

Cummins **Onan**



Parts Manual

RV Generator Set

HDKBA (Spec A-D)

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.

 **DANGER**

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

 **WARNING**

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

 **CAUTION**

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

PRODUCT SAFETY PRECAUTIONS

 **WARNING**

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.

 **WARNING**

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.

 **WARNING**

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!

 **WARNING**

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!

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. Right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table

Model Identification	Fuel	Wiring Diagram	Voltage	Hertz	Phase
5.5HDKBA 2732A/B/C/D	Diesel	630-2298	120	60	1
5.5HDKBA 2733A/B/C/D	Diesel	630-2298	120	60	1
5.5HDKBA 3589B/C/D	Diesel	630-2298	120	60	1
5.5HDKBA 3590B/C/D	Diesel	630-2298	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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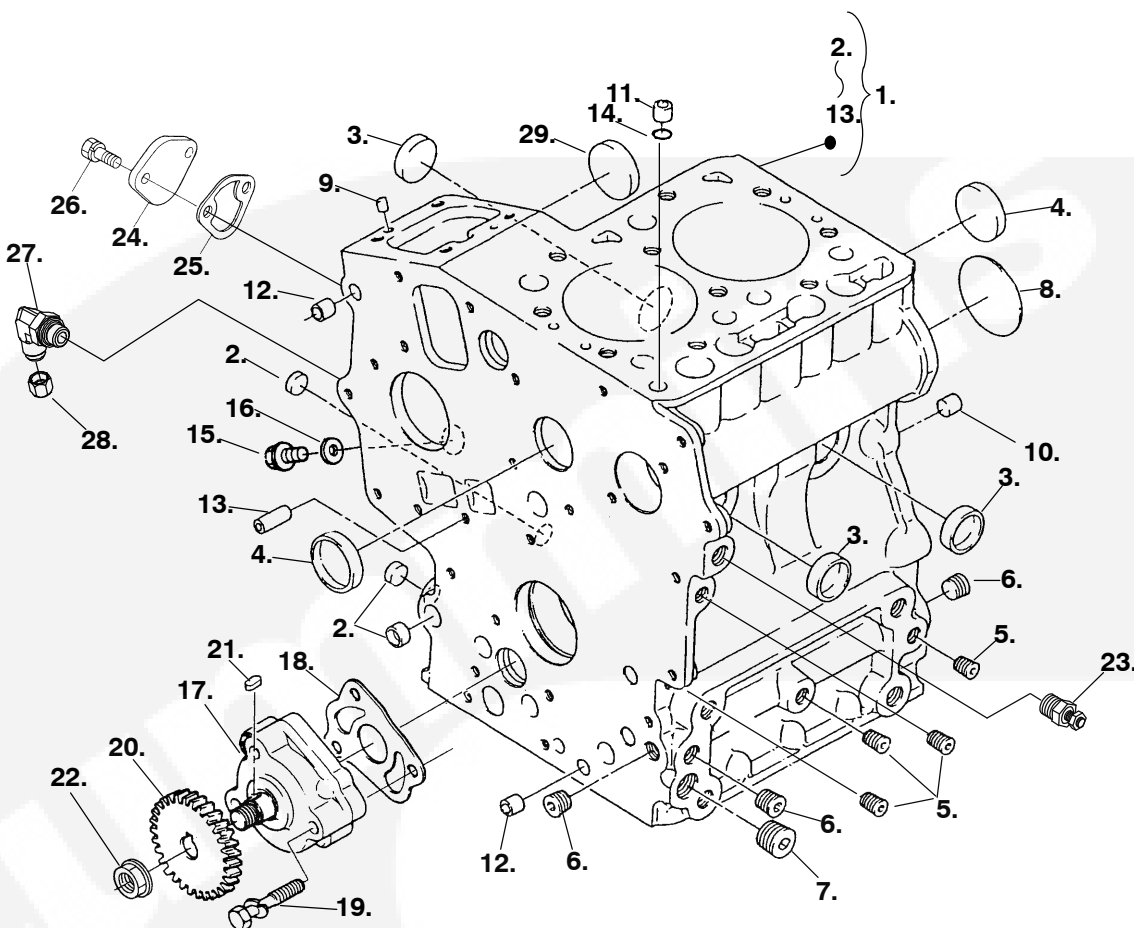
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Cylinder Block



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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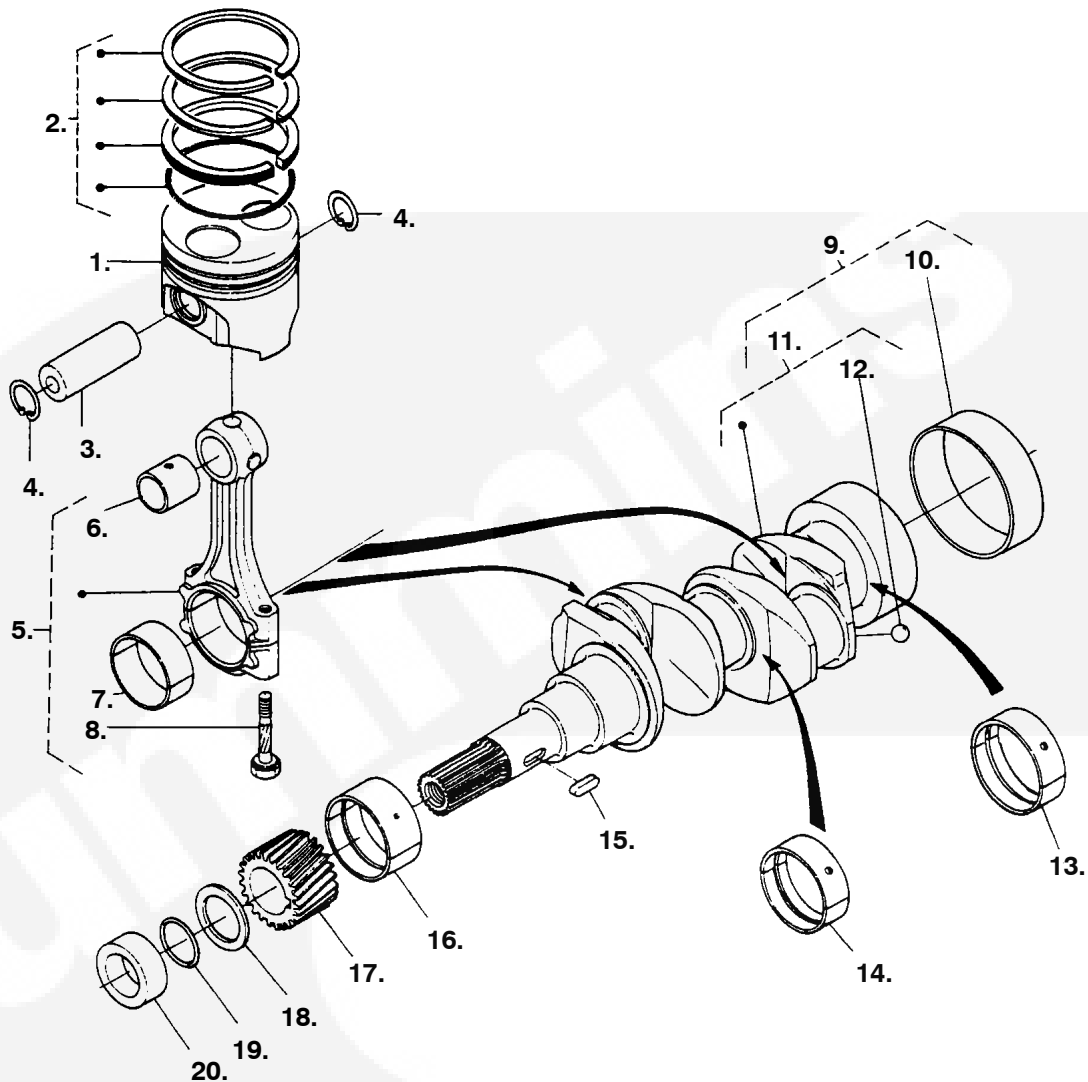
1.	100-4110	1	Engine, Replacement Spec A-D Block Assy, Cylinder (Includes Parts Marked *)
	184-0045	1	Spec A-B
	181-9173	1	Spec C
	110-4124	1	Begin Spec D
2.	185-5482	3	*Cap, Sealing
3.	185-5483	3	*Cap, Sealing
4.	185-5484	2	*Cap, Sealing
5.	185-2188	4	*Plug
6.	185-2233	3	*Plug
7.	185-2234	1	*Plug
8.	185-5485	1	*Plug, Expansion
9.	185-5486	2	*Pin, Straight
10.	185-5487	2	*Pin, Straight
11.	185-2094	1	*Pin, Pipe
12.	185-2115	2	*Pin, Pipe
13.	185-5488	2	*Pin, Pipe
14.	185-2095	1	O'Ring (Spec A-C)
15.	181-9022	1	Plug

16.			Gasket
	184-0014	1	Spec A
	509-0549	1	Begin Spec C
17.	185-5412	1	Pump, Oil
18.	185-5413	1	Gasket, Oil Pump
19.	185-5491	3	Bolt
20.	185-5414	1	Gear, Oil Pump Drive
21.	185-5415	1	Key, Feather
22.	185-5416	1	Nut, Flange
23.	185-5492	1	Switch, Oil Pressure
24.	185-5798	1	Cover
25.	185-6580	1	Gasket, Hole Cover
26.	185-2388	2	Bolt
27.	502-1359	1	Elbow, 90° Coolant Drain
28.	502-1360	1	Nut, Cap
29.	185-5489	1	Cover, Fuel Camshaft

* - Parts Included in Cylinder Block Assy.

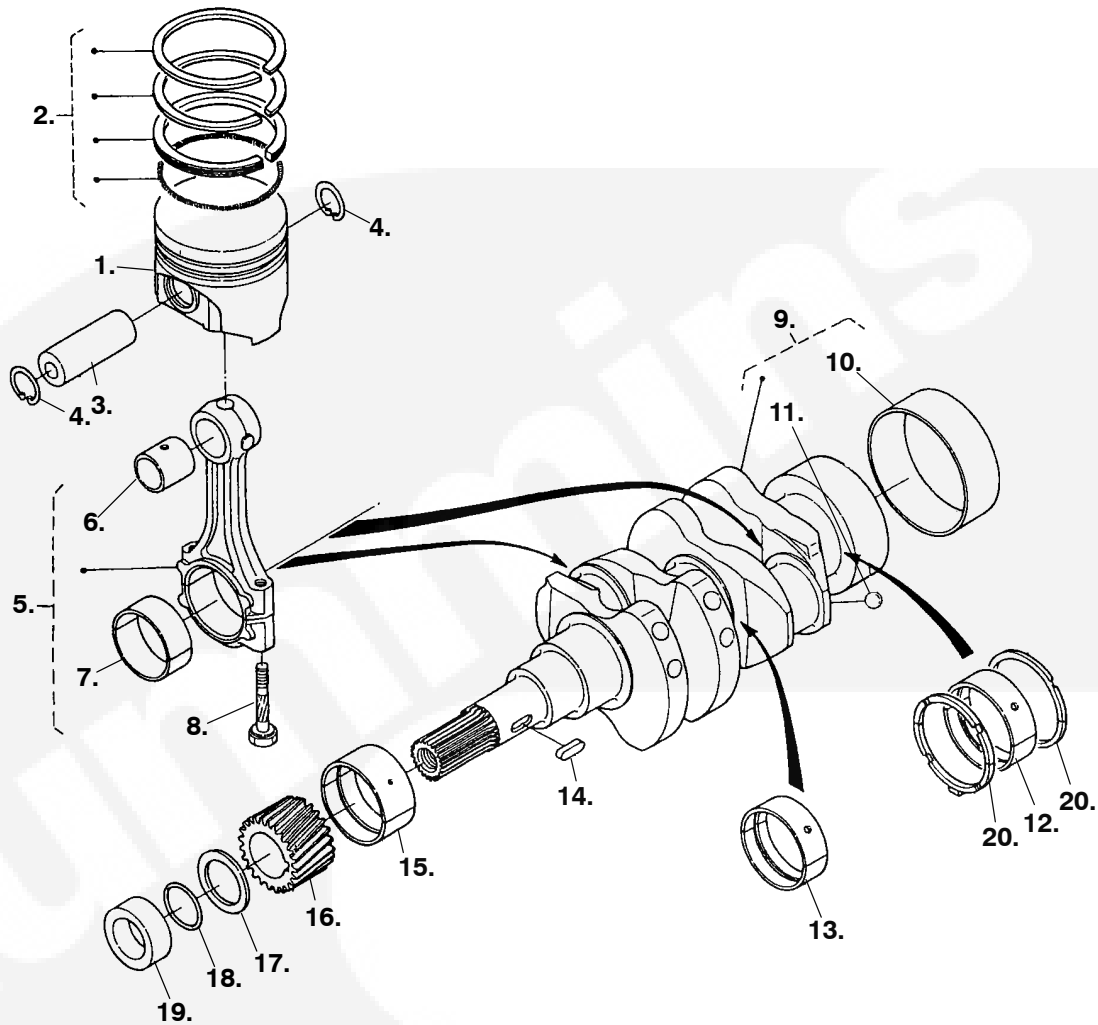
+ - Parts Included in Isolated Ground Kit Listed on Relay Page.

Piston and Crankshaft (Spec A)



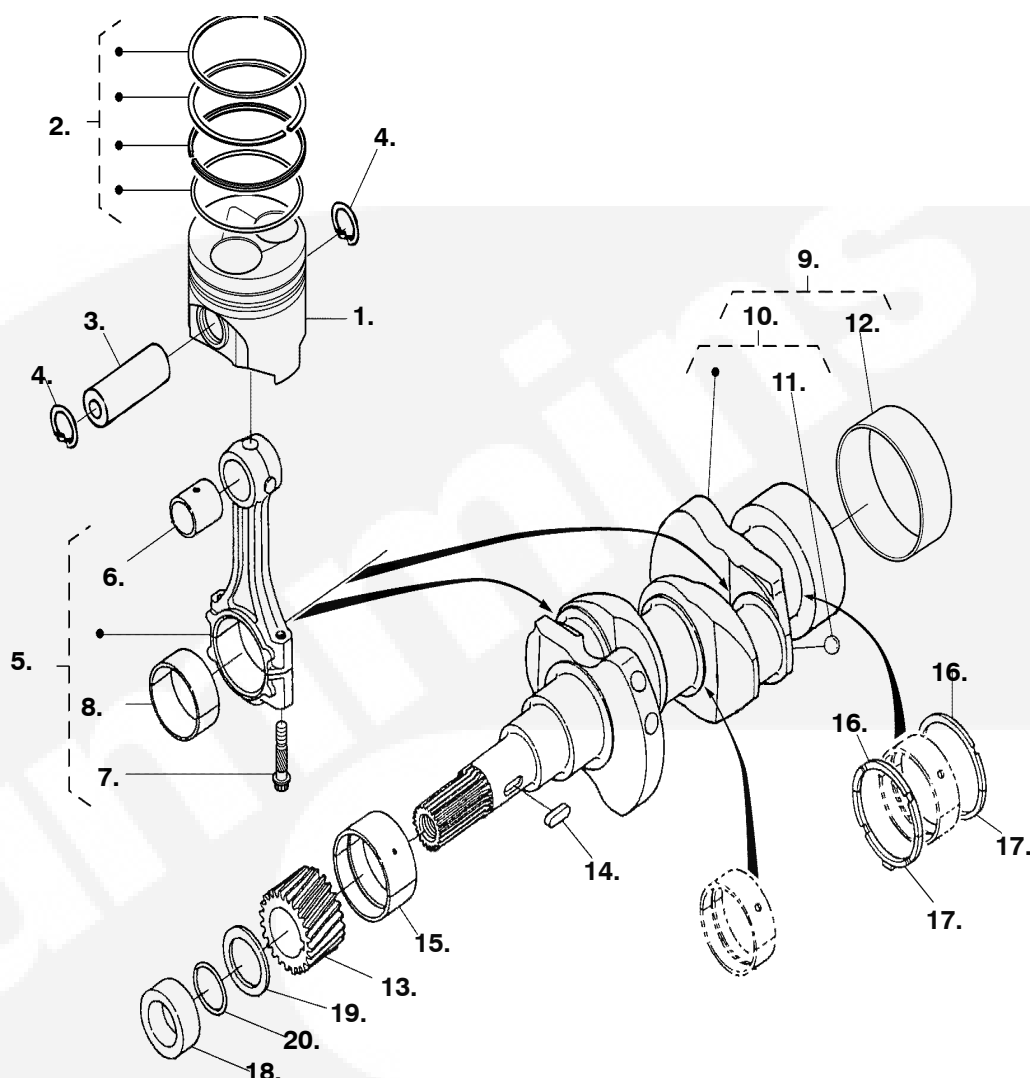
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-7076	2	Piston	11.	184-0034	2	Crankshaft (Includes Ball)
	184-0033	2	Standard +0.50mm	12.	185-5575	2	Ball
2.	184-0030	2	Ring Assy, Piston	13.	185-5580	1	Bearing
	184-0031	2	Standard +.050mm		185-2026	1	Standard
3.	185-5568	2	Pin, Piston		185-5357	1	-0.40mm
4.	185-2016	4	Circlip, Piston Pin	14.	185-5581	1	Bearing
5.	185-5569	2	Rod Assy, Connecting (Includes Bush, Bolt, and Bearing)		185-5360	1	Standard
6.	185-5358	2	Bush, Piston Pin		185-5361	1	-0.40mm
7.	185-5571	2	Bearing	15.	185-2353	1	Key, Feather
	185-5572	2	Standard	16.	185-5577	1	Bearing
	185-5573	2	-0.20mm		185-5578	1	Standard
8.	185-5570	4	Bolt, Connecting Rod		185-5579	1	-0.20mm
9.	184-0046	1	Crankshaft Assy (Includes Sleeve, Crankshaft and Ball)		185-5576	1	-0.40mm
10.	185-2033	1	Sleeve	17.	185-5583	1	Gear
				18.	184-0021	1	Slinger, Oil
				19.	185-5582	1	O'Ring
				20.			Collar, Crankshaft

Piston and Crankshaft (Spec C)



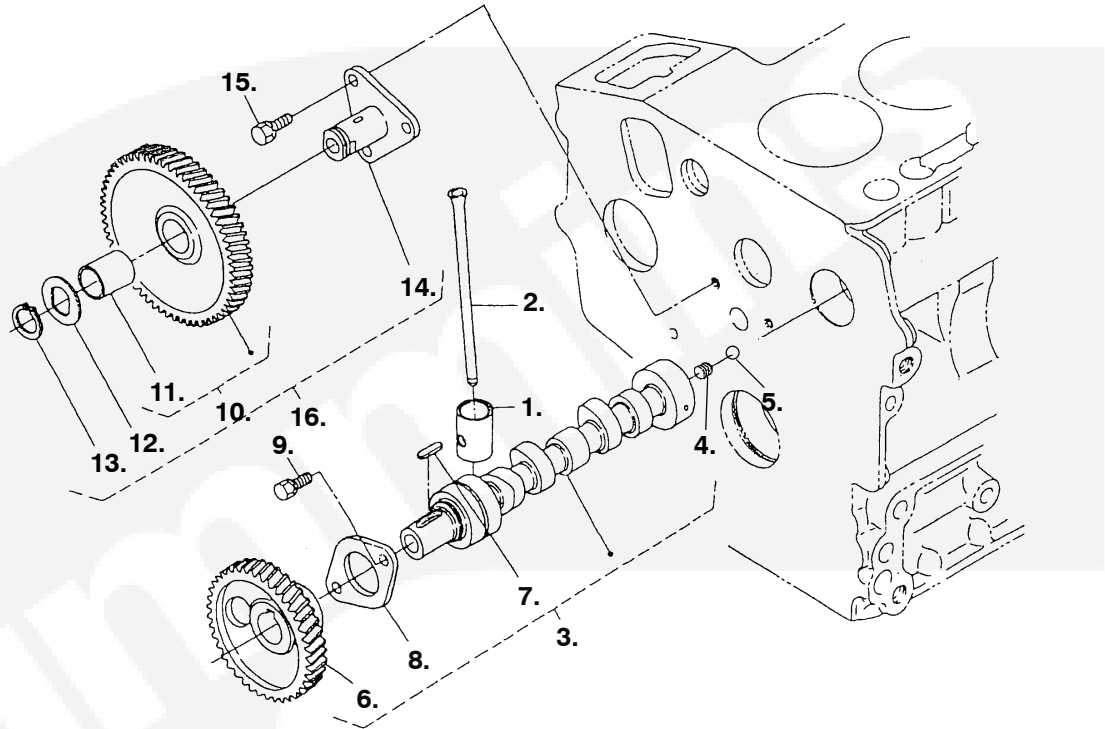
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5566	2	Piston	12.	185-5580	1	Bearing
	185-5350	2	Standard		185-2026	1	Standard
2.			+0.25mm		185-5357	1	-0.20mm
	185-7076	2	Ring Assy, Piston				-0.40mm
	185-7386	2	Standard	13.	185-5581	1	Bearing
3.	185-5568	2	Pin, Piston		185-5360	1	Standard
4.	185-2016	4	Circlip, Piston Pin		185-5361	1	-0.20mm
5.	181-9162	2	Rod Assy, Connecting (Includes Bush, Bolt, and Bearing)		185-5361	1	-0.40mm
6.	185-5358	2	Bush, Piston Pin	14.	185-2353	1	Key, Feather
7.			Bearing	15.			Bearing
	185-5571	2	Standard		185-5577	1	Standard
	185-5572	2	-0.20mm		185-5578	1	-0.20mm
	185-5573	2	-0.40mm		185-5579	1	-0.40mm
8.	185-5570	4	Bolt, Connecting Rod	16.	185-5576	1	Gear
9.	181-9163	1	Crankshaft Assy (Includes Sleeve, Crankshaft and Ball)	17.	185-5583	1	Slinger, Oil
10.	185-2033	1	Sleeve	18.	184-0021	1	O'Ring
11.	185-5575	2	Ball	19.	185-5582	1	Collar, Crankshaft
				20.			Ring Assy, Piston
					185-2030	2	+0.20mm
					185-2031	2	+0.040mm

Piston and Crankshaft (Begin Spec D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-2387	2	Piston	11.	185-5573	2	Ball
	185-5350	2	Standard +0.25mm	12.	185-2033	1	Sleeve
2.	185-7076	2	Ring Assy, Piston	13.	185-5576	1	Gear
	185-7386	2	Standard +.025mm	14.	185-2353	1	Key, Feather
3.	185-5568	2	Pin, Piston	15.	185-5577	1	Bearing
4.	185-2016	4	Circlip, Piston Pin		185-5578	1	Standard -0.20mm
5.	181-9162	2	Rod Assy, Connecting (Includes Bush, Bolt, and Bearing)		185-5579	1	-0.40mm
6.	185-5358	2	Bush, Piston Pin	16.	185-2022	1	Bearing
7.	185-5570	4	Bolt, Connecting Rod		185-2028	1	Standard -0.20mm
8.	185-5571	2	Bearing		185-2029	1	-0.40mm
	185-5572	2	Standard -0.20mm	17.	185-2023	1	Bearing
	185-5573	2	-0.40mm		185-2030	1	Standard -0.20mm
9.	104-2099	1	Crankshaft Assy (Includes Sleeve, Crankshaft and Ball)		185-2031	1	-0.40mm
10.	104-2173	1	Component, Camshaft	18.	185-5582	1	Collar, Crankshaft
				19.	185-5583	1	Slinger, Oil
				20.	184-0021	1	O'Ring

Camshaft

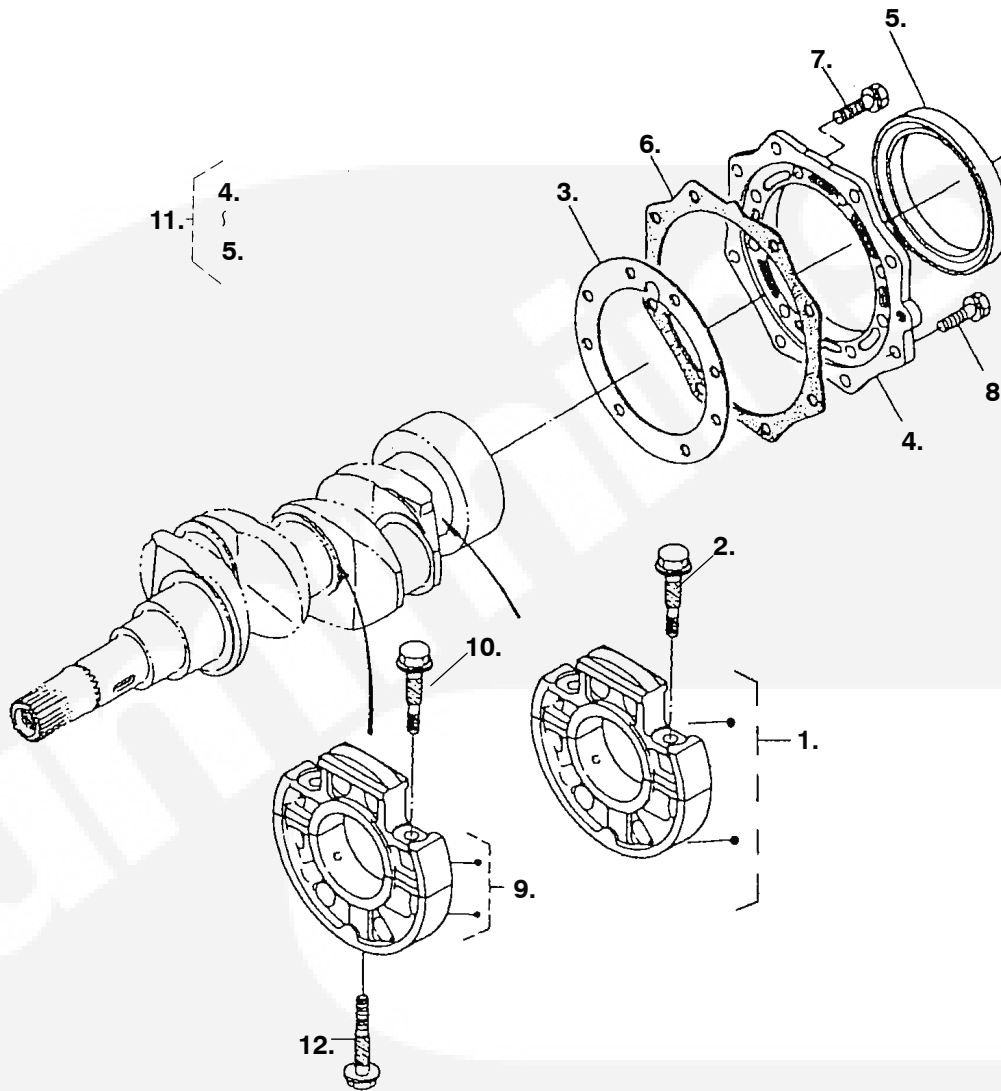


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5554	4	Tappet Spec A-C	9.	185-2386	2	Bolt
	181-9159	4	Begin Spec D	10.	181-9076	1	+Gear, Idle (Includes Bush)
2.	185-5555	4	Rod, Push	11.	185-7385	1	+Bush
3.			Camshaft Assy (Includes Parts Marked *)	12.	185-5563	1	+Collar, Idle Gear
	185-7384	1	Spec A-C	13.	185-5564	1	+Ring, Snap
	105-0768	1	Begin Spec D	14.	185-5565	1	+Shaft, Idle Gear
4.	185-5558	1	*Screw, Set (Spec A-B)	15.	185-2387	3	Bolt
5.	185-5924	1	*Ball (Spec C-D)	16.	181-9077	1	Gear, Idle (Includes Parts Marked +)
6.	185-7075	1	*Gear, Cam				
7.	185-5560	1	*Key, Feather				
8.	185-5561	1	*Stopper, Camshaft				

* - Parts Included in Camshaft Assy.

