

Cummins **Onan**



Parts Manual

Commercial Mobile Generator Set

HDKBB (Spec A–H)

HDKBC (Spec D–H)

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
5.5HDKBB 2860A/B/C	Diesel	630–2298	120	60	1
5.5HDKBB 2861A/B/C	Diesel	630–2298	120/240	60	1
5.5HDKBB 2905A/B/C	Diesel	630–2298	120/240	60	3
5.0HDKBB 2862A/B/C	Diesel	630–2298	115/230	50	1
5.0HDKBB 2863A/B/C	Diesel	630–2298	230/400	50	3
5.0HDKBB 6880C/D	Diesel	630–2298	230	50	1
5.0HDKBC 2860D	Diesel	630–2298	120	60	1
5.0HDKBC 2861D	Diesel	630–2298	120/240	60	1
5.0HDKBC 2905D	Diesel	630–2298	120/240	60	3

* – 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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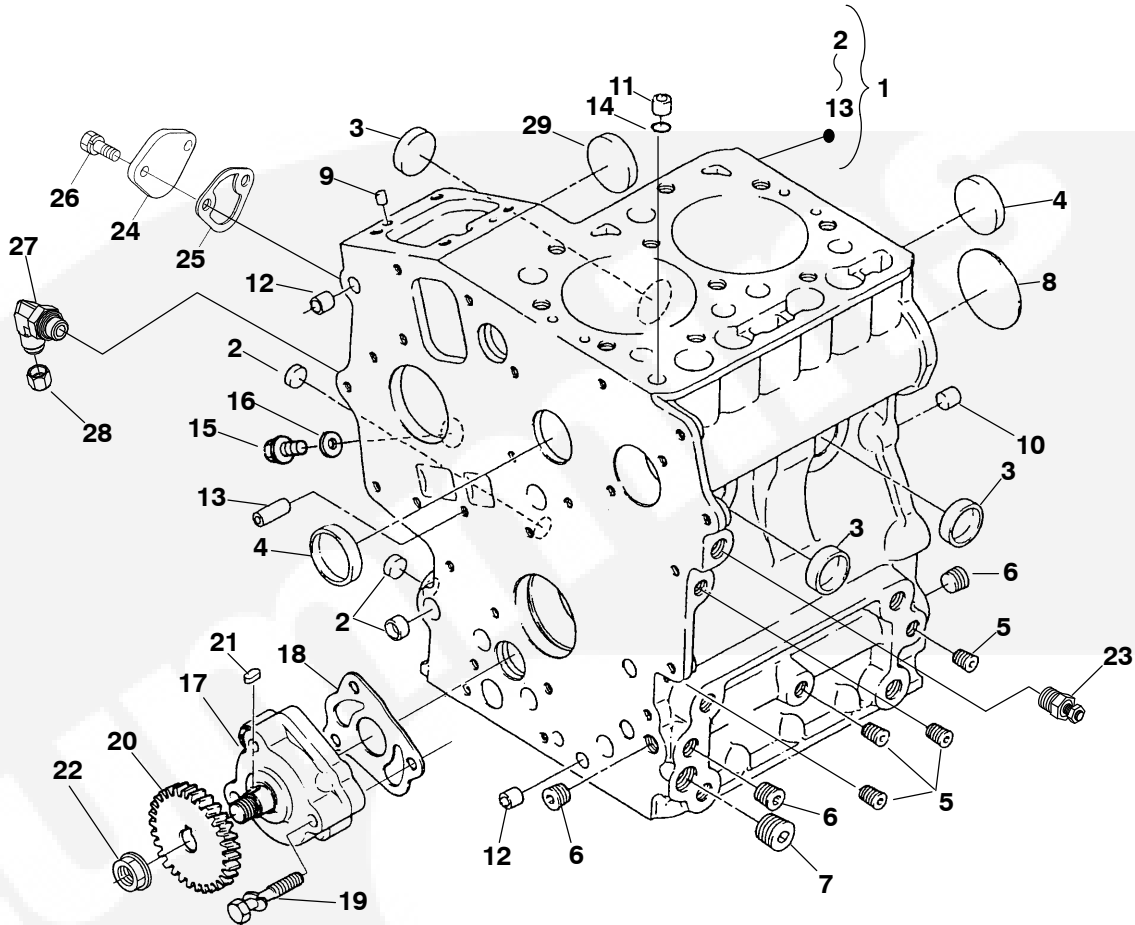
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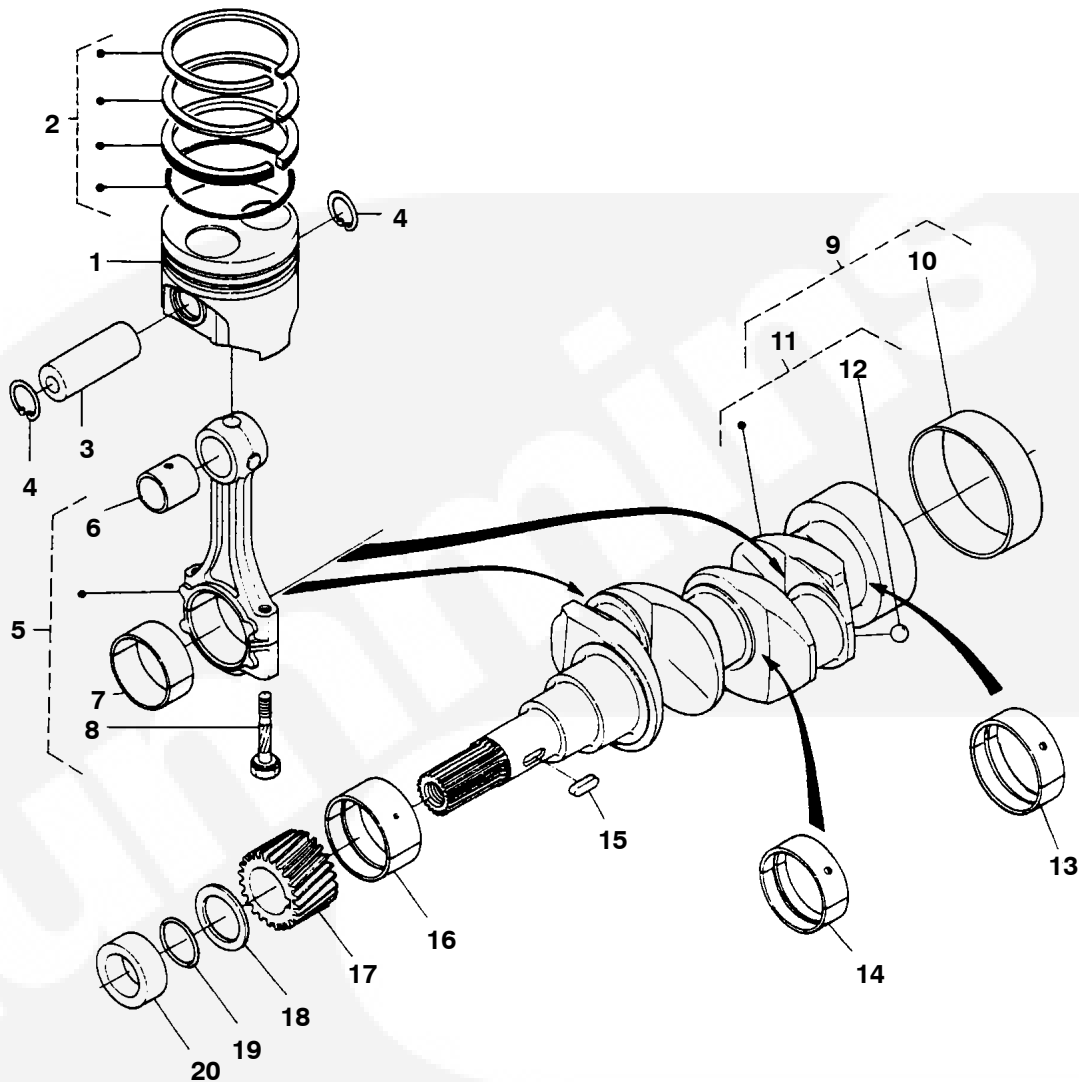


