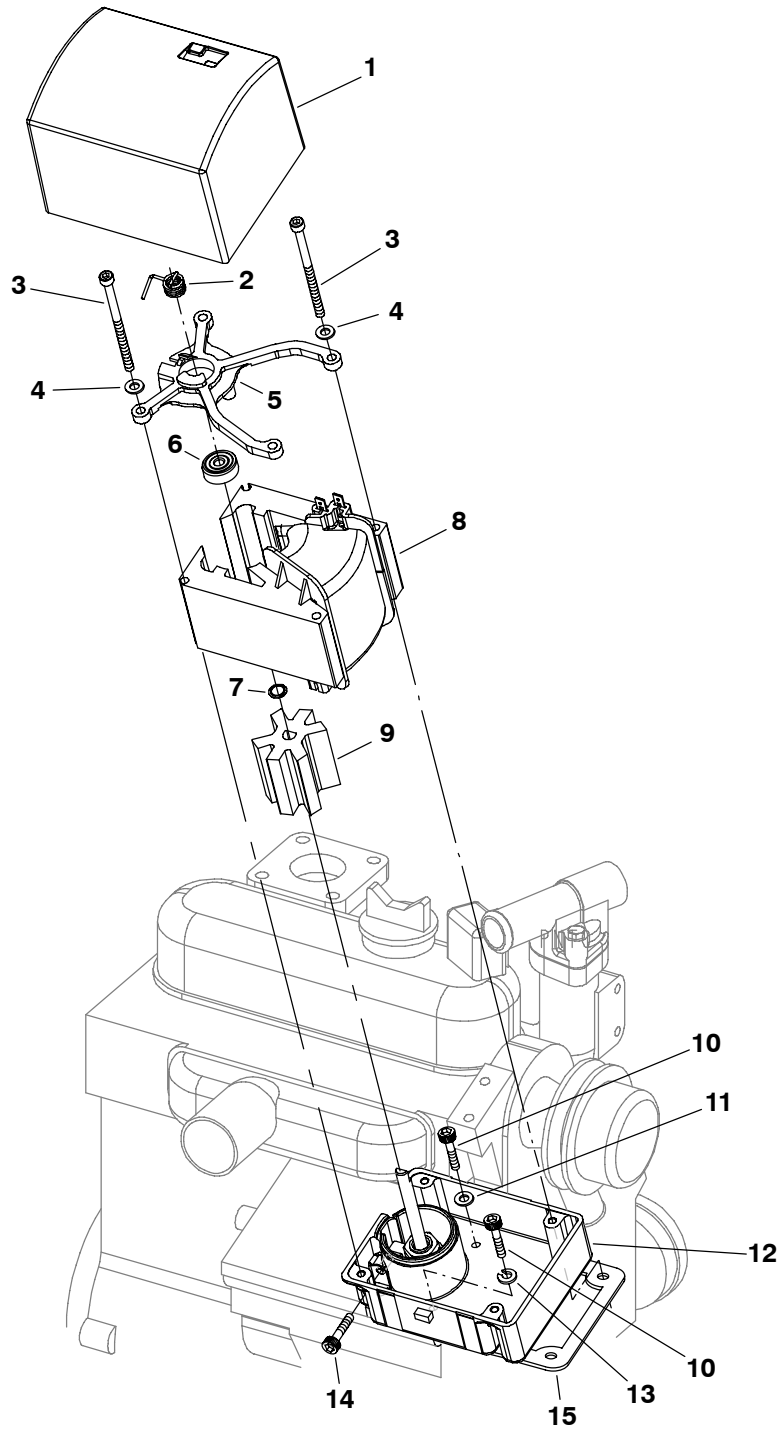
Rocker Arm (HDKAH, HDKAJ and HDKAK Begin Spec H and HDKAV, HDKAT and HDKAU Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5551	6	Arm, Rocker (Includes Nut and Screw)
2	185-5553	6	Nut
3	185-5552	6	Screw, Adjusting
4	185-2386	2	Screw, Hex Head Cap (M6 x 12mm)
5	185-7395	2	Washer, Flat
6	185-7086	6	Washer, Flat
7	800-6372	3	Bolt, Flange
8	185-2351	1	Pin, Spring

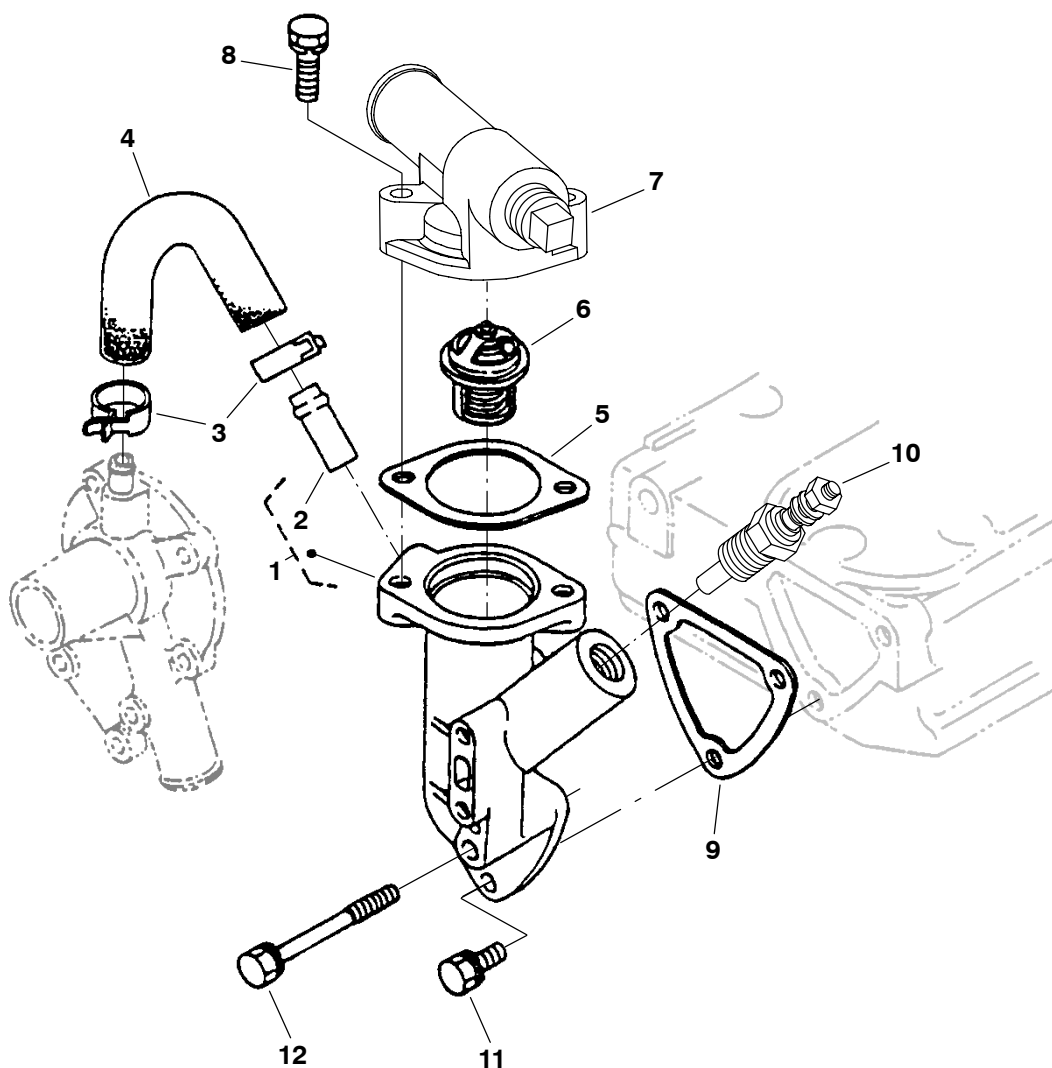
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	181-9251	3	Bracket, Rocker Arm
10	185-5550	2	Spring, Rocker Arm
11	185-5537	3	Valve, Intake
12	185-5538	3	Valve, Exhaust
13	185-5348	6	Seal, Valve Stem
14	185-5539	6	Spring, Valve
15	185-5540	6	Retainer, Valve Spring
16	185-5541	6	Collet, Valve Spring
17	185-5793	6	Cap, Valve
18	185-7085	1	Shaft, Rocker Arm

Governor



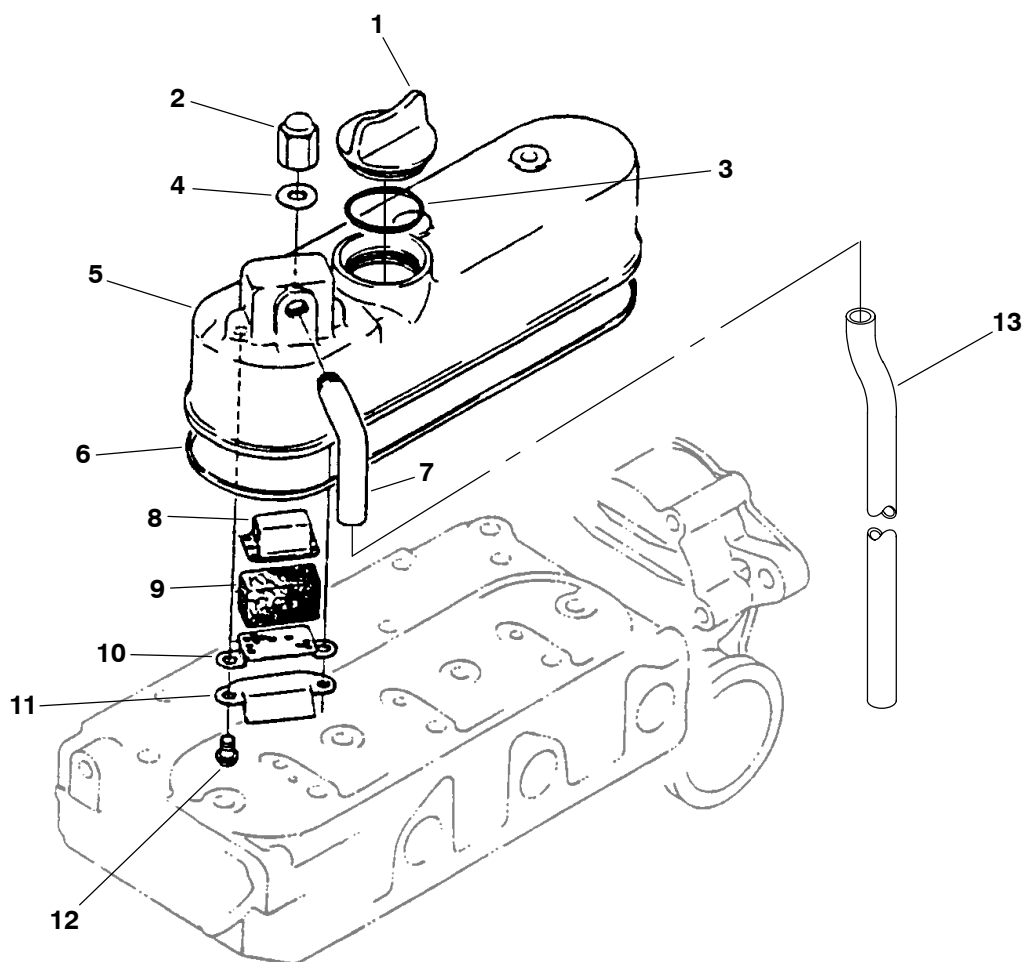
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2641	1	Cover, Governor	9	150-2639	1	Rotor, Governor
2	150-2724	1	Spring, Governor	10	725-1027	4	Screw, Socket Head Cap (M6-16)
3	815-0877	4	Screw, Socket Head Cap (M5 x .8 x 80mm)	11	185-2284	2	Gasket
4	740-1002	4	Washer, Flat (M5)	12	185-7267	1	Base, Governor
5	150-2643-S0	1	Carrier Assy (Includes Bearing)	13	850-2006	2	Washer, Lock (M6)
6	510-0184	1	Bearing, Ball	14	802-2506	3	Screw, Socket Set (M5 x .8 x 16mm)
7	518-0672	1	O'Ring, Governor Rotor	15	185-7080	1	Gasket, Governor Base
8	150-2630	1	Coil, Governor				

Water Outlet



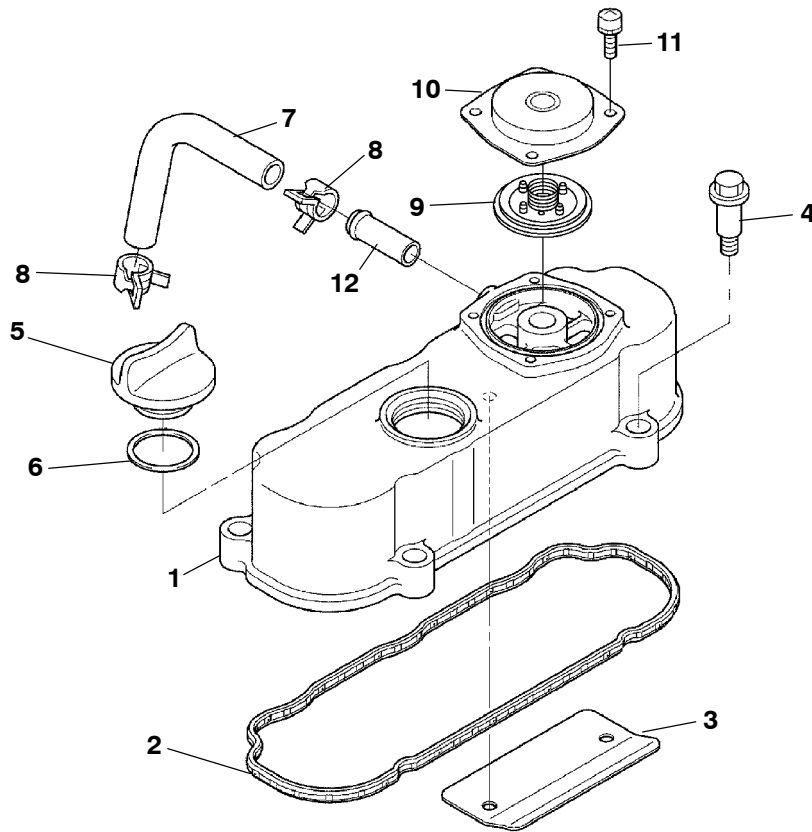
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9185	1	Flange, Water Pump (Includes Water Return Pipe)	7	181-9196	1	Cover, Thermostat
2	185-5719	1	Pipe, Water Return	8	185-6669	2	Bolt
3	185-5723	2	Band, Pipe	9	130-6904	1	Gasket, Water Flange
4	185-5722	1	Pipe, Water Return	10	193-0318	1	Sender, Water Temperature
5	185-2238	1	Gasket, Thermostat	11	185-2388	2	Bolt (M6 x 16mm)
6	185-5458	1	Thermostat	12	185-7069	1	Bolt

Valve Cover (Spec A)



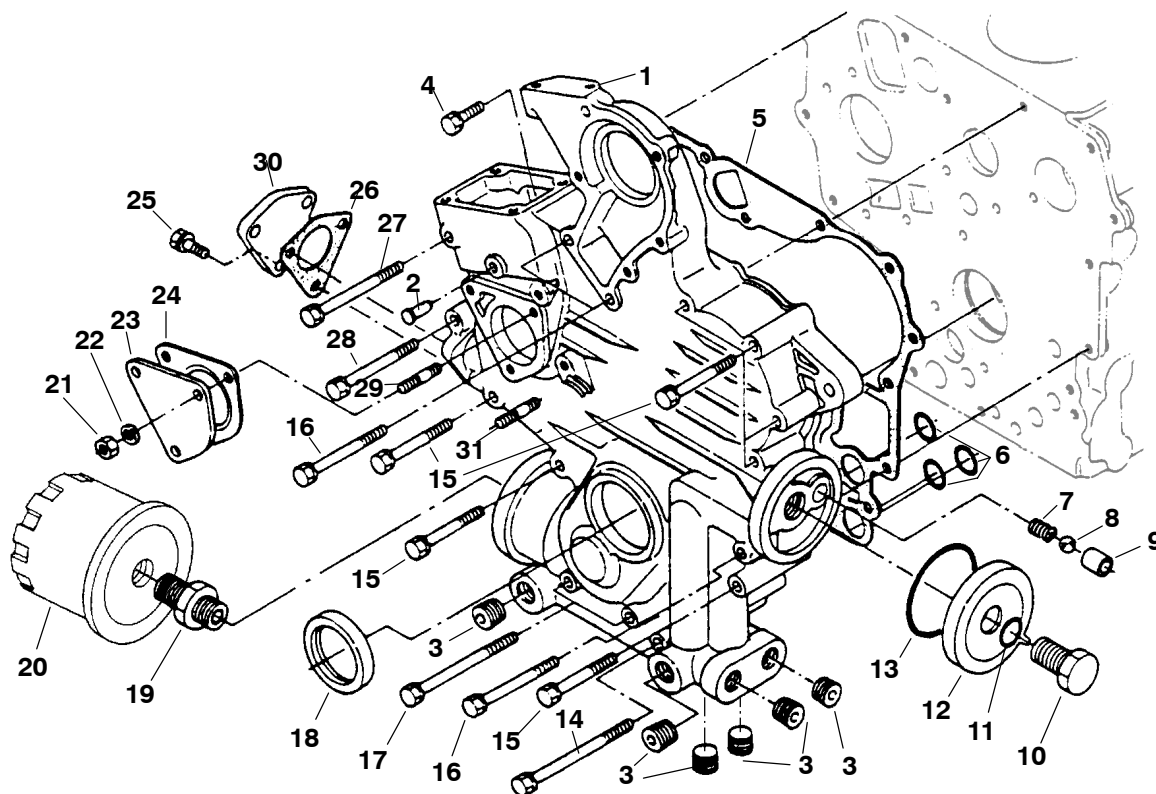
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5407	1	Cap, Oil Fill	8	185-5522	1	Cover, Breather Element
2	185-5529	3	Nut, Cap	9	185-5523	1	Element, Breather
3	185-2349	1	Seal, Oil Fill Cap	10	185-5521	1	Plate, Breather Element
4	185-2284	3	O'Ring	11	185-5524	1	Shield, Breather Oil
5	185-7071	1	Cover, Valve	12	185-5747	2	Screw, Pan Head Lock Washer
6	185-5807	1	Gasket, Valve Cover	13	185-5525	1	Hose, Breather
7	185-5520	1	Elbow, Breather				