+ - Parts Included in Idle Gear Assy.

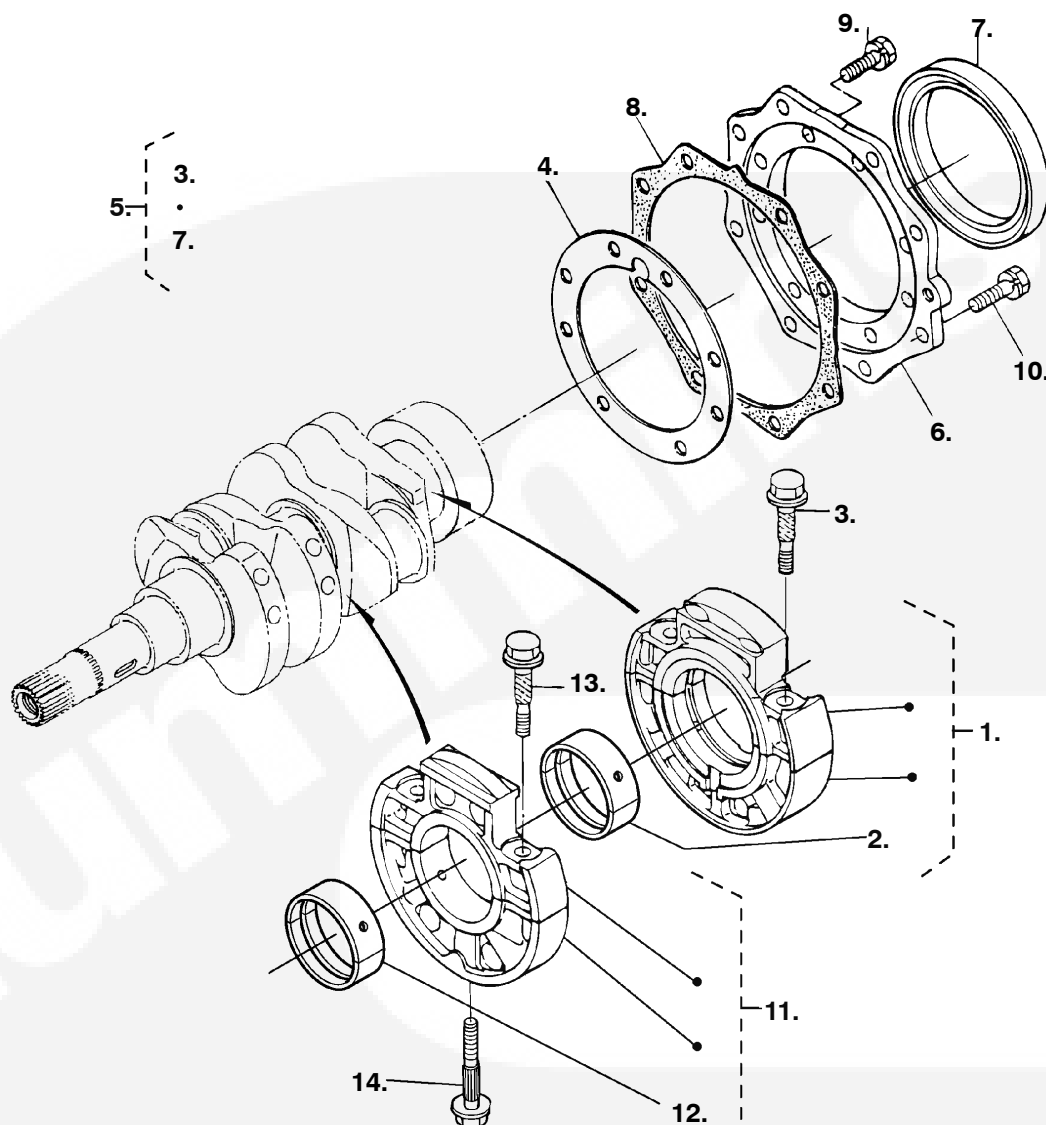
Main Bearing Case (Spec A-C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-7072	1	Case, Main Bearing (Includes Pins)	6.	185-7383	1	Gasket
2.	185-5575	2	Bolt, Flange	7.	185-2390	8	Bolt
3.			Gasket, Bearing Case	8.	185-2559	8	Bolt
	185-5438	1	Spec A-C	9.	185-5517	1	Case, Main Bearing
4.	185-5516	1	Cover, Bearing Case	10.	185-5515	2	Bolt, Bearing Case
5.	185-5437	1	Seal, Oil	11.	185-7073	1	Cover, Bearing Case
				12.	185-5519	1	Bolt, Bearing Case

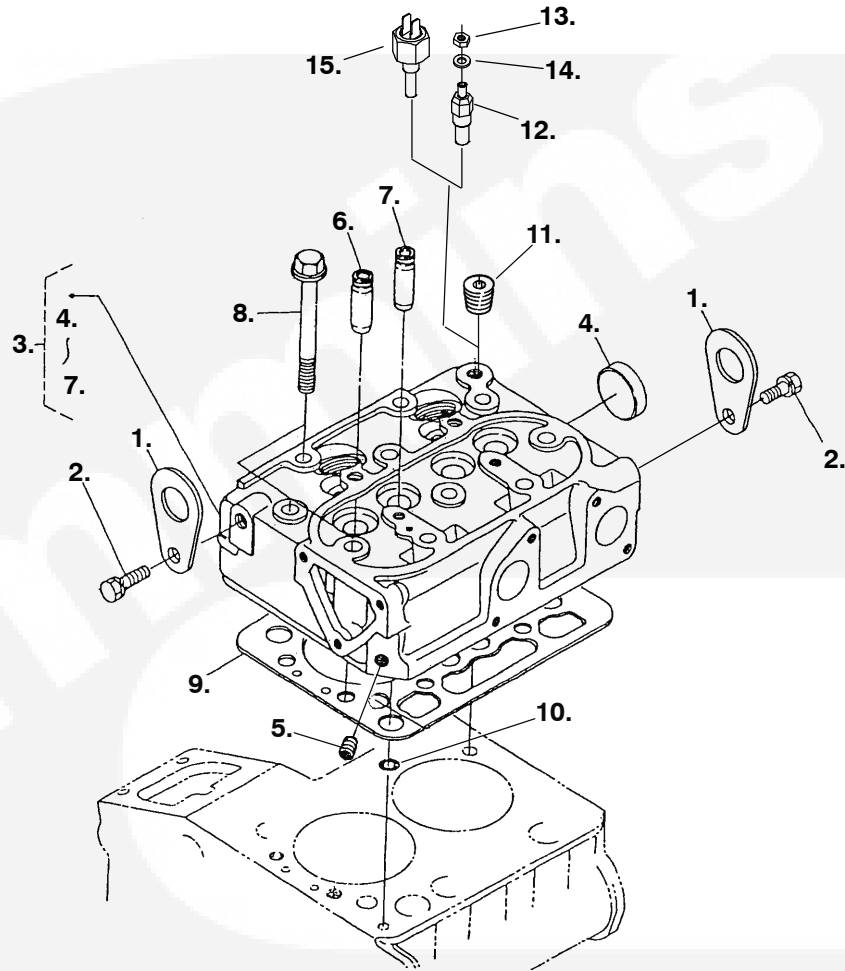


Main Bearing Case (Begin Spec D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	232-4193	1	Case, Main Bearing (Includes Pins)	8.	101-0872	1	Gasket, Case Cover
2.			Bearing Main	9.	185-2390	8	Screw,
	185-5580	1	Std Set	10.	185-2559	8	Screw,
	185-2026	1	0.20mm Set	11.	232-4192	1	Case, Main Bearing
	185-5357	1	0.40mm Set	12.			Bearing ,Main
3.	185-5515	2	Screw, Bearing Case		185-5581	1	Std Set
4.	185-5438	1	Gasket, Bearing Case		185-5360	1	0.20mm Set
5.	185-7073	1	Cover, Bearing Case		181-9072	1	0.40mm Set
6.	185-5516	1	Cover, Bearing Case	13.	185-5515	1	Screw, Bearing Case
7.	185-5437	1	Seal ,Oil	14.	185-5519	1	Bolt, Bearing Case

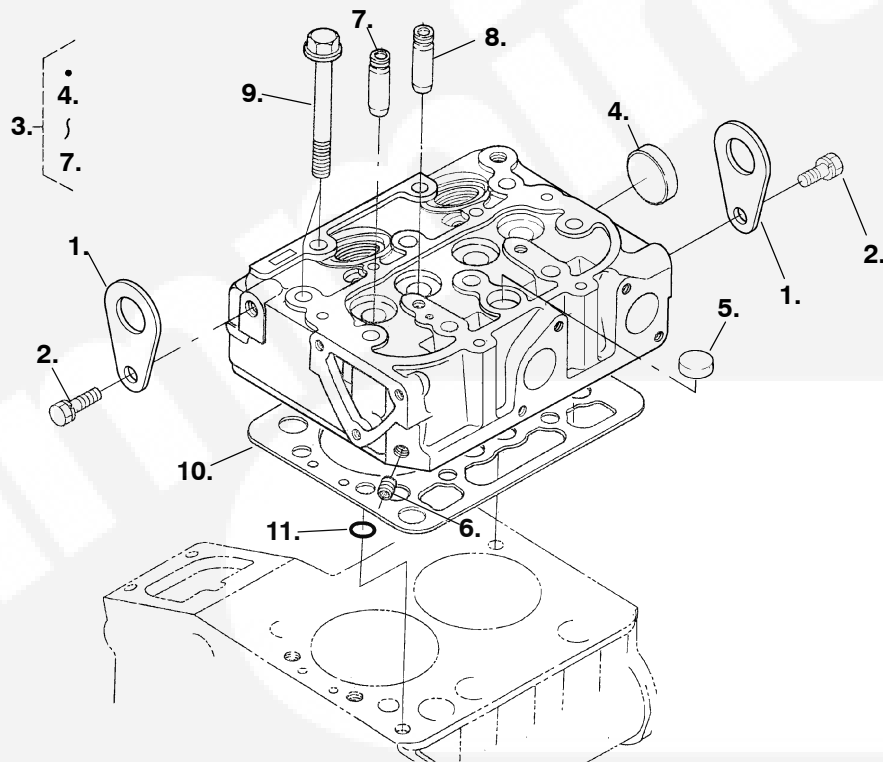
Cylinder Head (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-2414	2	Hook, Engine	11.	185-5502	1	Plug
2.	185-2363	2	Bolt	12.	193-0318	1	Sender, Water Temperature (Includes Nut and Washer)
3.	184-0024	1	Head, Cylinder (Includes Cap, Plug and Guides)	13.	871-0010	1	Nut, Hex Brass (10-32)
4.	185-2411	1	Cap, Sealing	14.	526-0049	1	Washer, Brass Flat (#10) (Standard Ground)
5.	185-2188	1	Plug	15.	193-0491	1	*Sender, Water Temperature
6.	185-5500	2	Guide, Inlet Valve				
7.	185-5501	2	Guide, Exhaust Valve				
8.	185-5503	1	Bolt, Cylinder Head				
9.	184-0025	1	Gasket, Cylinder Head				
10.	185-2095	1	O'Ring				

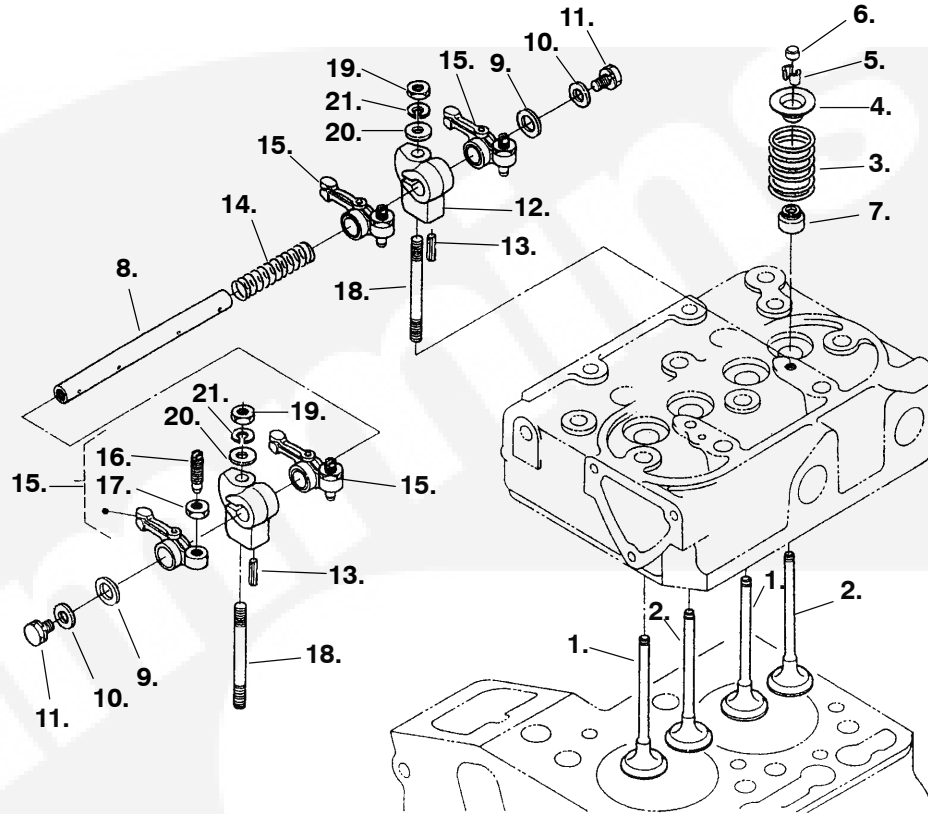
* - Part Included in Isolated Ground Kit Listed on Relay
(Isolated Ground) Page.

Cylinder Head (Begin Spec C-D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-2414	2	Hook, Engine	7.	185-5500	2	Guide, Inlet Valve
2.	185-2563	2	Bolt	8.	185-5501	2	Guide, Exhaust Valve
3.		1	Head, Cylinder (Includes Cap, Plug and Guides)	9.	185-5503	10	Bolt, Cylinder Head
	110-4129	1	Spec C	10.	185-5339	1	Gasket, Cylinder Head
	110-4095	1	Begin Spec D	11.	185-2095	1	O'Ring (Spec A-C)
4.	185-2411	1	Cap, Sealing	* - Part Included in Isolated Ground Kit Listed on Relay (Isolated Ground) Page.			
5.	185-2413	1	Cap, Sealing				
6.	185-2188	1	Plug				

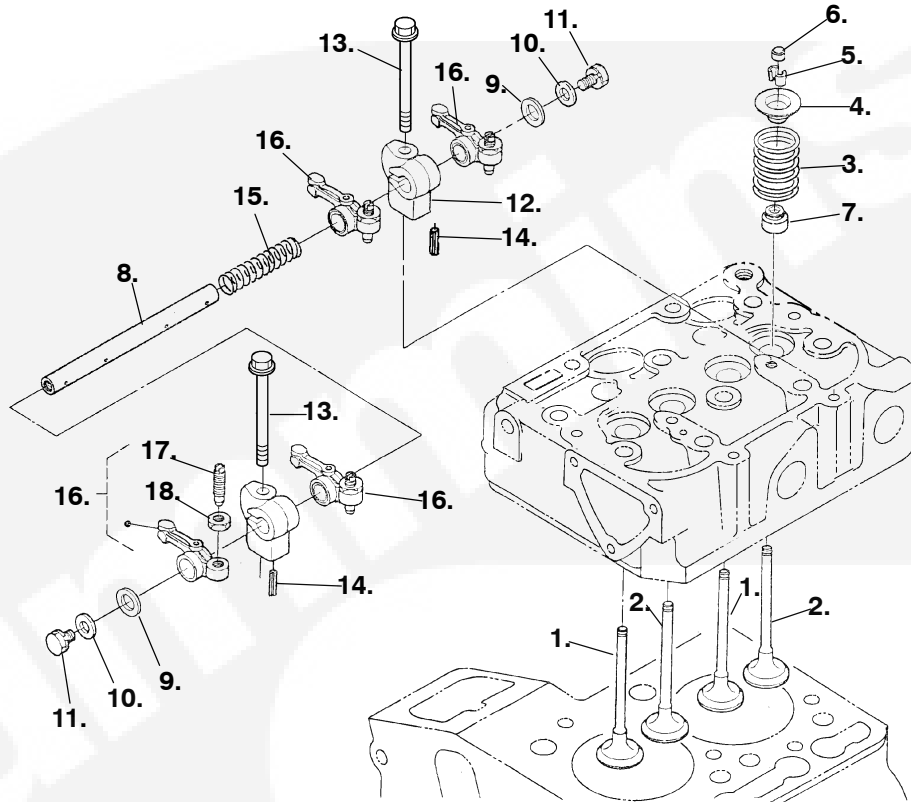
Rocker Arm (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5537	2	Valve, Inlet
2.	185-5538	2	Valve, Exhaust
3.	185-5539	4	Spring, Valve
4.	185-5540	4	Retainer, Spring
5.	185-5541	4	Collet, Valve Spring
6.	185-5542	4	Cap, Valve
7.	185-5348	4	Seal, Valve Stem
8.	185-7394	1	Shaft, Rocker Arm
9.	185-7086	2	Washer
10.	185-7395	2	Washer, Plain
11.	185-2386	2	Bolt

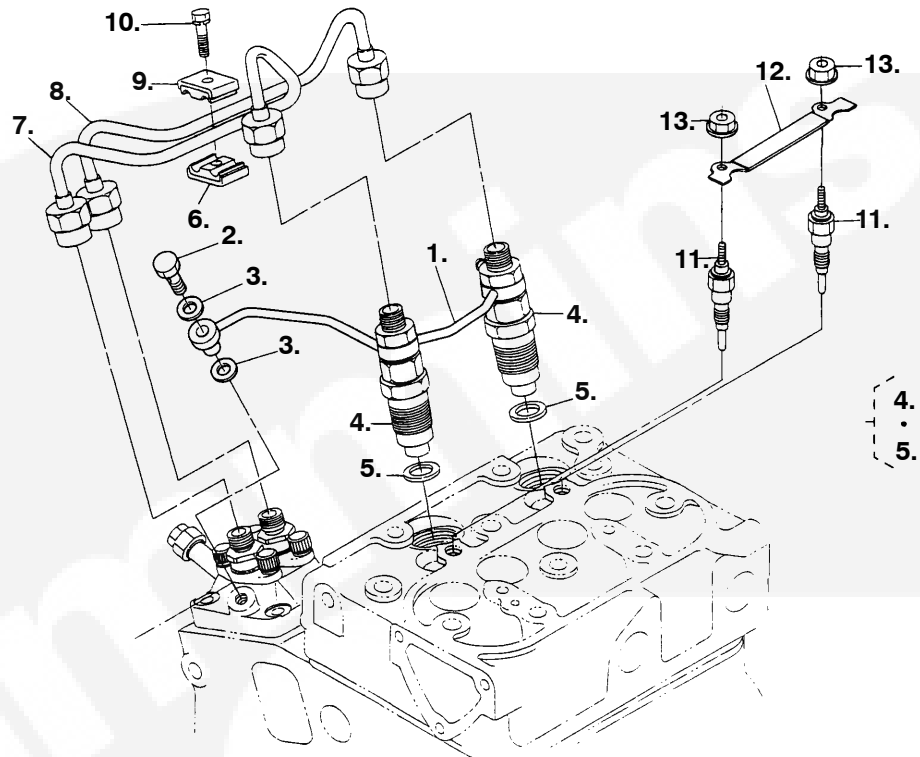
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12.	185-5546	2	Bracket, Rocker Arm
13.	185-2351	2	Pin, Spring
14.	185-5550	1	Spring, Rocker Arm
15.	185-5551	4	Arm Assy, Rocker
16.	185-5552	4	Screw, Adjusting
17.	185-5553	4	Nut
18.	185-5547	2	Stud
19.	185-4255	2	Nut
20.	740-1004	2	Washer, Plain
21.	185-2380	2	Washer, Spring

Rocker Arm (Begin Spec C-D)



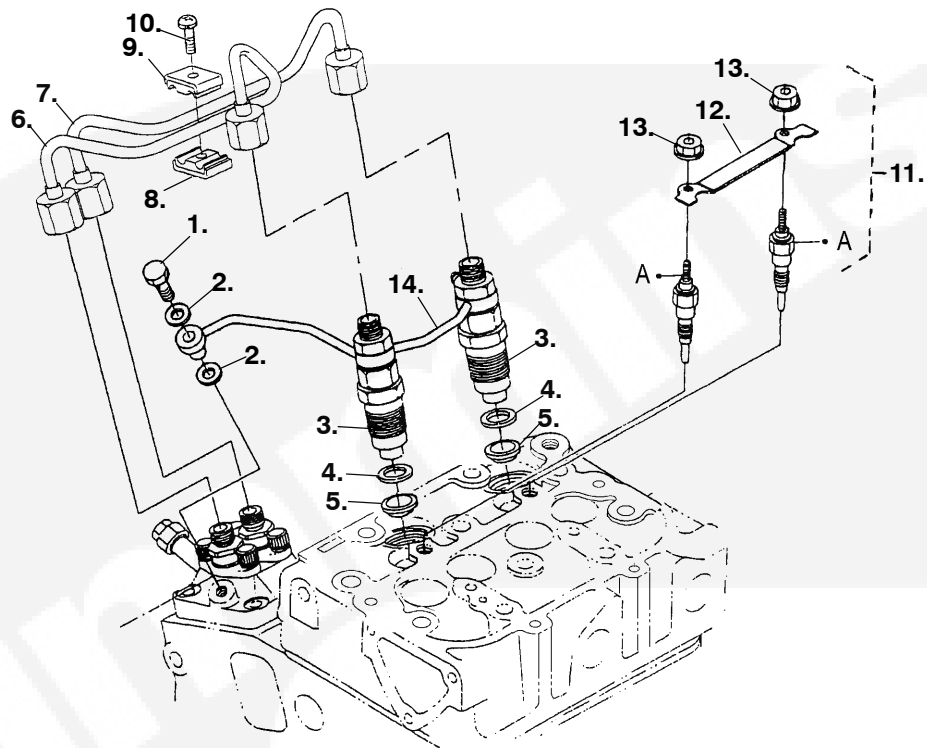
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5537	2	Valve, Inlet	8.	185-7394	1	Shaft, Rocker Arm
	110-3990	2	Spec C	9.	185-7086	2	Washer
2.			Valve, Exhaust	10.	185-7395	2	Washer, Plain
	185-5538	2	Spec C	11.	185-2386	2	Bolt
	110-3991	2	Begin Spec D	12.	181-9251	2	Bracket, Rocker Arm
3.	185-5539	4	Spring, Valve	13.	181-9012	2	Screw, Flange Head
4.	185-5540	4	Retainer, Spring	14.	185-2351	2	Pin, Spring
5.	185-5541	4	Collet, Valve Spring	15.	185-5550	1	Spring, Rocker Arm
6.	185-5542	4	Cap, Valve	16.	185-5551	4	Arm Assy, Rocker
7.	185-5348	4	Seal, Valve Stem	17.	185-5552	4	Screw, Adjusting
				18.	185-5553	4	Nut

Nozzle Holder (Spec A-B)