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A044B670		Engine, Replacement	174-0014	1		Spec A
			Block Assy, Cylinder (Includes	509-0549	1		Begin Spec C
			Parts Marked *)	17	185-5412	1	Pump, Oil
	184-0045	1	Spec A-B	18	185-5413	1	Gasket, Oil Pump
	181-9173	1	Spec C	19	185-5491	3	Bolt
	110-4124	1	Spec D-F	20			Gear, Oil Pump Drive
	A047P267	1	Spec H		185-5414	1	(Spec C-G)
2	185-5482	3	*Cap, Sealing		A047P292	1	(Spec H)
3	185-5483	3	*Cap, Sealing	21	185-5415	1	Key, Feather
4	185-5484	2	*Cap, Sealing	22	185-5416	1	Nut, Flange
5	185-2188	4	*Plug	23	185-5492	1	Switch, Oil Pressure
6	185-2233	3	*Plug	24	185-5798	1	Cover
7	185-2234	1	*Plug	25	185-6580	1	Gasket, Hole Cover
8	185-5485	1	*Plug, Expansion	26	185-2388	2	Bolt
9	185-5486	2	*Pin, Straight	27	502-1359	1	Elbow, 90° Coolant Drain
10	185-5487	2	*Pin, Straight	28	502-1360	1	Nut, Cap
11	185-2094	1	*Pin, Pipe	29	185-5489	1	Cover, Fuel Camshaft
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				

* - Parts Included in Cylinder Block Assy.