**Valve Cover (HDKAH, HDKAJ and HDKAK Begin Spec H HDKAV, HDKAT and HDKAU
Begin Spec E)**



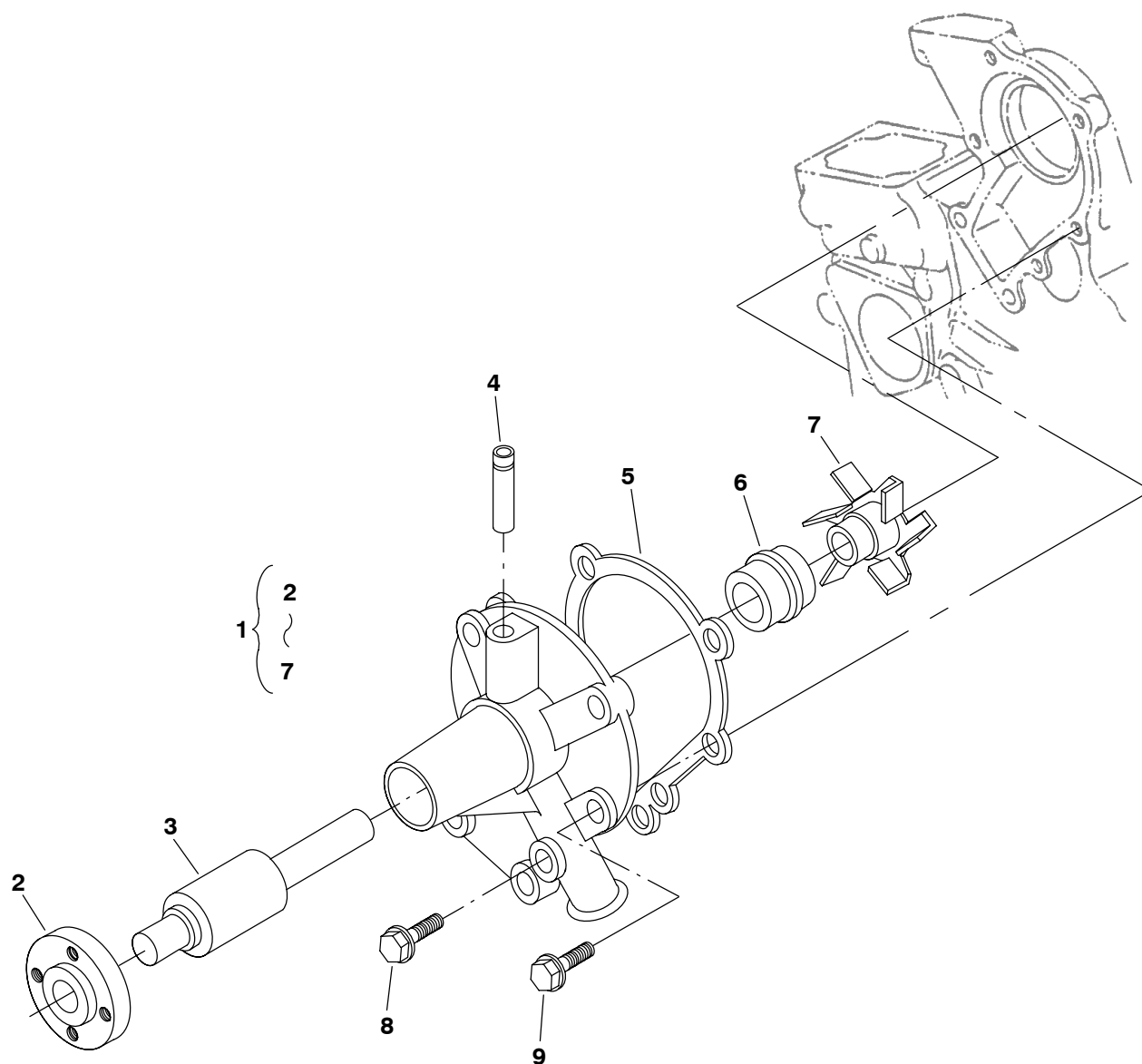
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9252	1	Assy, Cover Cylinder Head	7	181-9249	1	Tube, Breather
2	181-9253	1	Gasket, Head Cover	8	185-5162	2	Clamp, Hose
3	123-2303	1	Shield, Breather Oil	9	123-2301	1	Comp. Valve, Breather
4	800-6330	4	Bolt	10	123-2268	1	Cover, Breather
5	123-2299	1	Plug, Oil Filler	11	185-2384	4	Screw, Flanger
6	185-7426	1	O'Ring	12	185-5719	1	Pipe, Water Return

Gearcase



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5800	1	Gearcase Assy (Includes Pin and Plugs)	16	185-5507	3	Screw, Hex Head Cap (M6 x 1 x 62mm)
2	185-5506	1	Pin, Start Spring	17	185-5745	2	Bolt
3	185-5505	8	Plug, Pipe	18	185-5410	1	Seal, Front Oil
4	185-2389	1	Screw, Hex Head Cap (M6 x 18mm)	19	185-2124	1	Nipple, Hex Pipe
5			Gasket, Gearcase	20	122-0833	1	Filter, Oil (was 185-5801)
	185-7382	1	Spec A	21	185-4255	3	Nut, Hex
	185-5782	1	Begin Spec H HDKAH, HDKAJ and HDKAK	22	185-6759	3	Washer, Spring Lock
	185-5782	1	Begin Spec E HDKAV, HDKAT and HDKAU	23	185-5512	1	Cover
6	185-2374	3	O'Ring	24	185-5513	1	Gasket
7	185-5509	1	Spring	25	185-2389	3	Bolt (M6 x 18mm)
8			Ball	26			Gasket, Flange
	185-6711	1	Spec A		185-2309	1	Spec A
	185-5511	1	Begin Spec H HDKAH, HDKAJ and HDKAK		181-9211	1	Begin Spec H HDKAH, HDKAJ and HDKAK
	185-5511	1	Begin Spec E HDKAV, HDKAT and HDKAU		181-9211	1	Begin Spec E HDKAV, HDKAT and HDKAU
9	185-5510	1	Seat, Valve	27	185-7070	1	Screw, Hex Head Cap (M6 x 70mm)
10	185-5742	1	Bolt	28	185-2395	1	Bolt (M6 x 60mm)
11	185-5744	1	O'Ring	29	185-2105	3	Stud
12	185-5741	1	Cover	30			Cover
13	185-5743	1	O'Ring		185-6257	1	Spec A
14	185-5746	1	Screw, Hex Head Cap (M6 x 1 x 87mm)		181-9213	1	Begin Spec H HDKAH, HDKAJ and HDKAK
15	185-7069	7	Screw, Hex Head Cap (M6 x 50mm)		181-9213	1	Begin Spec E HDKAV, HDKAT and HDKAU
				31	185-5727	1	Stud

Water Pump Components

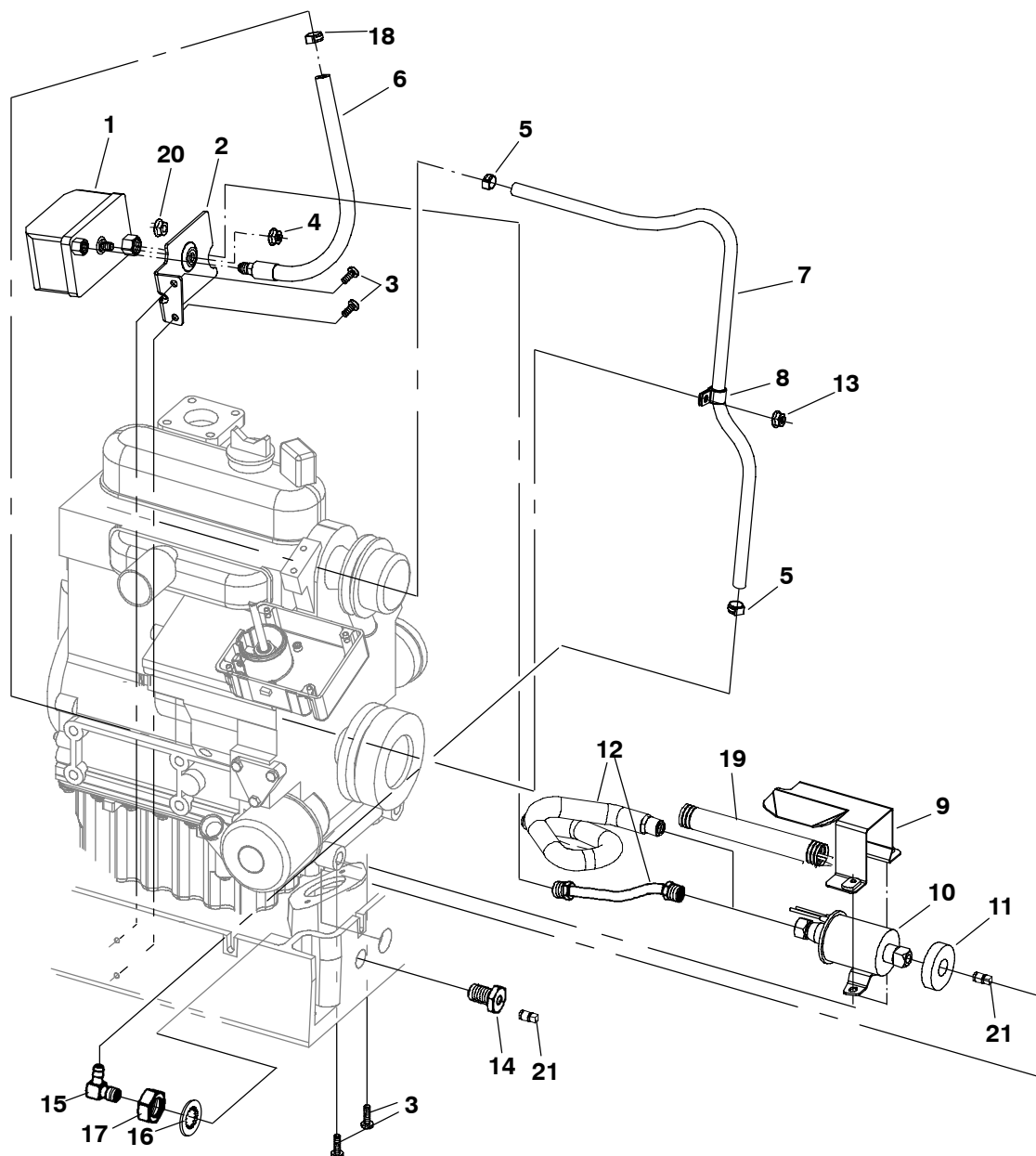


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5433	1	Pump, Water (Includes Parts Marked *)
2	185-5712	1	*Flange, Water Pump
3	185-5713	1	*Bearing, Ball
4	185-5716	1	*Pipe, Return
5	185-5434	1	Gasket, Water Pump
6	185-5714	1	*Seal

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	185-5715	1	*Impeller
8	185-5717	1	Bolt
9	185-2559	4	Bolt

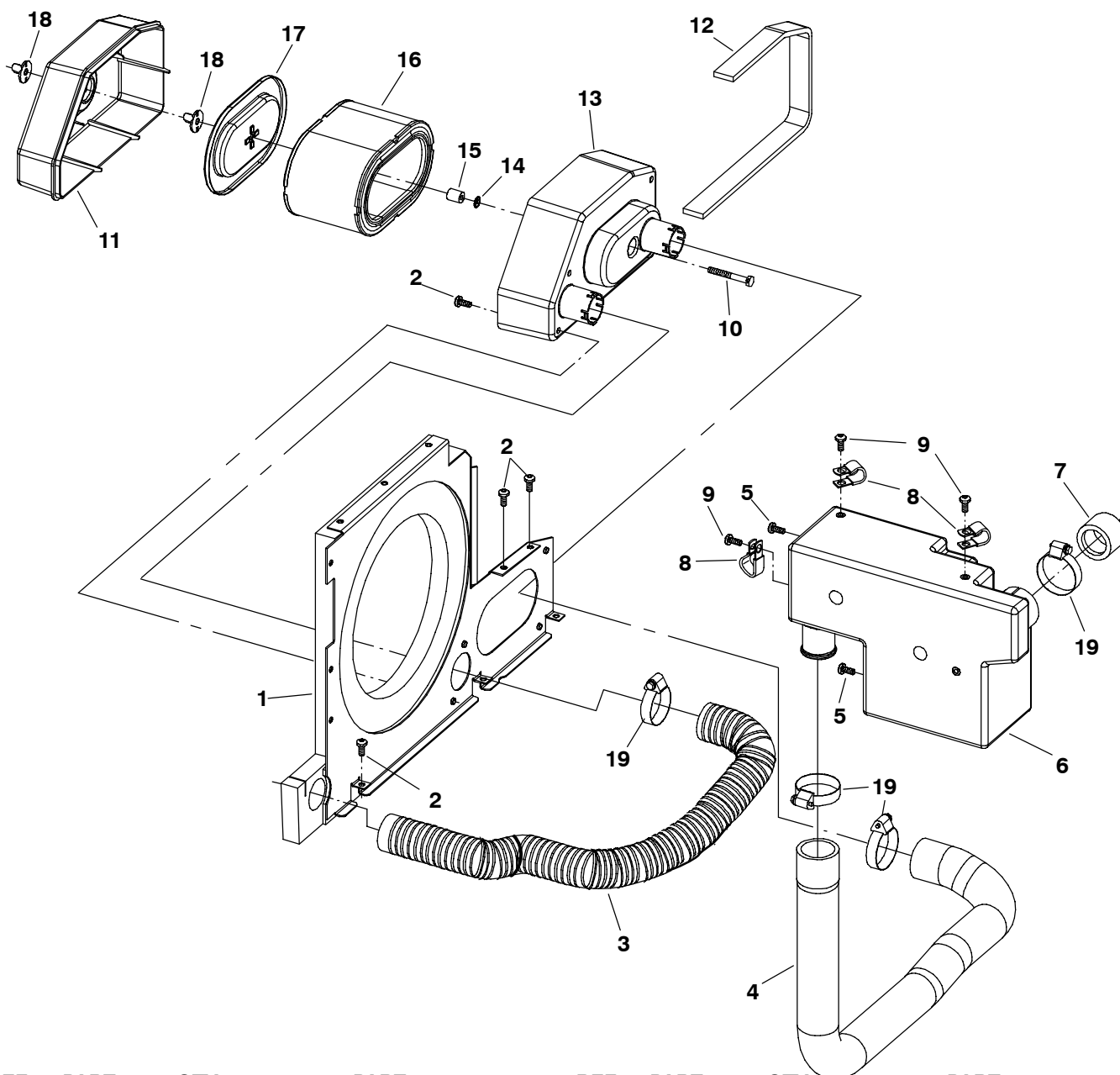
* - Parts Included in Water Pump.