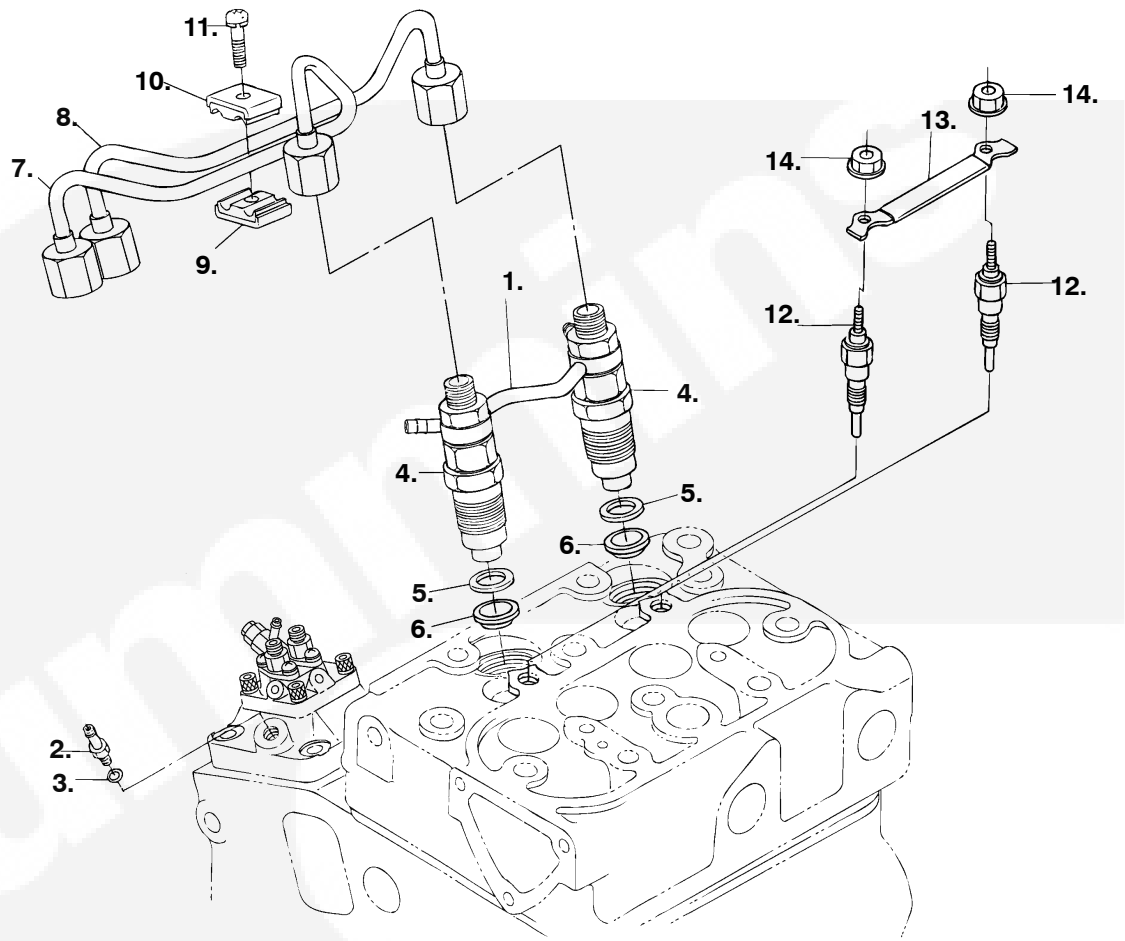
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	184-0035	1	Kit, Nozzle Holder (Includes Nozzle Holder and Gasket)	7.	184-0041	1	Pipe, Injection
1.	184-0062	1	Pipe Assy, Overflow	8.	184-0042	1	Pipe, Injection
2.	185-7082	1	Screw, Air Bleeder	9.	185-2345	1	Clamp, Top Pipe
3.	185-2284	2	Gasket	10.	185-2385	1	Screw, Pan Head Machine
4.	185-6738	2	Holder, Nozzle	11.	185-5421	2	Plug, Glow (HR5)
5.	185-5337	2	Gasket	12.	185-5614	1	Cord, Glow Plug
6.	185-5612	1	Clamp, Bottom Pipe	13.	185-5612	2	Nut, Flange

Nozzle Holder (Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	181-9084	1	Kit, Nozzle Holder (Includes Nozzle Holder and Gasket)	7.	181-9168	1	Pipe, Injection
1.	185-7082	1	Screw, Air Bleeder	8.	185-5612	1	Clamp, Bottom Pipe
2.	185-2284	2	Gasket	9.	185-2345	1	Clamp, Top Pipe
3.	185-6738	2	Holder, Nozzle	10.	185-2385	1	Screw, Pan Head Machine
4.	185-5337	2	Gasket	11.	185-5421	2	Plug, Glow (HR5)
5.	185-5985	2	Seal, Heat	12.	185-5614	2	Cord, Glow Plug
6.	181-9167	1	Pipe, Injection	13.	185-5615	2	Nut, Flange
				14.	181-9235	1	Assy Pipe, Overflow

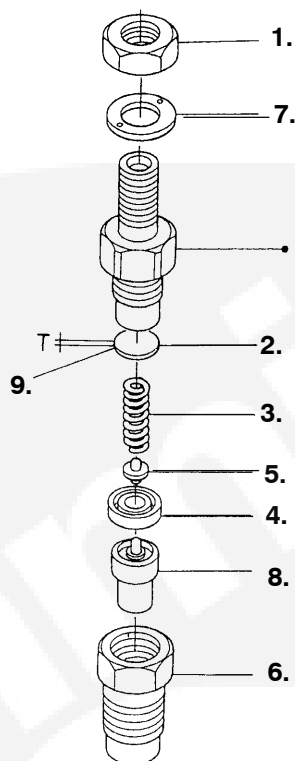
Nozzle Holder (Begin Spec D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	181-9084	2	Kit, Nozzle Holder (Includes Nozzle Holder and Gasket)	7.	501-1128	1	Pipe, Injection
1.	501-0928	1	Pipe Assy, Overflow	8.	501-1130	1	Pipe, Injection
2.	185-7082	1	Screw, Air Bleeder	9.	185-5612	1	Clamp, Bottom Pipe
3.	185-2284	2	Gasket	10.	185-2345	1	Clamp, Top Pipe
4.	185-6738	2	Holder, Nozzle	11.	185-2385	1	Screw, Pan Head Machine
5.	185-5337	2	Gasket	12.	185-5421	2	Plug, Glow (HR5)
6.	185-5985	2	Seal, Heat	13.	185-5614	2	Cord, Glow Plug
				14.	185-5615	2	Nut, Flange

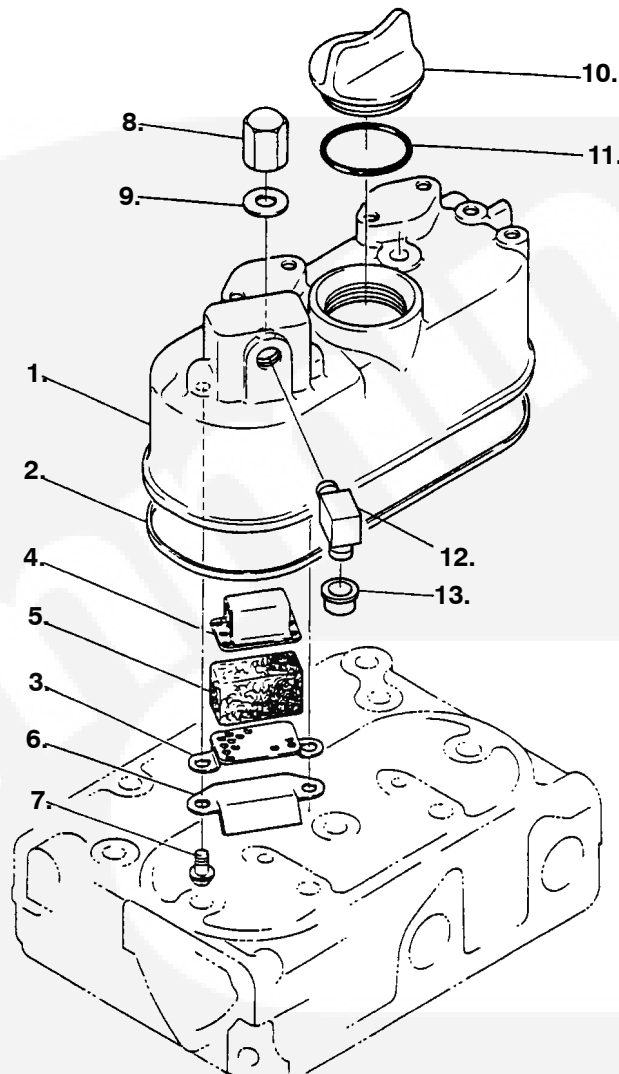


Nozzle Holder Components



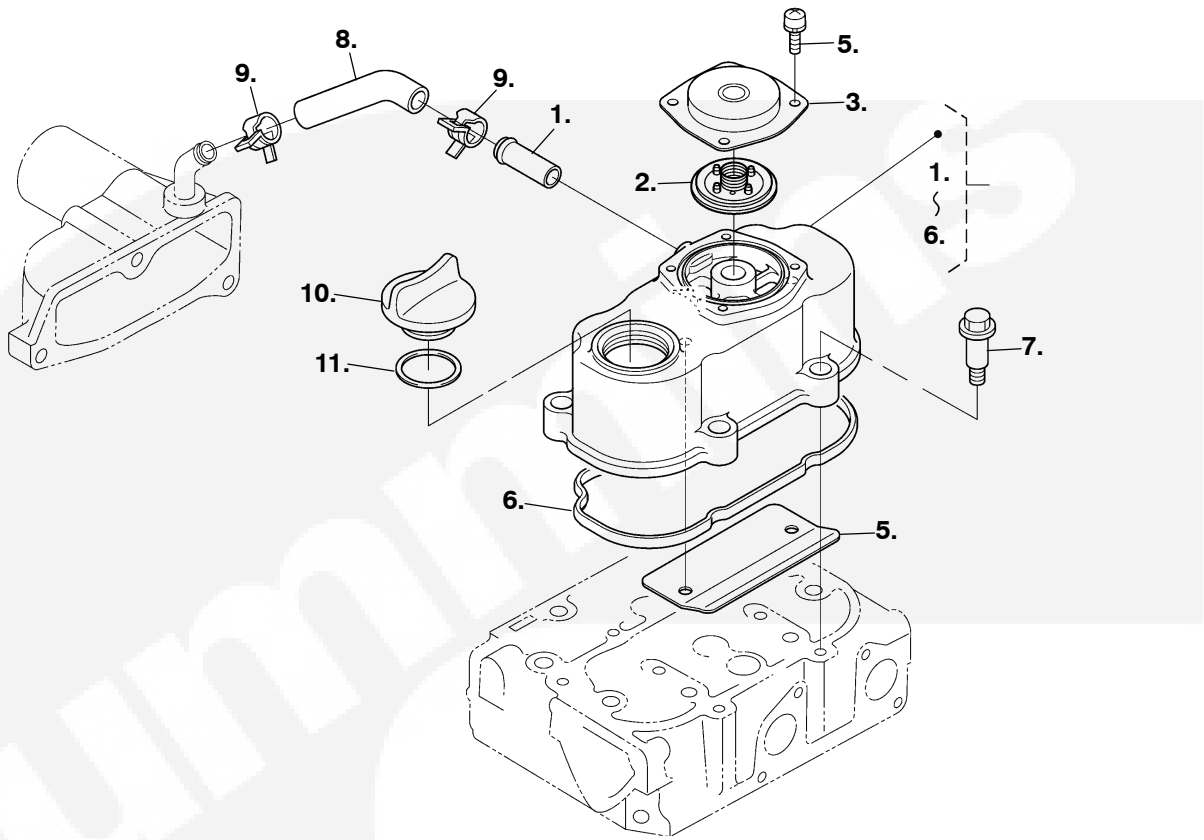
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6738	1	Holder Assy, Nozzle		185-5381	2	1.325 mm
1.	185-5616	2	Nut, Hex		185-5382	2	1.350 mm
2.	185-5364	2	Washer, Adjusting		185-5383	2	1.375 mm
3.	185-5617	2	Spring		185-5384	2	1.400 mm
4.	185-5618	2	Spacer		185-5385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

Cylinder Head Cover (Spec A)



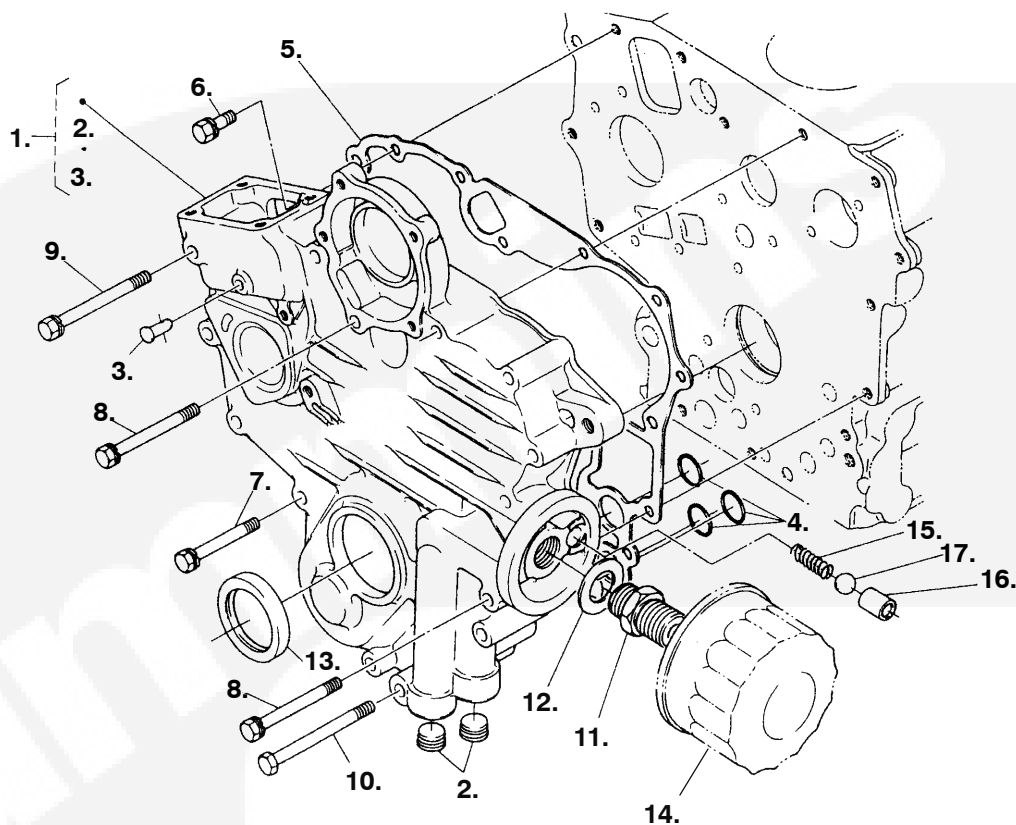
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5527	1	Cover, Cylinder Head	8.	185-5529	1	Nut
2.	185-5528	1	Gasket, Cylinder Head Cover	9.	185-2284	1	Gasket
3.	185-5521	1	Plate, Breather Element	10.	185-5407	1	Cover, Oil Fill
4.	185-5522	1	Plate, Breather Element	11.	185-7426	1	O'Ring
5.	185-5523	1	Element, Breather	12.	184-0065	1	Joint
6.	185-5524	1	Shield, Breather Oil	13.	185-6981	1	Cap
7.	185-5747	2	Screw				

Cylinder Head Cover (Begin Spec C – D)



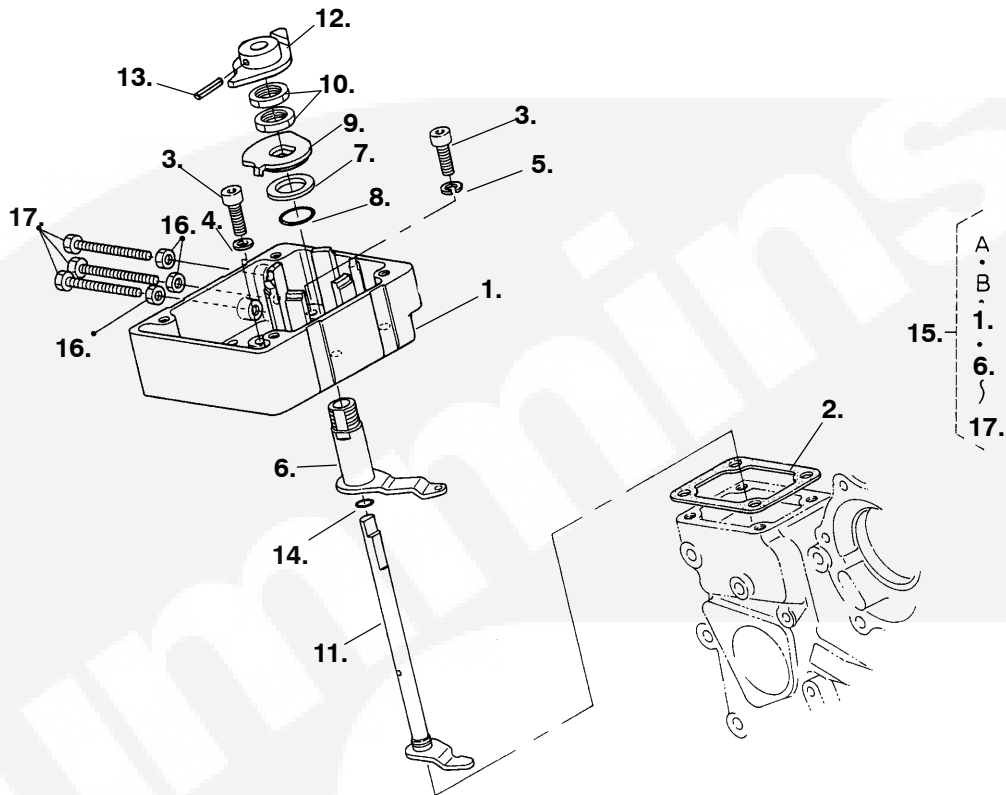
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-6445	1	Pipe, Water Return	4.	185-2384	4	Screw, with Washer
2.	181-9240	1	Comp. Valve Breather	5.	181-9248	1	Shield, Breather (Spec C)
	123-2264	1	Spec C	6.	181-9246	1	Gasket, Rocker Cover
3.	123-2263	1	Begin Spec D	7.	800-6330	4	Bolt
	181-9238	1	Cover, Breather	8.	181-9255	1	Tube, Breather
			Spec C	9.	181-9024	2	Clamp, Hose
			Begin Spec D	10.	123-2428	1	Plug, Oil Filler
				11.	185-7426	1	O'Ring

Gearcase (Spec A-D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.			Gearcase (Includes Plugs and Pin)	8.	185-5507	5	Bolt
	181-9156	1	Spec A-C	9.	185-2397	1	Bolt
	103-0843	1	Begin Spec D		185-2397	1	Begin Spec D
2.	185-2234	2	Plug	10.	185-2398	1	Bolt
3.	185-5506	1	Pin, Start Spring	11.	185-2124	1	Joint, Pipe
4.	184-0015	3	O'Ring (Spec A-C)	12.	185-5508	1	Washer, Plain
5.			Gasket, Gearcase	13.	185-5410	1	Seal, Oil
	185-7382	1	Spec A-C	14.			Filter, Oil
	103-0860	1	Begin Spec D		185-7444	1	Spec A-D
6.	185-2389	1	Bolt	15.	185-5509	1	Spring
7.	185-7069	8	Bolt	16.	185-5510	1	Seat, Valve
				17.	181-9023	1	Ball

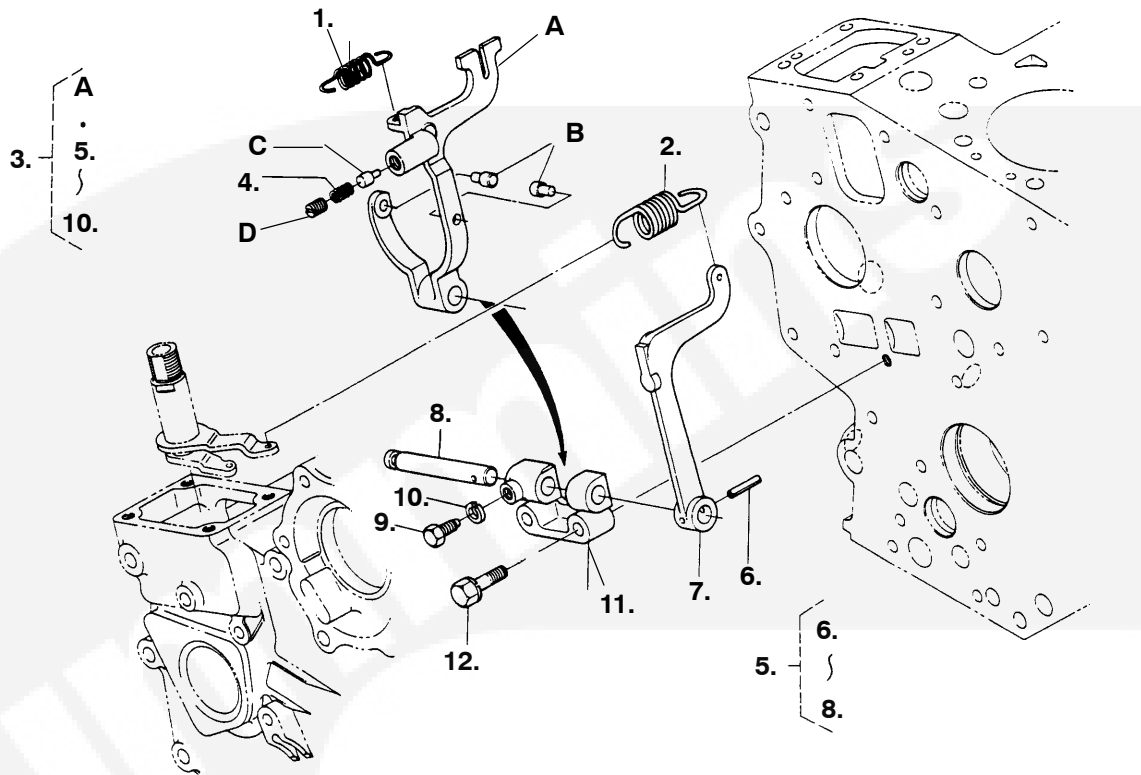
Speed Control Plate



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	184-0055	1	*Plate, Speed Control	12.	184-0059	1	*Lever, Engine Stop
2.	185-7080	1	Gasket	13.	185-5696	1	*Pin, Spring
3.	184-0013	4	Screw, Hex Head Cap W/Lock Washer (M6 x 18mm)	14.	184-0017	1	*O'Ring
4.	185-6759	2	Washer, Spring	15.	185-7267	1	Plate Assy, Speed Control
5.	185-2284	2	Gasket	16.	185-4255	3	Nut
6.	185-6939	1	*Lever, Governor	17.	181-9205	3	Screw
7.	184-0057	1	*Collar				
8.	184-0019	1	*O'Ring				
9.	184-0056	1	*Lever, Speed Control (Includes Parts Marked *)				
10.	185-5693	2	*Nut, Jam Hex				
11.	184-0060	1	*Shaft, Lever				

* - Parts Included in Speed Control Plate Assy.

Fork Lever

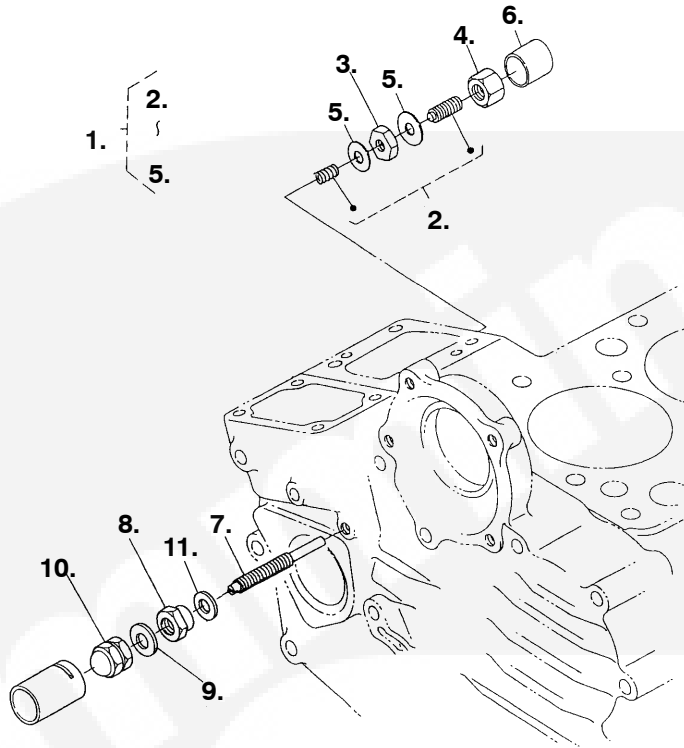


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5698	1	Spring, Start	7.	185-5702	1	*Lever, Outer Fork
2.	184-0054	1	Spring, Governor	8.	185-5703	1	*Shaft
3.	150-2996	1	Lever Assy, Fork (Includes Parts Marked *)	9.	181-9039	1	*Bolt
4.	181-9203	1	Spring	10.	185-6999	1	*Washer, Spring Lock
5.	185-5701	1	*Lever Assy, Outer Fork (Includes Pin, Fork Lever, and Shaft)	11.	185-5704	1	Holder, Fork Lever
6.	185-5696	1	*Pin, Spring	12.	185-2393	2	Bolt

* - Parts Included in Fork Lever Assy.