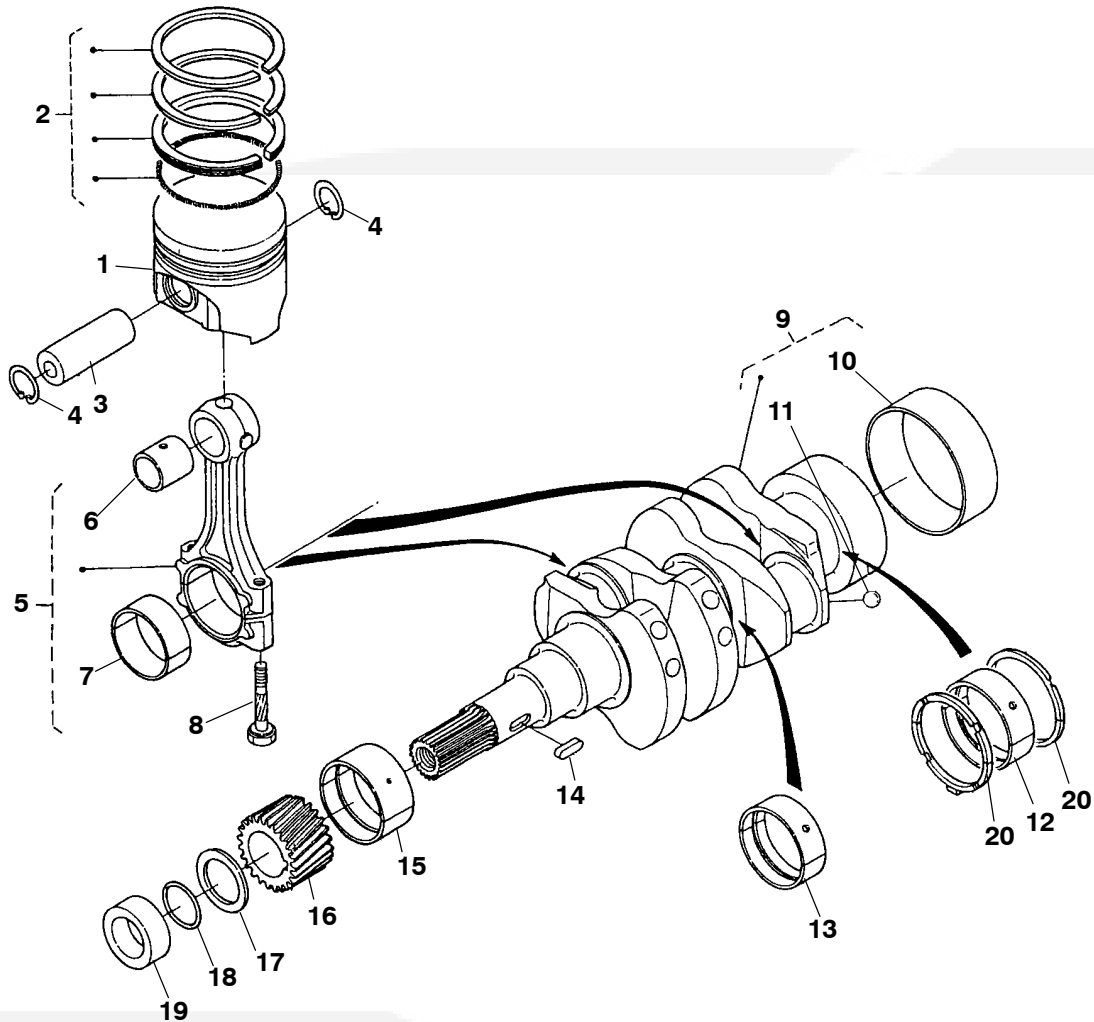
+ - Parts Included in Isolated Ground Kit Listed on Relay Page.