Fuel System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2513	1	Filter, Fuel	14	502-1296-02	1	Fitting, Bulkhead
2	149-2585-02	1	Bracket, Fuel Filter	15	502-0313	1	Elbow, 90°
3	815-0753	4	Screw, Hex Head Cap (M6 x 14mm)	16	854-0028	1	Washer, IT Lock (5/8")
4	870-0257	1	Nut, Self Lock (1/4-20)obsolete	17	868-0007	1	Nut, Hex Jam (5/8-18)
5	503-1951-09	2	Clamp, Hose	18	503-1951-12	1	Clamp, Hose
6	149-2580	1	Line, Fuel Injection Pump	19	898-1196-33	1	Sleeve, Fuel Line (Begin Spec K)
7	503-2052	1	Line, Fuel Return	20	870-0257	1	Nut, Self locking Flange (1/4-20 UNC)(Begin Spec K)
8	332-1554	1	Clamp, Loop	21	517-0273	2	Plug, Pipe(Begin Spec K)
9	403-3863-02	1	Trough, Oil Drain				
10	149-2790	1	Pump, Fuel				
11	403-3860	1	Seal, Fuel Pump				
12	149-2584	1	Line, Fuel Filter Spec A				
	501-0932	1	Begin Spec K				
13	870-2054	1	Nut, Lock Flange (M6 x 1)				

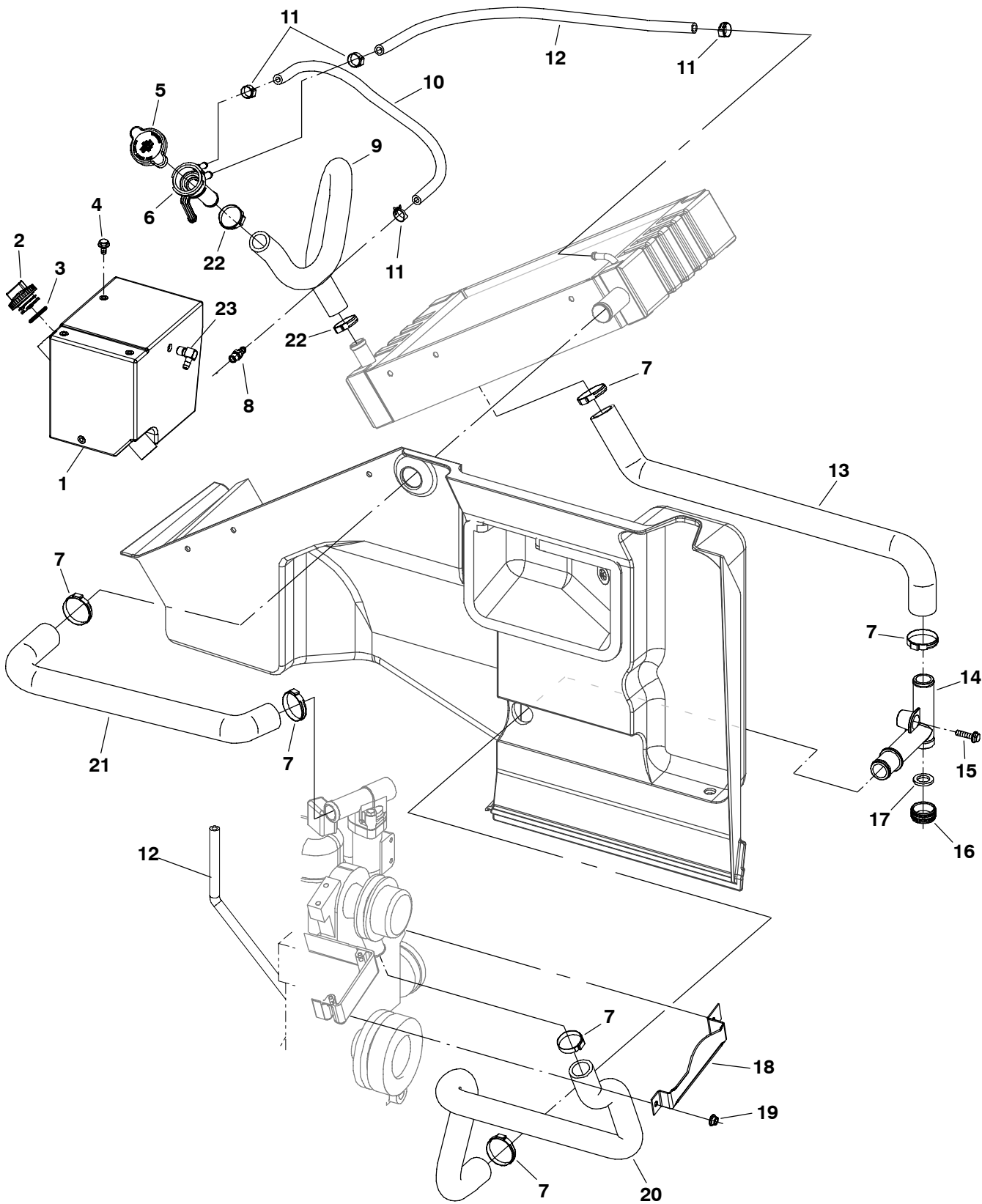
Air Intake



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	140-3233	1	Kit, Air Cleaner (Includes Parts Marked*)
1	134-5063	1	Baffle Assy, Inlet (Includes Insulation)
2	823-0003-02	7	Screw, Pan Head (M6 x 1 x 14mm)
3	503-1979	1	Hose, Intake (Dirty 43.2OD)
4	503-1985	1	Hose, Intake (Clean)
5	823-1002-04	2	Screw, Pan Head Machine (M6 x 1 x 14mm)
6	134-5126	1	Resonator, Intake
7	140-2898	1	Sleeve, Air Intake
8	332-1356	3	Clamp, Loop (3/4")
9	823-1002-03	3	Screw, Pan Head Machine (M6 x 1 x 10mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	800-0603-01	1	Screw, Hex Head Machine (1/4-20 x 2)
11	140-3232	1	*Cover, Air Cleaner
12	140-2956	1	*Seal, Housing
13	140-3231	1	*Housing, Air Cleaner
14	870-0540-03	1	Nut, Push-On
15	140-2536-05	1	Seal, Air Cleaner Spacer
16	140-2897	1	Element, Air Cleaner
17	140-2961-02	1	Cover, Air Cleaner Element
18	865-0029	2	Nut, Wing (1/4-20)
19	503-0429	4	Clamp, Hose

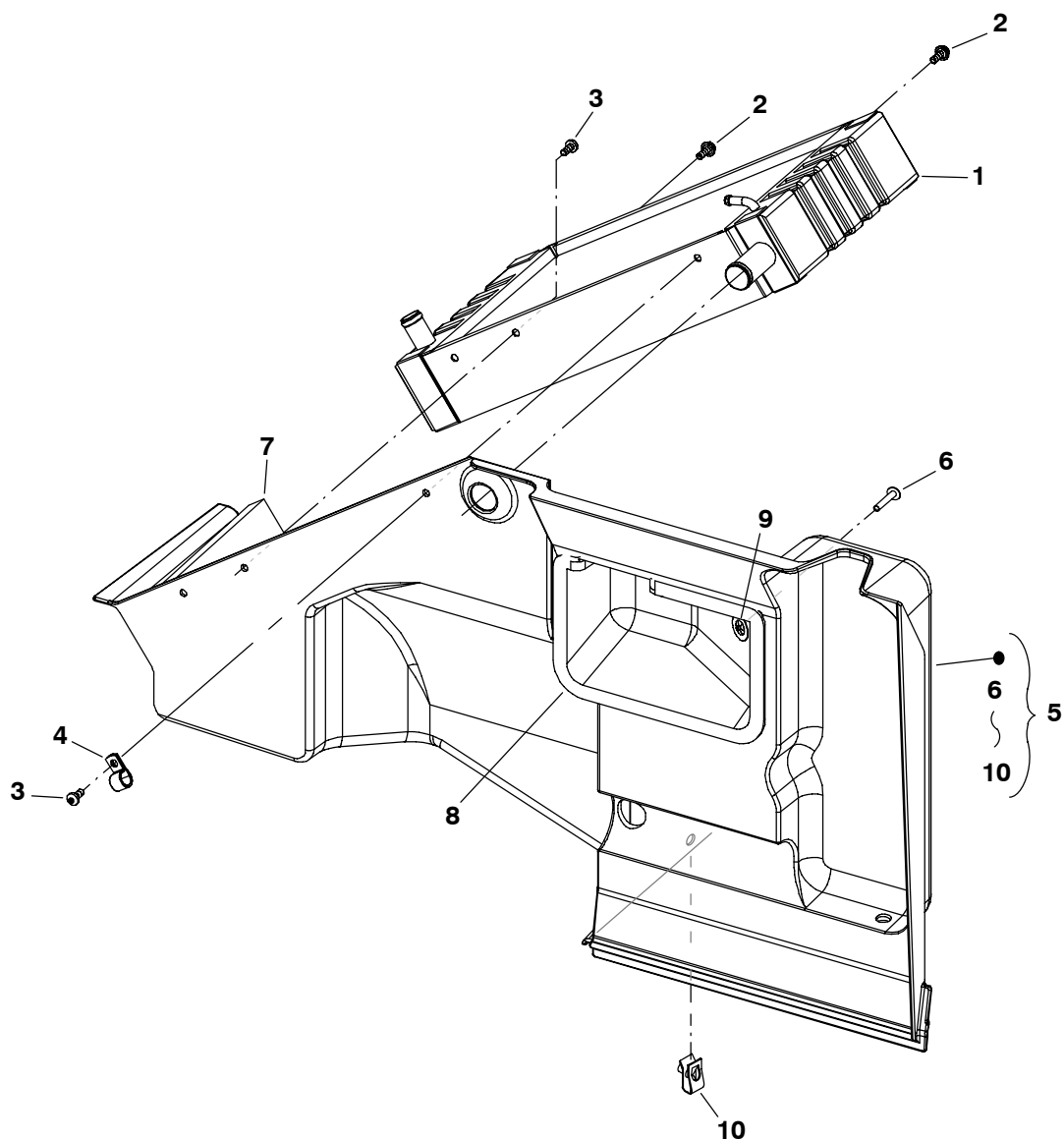
Cooling System



Cooling System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4322	1	Tank, Coolant Recovery	13	503-1954	1	Hose, Lower Radiator
2	130-4450-02	1	Cap, Coolant Recovery Tank	14	130-4391	1	Fitting, "T" Hose
3	509-0329	1	O'Ring	15	821-2035	1	Screw, Lock Flange (M6 x 1 x 25mm)
4	821-2096-02	3	Screw, Lock Flange (M6 x 1 x 12mm)	16	130-4392	1	Cap, Drain
5	130-4320	1	Cap, Coolant Fill	17	130-4462	1	Seal, Coolant Hose
6	130-4321	1	Neck, Fill	18	503-1970-02	1	Clamp, Hose Bracket
7	503-1137	5	Clamp, Hose	19	870-2054	1	Nut, Lock Flange (M6 x 1)
8	502-1367-01	1	Connector, Hose	20	503-1921	1	Hose, Lower Engine
9	503-1922	1	Hose, Fill Neck	21	503-1920	1	Hose, Upper Radiator
10	503-1923	1	Hose, Overflow	22	503-1951-35	2	Clamp, Hose
11	503-1951-12	4	Clamp, Hose	23	502-1529	1	Connector, Hose (90° Nylon 1/8 x 1/4" Hose)
12	503-1959	2	Hose, Air Bleed				

Radiator Mount



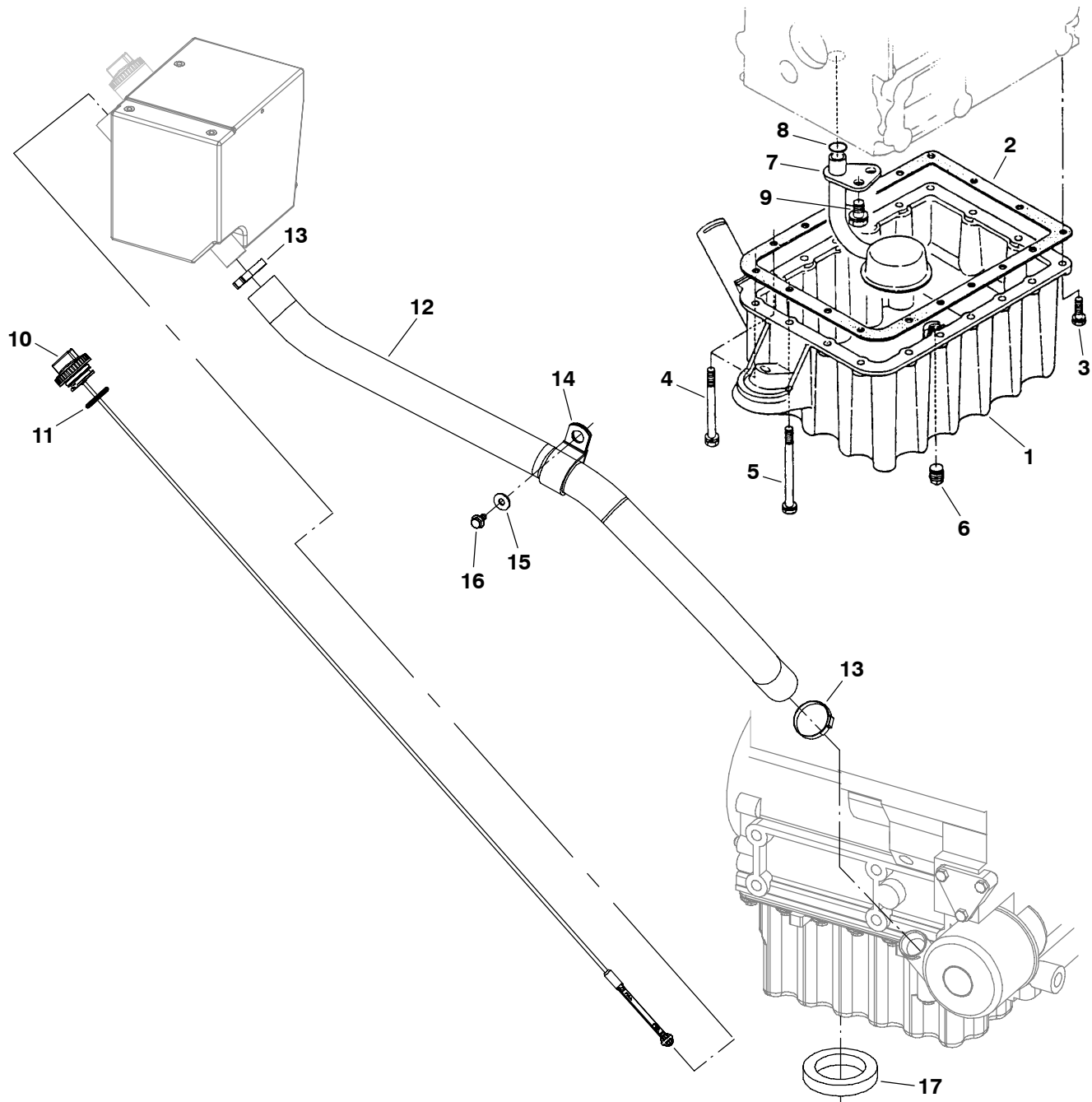
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6936	1	Radiator
2	815-0753	2	Screw, Hex Head (M6 x 14mm Self Tap)
3	821-2096-03	2	Screw, Locking Flange (M6 x 1 x 16mm)
4	332-1553	1	Clamp, Loop (1")
5	405-5086	1	Wall Assy, Back (Includes Parts Marked *)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	818-0226-01	2	*Rivet
7	130-4689	1	*Seal, Radiator Spacer
8	405-5308	1	*Insulation, Exhaust Baffle
9	518-0581	2	*Nut, Push-On
10	870-0542	1	*Nut, Self Retaining

* - Parts Included in Back Wall Assy.