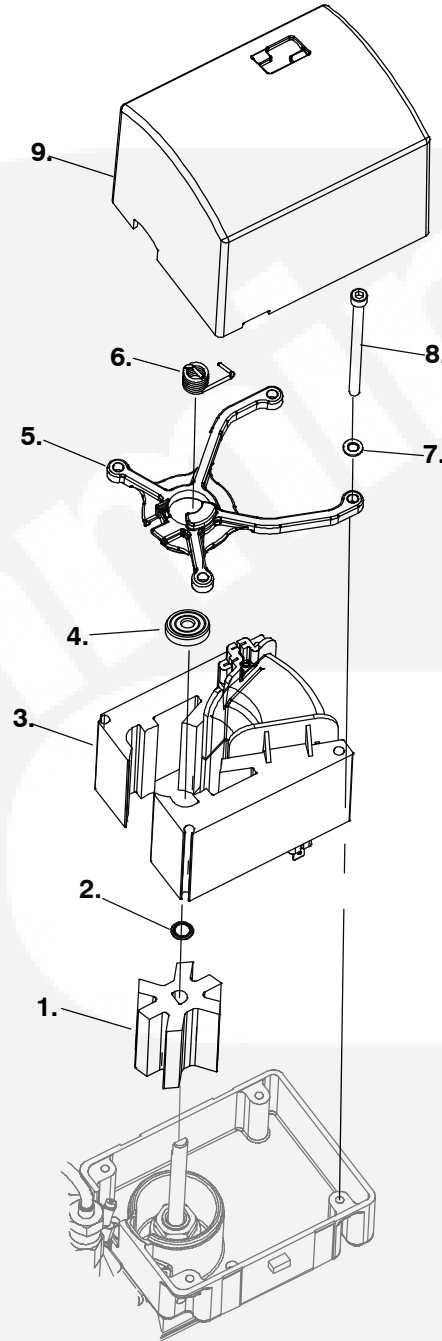


Engine Stop Lever



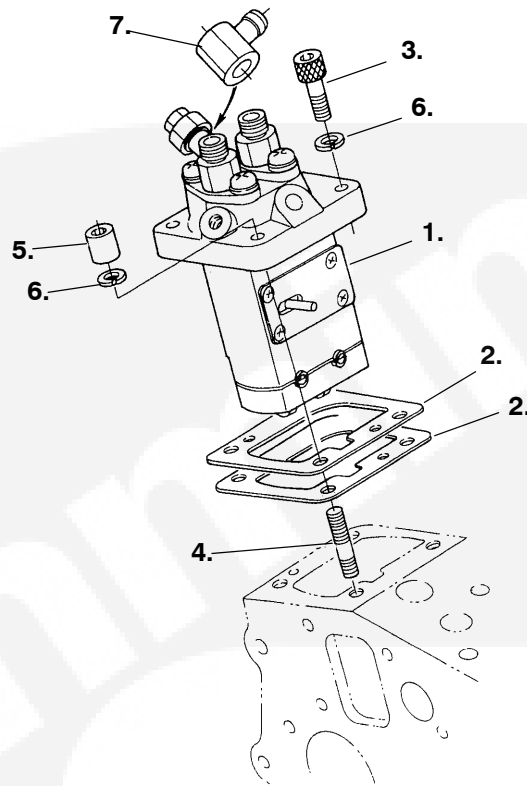
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5679	1	Apparatus Assy, Idle (Includes Bolt, Nuts and Gaskets)	6.	185-5682	1	Cap
2.	185-5680	1	Bolt Assy, Adjusting	7.	185-7078	1	Bolt, Adjusting
3.	185-2180	1	Nut	8.	185-5684	1	Nut
4.	185-5681	1	Nut	9.	185-2284	1	Gasket
5.	185-2338	2	Gasket	10.	185-6931	1	Nut
				11.	185-7313	1	Gasket

Governor



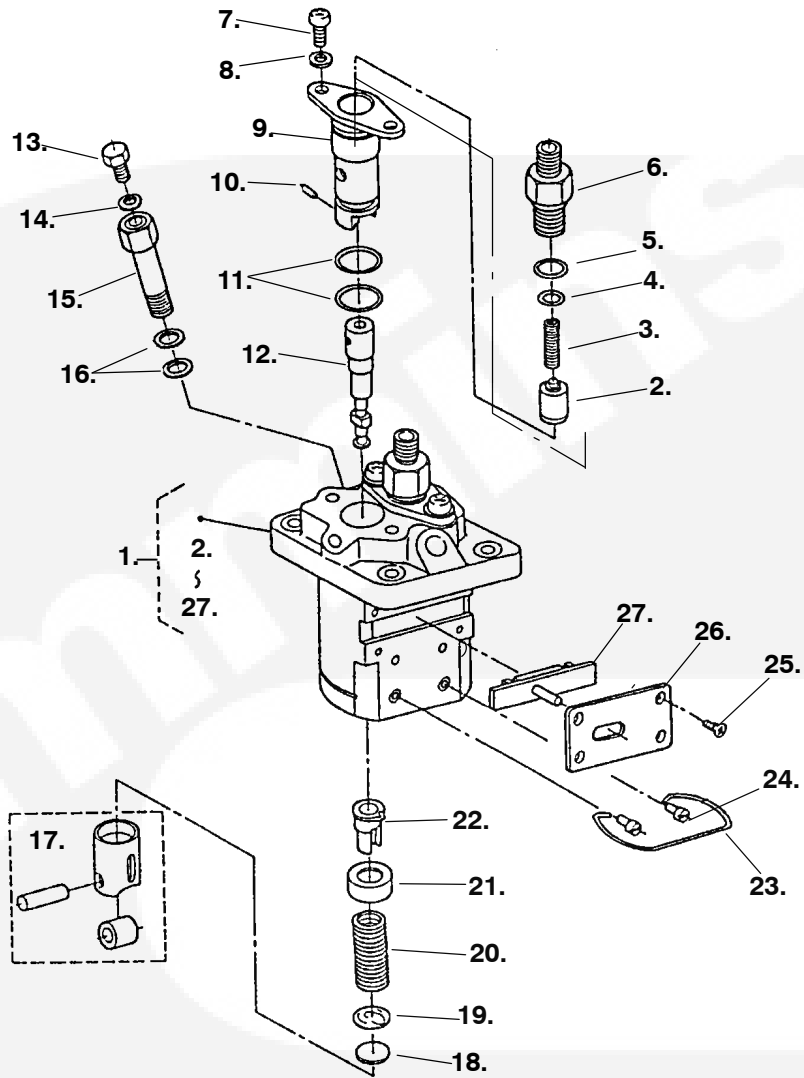
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	150-2639	1	Rotor, Governor	6.	150-2724	1	Spring, Governor
2.	518-0672	1	Ring, Retainer	7.	740-1002	4	Washer, Flat (M5)
3.	150-2630	1	Stator	8.	815-0877	4	Screw, Socket Head Cap
4.	510-0184	1	Bearing, Ball	9.	150-2641	1	Cover, Governor
5.	150-2643-S0	1	Carrier (Includes Carrier and Ball Bearing)				

Injection Pump (Spec A)



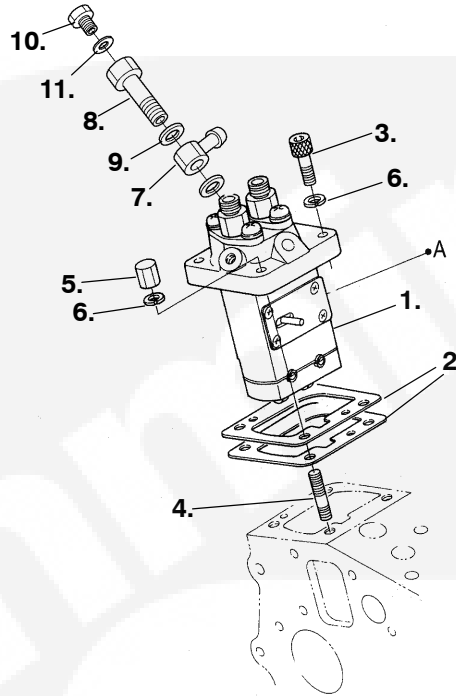
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5422	1	Pump Assy, Injection	3.	185-5623	3	Bolt, Hex Socket Head
2.			Shim, Injection Pump	4.	185-5624	1	Stud
	185-6735	1	0.20mm	5.	185-5625	1	Nut
	185-6736	1	0.25mm	6.	185-6759	4	Washer, Spring
	185-6737	1	0.30mm	7.	185-5626	1	Joint, Eye

Injection Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5422	1	Pump Assy, Injection	15.	185-5660	1	Screw, Follow
2.	185-5639	2	Valve, Delivery	16.	185-5661	1	O'Ring
3.	185-5640	2	Spring, Delivery Valve	17.	185-5649	2	Tappet
4.	185-5641	2	Gasket, Delivery Valve	18.	185-5655	2	Shim
5.	185-5643	2	O'Ring	19.	185-5654	2	Seat, Lower Spring
6.	185-5642	2	Holder, Delivery Valve	20.	185-5652	2	Spring, Plunger
7.	185-5647	4	Screw, Round Head Machine	21.	185-5653	2	Seat, Upper Spring
8.	185-5648	4	Washer	22.	185-5659	2	Sleeve, Control
9.	185-5644	2	Flange, Sleeve	23.	185-5651	1	Wire, Retainer
10.	185-5645	2	Pin, Joint	24.	185-5650	2	Pin
11.	185-5646	4	O'Ring	25.	185-5658	4	Screw, Machine
12.	185-5485	2	Plunger, Pump	26.	185-5657	1	Plate
13.	185-5662	1	Screw	27.	185-5656	1	Rack, Control
14.	185-5663	1	Gasket				

Injection Pump (Begin Spec C-D)

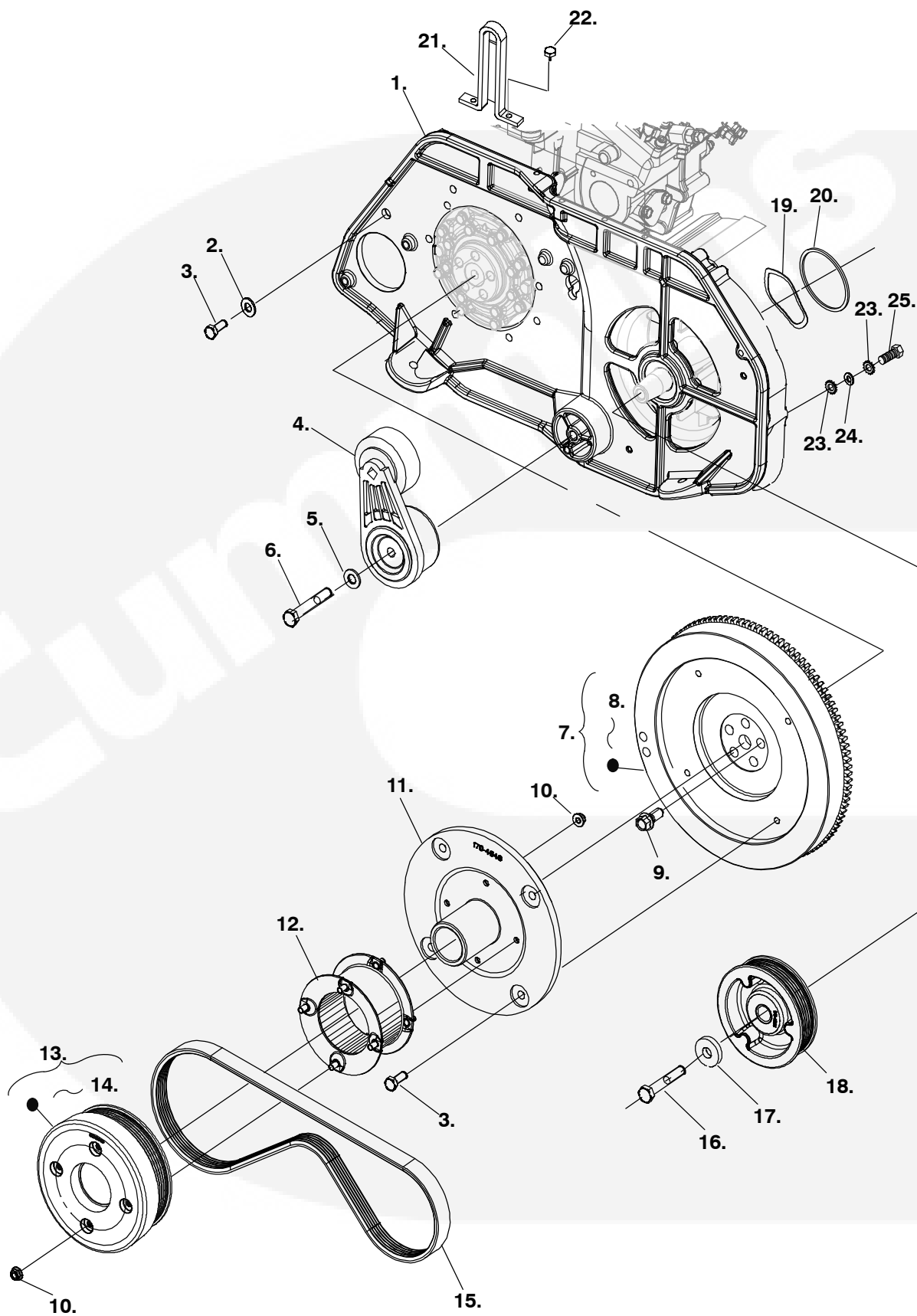


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5422	1	Pump Assy, Injection	800-6549	1	Begin Spec D	
2.			Shim, Injection Pump	4.	185-5624	1	Stud
	147-0981	1	0.175mm	5.	185-5625	1	Nut
	185-6735	1	0.20mm	6.	185-6759	4	Washer, Spring (Spec C)
	185-6736	1	0.25mm	7.	185-5626	1	Joint, Eye
	185-6737	1	0.30mm	8.	185-5660	1	Screw, Hollow
	147-0980	1	0.35mm	9.	185-5661	1	Gasket
3.			Bolt, Hex Socket Head	10.	185-5662	1	Screw
	185-5623	1	Spec C	11.	185-5663	1	Gasket

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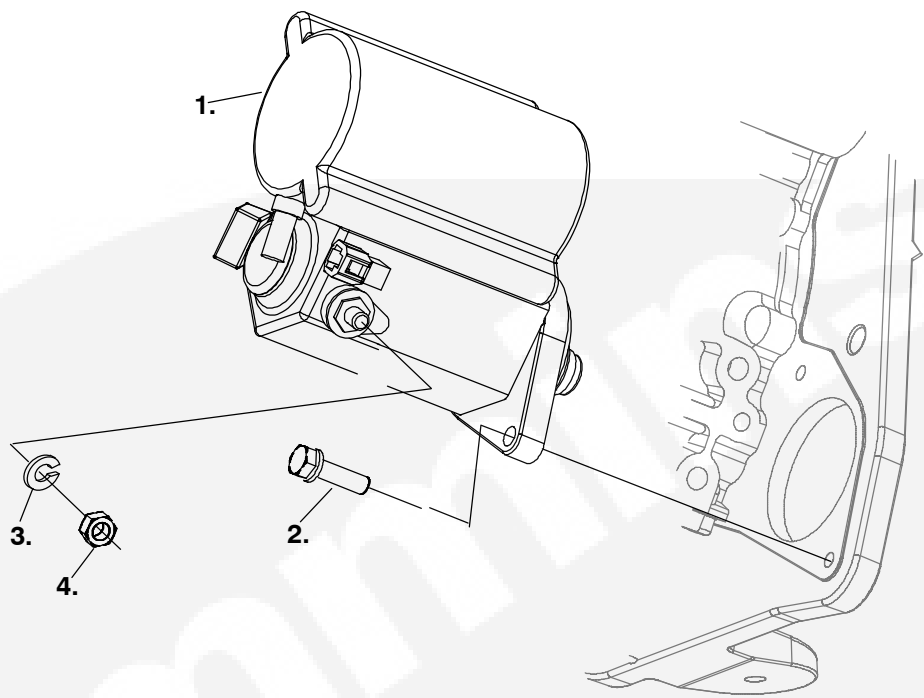
Flywheel



Flywheel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	101-0826-02	1	Adapter, Engine	14.	510-0202-02	2	Bearing, Sleeve
2.	526-2100	8	Washer, Flat (M8)	15.	511-0196	1	Belt (6 Rib)
3.	800-2057	12	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	16.	800-2093	1	Screw, Hex Head Cap (M10 x 1.5 x 60mm)
4.	190-0757	1	Tensioner, Belt	17.	526-0017	1	Washer, Flat
5.	526-2120	1	Washer, Flat (M10)	18.	512-0205-01	1	Pulley, Generator (Replaces 512-0205-01)
6.	815-0657	1	Screw, Hex Thread Form (3/8-16 x 2.75")	19.	851-0045	1	Washer, Wave
7.	104-1967-01	1	Flywheel Assy (Includes Ring Gear)	20.	509-0420	1	O'Ring
8.	104-1861	1	Gear, Ring	21.	403-4546-02	1	Bracket, Lifting
9.	185-5587	5	Bolt, Flywheel	22.	718-1020	2	Screw, Hex Head Cap (M6 x 1 x 16mm)
10.	870-2065-02	8	Nut, Hex (M6 x 1)	23.	856-0006	2	Washer, ETIT Locking (1/4")
11.	232-4111	1	Hub, Flex Coupling	24.	526-0045	1	Washer
12.	512-0217	1	Coupling	25.	800-6296-01	1	Screw, Hex Flange Head (M6 x 25mm)
13.	512-0248	1	Pulley Assy, Drive (Includes Bearings)				

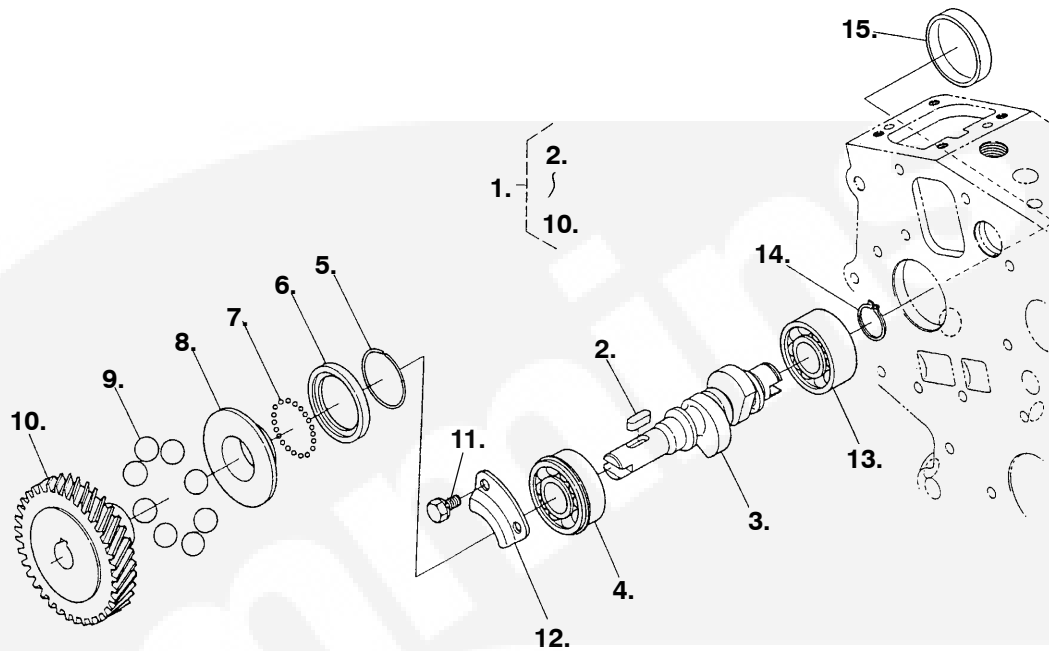
Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	191-2229	1	Starter
2.	815-0781	2	Screw, Hex Washer Head (M8 x 1.25 x 30mm)
3.	850-2008	1	Washer, Split Lock (M8)
4.	750-1006	1	Nut (M8 x 1.25mm)



Fuel Camshaft (Spec A-B)

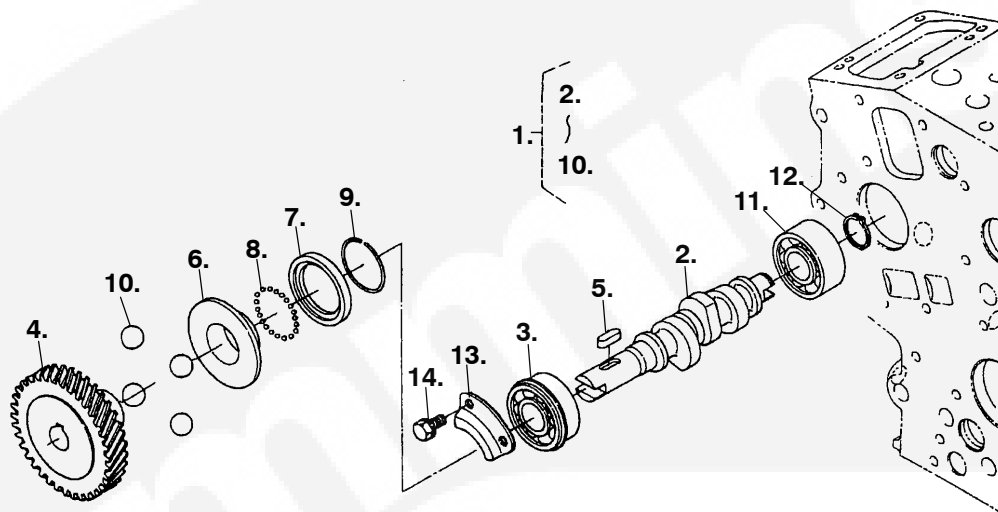


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	184-0049	1	Camshaft Assy, Fuel (Includes Parts Marked *)	10.	185-5630	1	*Gear, Injection Pump
2.	185-2353	1	*Key, Feather	11.	185-2386	2	Bolt
3.	185-5628	1	*Camshaft, Fuel	12.	185-5635	1	Stopper, Fuel Camshaft
4.	185-5629	1	*Bearing, Ball	13.	510-0163	1	Bearing, Ball
5.	185-2163	1	*Circlip, External	14.	185-5634	1	Circlip, External
6.	185-5632	1	*Case, Governor Ball	15.	185-5489	1	Cover, Fuel Camshaft
7.	185-2357	32	*Ball				
8.	185-5631	1	*Sleeve, Governor				
9.	185-5633	8	*Ball				

* - Parts Included in Fuel Camshaft Assy.



Fuel Camshaft (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	184-0049	1	Camshaft Assy, Fuel (Includes Parts Marked *)
2.	185-5628	1	*Camshaft, Fuel
3.	185-5629	1	*Bearing, Ball
4.	185-5630	1	*Gear, Injection Pump
5.	185-2353	1	*Key, Feather
6.	185-5631	1	*Sleeve, Governor
7.	185-5632	1	*Case, Governor Ball
8.	185-2357	32	*Ball

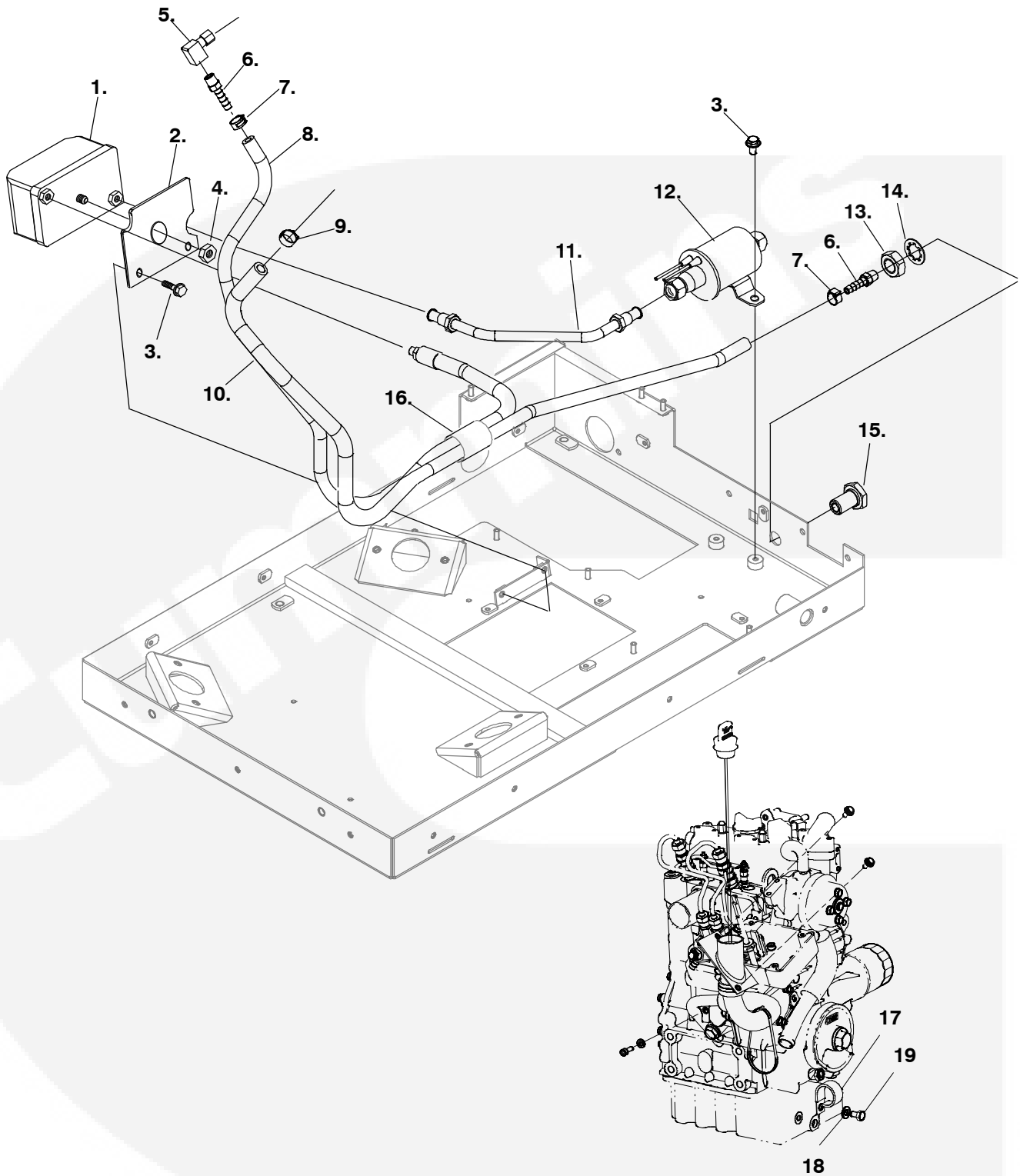
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9.	185-2163	1	*Circlip, External
10.	185-5633	4	*Ball
11.	181-9182	1	Bearing, Ball
12.	185-5634	1	Circlip, External
13.	185-5635	1	Stopper, Fuel Camshaft
14.	185-2386	2	Bolt

* - Parts Included in Fuel Camshaft Assy.

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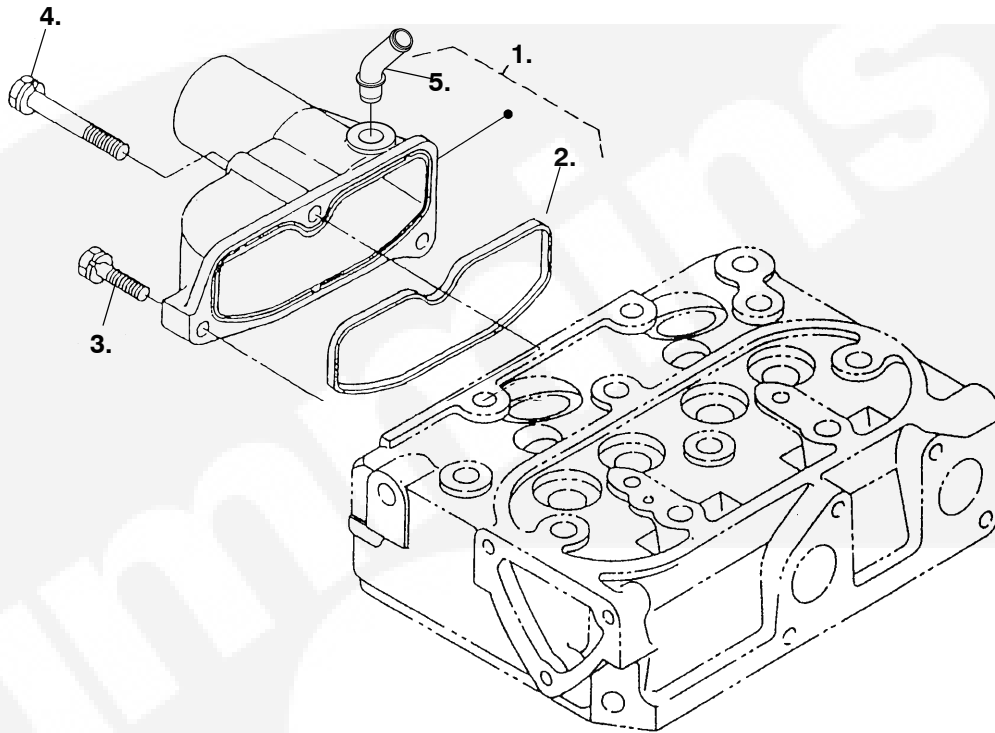
Fuel System (Spec A-D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	149-2513	1	Filter, Fuel	11.	501-0804	1	Line, Fuel
2.	149-2667-02	1	Bracket, Fuel Filter	12.	149-2790	1	Pump, Fuel (Electric)
3.	821-2096-02	4	Screw, Lock Flanged	13.	868-0007	1	Nut, Hex Jam (5/8-18)
4.	870-0257	1	Nut, Self Locking (5/16-18)	14.	854-0028	1	Washer, Locking (5/8ID")
5.	502-1224	1	Elbow, 90° Female	15.	502-1296-02	1	Bulkhead, Fitting (Adapter Plug)
6.	502-1367-01	2	Connector, Hose	16.	327-0923	1	Clamp, Loop (3/4")
7.	503-1951-12	2	Clamp, Hose	17.	327-0923	1	Clamp, J
8.	503-2052-01	1	Hose, Fuel	18.	526-0115	1	Washer, Flat
9.	503-1951-13	1	Clamp, Hose	19.	800-2052	1	Screw, Hex Head
10.	149-2580-02	1	Line, Fuel Injection Pump				

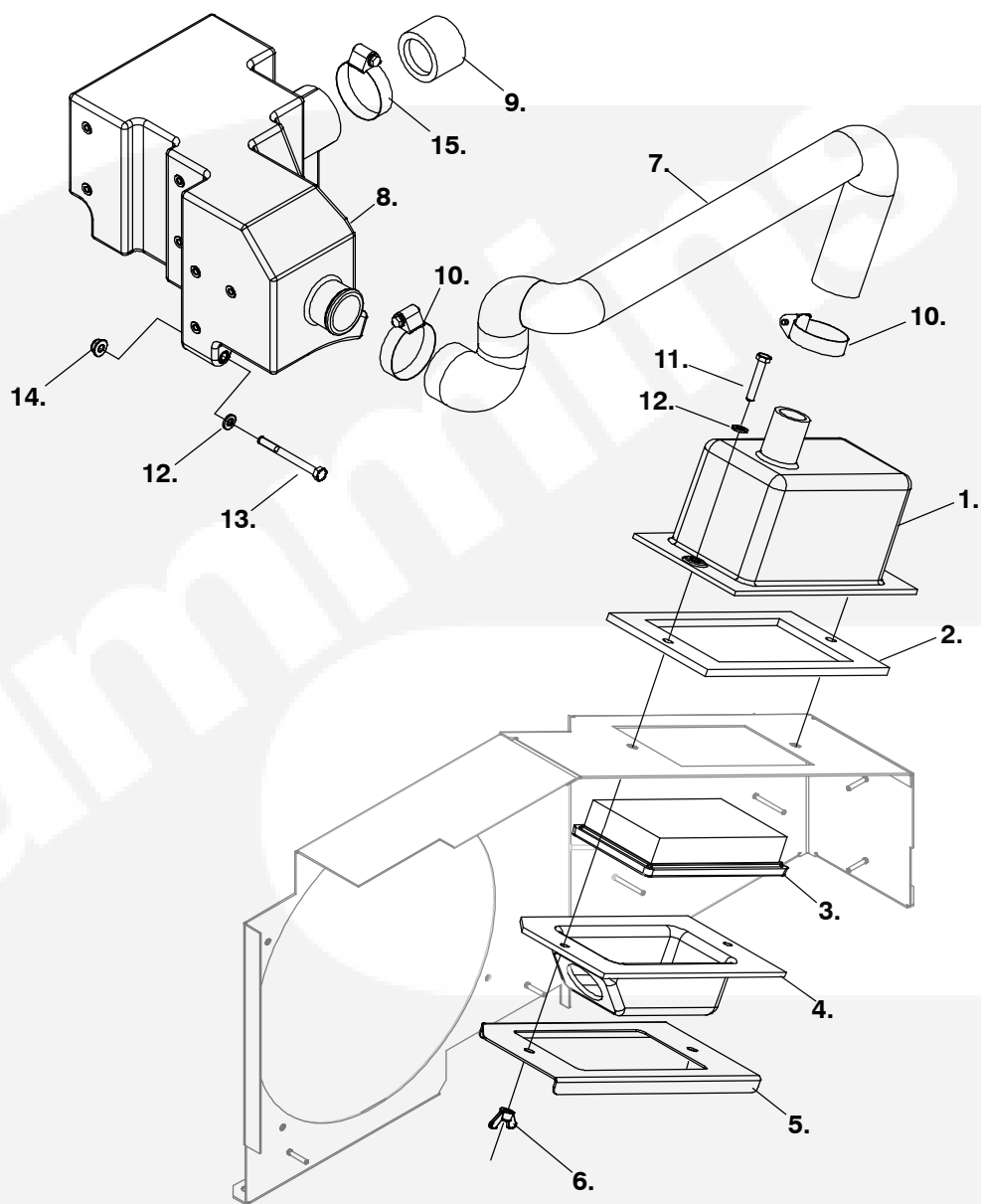


Inlet Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.			Manifold Assy, Inlet (Includes Gasket)	2.	185-5335	1	Gasket, Inlet Manifold
	185-5531	1	Spec A	3.	185-2389	2	Bolt
	181-9244	1	Begin Spec C	4.	185-5833	1	Bolt
				5.	181-9256	1	Pipe, Breather (Begin Spec C)

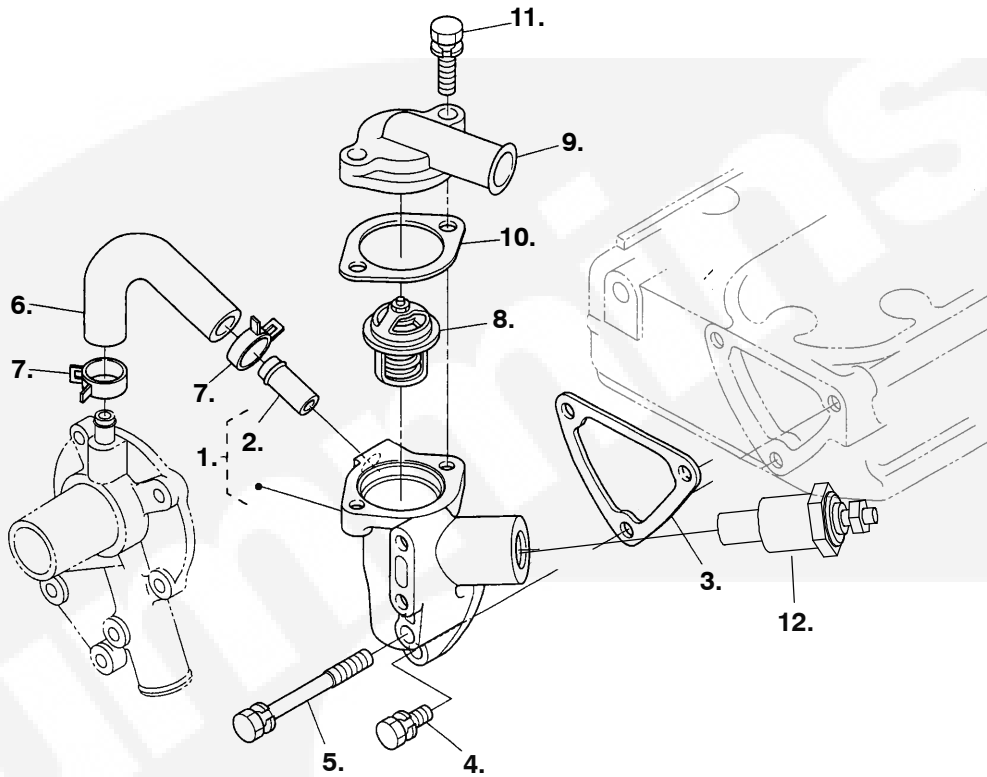
Intake System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	140-3378-02	1	Housing, Air Cleaner
2.	140-3445	1	Gasket, Air Cleaner
3.	140-3351	1	Element, Air Cleaner
4.	140-3377	1	Cover, Air Cleaner
5.	140-3471	1	Clamp, Air Cleaner
6.	865-0030	2	Nut, Wing
7.	503-2311	1	Hose, Air
8.	134-5282-02	1	Resonator, Intake
9.	140-2898	1	Sleeve, Air Intake

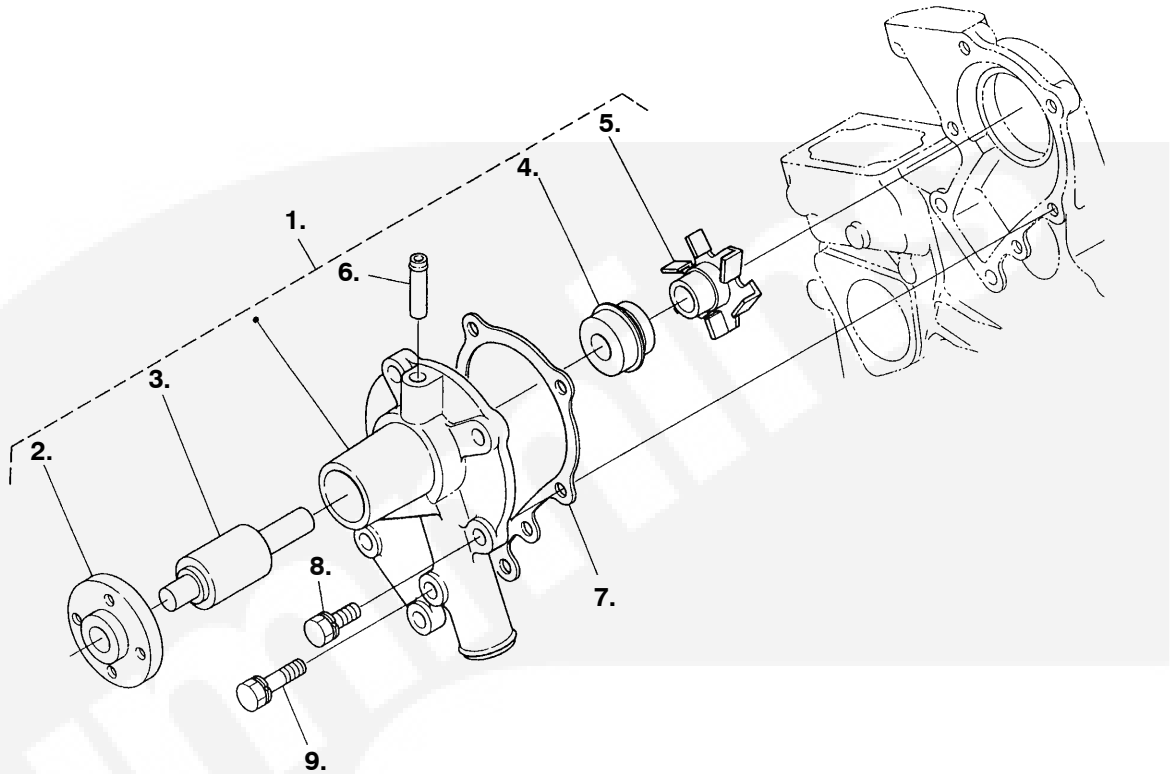
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10.	503-0429	2	Band, Hose Clamp
11.	800-6298	2	Screw, Hex Head (M6 x 1 x 40mm)
12.	526-2080	3	Washer, Flat (M6)
13.	800-2043	1	Screw, Hex Head Cap (M6 x 1 x 65mm)
14.	870-2065-02	1	Nut, Hex Flange
15.	503-0398	1	Clamp

Water Flange



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	184-0063	1	Flange, Water (Includes Pipe)	7.	185-6667	2	Band, Pipe
2.	185-5719	1	Pipe, Water Return	8.	185-5458	1	Thermostat
3.	185-7393	1	Gasket, Water Flange	9.	185-7208	1	Cover, Thermostat
4.	185-2388	2	Bolt	10.	185-2238	1	Gasket, Thermostat
5.	185-7069	1	Bolt	11.	185-6677	2	Bolt
6.	184-0064	1	Pipe, Water Return	12.	193-0318	1	Sender, Water Temperature

Coolant Water Pump

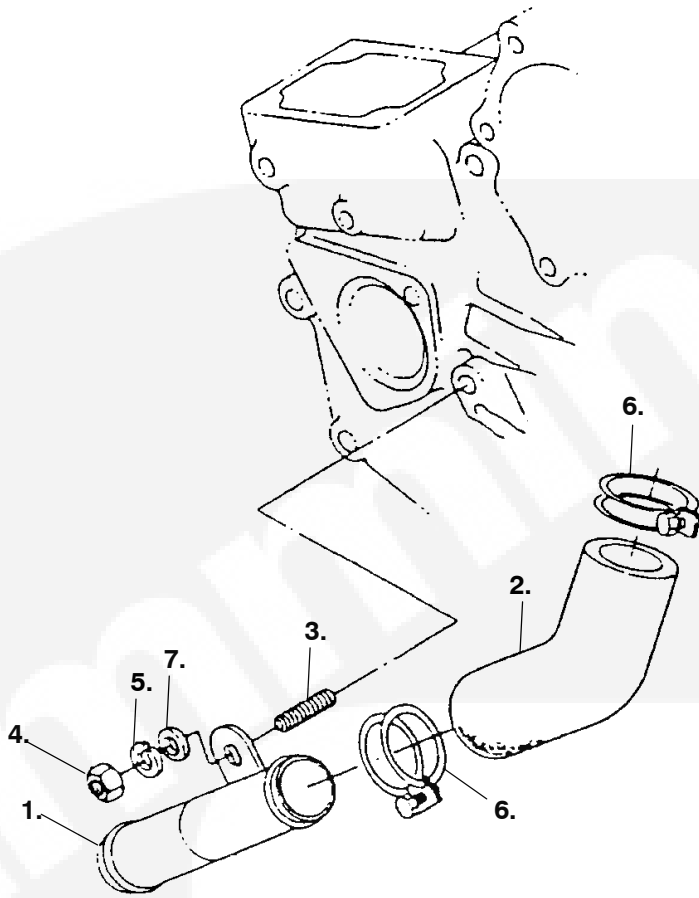


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.			Pump Assy, Water (Includes Parts Marked *)	7.			Gasket, Water Pump
	185-5433	1	Spec A-C		185-5434	1	Spec A-C
	132-0492	1	Begin Spec D		132-0517	1	Begin Spec D
2.	185-5712	1	*Flange	8.	185-2559	5	Bolt
3.	185-5713	1	*Bearing	9.	185-5717	2	Bolt
4.	185-5714	1	*Seal Assy, Mechanical				
5.	185-5715	1	*Impeller, Water Pump (Spec A-C)				
6.	185-5716	1	*Pipe, Water Return				

* - Parts Included in Water Pump Assy.

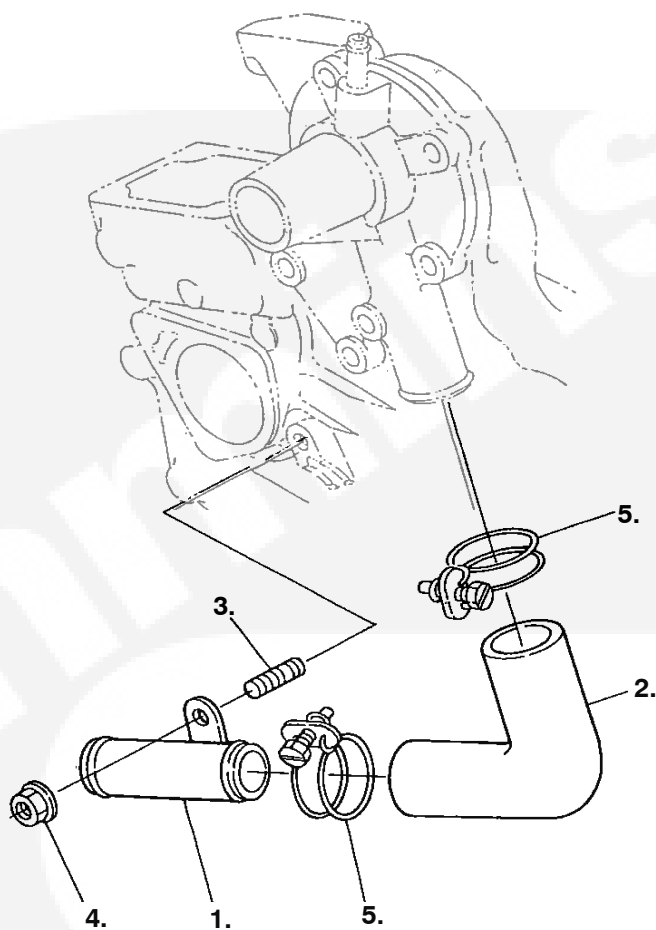


Coolant Hose (Spec A-C)



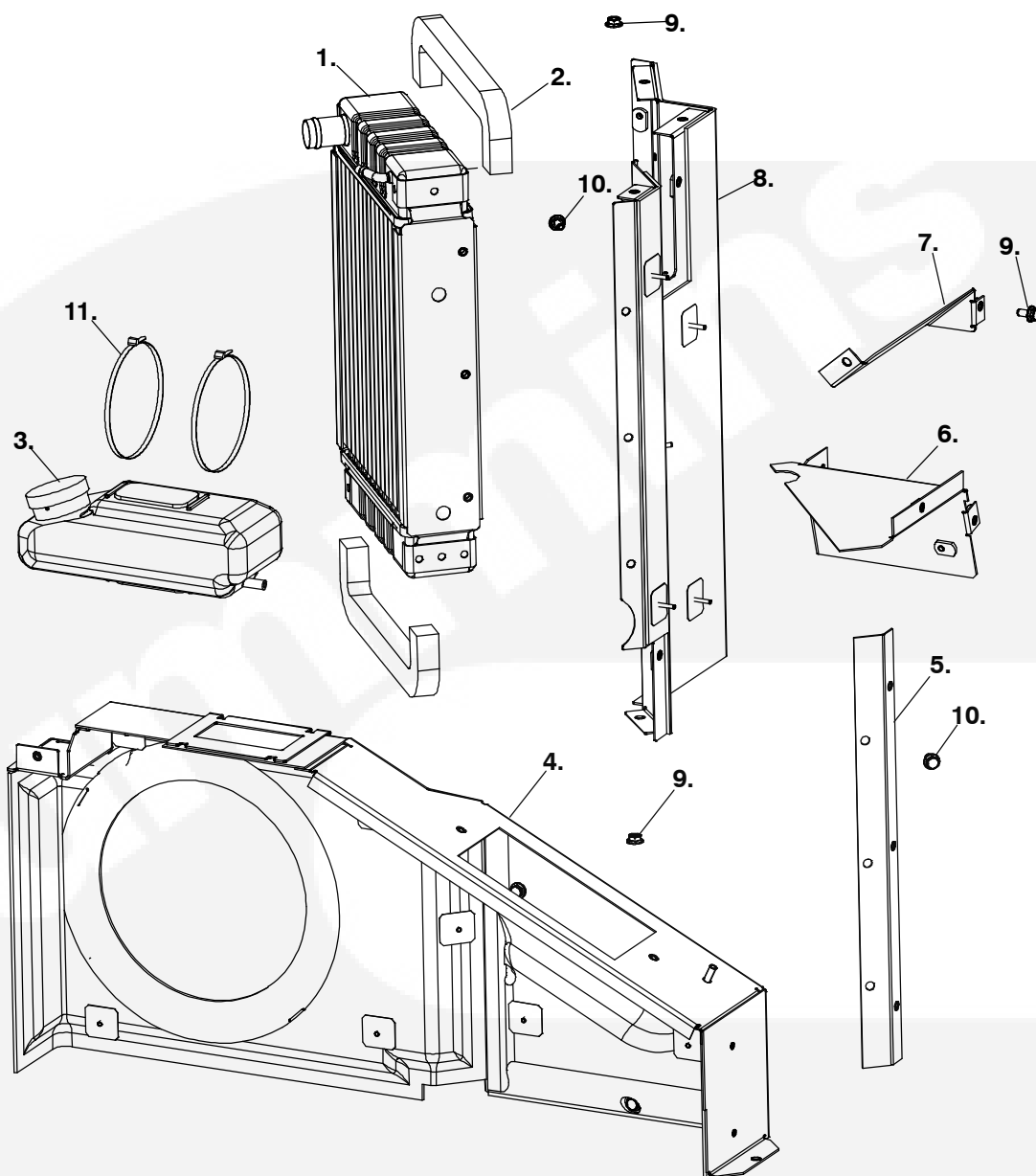
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5725	1	Pipe, Water	5.	185-6759	1	Washer, Spring
2.	185-5726	1	Hose, Water	6.	185-5728	2	Clamp, Hose
3.	185-5727	1	Stud	7.	740-1004	1	Washer, Plain
4.	185-4255	1	Nut				

Cooling (Begin Spec D)



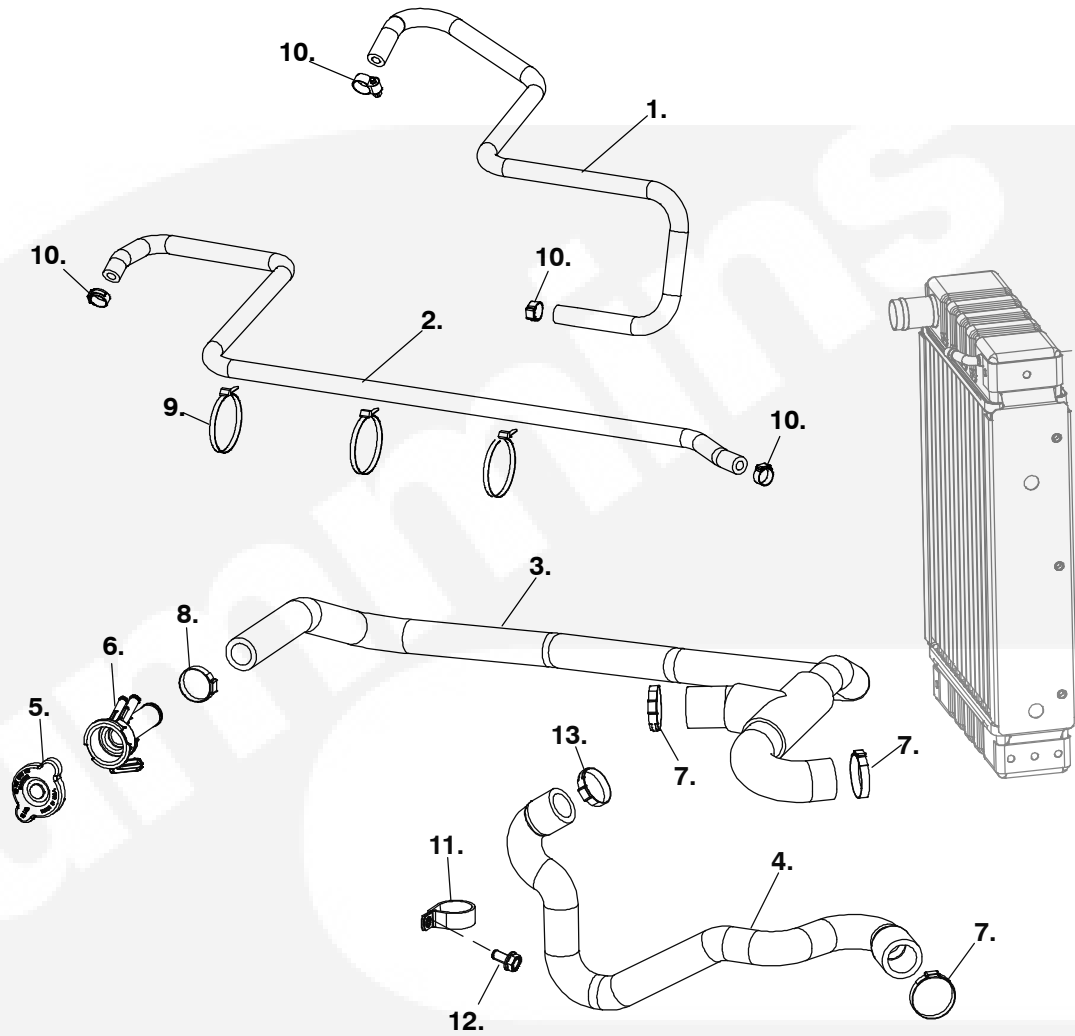
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	181-9153	1	Pipe, Water Return	4.	185-7166	1	Nut, Flange
2.	181-9154	1	Hose, Water	5.	181-9060	2	Clamp, Hose
3.	185-5727	1	Stud				