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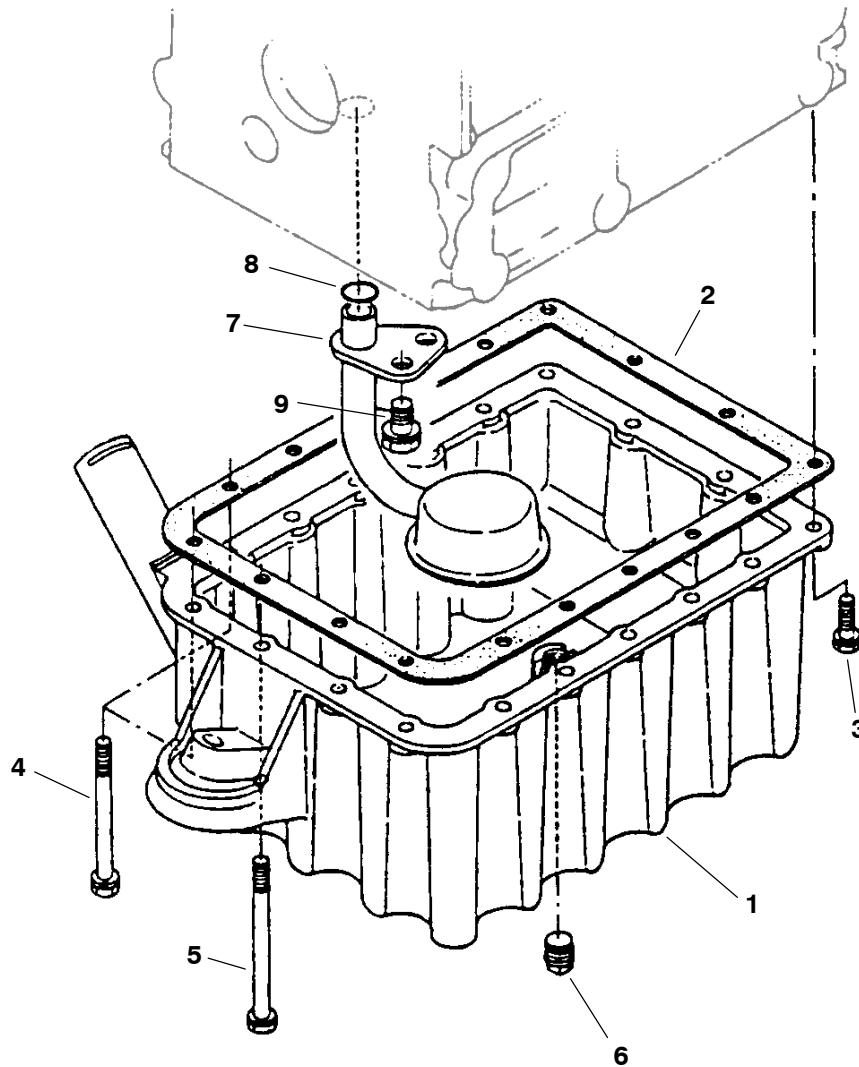
Oil Pan (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6846	1	Pan, Oil
2	185-6818	1	Gasket, Oil Pan
3	185-2389	15	Bolt
4	185-2396	2	Bolt
5	185-2398	1	Bolt
6	502-0153	1	Plug, Oil Drain
7	185-5496	1	Tube, Oil Pickup
8	185-3078	1	O'Ring
9	185-6956	1	Bolt
10	123-2051	1	Indicator, Oil Level (Includes O'Ring)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	509-0329	1	O'Ring
12	123-2120	1	Hose, Oil Fill
13	503-1951-46	2	Clamp, Hose
14	332-2898	1	Clamp, Loop (1.44")
15	526-2083	1	Washer, Flat (M6)
16	821-2032	1	Screw, Lock Flange (M6 x 1 x 12mm)
17	403-3859	1	Seal, Oil Drain

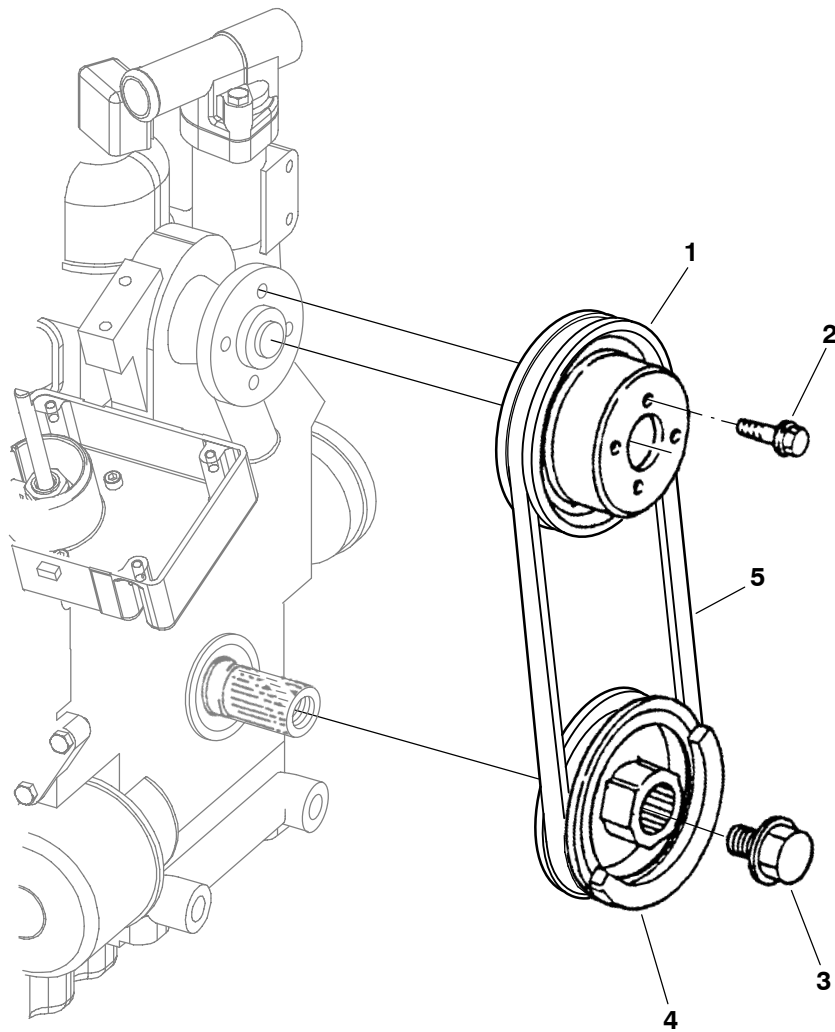
Oil Pan (HDKAJ, HDKAK Begin Spec H and HDKAT Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9200	1	Pan, Oil
2	181-9210	1	Gasket, Oil Pan
3	185-2389	15	Bolt
4	181-9005	2	Bolt
5	185-2398	1	Bolt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	181-9227	1	Plug, Oil Drain
7	185-5496	1	Tube, Oil Pickup
8	185-7421	1	O'Ring
9	185-6956	1	Bolt

Pulley

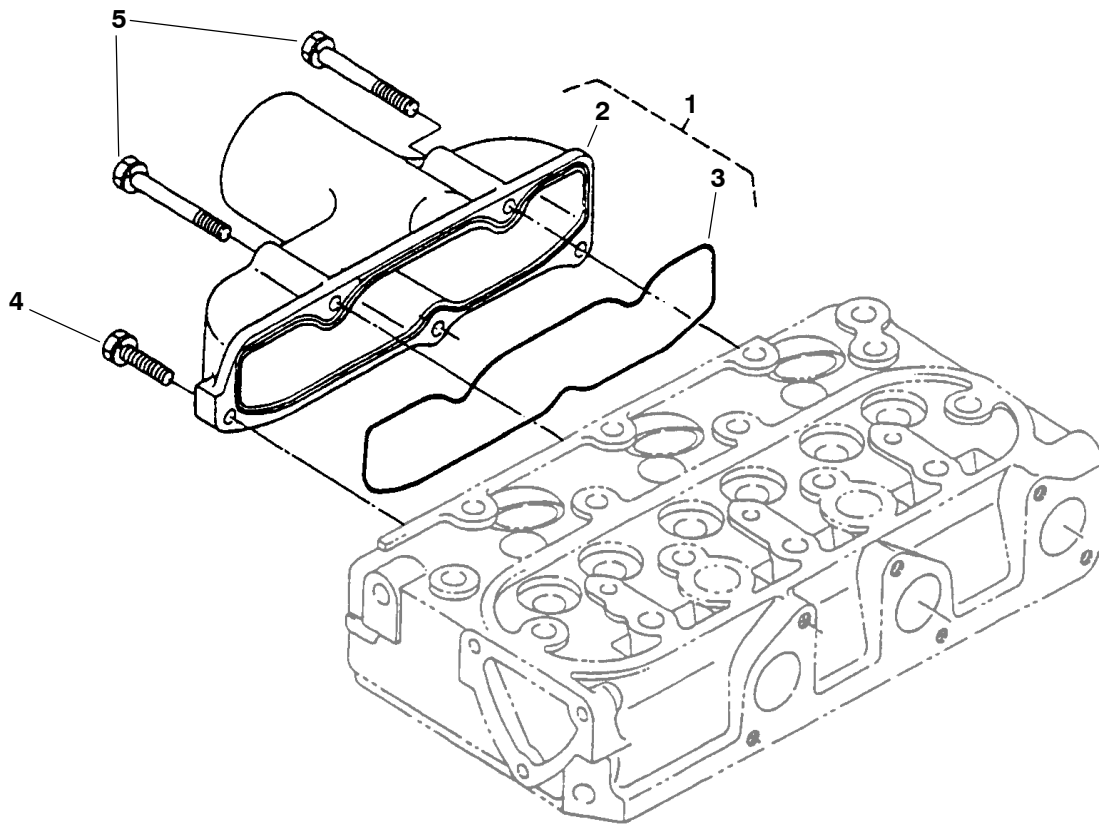


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5707	1	Pulley, Fan
2	185-2572	4	Screw, Hex Head Flange
3	185-5709	1	Screw, Hex Head Cap

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	185-7083	1	Pulley, Drive
5	511-0235	1	Belt, Fan

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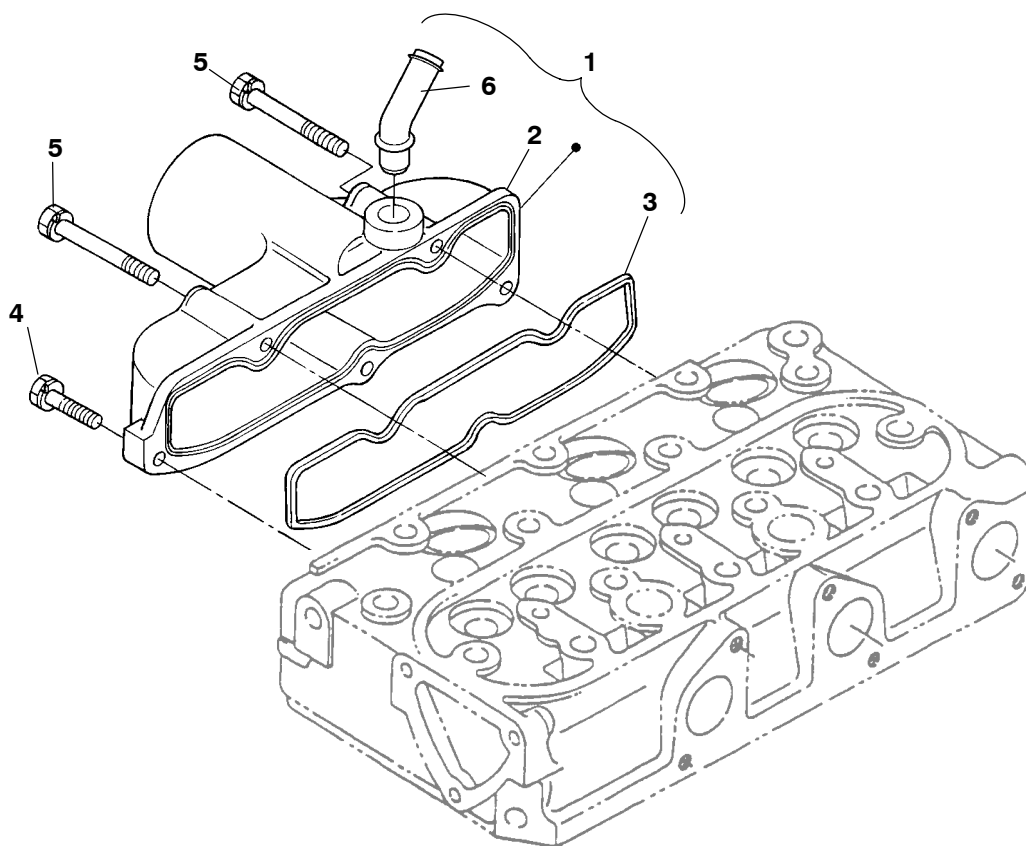
Inlet Manifold (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7087	1	Manifold Assy, Inlet (Includes Manifold and Gasket)
2	185-5831	1	Manifold, Inlet

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	185-5832	1	Gasket, Manifold
4	185-2389	2	Bolt
5	185-5833	3	Bolt

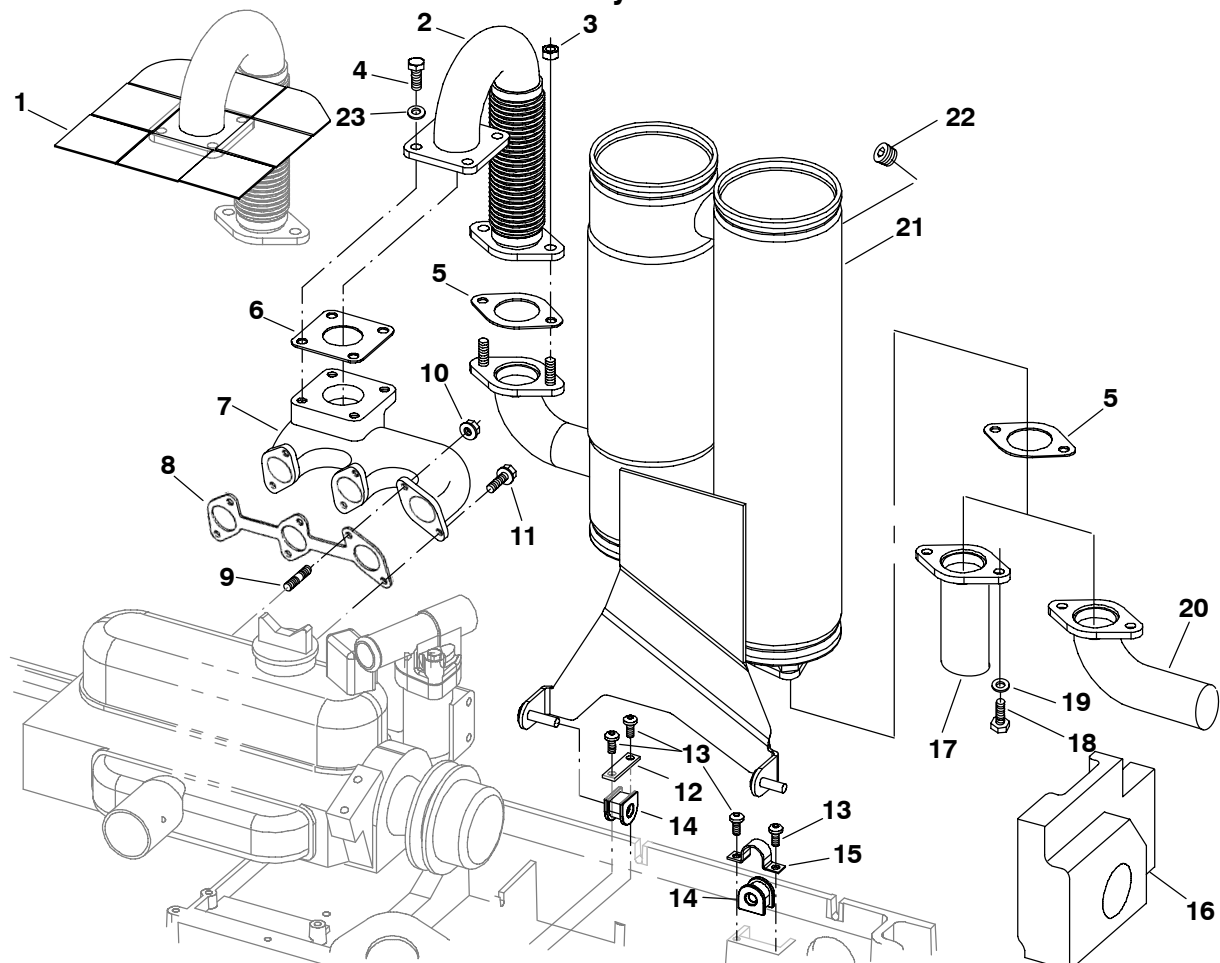
Inlet Manifold (HDKAH, HDKAJ and HDKAK Begin Spec H HDKAV, HDKAT and HDKAU Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7087	1	Manifold Assy, Inlet (Includes Manifold and Gasket)	4	185-2389	2	Bolt
2	185-5831	1	Manifold, Inlet	5	185-5833	3	Bolt
3	185-5832	1	Gasket, Manifold	6	123-2300	1	Pipe, Breather