Coolant System



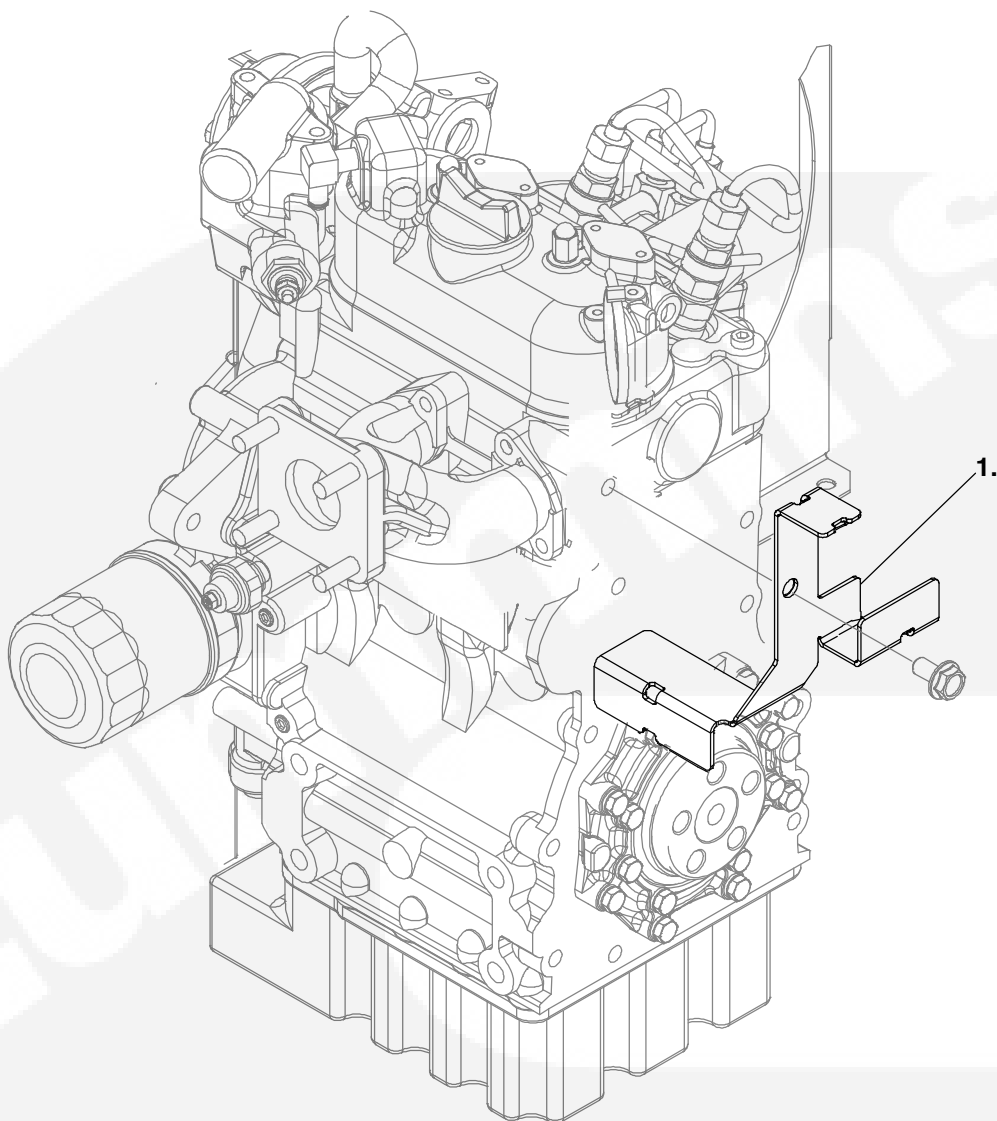
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	130-5437	1	Radiator	7.	130-5624-02	1	Duct, Radiator
2.	130-5623	2	Seal, Radiator	8.	130-5499	1	Baffle, Air
3.	130-5478	1	Tank, Coolant	9.	870-2065-02	6	Nut, Hex Flanged
4.	319-4987-S0	1	Duct, Inlet	10.	821-2096-02	10	Screw, Locking Flange
5.	130-5462-02	1	Bracket, Radiator	11.	332-1389	2	Cable, Tie
6.	130-5461-02	1	Bracket, Radiator				

Cooling System



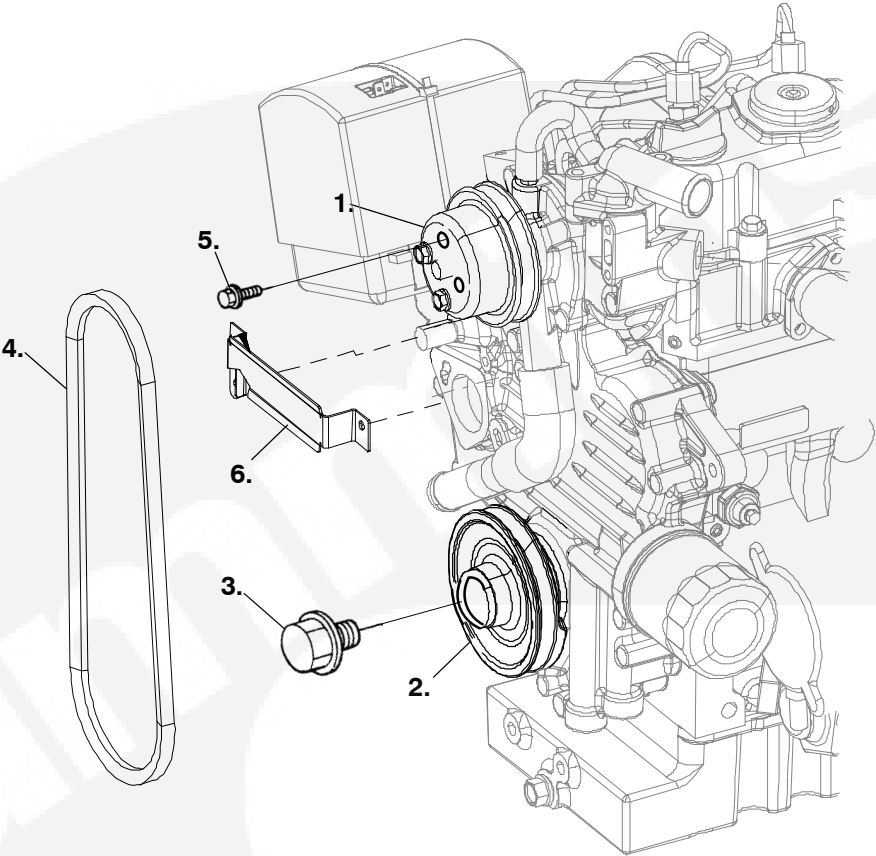
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	503-2343-04	1	Hose, Air	9.	332-1389	3	Cable, Tie
2.	503-2343-02	1	Hose, Air	10.	503-2309	4	Clamp, Hose
3.	503-2312	1	Hose, Coolant	11.	518-0548-05	1	Clamp, Cable
4.	503-2313	1	Hose, Coolant	12.	815-0829-04	1	Screw, Hex Washer Head Thread Form(M8 x 1.25 x 16mm)
5.	130-4320	1	Cap, Fill	13.	503-1951-40	1	Clamp, Hose
6.	130-4321	1	Neck, Fill				
7.	503-1951-46	3	Clamp, Hose				
8.	503-1951-35	1	Clamp, Hose				

Bracket



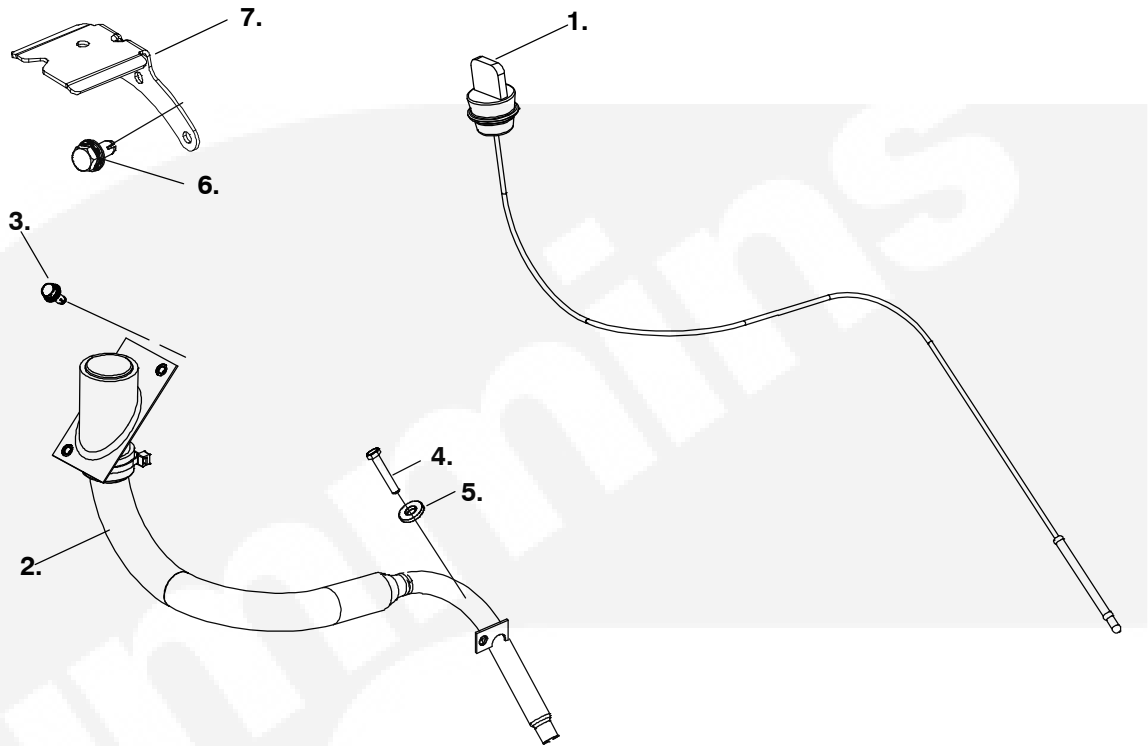
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	130-5632-02	1	Bracket, Hose

Pulley



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5707	1	Pulley, Water Pump	4.	511-0235	1	Belt
2.	185-6822	1	Pulley, Fan Drive	5.	185-2572	4	Bolt, Flange
3.	185-5709	1	Bolt, Flange	6.	503-2398-02	1	Clamp, Hose

Oil Fill Indicator (Spec A-D)

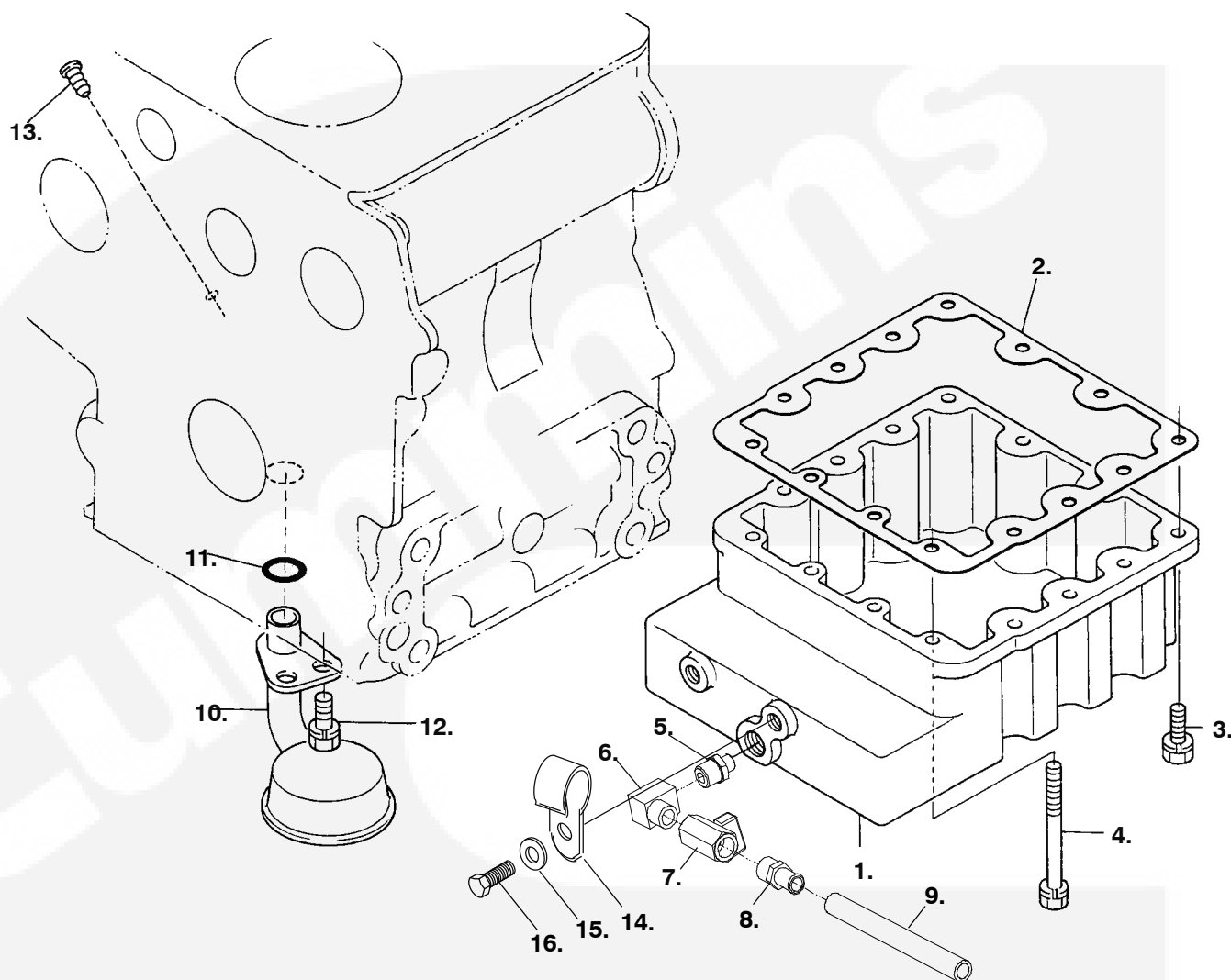


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1369	1	Kit, Oil Fill (Spec A-D)
1.	123-2236	1	*Indicator, Oil
2.	123-2345	1	*Tube, Oil
3.	821-2096-02	2	*Screw, Locking Flange
4.	725-1027	1	*Screw, Hex Socket Head (M6 x 1 x 16mm)
5.	526-2081	1	*Washer, Flat
6.	815-0829-04	2	*Screw
7.	403-5751-02	1	*Bracket

*Parts Included in Oil Fill Kit.

Note: Oil Fill Kit A044F075 is backwards compatible with Spec (A-D). However, the entire kit must be used when up-fitting an earlier Spec (A-D) generator set.

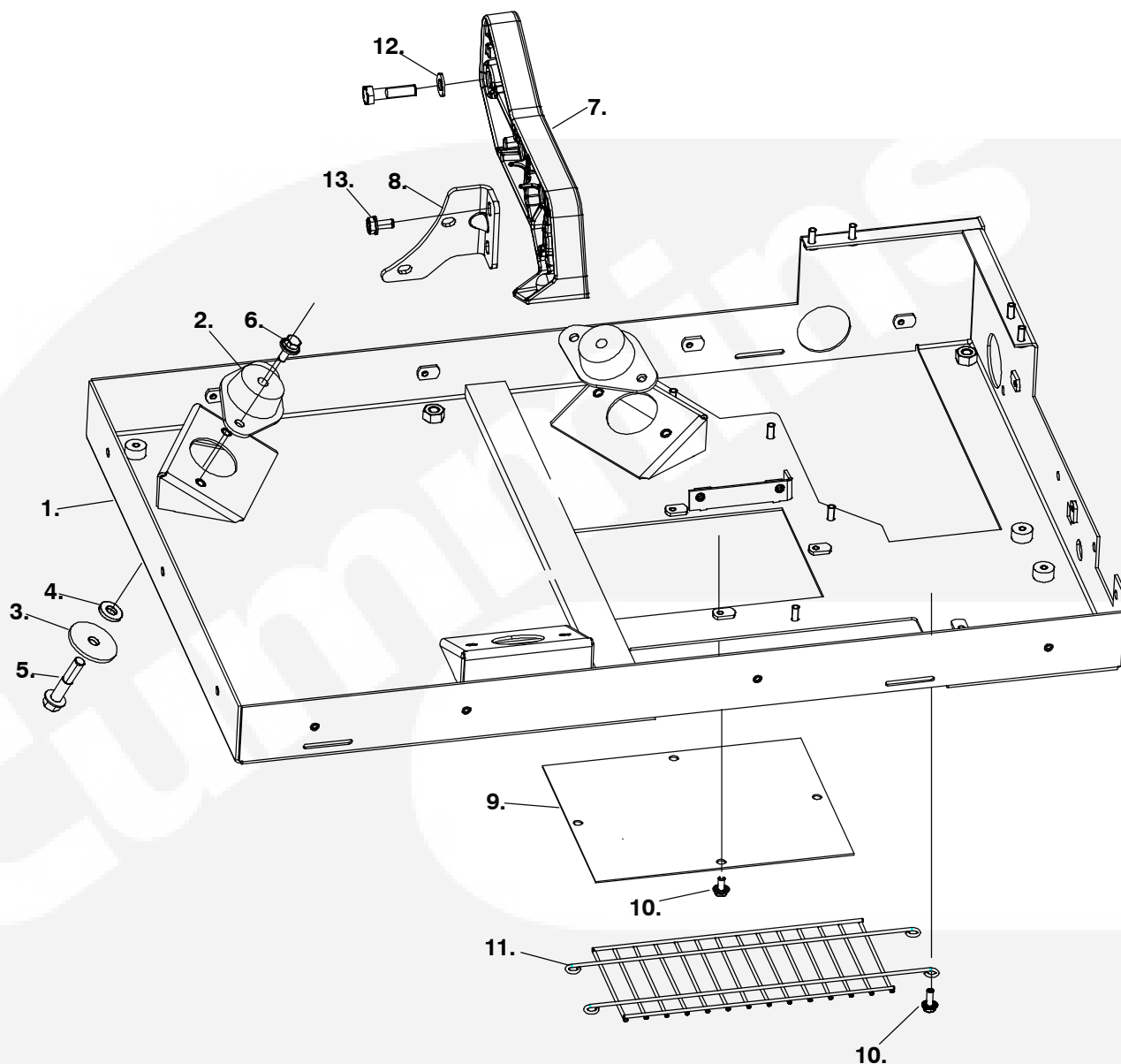
Oil Pan



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	181-9192	1	Pan, Oil
2.	181-9068	1	Gasket, Oil Pan
3.	185-2389	10	Bolt
4.	184-0011	4	Bolt
5.	102-1485	1	Adapter, Oil Drain
6.	502-1180	1	Elbow, 90
7.	504-0206	1	Valve, Ball
8.	503-1168	1	Connector, Hose
9.	503-2407	1	Hose, Oil

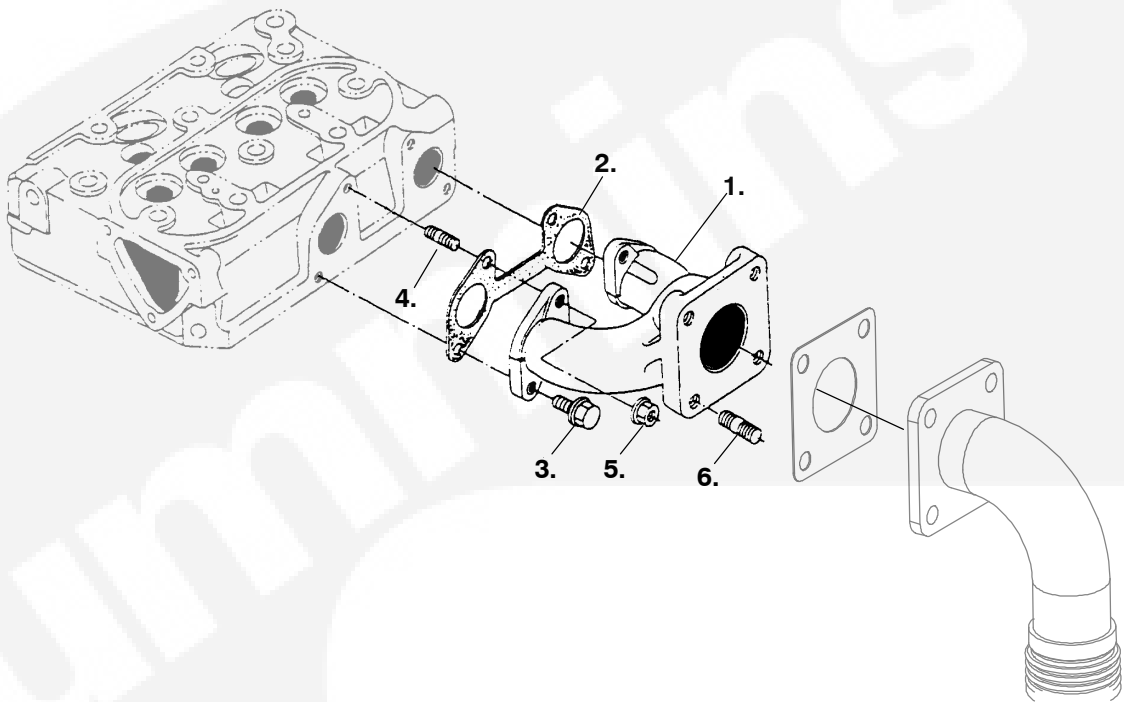
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10.	120-1348	1	Pickup, Oil
11.	185-7421	1	O'Ring
12.	185-6956	1	Bolt
13.	181-9231	1	Plug, Oil Gauge
14.	327-0923	1	Clamp, J (3/4")
15.	526-0115	1	Washer, Flat
16.	800-2052	1	Screw, Hex Head Cap (M8 x 1.25 x 12mm)

Drip Pan



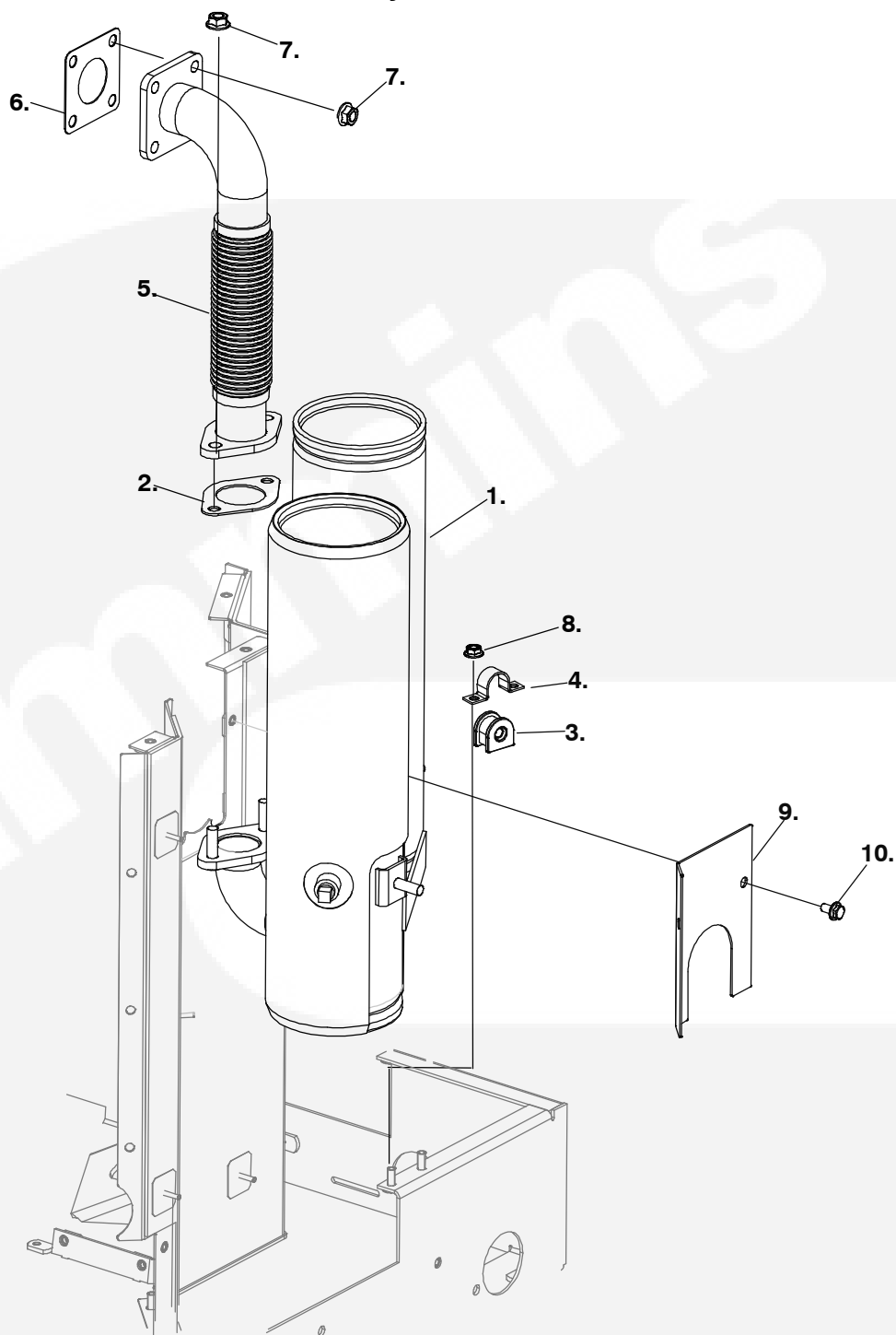
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	403-4561-02	1	Pan, Drip	8.	403-4635-04	1	Bracket, Generator
2.	402-0728-01	3	Isolator, Vibration	9.	403-4565-02	1	Cover, Service
3.	526-0324	3	Washer, Flat (3/8")	10.	821-2096-02	9	Screw, Locking Flange
4.	526-0030	3	Washer, Flat (3/8")	11.	130-5628	1	Guard, Radiator Fan
5.	815-0842-09	3	Screw, Thread Form (M10 x 1.5 x 50mm)	12.	526-2120	3	Washer, Flat (M10)
6.	821-6003-01	6	Screw, Hex Head Sems (M8 x 1.25 x 16mm)	13.	815-0829-04	4	Screw, Hex Washer Head Thread Form (M8 x 1.28 x 16mm)
7.	403-4605	1	Bracket, Engine				