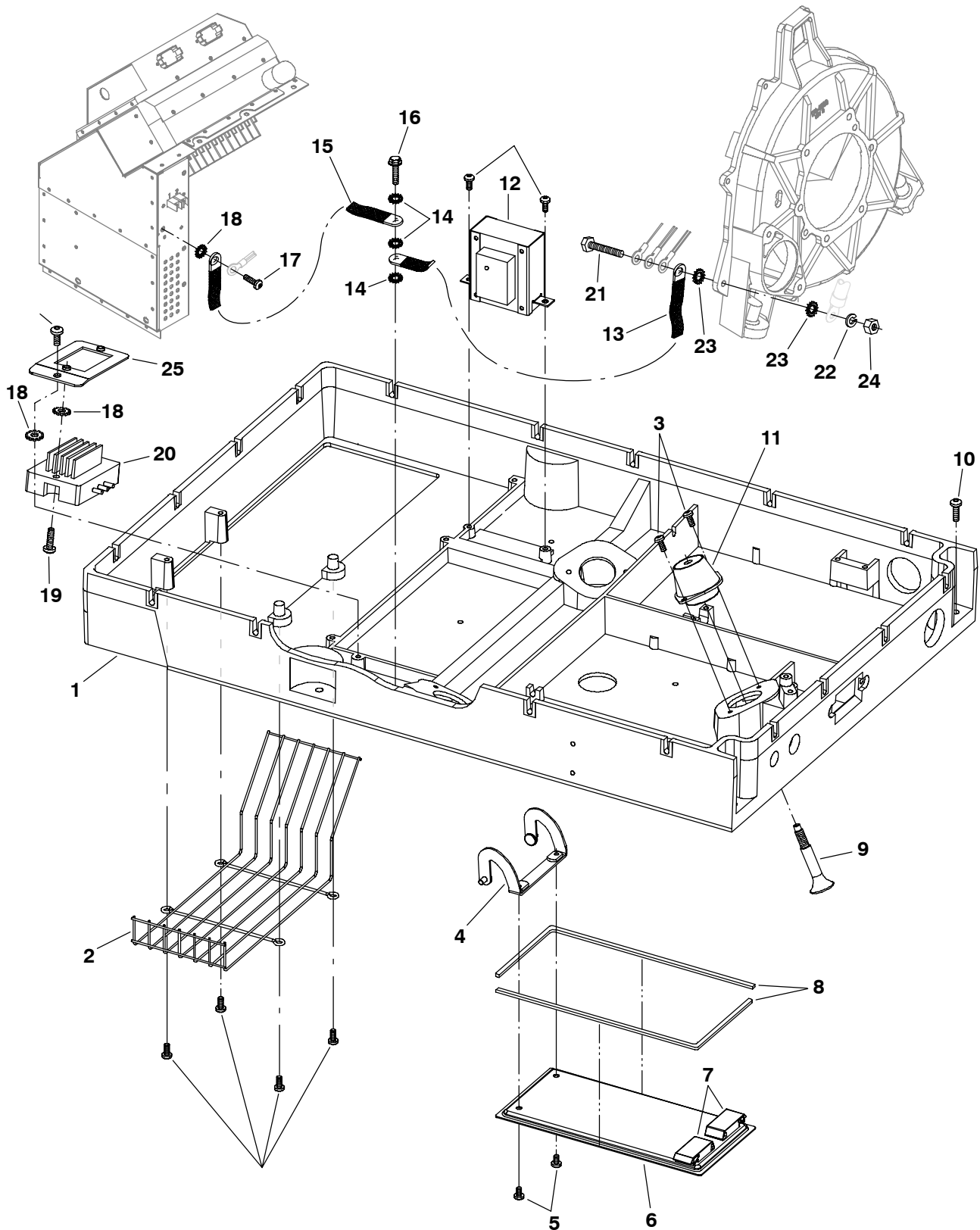
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Exhaust System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	895-0297	AR	Seal, Exhaust Pipe	10	185-5536	3	Nut
2	154-3018	1	Pipe, Exhaust Flex	11	185-5534	3	Bolt
3	870-0557	2	Nut, Flange Hex (M8 x 1.25mm)	12	402-0688-02	2	Clamp, Flat Isolator
4	725-1050	4	Screw, Socket Head Cap (M8 x 20mm)	13	823-0003-02	6	Screw, Pan Head (M6 x 1 x 14mm)
5	154-2800	2	Gasket, Exhaust Manifold	14	402-0687-01	3	Isolator, Muffler
6	185-6853	1	Gasket, Muffler	15	402-0695-02	1	Clamp, "U" Isolator
7	185-6791	1	Manifold, Exhaust Spec A	16	405-5787	1	Block, Fiberglass
	181-9226	1	Begin Spec H HDKAH, HDKAJ and HDKAK	17	155-2610	1	Tube, Exhaust 3"
					155-2424	1	7"
	181-9226	1	Begin Spec E HDKAV, HDKAT and HDKAU	18	800-0310-21	2	Screw, Hex Head Thread Form (5/16-18 x 1)
8			Gasket	19	526-0115	2	Washer, Flat (5/16")
	185-6852	1	Spec A	20	155-2982	1	Elbow, Exhaust
	154-2862	1	Begin Spec H HDKAH, HDKAJ and HDKAK	21	155-3110	1	Muffler, Exhaust
	154-2862	1	Begin Spec E HDKAV, HDKAT and HDKAU	22	505-0266	1	Plug, Clean-Out
9	185-5829	3	Stud	23	850-2008	4	Washer, Split Lock (M8)

Mounting Base

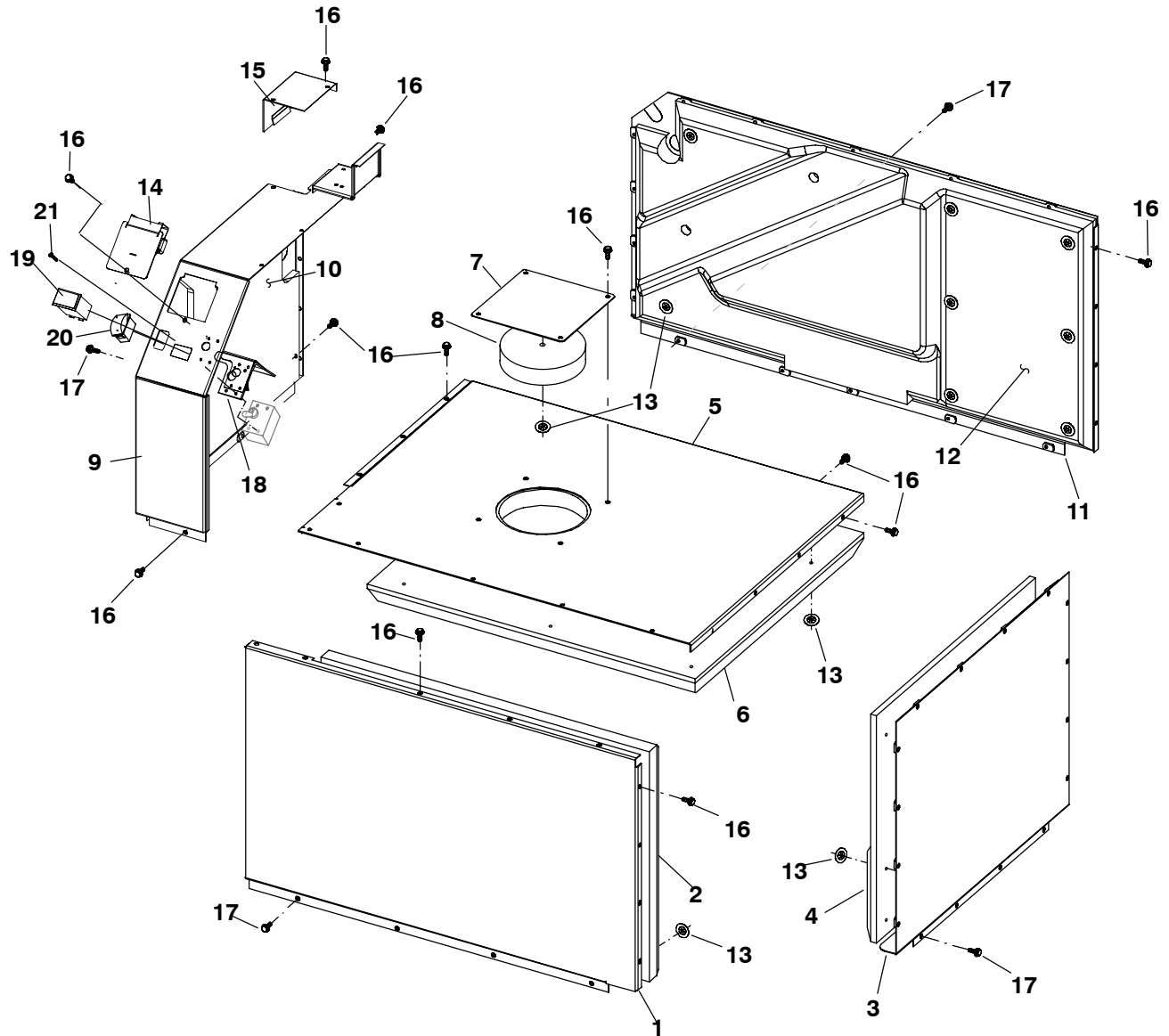


Mounting Base

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3847-04	1	Base, Mounting	18	856-0006	3	Washer, EIT Lock (1/4")
2	130-4655	1	Guard, Fan	19	823-0003-03	8	Screw, Pan Head (M6 x 1 x 20mm)
3	823-0003-03	8/6	Screw, Pan Head Torx (M6 x 1 x 20mm)	20	191-2228	1	Regulator (For Use With Battery Charging Option)
4	402-0673-02	1	Hinge, Door	21	800-0030	1	*Screw, Hex Head Cap (5/16-18 x 1-1/4))
5	823-1002-03	2	Screw, Pan Head (M6 x 1 x 10mm)	22	850-2008	1	*Washer, Lock (M8)
6	405-5818-S0	1	Door Assy, Maintenance (Includes Latch and Seal)	23	856-0008	2	*Washer, EIT Lock (.312)
7	406-0612	2	Latch, Service Panel	24	862-0015	1	*Nut, Hex (5/16-18)
8	403-3861	2	Seal, Door	25	305-0952-02	1	Bracket, Voltage Regulator (For Use With Battery Charging Option)
9	815-0861	3	Screw, Isolator Mount	26	815-0753	7/4	Screw, Hex Head Cap (M6 x 1 x 14 Self Tap)
10	815-0908	4	Screw, Thread Forming Hex Washer Head Mounting (3/8-16 x 1.5)				
11	402-0680-01	3	Isolator, Vibration				
12	315-0793	1	Transformer, Battery Charge (For Use With Battery Charging Option)				
13	337-2845	1	Strap, Bond				
14	856-0008	3	Washer, EIT Lock (5/16")				
15	337-2953	1	Strap, Bond				
16	815-0829-05	1	Screw, Hex Washer Head Thread Forming (M8 x 1.25 x 25mm)				
17	823-1002-04	1	Screw, Pan Head Machine (M6 x 1 x 14mm)				

* - Parts Included with Engine Harness Listed on Engine Harness Page.

Housing (HDKAH, HDKAJ and HDKAK)

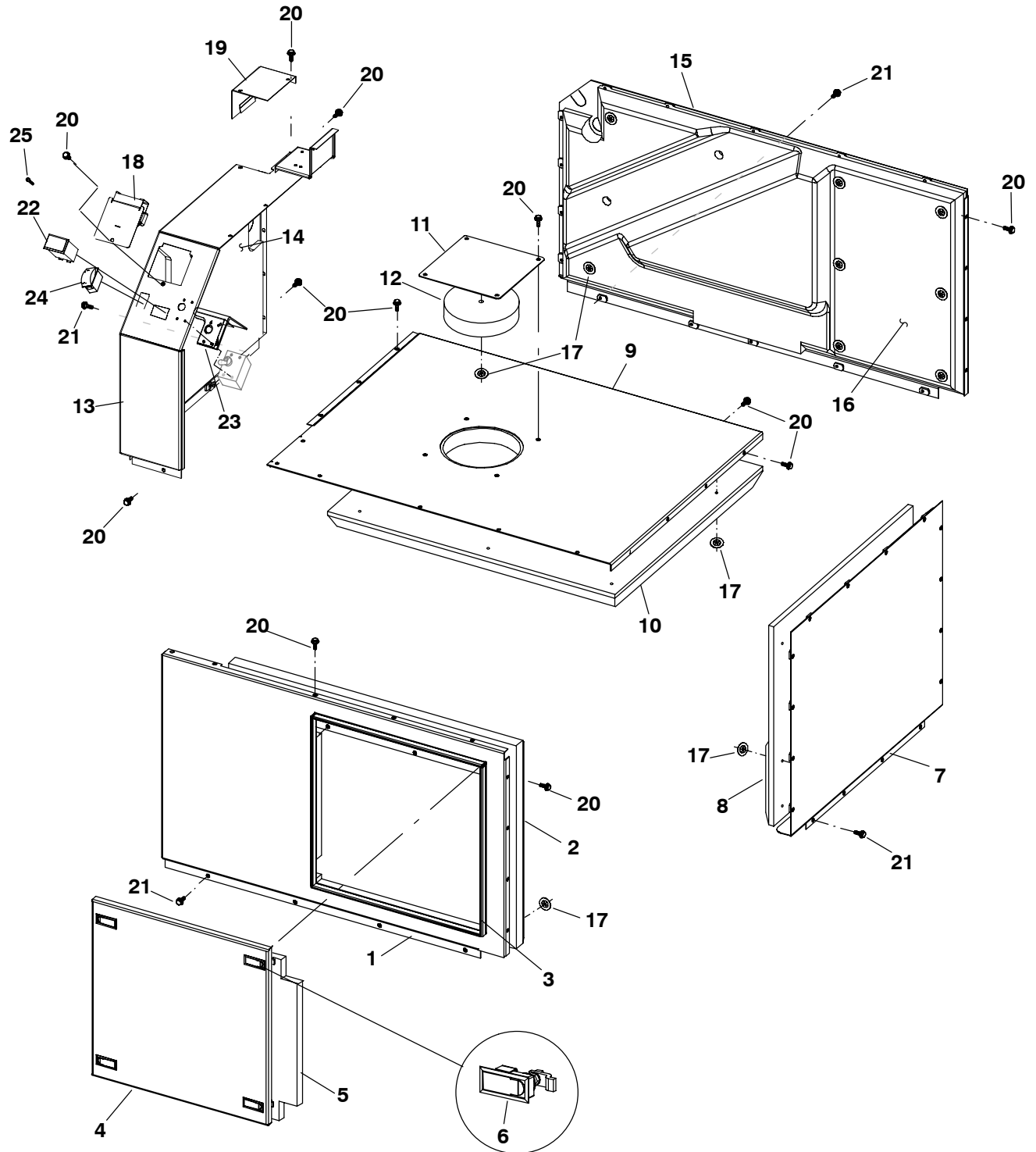


Housing (HDKAH, HDKAJ and HDKAK)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	405-5780	1	Kit, Insulation (Includes Parts Marked *)	13	518-0581	22	Nut, Push-On
1	405-5077-01	1	+ Assy. Panel, Curb (Includes Panel and Insulation)	14	405-5309-03	1	Cover, Radiator Fill Access
2	405-5759	1	+*Insulation, Panel Curb	15	405-5380-05	1	Cover, AC Access
3	405-5080-01		# Assy. Panel, Engine (Includes Panel and Insulation)	16	821-2096-02	34	Screw, Lock Flange (M6 x 1 x 12mm)
4	405-5081	1	#*Insulation, Engine Panel	17	821-2096-03	18	Screw, Lock Flange (M6 x 1 x 16mm)
5	405-5066-01		^ Assy. Panel, Top (Includes Panel and Insulation)	18	320-1939-02	1	Guard, Circuit Breaker
6	405-5762	1	^*Insulation, Top Panel	19	302-2002	1	Hourmeter (HDKAH and HDKAK)
7	405-5575-01	1	@ Cover, Lifting Eye Access	20	308-1038	1	Switch, Rocker
8	405-5546	1	@*Insulation, Access Cover	21	815-0550-01	4	Screw, Pan Head (6-32 x 3/8")
9			> Panel, Cap (Includes Insulation)				
	405-6037-02	1	HDKAJ				
	405-6037-03	1	HDKAH, HDKAK				
10			> Insulation, Cap				
	405-5757	1	Spec A				
	405-5875	1	Begin Spec D				
11	405-5083-01		% Assy Panel, Rail (Includes Panel and Insulation)				
12	405-5779	1	%*Insulation, Panel Rail				

- * - Parts Included in Insulation Kit
- + - Parts Included in Curb Panel Assembly.
- # - Parts Included in Engine Panel Assembly
- ^ - Parts Included in Top Panel Assembly
- @ - Parts Included in Lifting Eye Access Panel.
- > - Parts Included in Cap Panel Assembly.
- % - Parts Included in Rail Panel Assembly

Housing (HDKAV, HDKAT and HDKAU)