Exhaust Manifold



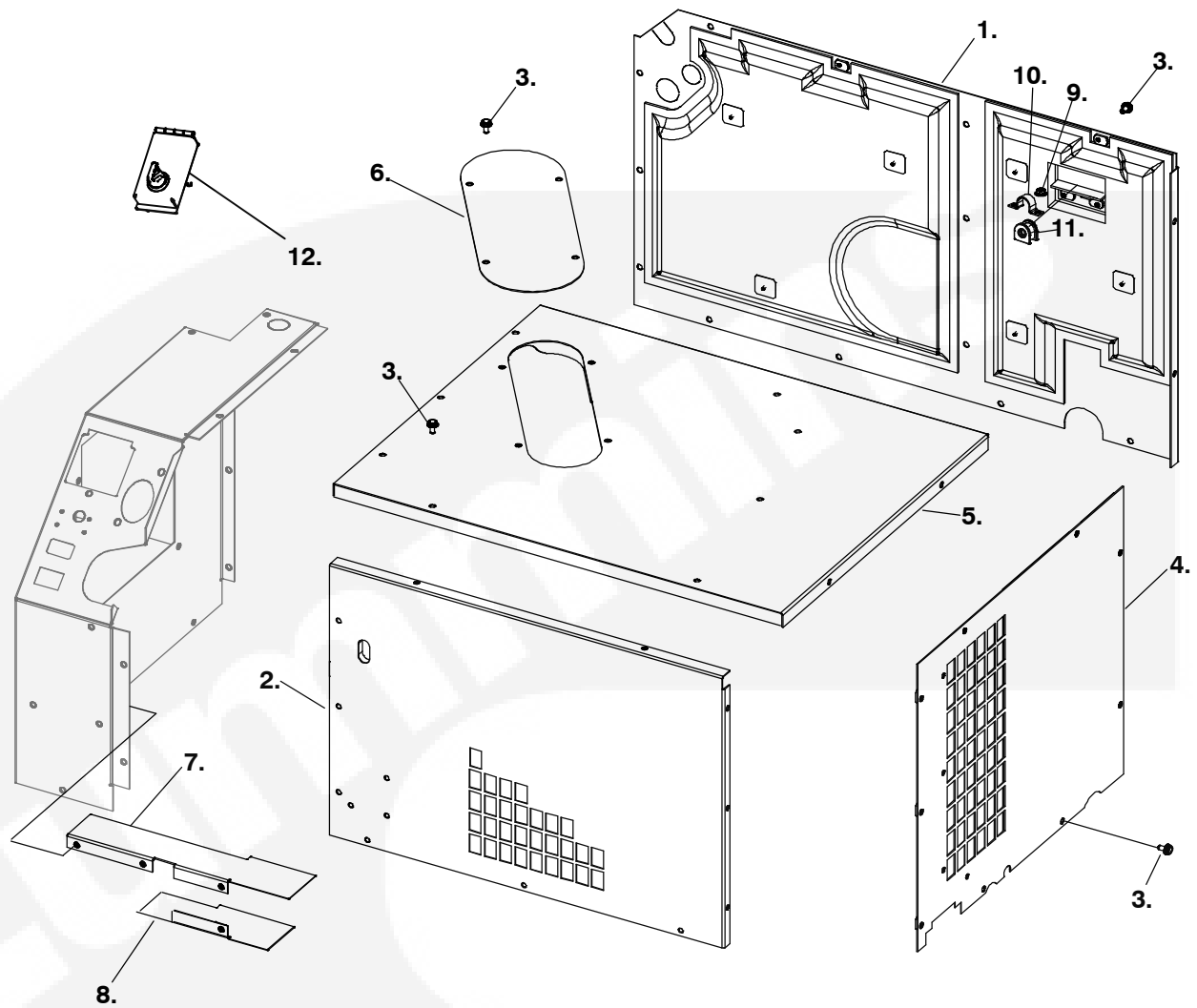
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	185-5533	1	Manifold, Exhaust	5.	185-5536	2	Nut
2.	185-6851	1	Gasket	6.	185-2362	4	Stud
3.	185-5534	2	Bolts				
4.	185-5829	2	Stud				

Exhaust System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-0953	1	Kit, Muffler	6.	185-6853	1	Gasket, Exhaust Out
1.	155-4060	1	Muffler, Exhaust	7.	870-0557	6	Nut, Hex Flange (M8 x 1.25mm)
	155-4060	1	Begin Spec B	8.	870-2065-02	2	Nut, Hex Flange
2.	154-2800	1	Gasket, Exhaust Muffler	9.	155-3730-02	1	Bracket, Exhaust
3.	402-0687-01	1	Isolator, Muffler	10.	821-2096-02	2	Screw, Locking Flange (M6 x 1 x 12mm)
4.	402-0695-02	1	Clamp, Muffler Isolator				
5.	154-3236	1	Pipe, Exhaust Muffler				

Enclosure

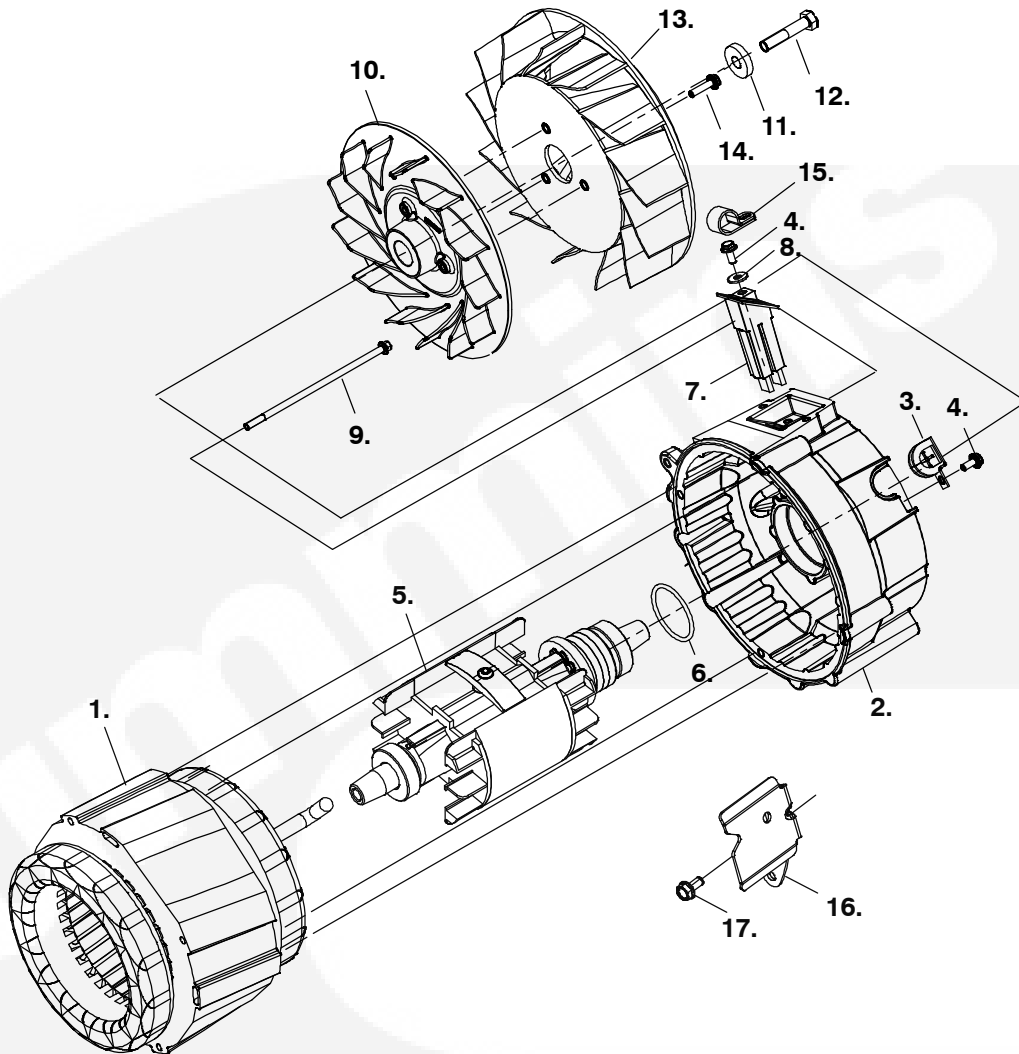


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	405-7568-S0	1	Cover, Enclosure Right Hand
2.	405-7313-S2	1	Cover, Enclosure Left Hand
3.	800-6497-01	58	Screw, Locking Flange
4.	405-6836-S2	1	Cover, Enclosure Front
5.	405-6833-S2	1	Cover, Enclosure Top (Includes
6.	405-7328	1	Panel, Access
7.	405-7659-02	1	Panel, Air Baffle
8.	405-7660-02	1	Panel, Air Baffle

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9.	870-2065-02	3	Nut, Hex Flange
10.	402-0695-02	1	Clamp, Muffler Isolator
11.	402-0687-01	1	Isolator, Muffler
12.	A041D996	1	Cover, Access (Spec G)

* Panels Include Insulation, Push-On Nuts and Seals.

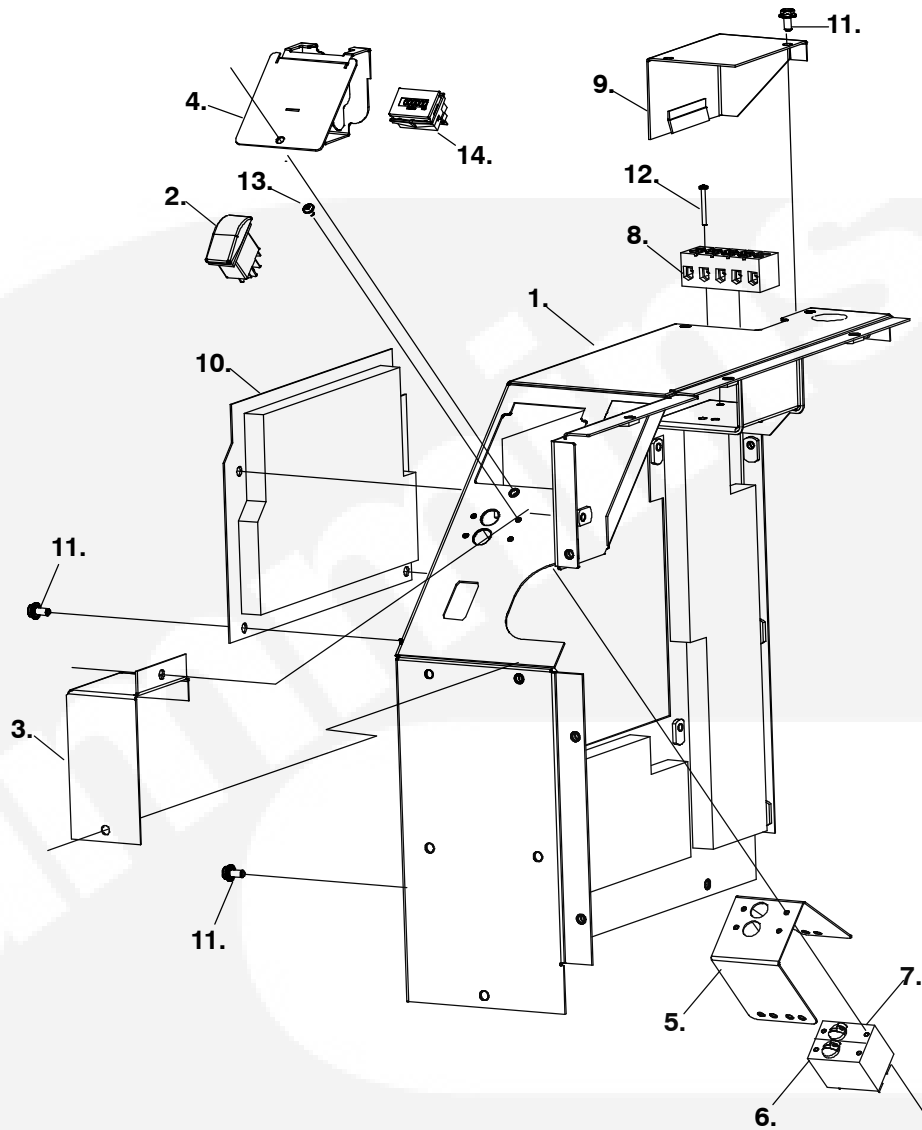
Generator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1205	1	Kit, Bracket, Generator (Includes Parts Marked *)
1.			Stator, Wound
	220-4620-01	1	120/240 Volts, 60Hz
	220-4620-02	1	120 Volts 60Hz
	220-4620-03	1	230 Volts 50Hz
2.	211-0521	1	Endbell
3.	508-1265	1	Grommet
4.	815-0753	3	Screw, Lock Flange
5.			Rotor
	201-3678-01	1	Spec A-B
6.	509-0420	1	O'Ring
7.	212-1303	1	Brush, Block
8.	526-2083	1	Washer, Flat (M6)
9.	815-0927-01	4	Bolt, Stator Mounting
10.	205-0347	1	Fan, Generator (Replaces

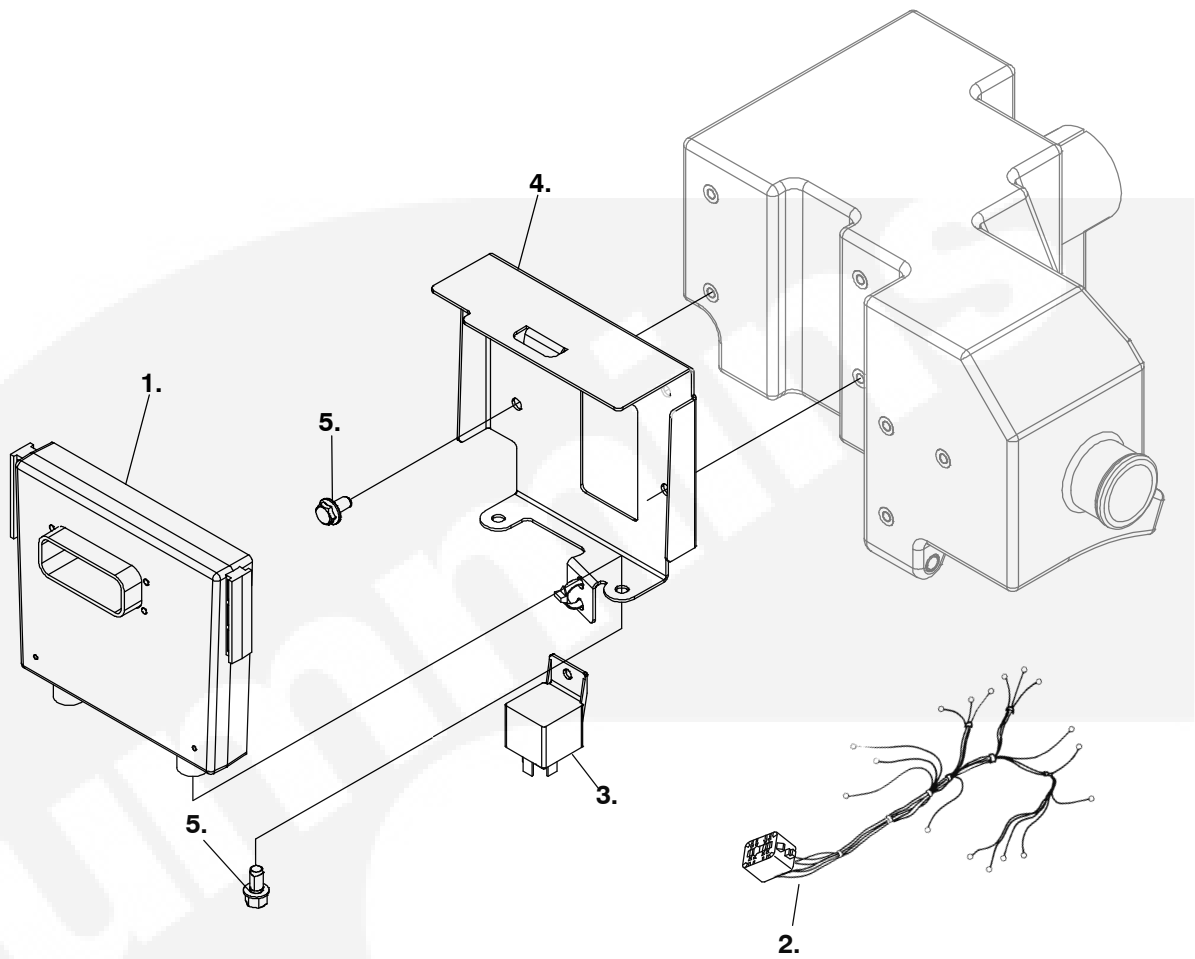
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			205-0300)
11.	526-0017	1	Washer, Flat
12.	800-2091	1	Screw, Hex Head Cap (M10 x 1.5 x 50mm)
13.	205-0289	1	Fan
14.	800-6296-01	3	Screw, Hex Head Flange (M6 x 25mm)
15.	332-1356	1	Clamp, Loop (Insulated)
16.			*Bracket, Generator (Spec C-F)
	403-5751-02	1	(Spec G)
	A042W432	1	(Spec G)
17.	815-0829-04	2	*Screw, Hex Head Thread Form (Begin Spec C)

Control Box



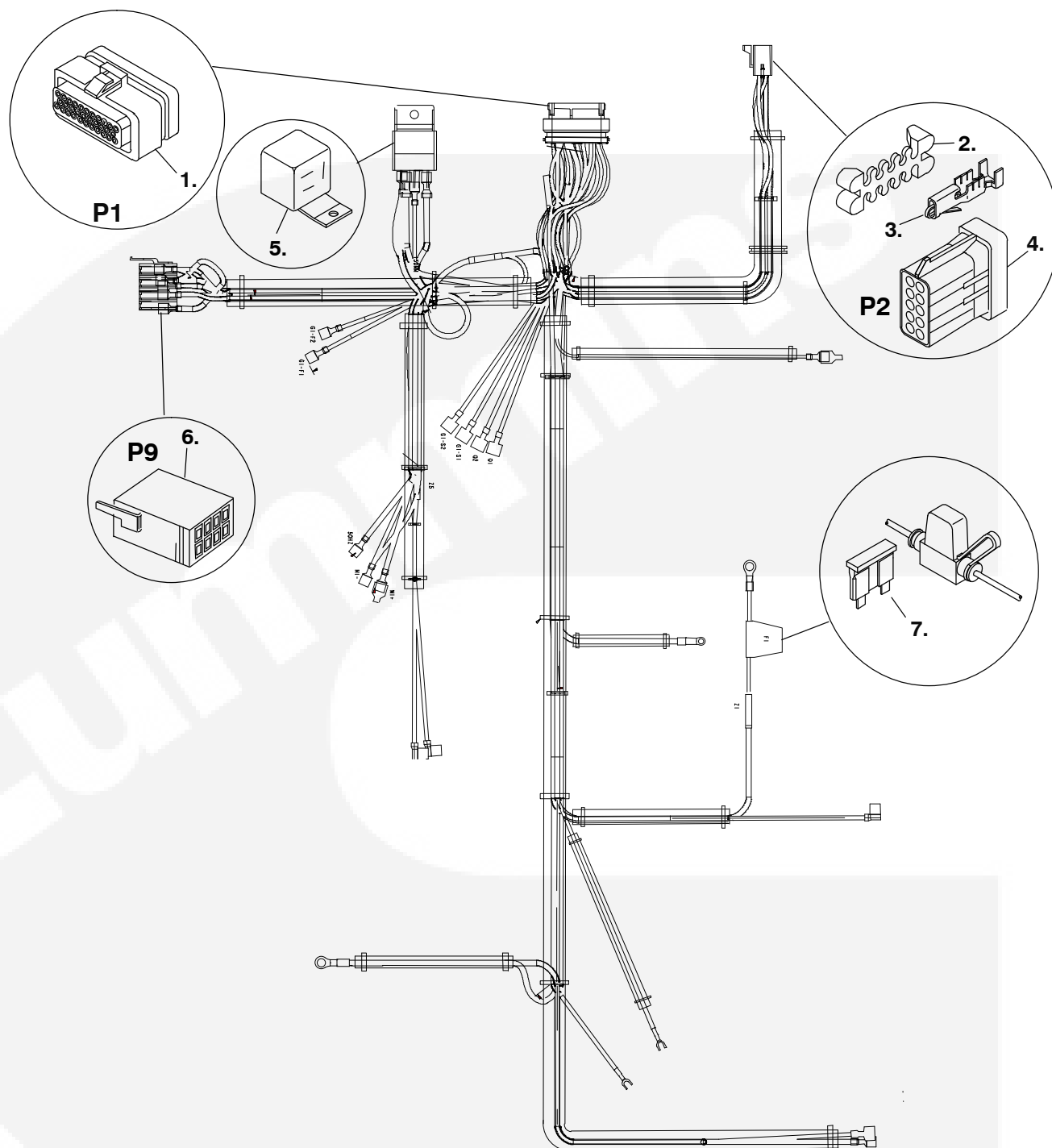
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.			Panel Assy, Control (Includes Parts Marked *)	10.			Cover, Enclosure
	405-7491-S0	1	Spec A-B		405-7497-02	1	Spec A
2.	308-1038	1	Switch, Rocker		405-7496	1	Begin Spec B
3.	405-7212-02	1	Cover, Access (Coolant)	11.	821-2096-02	15	Screw, Locking Flange (M6 x 1 x 12mm)
4.	405-5309-03	1	Cover, Access	12.	812-0070	2	Screw, Round Head (6-32 x 1.25)
5.	320-2101-02	1	Guard, Circuit Breaker	13.	815-0550-01	4	Screw, Pan Head Cross Recessed w/External Tooth Lock Washer (6-32 x .312")
6.			Circuit, Breaker	14.	302-2048	1	Hourmeter
	320-1323	1	20 & 30Amp	15.	98-8001-01	1	Label, Information (Control)
	320-1323	2	2 x 30 Amp	16.	98-8001-02	1	Label, Information (Control)
7.	320-2003-01	1	Circuit, Breaker				
8.	-	1	Harness, AC (See AC Harness Page)				
9.	405-5380-05	1	Cover, AC (Black)				

Control



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	327-1279	1	Control, PCB	4.	319-4511-02	1	Bracket, Control
2.	-	1	*Harness, Control (See Control Harness)	5.	821-2096-02	5	Screw, Locking Flange
3.	307-1886	1	Relay, 12V SPDT (See Control Harness)	* See Information Control Harness Page			

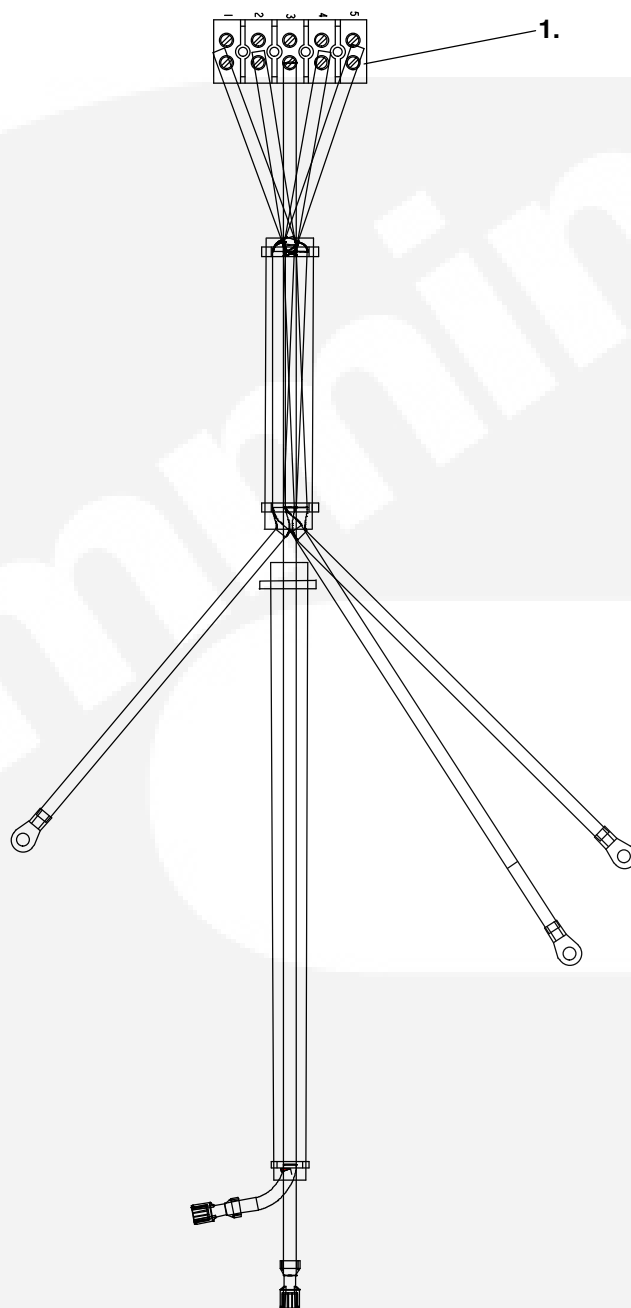
Control Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4092-01	1	Harness, Control				(See Control)
1.	323-1819-01	1	Plug, Connector (35Pin) (P1)	6.	308-1019	AR	Connector, Switch (P9)
2.	323-1719	1	Lock, Housing	7.	321-0307-09	1	Fuse, 30Amp
3.	323-1709	8	Terminal, Socket				
4.	323-1711	1	Connector (10Pin) (P2)				
5.	-	1	Socket, Relay (K3)				

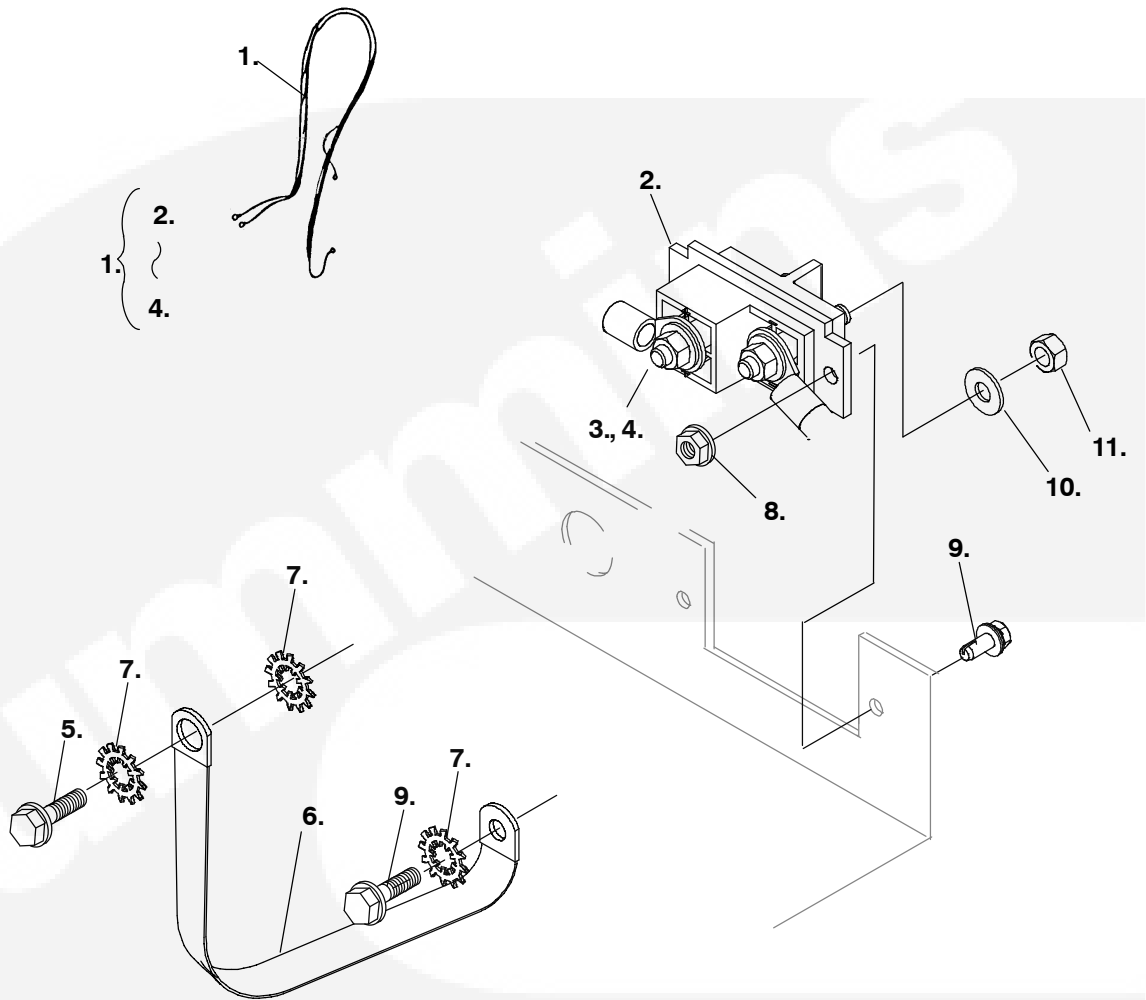
* See Control Page for location

AC Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4183	1	AC, Harness	* See Control Box Page for Location			
1.	332-3531-04	1	Terminal, Block (TB1)				

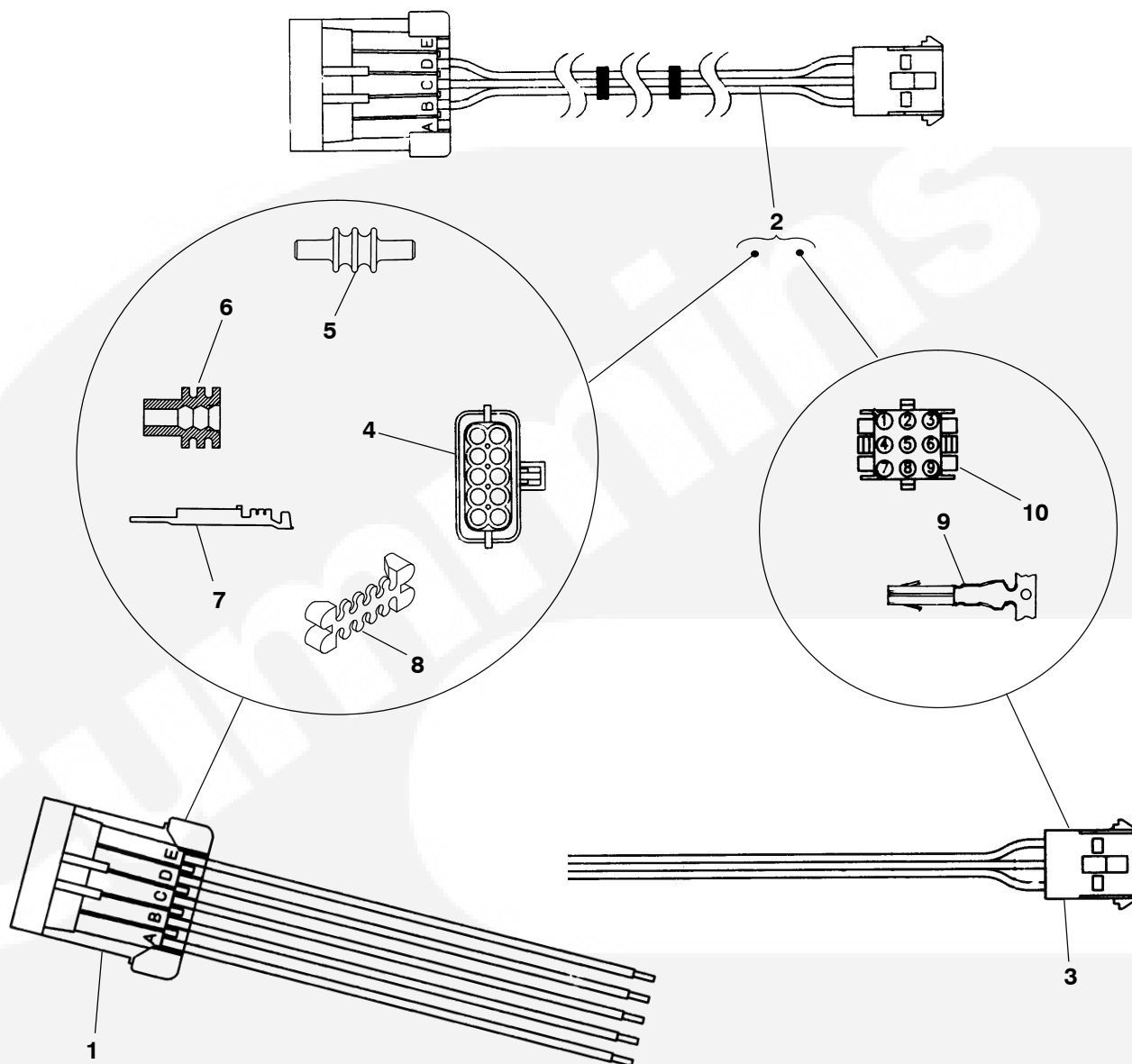
Battery Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1.	338-4182-01	1	Harness, Battery (Includes Terminal Block, 2 Washers 2 Nuts, and Cables)
2.	332-3408	1	Block, Terminal
3.	526-0054	2	Washer, Flat (5/16")
4.	871-0025	2	Nut, Hex (.313-18)
5.	815-0941-03	1	Screw, Hex Washer Head Tread Form (M6 x 1 x 16mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6.	337-3467	1	Strap, Bond
7.	856-0006	4	Washer, Lock ET (1/4")
8.	870-2065-02	2	Nut, Hex Flange
9.	821-2096-03	3	Screw, Locking Flange
10.	526-0054	2	Washer, Flat (5/16")
11.	871-0025	2	Nut, Hex Brass (5/16-18)

Remote Harnesses

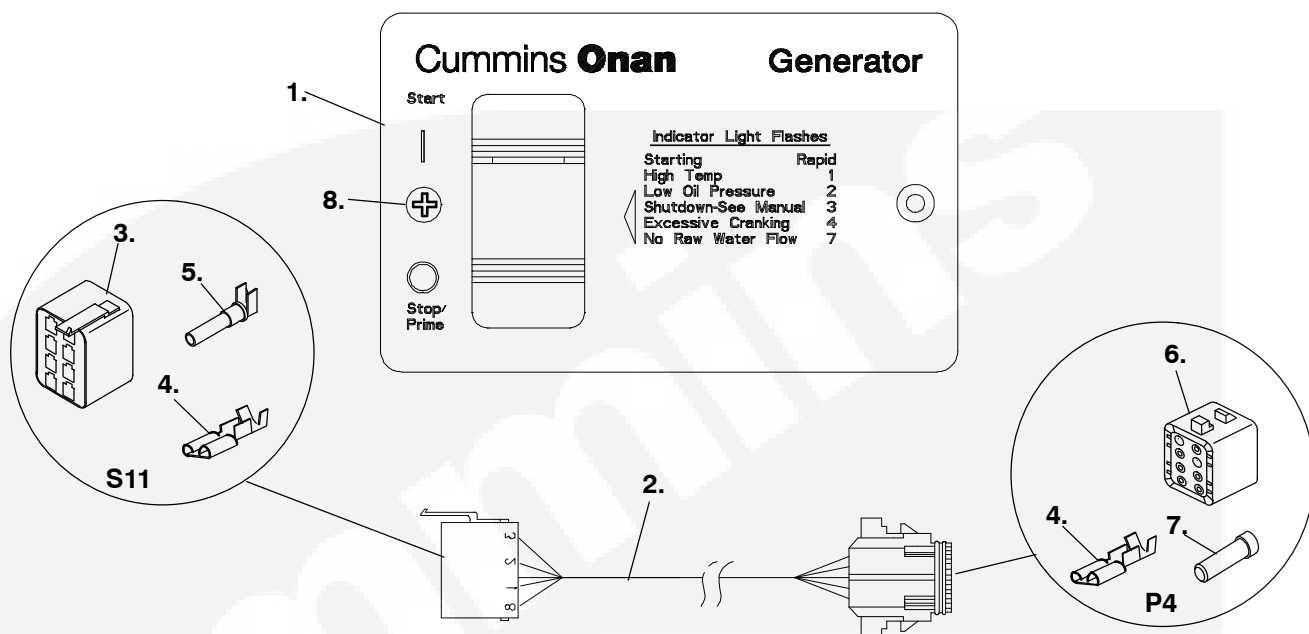


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4947	1	Harness, Remote (Includes Parts Marked *)
2			Harness, Remote Panel (Includes Parts Marked +)
	338-3490-01	1	10'
	338-3490-02	1	30'
3	338-3573	1	Harness, Adapter (Includes Parts Marked #)
4	323-1710	1	+*Connector, Receptacle
5	323-1712	2	+*Plug, Cavity

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-1708	8	+*Seal, Cable
7	323-1707	8	+*Pin, Contact
8	323-1719	1	+*Housing, Lock
9	323-1200	AR	+#Socket, Contact
10	323-1325	1	+#Cap, Connector*

* - Parts Included in Remote Harness.
+ - Parts Included in Remote Panel Harness.
- Parts Included in Adapter Harness.

Remote Control Panel (W/Switch)



9. WARNING

1

4 Min

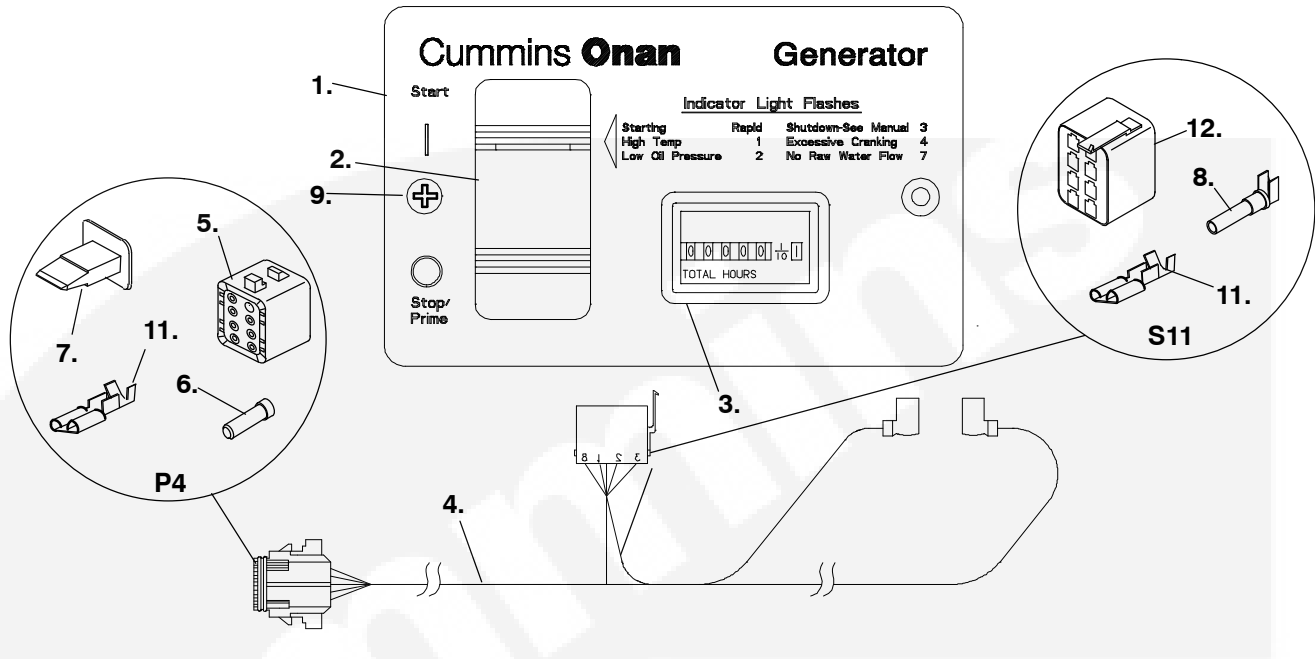
2

Gasoline vapors can explode causing personal injury or death. Before starting engine, operate engine room blower 4 minutes and check engine compartment and bilge for gasoline vapors.

0098-8081 (8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5725-01	1	Kit, Remote Panel	5.	323-1492	6	Pin, Contact
1.	308-1101	1	Switch, Rocker (S11)	6.	323-1541	1	Plug (8 Pin)
	319-6990	1	Panel, Remote (Includes Label)	7.	323-1591	2	*Plug, Seal
2.	338-3988	1	Harness, Remote Panel	8.	815-0910	2	Screw, Wood (#6 x 1)
3.	308-1019	1	Connector, Switch	9.	98-8081	1	Label, Panel (Start/Preheat)
4.	332-2890	6	Terminal, Receptacle (.25)				

Remote Control Panel (W/Hour Meter)



⚠ WARNING

1

4 Min

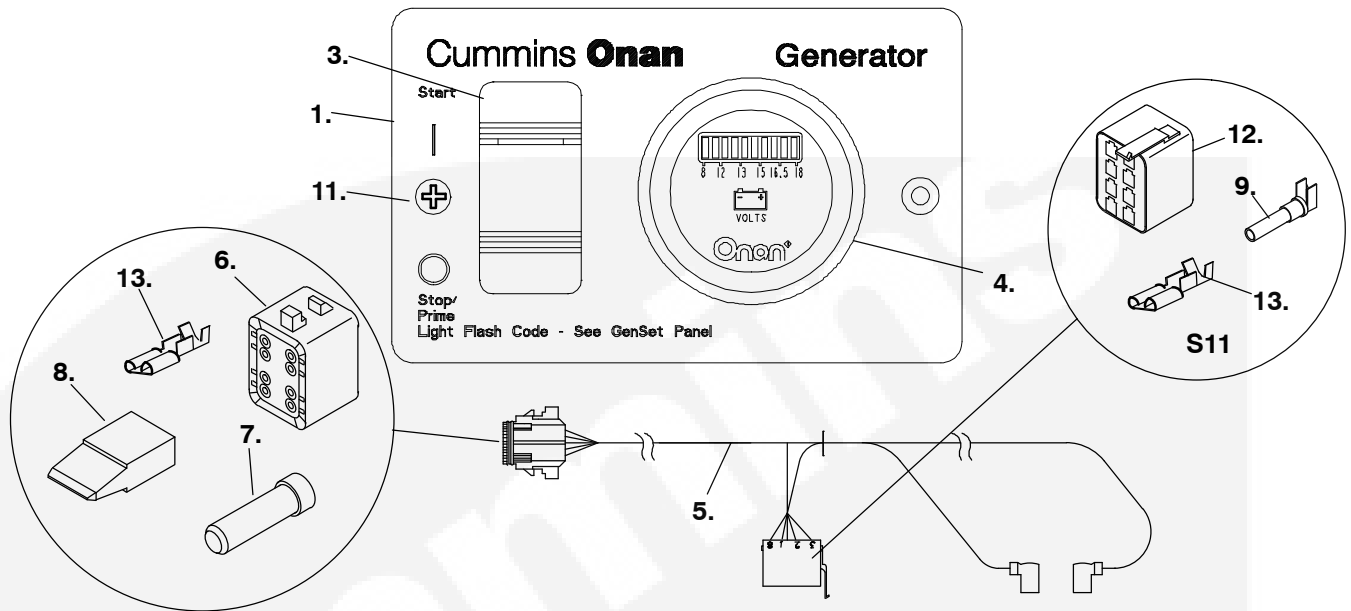
2

Gasoline vapors can explode causing personal injury or death. Before starting engine, operate engine room blower 4 minutes and check engine compartment and bilge for gasoline vapors.

0088-8081 (B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5727-01	1	Kit, Remote Panel	7.	323-1543	1	Wedge, Plug (8 Pin)
1.	319-6992	1	Panel, Remote (Includes Label)	8.	323-1492	6	Pin, Contact
2.	308-1101	1	Switch, Rocker (S11)	9.	815-0910	2	Screw, Wood (#6 x 1)
3.	302-2048	1	Hourmeter (M11)	10.	98-8081	1	Label, Warning
4.	338-3990	1	Harness, Remote Panel	11.	332-2890	6	Terminal, Receptacle
5.	323-1541	1	Plug (8 Pin) (J4)	12.	308-1019	1	Connector, Switch
6.	323-1591	2	Plug, Connector				

Remote Control Panel (W/Volt Meter)



⚠ WARNING

1

4 Min

2

Gasoline vapors can explode causing personal injury or death. Before starting engine, operate engine room blower 4 minutes and check engine compartment and bilge for gasoline vapors.

0089-8081 (R)

Cummins Onan

GENERATOR OPERATION

Start:

1. Complete pre-start checks.
2. Push and hold start switch.
(Amber status light flashes during starting.)
3. Release start switch when green run light is on.

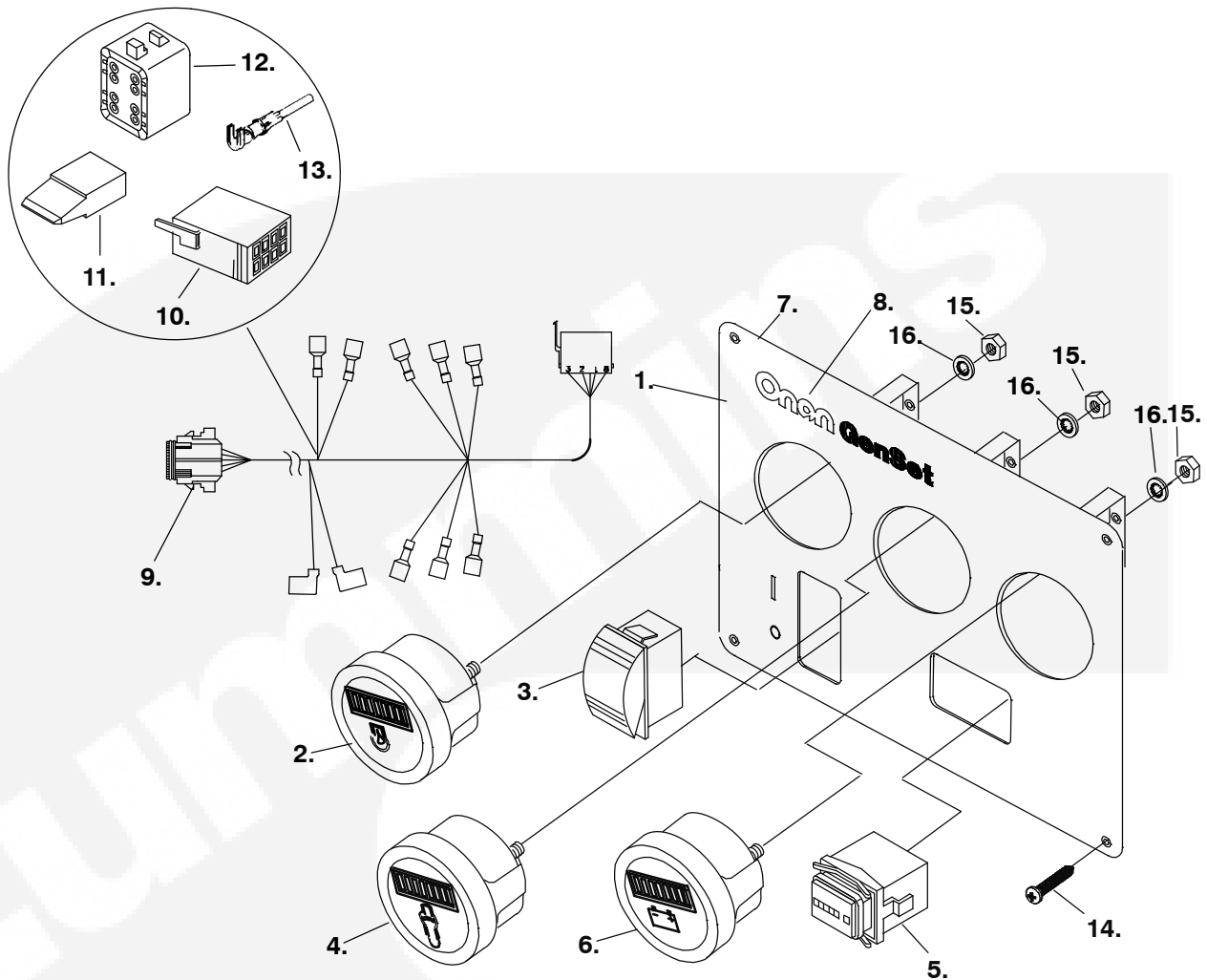
Stop: 1. Push and release stop switch.

Status Light Flashes	
Starting	Rapid
High coolant temp	1
Low oil pressure	2
Shutdown - See manual	3
Excessive cranking	4
No raw water flow	7

See Operator's or Service Manual for important installation, safety, and health warnings and instructions.

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5726-01	1	Kit, Remote Panel	7.	323-1591	2	Plug, Connector
1.	319-6991	1	Panel, Remote (Includes Label)	8.	323-1543	1	Wedge, Plug (8 Pin)
2.	98-8092	1	Label, Instruction	9.	323-1492	6	Pin, Contact
3.	308-1101	1	Switch, Rocker (S11)	10.	98-8081	1	Label, Warning
4.	302-2051-01	1	Meter, Volt (M14) (8-18V)	11.	815-0910	2	Screw, Wood (#6 x 1)
5.	338-3990	1	Harness, Remote Panel	12.	308-1019	1	Connector, Switch
6.	323-1541	1	Plug (8 Pin) (J4)	13.	332-2890	6	Terminal, Receptacle

Remote Gauge Control Panel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1207	1	Kit, Remote Gauge Panel (Includes Instructions)	10.	308-1019	1	+Connector, Switch
1.	319-5835-01	1	Panel, Remote	11.	323-1543	1	+Wedge, Plug (8 Pin)
2.	302-2088	1	Gauge, Oil Pressure (M12) (Includes Mounting Bracket, M4 x .7 Nut, and M4 Washer)	12.	323-1541	1	+Plug (8 Pin) (P4)
3.	308-1101	1	Switch, Rocker (SPDT) (S11)	13.	323-1492	8	+Contact, Socket
4.	302-2087	1	Gauge, Water Temperature (M13)	14.	819-1156-01	4	Screw, Pan Head Sheet Metal (#8-15 x 1.00")
5.	302-2048	1	Meter, Running Time (M11)	15.	850-0114-51	6	Washer, Lock
6.	302-2051-01	1	Meter, Volt (M14) (8-18V)	16.	860-2025	6	Nut, Hex Head
7.	98-7840	1	Label, Panel (M14, M13, M12)				+ - Parts Included in Remote Panel Harness
8.	98-7853	1	Label, Panel (Diesel GenSet)				
9.	338-3989	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Parts Marked +)				

Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	543-0018-02	1	Label, Package (Includes Parts Marked *)		98-8001-02	1	Label, Information 2 x 30 Amp Breakers
	543-0018-03	1	Kit, Label		98-8718	1	Label, Logo
	98-6878	1	*Label, Fuel Attachment		98-8816	1	Label, Certification
	098-7244	1	*Label, Warning Voltage		98-8720	1	Label, Logo
	98-7128	2	*Label, Warning Multi		98-8805	1	Label, Information
	98-7494-01	1	Label, Listed (White)				
	98-7993	1	Label, Identification				
	98-8001-01	1	Label, Information 20 & 30Amp				

* Parts Included in Label Package.



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