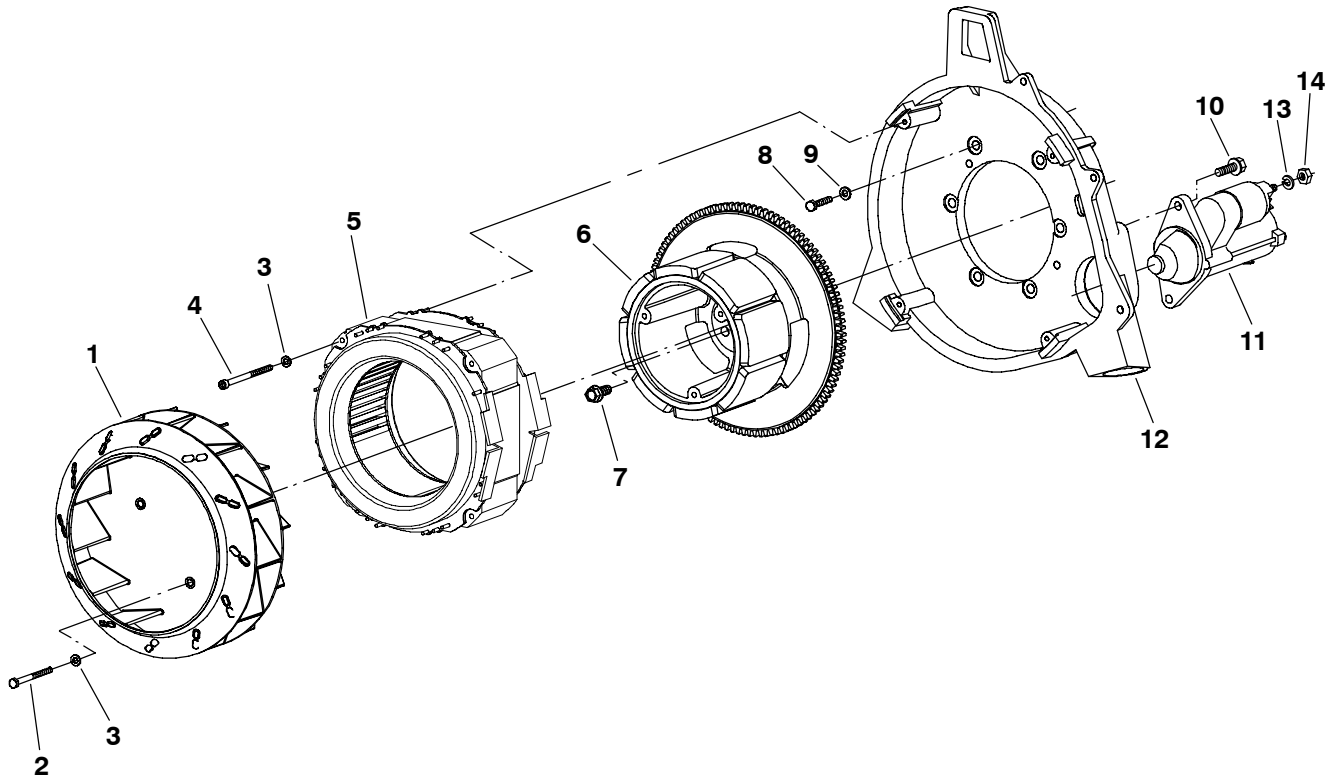


Housing (HDKAV, HDKAT and HDKAU)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-5824-01	1	+ Assy Panel, Curb (Includes Panel and Insulation)	17	518-0581	22	Nut, Push-On
2	405-5822-01	1	+ Insulation, Panel Curb	18	405-5309-03	1	Cover, Radiator Fill Access
3	508-1118	1	+ Edging, Trim	19	405-5380-05	1	Cover, AC Access
4	405-5823-01		* Assy Door, Access(Includes Panel and Insulation)	20	821-2096-02	34	Screw, Locking Flange (M6 x 1 x 12mm)
5	405-5822-02	1	* Insulation, Door Panel	21	821-2096-03	18	Screw, Locking Flange (M6 x 1 x 16mm)
6	406-0842	4	* Latch, Lift and Turn	22	302-2002	1	Hourmeter
7	405-5080-01	1	^ Assy Panel, Engine(Includes Panel and Insulation)	23	320-1939-02	1	Guard, Circuit Breaker
8	405-5081	1	^ Insulation, Engine Panel	24	308-1038	1	Rocker, Switch (Stop/Start)
9	405-5066-01	1	< Assy Panel, Top(Includes Panel and Insulation)	25	815-0550	4	Screw, Pan Head W/O Circuit Breaker Boot (6-32 x 3/8")
10	405-5762	1	< Insulation, Top Panel				
11	405-5575-01	1	> Assy Cover, Lifting Eye Access(Includes Cover and Insulation)				
12	405-5546	1	> Insulation, Access Cover				
13	405-6037-03	1	# Assy Panel, Cap(Includes Panel and Insulation)				
14	405-5875	1	# Insulation, Cap				
15	405-5083-01	1	~ Assy Panel, Rail(Includes Panel and Insulation)				
16	405-5779	1	~ Insulation, Panel Rail				

+ - Parts Included in Curb Panel Assembly
 * - Parts Included in Door Access Assembly
 ^ - Parts Included in Engine Panel Assembly
 < - Parts Included in Top Panel Assembly
 > - Parts Included in Lifting Eye Access Cover Assembly
 # - Parts Included in Cap Panel Assembly
 ~ - Parts Included in Rail Panel Assembly

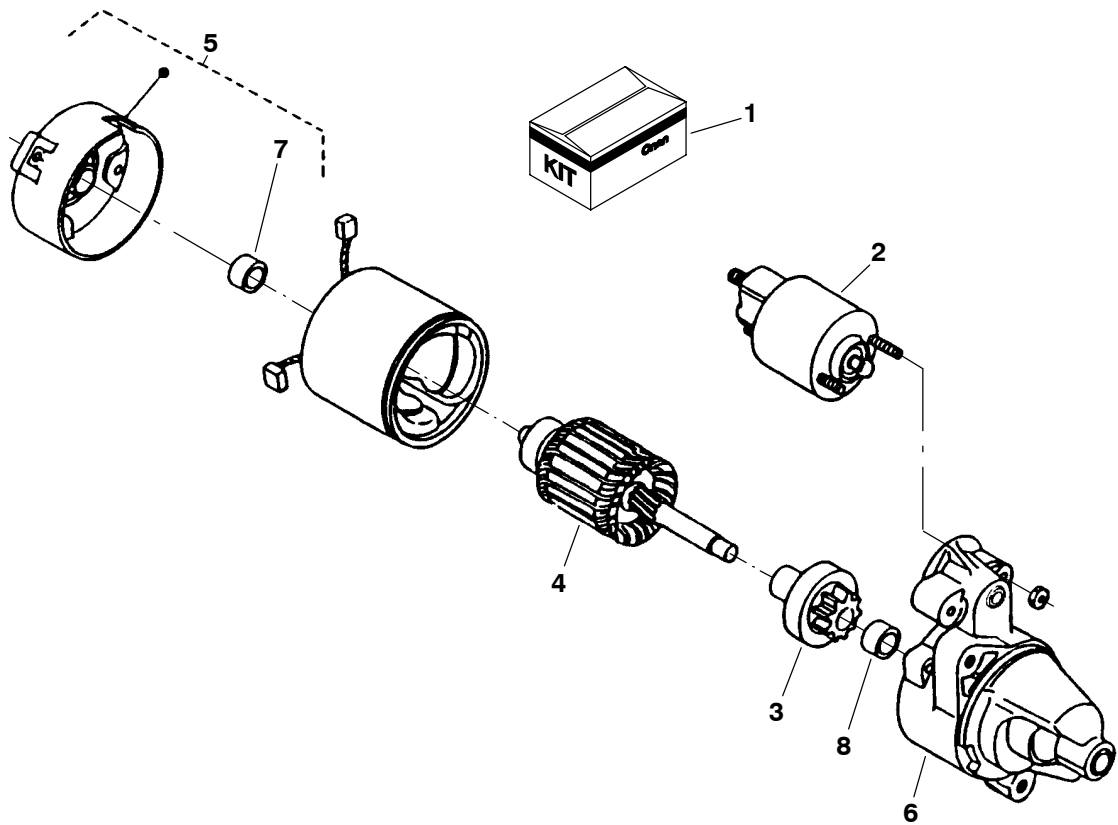
Generator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Fan, Generator
	205-0232	1	Spec A
	205-0302	1	Begin Spec H HDKAH, HDKAJ and HDKAK
	205-0302		Begin Spec E HDKAV, HDKAT and HDKAU
2	800-2044	3	Screw, Hex Head Cap (M6 x 1 x 70mm)
3	526-2080	7	Washer, Flat (M6)
4	815-0936	4	Screw, Socket Head Cap (M6 x 1 x 100mm)
5	220-4484-01	1	Stator
6			Rotor Assy (Includes Ring Gear)
	201-3540	1	Spec A (Magnet Marked with White Strip)
	201-3540-01	1	Begin Spec H HDKAH, HDKAJ and HDKAK
	201-3540-01	1	Begin Spec E HDKAV, HDKAT and HDKAU
7	185-5587	5	Screw, Hex Head Cap

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	800-2058	6	Screw, Hex Head Cap (M8 X 1.25 X 25mm)
9	526-2100	6	Washer, Flat (M8)
10	815-0781	2	Screw, Hex Washer Head (M8 x 1.25 x 30mm)
11	191-2200	1	Starter (See Separate Page for Components)
12	104-1890	1	Housing, Flywheel
13	850-2008	1	Washer, Lock (M8)
14	870-0557	1	Nut, Hex (M8 x 1.25)

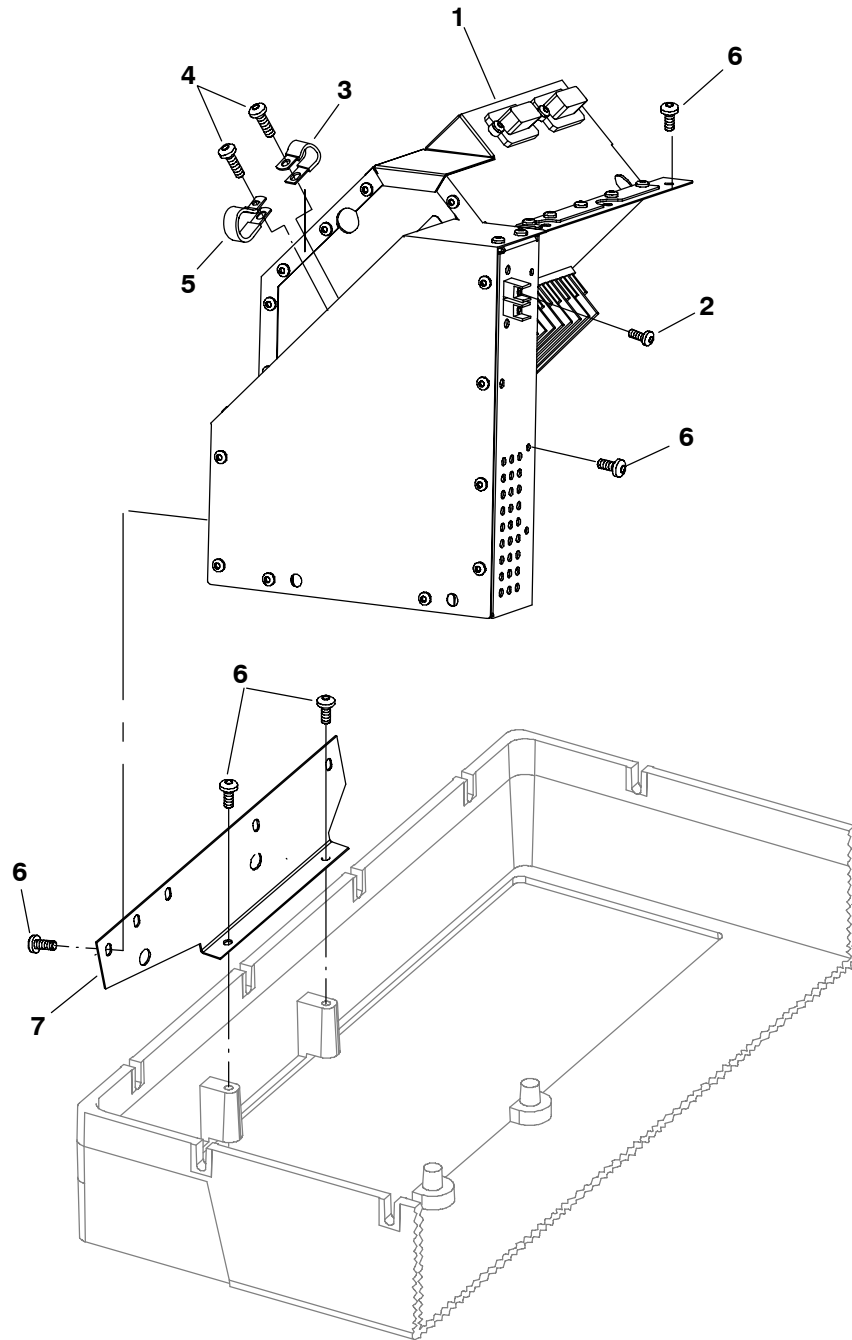
Starter Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2200	1	Starter
1	191-2215	1	Kit, Starter Brush
2	191-2216	1	Switch
3	191-2217	1	Clutch
4	191-2218	1	Armature

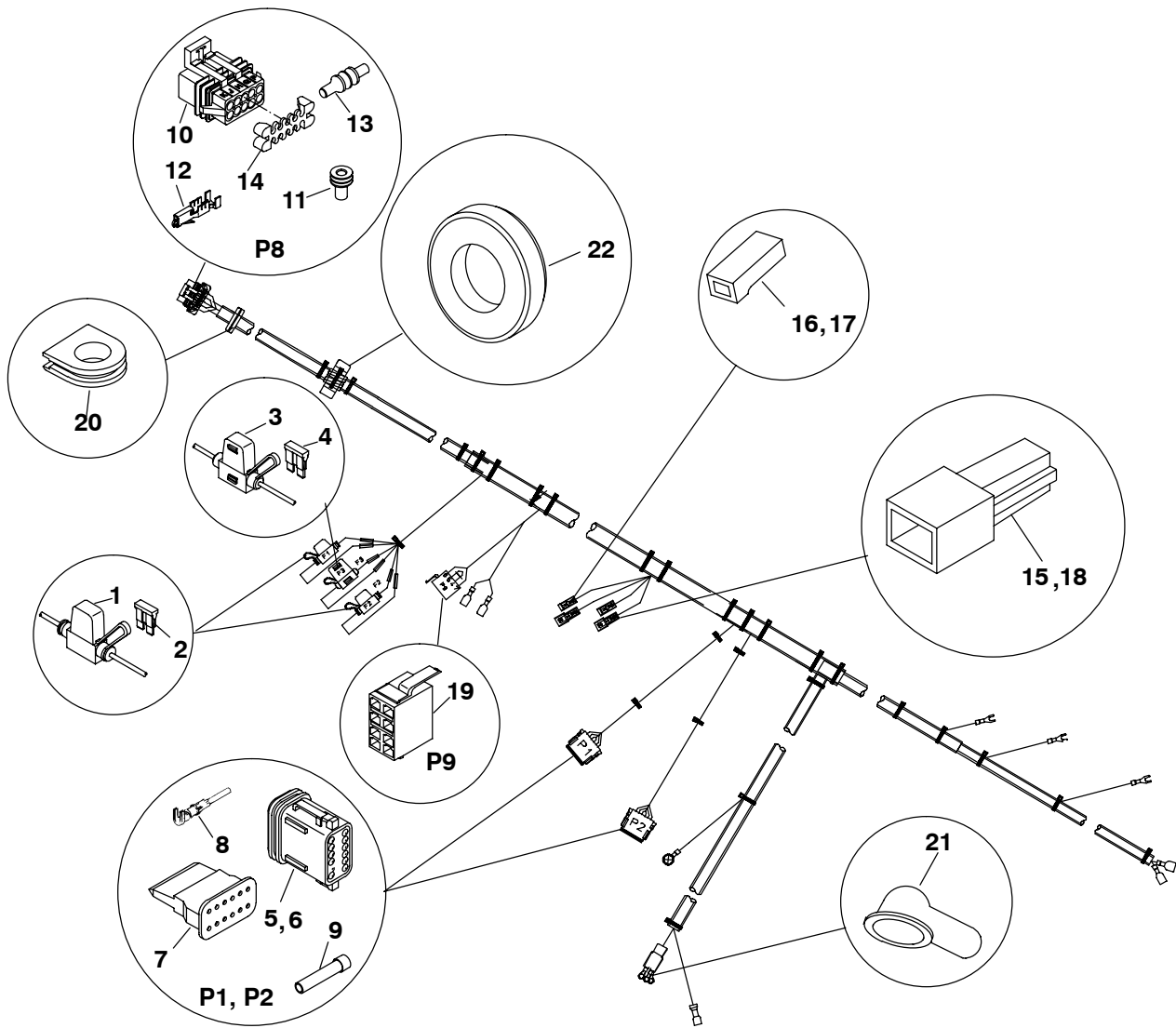
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	191-2219	1	Frame, Commutator End
6	191-2220	1	Housing
7	191-2221	1	Bearing, Commutator End
8	191-2222	1	Bearing, Pinion End

Inverter Mount



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-5295-01	1	Inverter (Recon)	5	332-1553	1	Clamp, Loop (1")
2	815-0896-03	2	Screw, Pan Head Torx (8-32 x 3/8")	6	823-0003-05	11	Screw, Pan Head (M6 x 1 x 14mm)
3	518-0515	1	Clip, Loop	7	319-3033-02	1	Bracket, Inverter
4	823-1002-04	2	Screw, Pan Head Machine (M6 x 1 x 14mm)	8	327-1461	1	Board, Control (Not Shown)

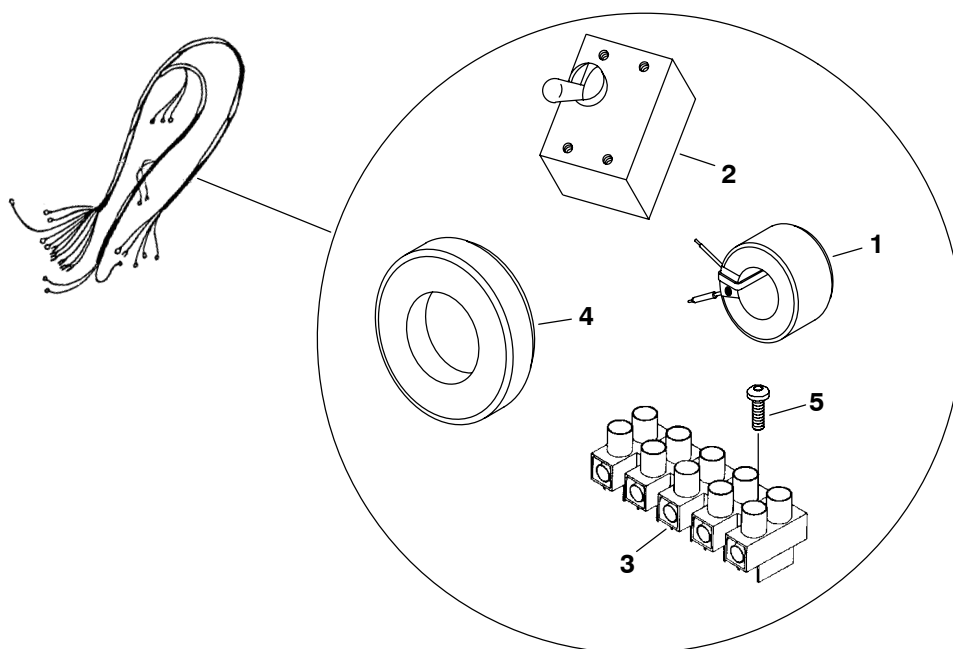
Engine Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			*Harness, Engine	15	332-2298	1	Housing, Tab Terminal (A1-J6)
			HDKAH, HDKAJ, HDKAK	16	332-0819	1	Housing, Receptacle Terminal (Natural) (A1-J7)
	338-3416	1	Spec A	17	332-0819-02	1	Housing, Receptacle Terminal (Red) (A1-J5)
	338-3822	1	Begin Spec E	18	332-2298-01	1	Housing, Tab Terminal (Black) (A1-J8)
			HDKAV, HDKAT, HDKAU	19	308-1019	1	Connector, Switch (P9)
	338-3416	1	Spec A	20	508-1105	1	Grommet
	338-3822	1	Begin Spec B	21	332-2112	1	Insulator, Terminal
1	321-0322	2	Holder, Fuse (1-1/2") (F1, F2)	22			Core
2	321-0321-07	2	Fuse, Blue Blade (F1, F2) (15A)		315-0770	4	HDKAH, HDKAJ, HDKAK
3	321-0349	1	Holder, Fuse (1") (F3)				Spec A (Ferrite)
4	321-0307-08	1	Fuse, Natural Blade (F3) (25A)		315-0821	1	Begin Spec E (Tape Wound)
5	323-1582	1	Connector, Plug (12 Pin) (P1)				HDKAV, HDKAT, HDKAU (Tape Wound)
6	323-1582-02	1	Connector, Plug (12 Pin) (P2)				
7	323-1583	2	Wedge, Plug (12 Pin) (P1, P2)				
8	323-1492	20	Terminal, Socket (P1, P2)				
9	323-1591	4	Seal, Plug (P1, P2)				
10	323-1711	1	Connector, Plug (10 Pin) (P8)				
11	323-1708	9	Seal, Cable (P8)				
12	323-1709	9	Terminal, Socket (P8)				
13	323-1712	1	Plug, Cavity (P8)				
14	323-1719	1	Lock, Housing (P8)				

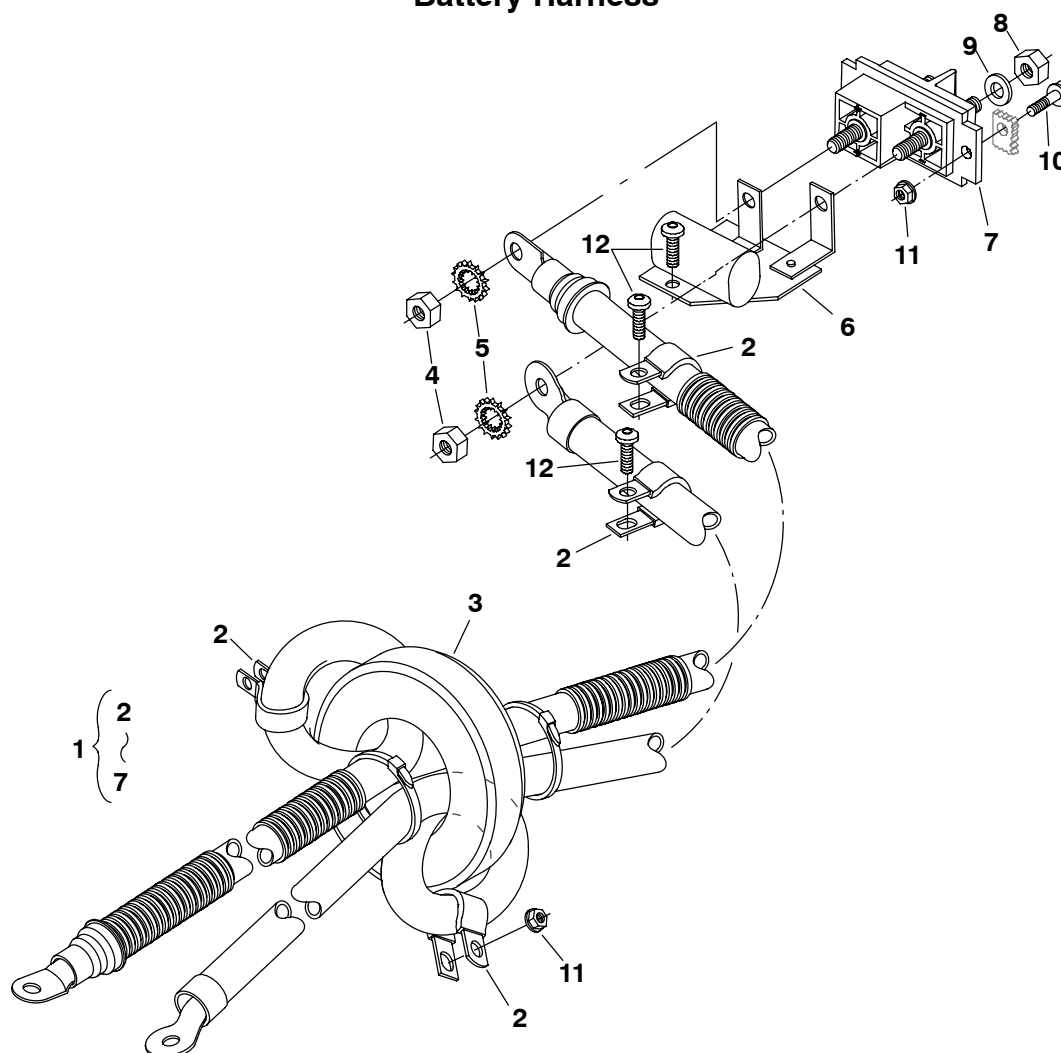
* - See Also the Mounting Base Page for Hardware Included with this Harness.

AC Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Harness, AC Wiring HDKAH, HDKAJ, HDKAK	3			Block, AC Terminal HDKAH, HDKAJ, HDKAK
			Spec A	332-3384	1		Spec A
338-3418	1		W/Battery Charger	332-3531-04	1		Begin Spec D
			W/O Battery Charger	332-3531-04	1		HDKAV, HDKAT, HDKAU
338-3417	1		All Specs Except 11502				Core, Ferrite
338-3417-03	1		Spec 11502 Only				HDKAV, HDKAJ, HDKAK
			Spec D	315-0770	4		Spec A
338-3588-01	1		W/Battery Charger	315-0821	1		Begin Spec E
			W/O Battery Charger				HDKAV, HDKAT, HDKAU
338-3587-01	1		All Specs Except	315-0770	4		Spec A
			11502	315-0821	1		Begin Spec B
338-3587-04	1		Spec 11502 Only	5			Screw
			Begin Spec E				HDKAH, HDKAJ, HDKAK
338-3823-01	1		W/Battery Charger	823-0002-08	2		Spec A Pan Head Torx (M4 x .7 x 25mm)
			W/O Battery Charger	812-0070	2		Begin Spec D, Round Head Machine (6-32 x 1-1/4")
338-3824-01	1		All Specs Except				HDKAV, HDKAT, HDKAU
			11502	812-0070	2		Round Head Machine (6-32 x 1-1/4")
338-3824-04	1		Spec 11502 Only				
			HDKAT				
338-3588-01	1		Spec A				
338-3823-01	1		Begin Spec B				
1 315-0760	1		Transformer				
2			Breaker, Circuit				
			35A (All Specs Except 11502)				
320-1875-01	1		30A (Spec 11502 Only)				
320-1875-04	1						

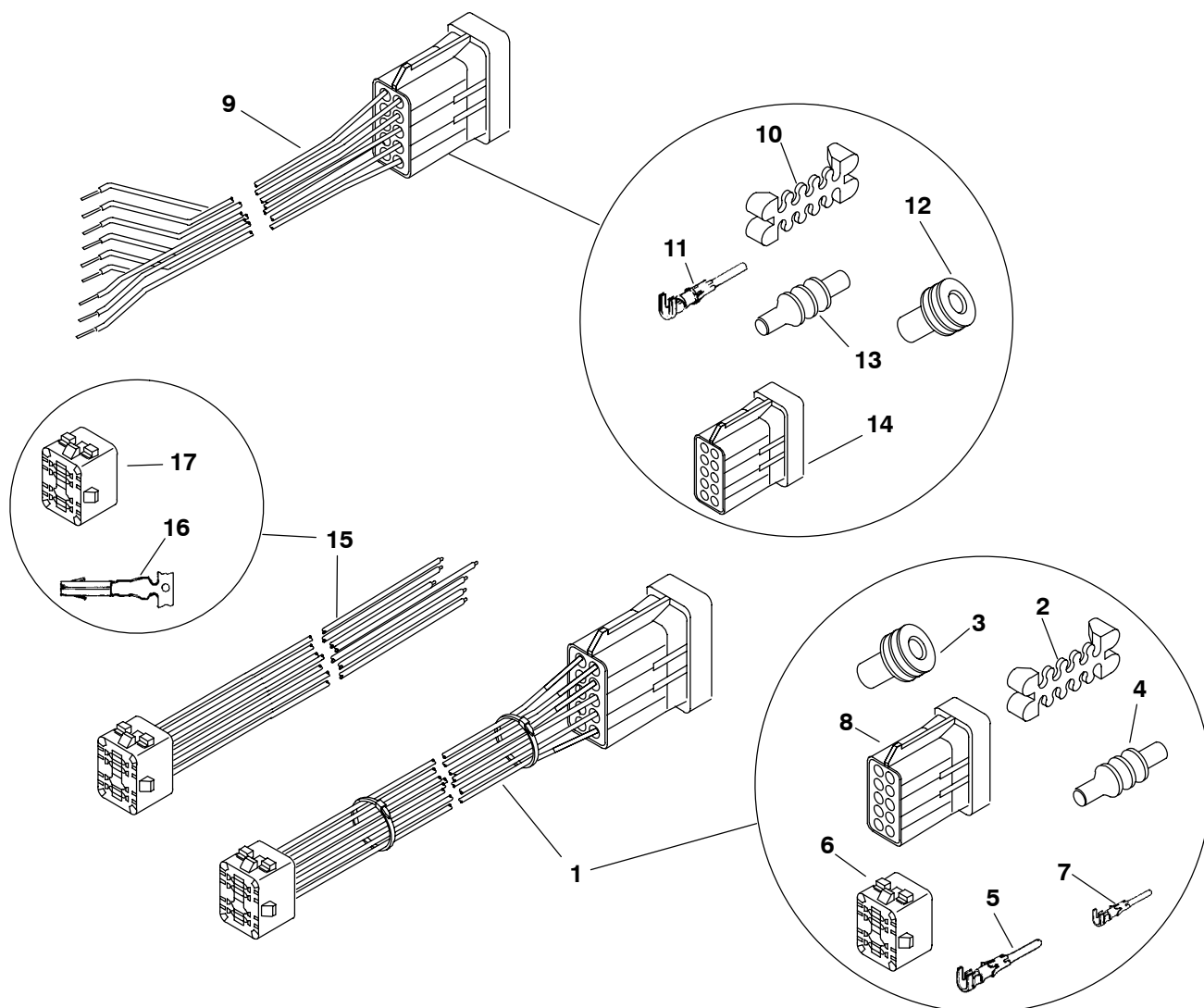
Battery Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Battery (Includes Parts Marked *)	5	856-0008	2	*Washer, EIT Lock (5/16")
	338-3422	1	Spec A	6	300-4884	1	*PCB Assy, Filter DC
	338-3841	1	Begin Spec E	7	332-3408	1	*Block, Terminal
			HDKAH, HDKAJ, HDKAK	8	871-0025	2	Nut, Hex Brass (5/16-18)
	338-3422	1	Spec A	9	526-0054	2	Washer, Flat (5/16")
	338-3841	1	Begin Spec B	10	821-2096-03	2	Screw, Lock Flange (M6 x 1 x 20mm)
2	332-1554	4	*Clamp, Insulated Loop	11	870-2054	3	Nut, Lock Flange (M6 x 1)
3	315-0770	1	*Core, Ferrite (Not Included with Beginning Spec E HDKAH, HDKAJ, HDKAK Harness or Begin Spec B HDKAV, HDKAT, HDKAU, Harness)	12	823-0003-05	3	Screw, Pan Head (M6 x 1 x 14mm)
4	862-0015	2	*Nut, Hex (5/16-18)				

* - Parts Included in Battery Harness.

Harnesses

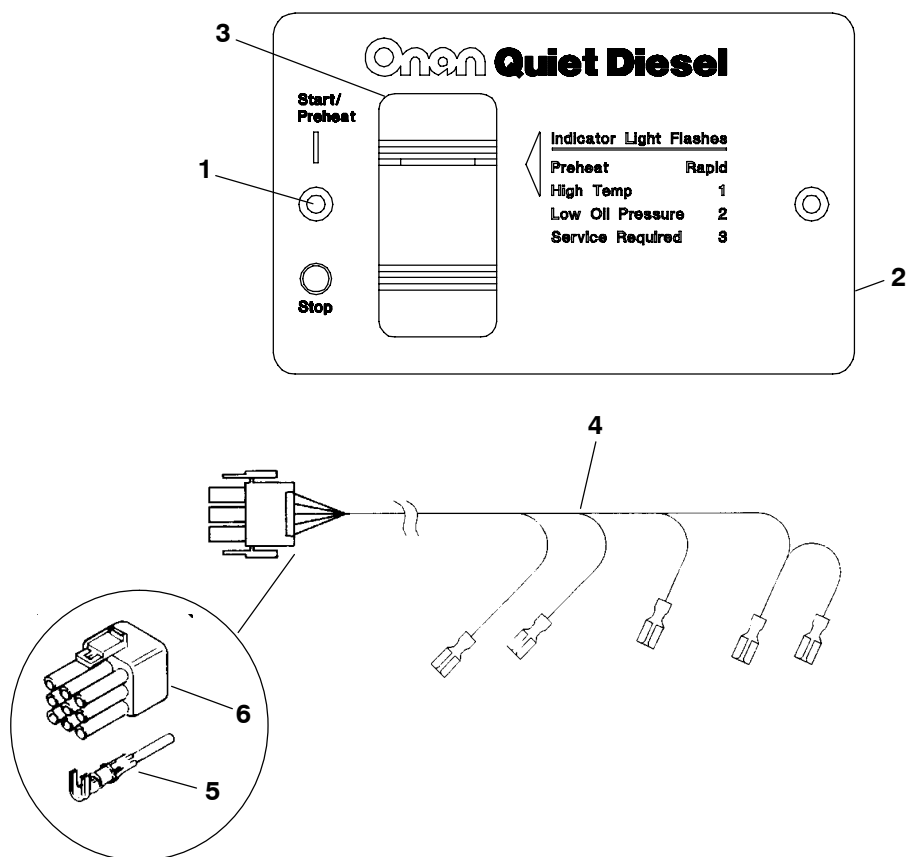


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Extension (Reaches From DC Control Harness to Remote Panel) (Includes Parts Marked +)	10	323-1719	1	°Housing, Lock
	338-3490-01	1	10 Feet	11	323-1707	8	°Pin, Contact
	338-3490-02	1	30 Feet	12	323-1708	8	°Seal, Cable
2	323-1719	1	+ Housing, Lock	13	323-1712	2	°Plug, Cavity
3	323-1708	8	+ Seal, Cable	14	323-1710	1	°Connector, Receptacle (10 Pin)
4	323-1712	2	+ Plug, Cavity	15	338-3573	1	Harness, Customer Interface Pigtail 6" (Reaches From Remote Panel to Customer Interface) (Includes Sockets and Cap)
5	323-1200	AR	+ Socket, Contact				
6	323-1325	1	+ Cap, Connector	16	323-1200	8	Socket, Contact
7	323-1707	AR	+ Pin, Contact	17	323-1325	1	Cap, Connector
8	323-1710	1	+ Connector, Receptacle (10 Pin)				
9	300-4947	1	Harness, Remote Connector (Customer Interface Pigtail 6") (Reaches From DC Control Harness to Customer Interface) (Includes Parts Marked °)				

+ - Parts Included in Extension Harness.

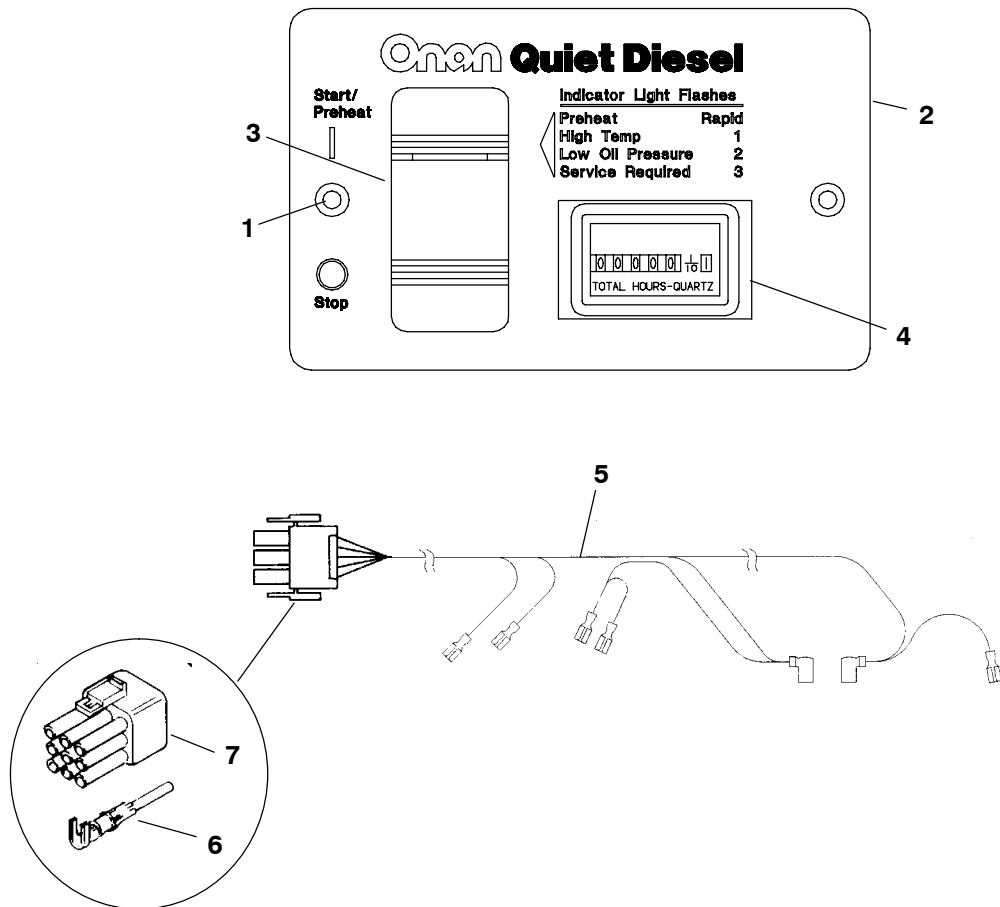
° - Parts Included in Remote Connector Harness.

Remote Switch Panel



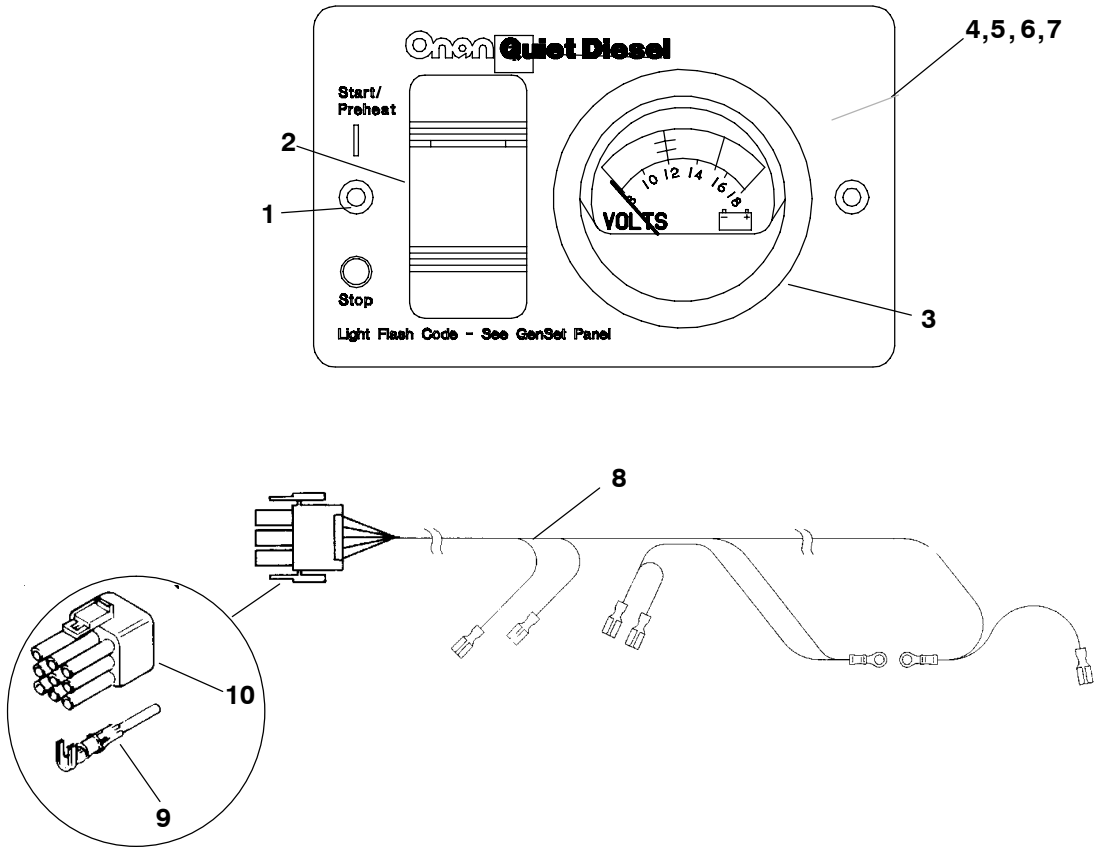
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4942	1	Kit, Remote Switch Panel	4	338-3512	1	Harness, Remote Panel (Includes Pins and Plug)
1	815-0910	2	Screw, Wood Mounting (#6 x 1)	5	323-1199	4	Pin, Contact
2	319-2340-01	1	Panel, Printed	6	323-1291	1	Plug (9 Pin)
3	308-1062	1	Switch, Rocker				

Remote Switch/Hourmeter Panel



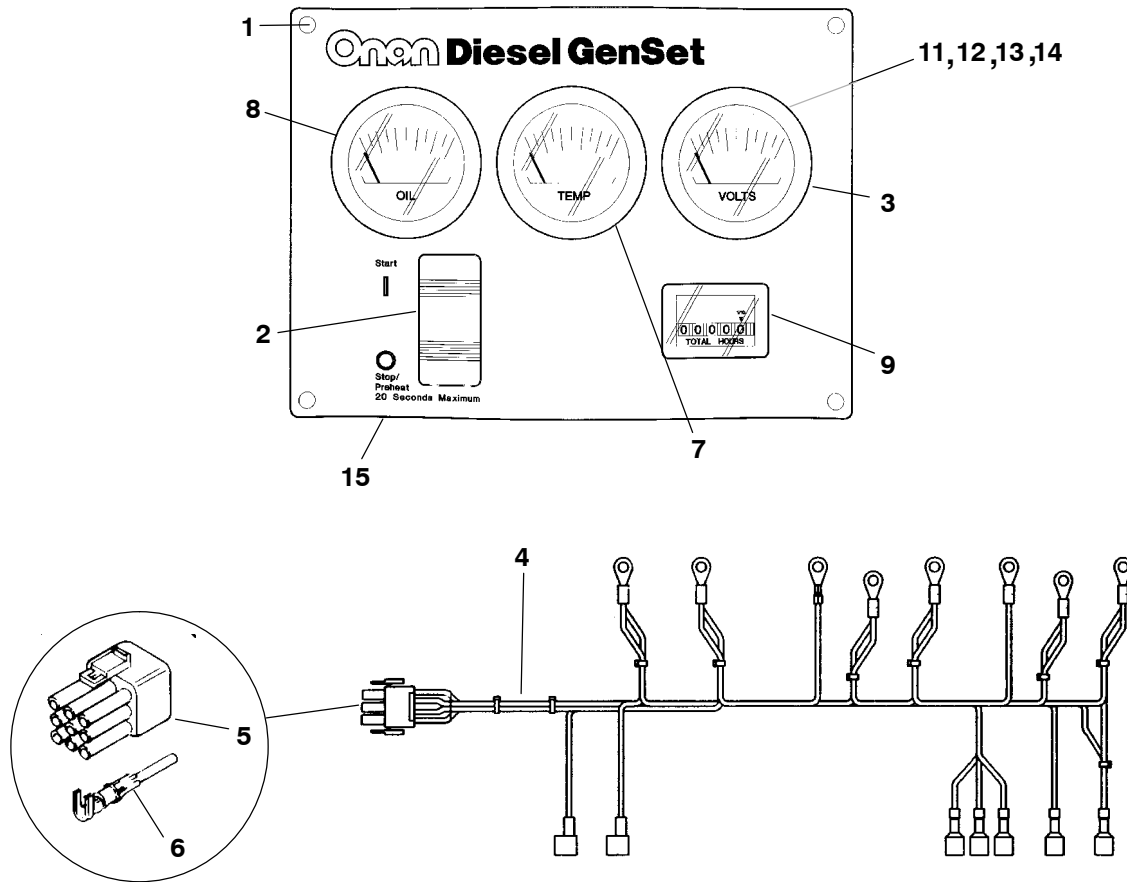
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4943	1	Kit, Switch/Hourmeter Remote Panel	4	302-2002	1	Hourmeter
1	815-0910	2	Screw, Wood Mounting (#6 x 1)	5	338-3475	1	Harness, Remote Panel (Includes Pins and Plug)
2	319-2340-02	1	Panel, Printed	6	323-1199	4	Pin, Contact
3	308-1062	1	Switch, Rocker	7	323-1291	1	Plug (9 Pin)

Remote Switch/Voltmeter Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4944	1	Kit, Remote Switch/Voltmeter Panel	6	871-0010	4	Nut, Hex Brass Machine (#10-32)
1	815-0910	2	Screw, Wood Mounting (#6 x 1)	7	850-0030	2	Washer, Lock (#10)
2	308-1062	1	Switch, Rocker	8	338-3509	1	Harness, Remote Panel (Includes Pins and Plug)
3	302-1641	1	Meter, Voltage	9	323-1199	4	Pin, Contact
4	526-0409	2	Washer, Nylon (3/16")	10	323-1291	1	Plug (9 Pin)
5	526-0049	4	Washer, Flat (#10)				

Remote Gauge Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5027	1	Kit, Remote Gauge Panel	7	193-0351	1	Gauge, Water Temperature
1	808-0023	4	Screw, Pan Head Sheet Metal Mounting (#8 x 1/2")	8	193-0352	1	Gauge, Oil Pressure
2	308-1062	1	Switch, Rocker (SPDT)	9	302-2002	1	Hourmeter
3	302-1641	1	Meter, Voltage	11	526-0409	8	Washer, Nylon (3/16")
4	338-3637	1	Harness, Remote Panel (Includes Plug and Pins)	12	526-0049	16	Washer, Flat (#10)
5	323-1291	1	Plug (9 Pin)	13	871-0010	16	Nut, Hex Brass Machine (#10-32)
6	323-1199	8	Pin, Contact	14	850-0030	8	Washer, Lock (#10)
				15	319-4508	1	Panel, w /Decal

Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-7485-07	1	Label, Blank Wiring Harness		541-0531	1	Kit, Commercial Remote Air Cleaner (Includes Parts Marked +)
			Label, Control Panel (2 Pole, W/Hourmeter)				
	98-7125-01	1	35A		140-3050	1	+ Air Cleaner Assy (Includes Element and Cover)
	98-7125-05	1	30A				
	98-7368	1	Label, GenVerter		140-3071	1	+ Element, Air Cleaner
			Label, Model Ident		140-3072	1	+ Cover, Air Cleaner
			RV		718-1035	4	+ Screw, Hex Head Cap (M8 x 16mm)
	98-6876-01	1	7.5 kW				
	98-6876-02	1	8.0 kW		870-2055	2	+ Nut, Lock Flange
	98-7369	2	Commercial, 7.5 kW		503-2030	2	+ Hose, Air Cleaner
	98-6780-01	1	Label, Remote Panel/Switch		140-3065	1	+ Tube, Adapter
	98-6780-02	1	Label, Remote Panel/		140-3098	1	+ Sleeve, Air Intake
			Hourmeter		503-1895-07	1	+ Hose, Air Cleaner
	98-7351-03	1	Label, Remote Panel/Voltmeter		503-1895-08	1	+ Hose, Air Cleaner
	98-7466	1	Label, Rear Control (M14, M13, M12, GND)		503-0429	4	+ Clamp, Hose
	98-7465-03	1	Label, Control Face (Onan Quiet Diesel)		503-1774	1	+ Clamp, "J" Support
					403-2213	1	+ Spacer, Mounting Pad
					800-0055-01	1	+ Screw, Hex Head Cap
					508-0051	1	+ Grommet
	98-7244	1	Package, Label (Includes Parts Marked *)		821-2096-04	2	+ Screw, Lock Flange (M6 x 1 x 20mm)
	98-7196	1	*Label, Cool/Oil Fill		850-2008	2	+ Washer, Lock (M8)
	98-6877	1	*Label, Coolant Level		140-3099-02	1	+ Bracket, Air Cleaner
	98-6878	1	*Label, Fuel Attachment		140-3100-02	2	+ Shim, Bracket
	98-6476	1	*Label, Ground		526-2080	2	+ Washer, Flat (M6)
	98-7482	1	*Label, Hose Kit				
	98-7197	1	*Label, Patent		541-0530	1	Kit, Aux Commercial Fuel Pump (Includes Parts Marked #)
	98-7199	1	*Label, Service Info				
	98-7127	1	*Label, Warning (Hazardous Voltage)		149-2547	1	# Pump, Aux Fuel
					338-3580	1	# Harness, Fuel Pump
	98-7130	1	*Label, Warning (Overheat)		332-2947	2	# Connector, Splice
	98-7128	2	*Label, Warning (Voltage/ Rotating Parts/Operation Service Risk)		323-1608	1	# Housing, Connector
					323-1607	2	# Contact, Socket
					323-1576	2	# Seal, Cable
	98-7131	1	*Label, Warning (Voltage/ Rotating Fan)				
	98-7497-02	1	Label, Warning Install				
	98-7494-01	1	Label, Warning Install				

* - Parts Included in Label Package.

+ - Parts Included in Commercial Remote Air Cleaner Kit.

- Parts Included in Aux Commercial Fuel Pump Kit.

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