Piston and Crankshaft (Spec A-B)



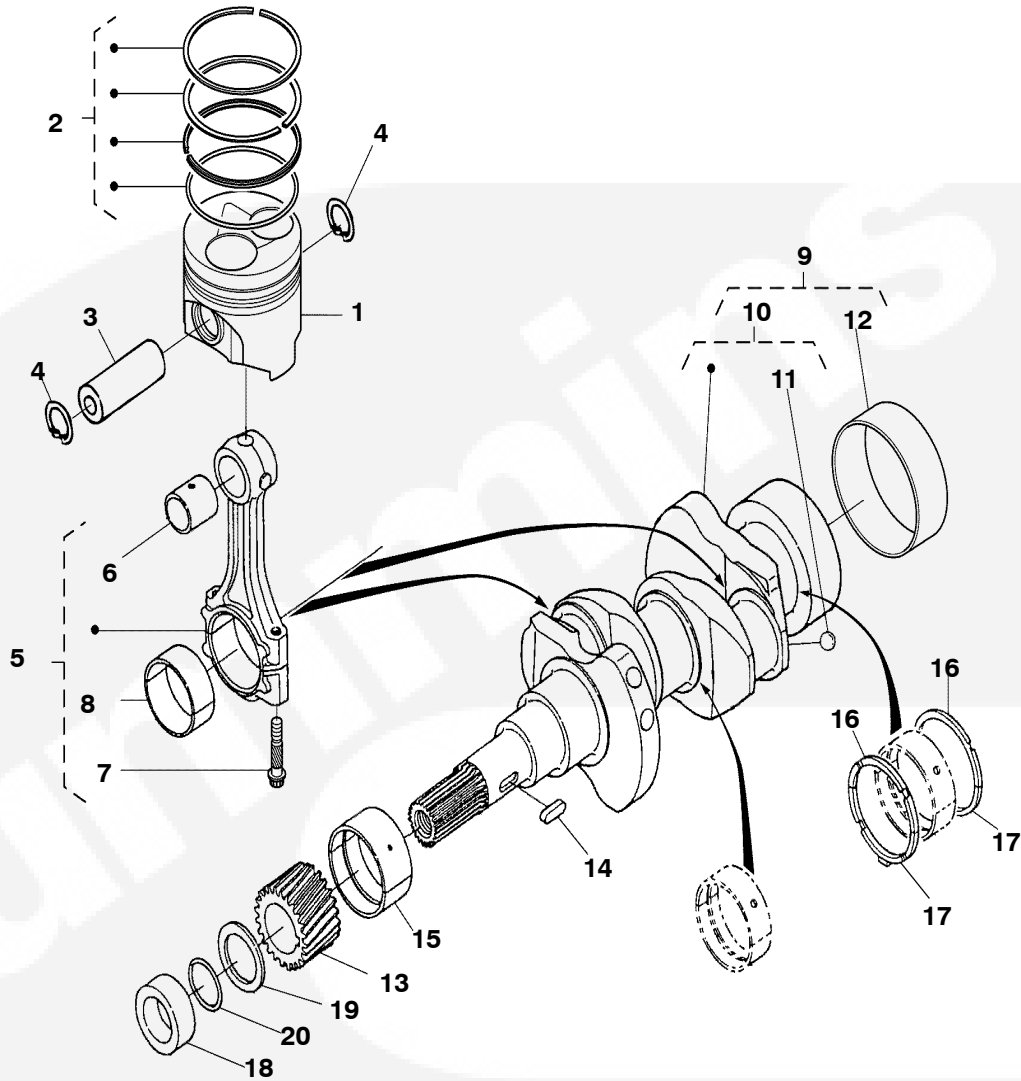
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0032	2	Piston	11	184-0034	2	Crankshaft (Includes Ball)
	184-0033	2	Standard +0.50mm	12	185-5575	2	Ball
2	184-0030	2	Ring Assy, Piston	13	185-5580	1	Bearing Standard
	184-0031	2	Standard +.050mm		185-2026	1	-0.20mm
3	185-5568	2	Pin, Piston		185-5357	1	-0.40mm
4	185-2016	4	Circlip, Piston Pin	14	185-5581	1	Bearing Standard
5	185-5569	2	Rod Assy, Connecting (Includes Bush, Bolt, and Bearing)		185-5360	1	-0.20mm
6	185-5358	2	Bush, Piston Pin		185-5361	1	-0.40mm
7	185-5571	2	Bearing Standard	15	185-2353	1	Key, Feather
	185-5572	2	-0.20mm	16	185-5577	1	Bearing Standard
	185-5573	2	-0.40mm		185-5578	1	-0.20mm
8	185-5570	4	Bolt, Connecting Rod		185-5579	1	-0.40mm
9	184-0046	1	Crankshaft Assy (Includes Sleeve, Crankshaft and Ball)	17	185-5576	1	Gear
10	185-2033	1	Sleeve	18	185-5583	1	Slinger, Oil
				19	184-0021	1	O'Ring
				20	185-5582	1	Collar, Crankshaft

Piston and Crankshaft (Spec C)



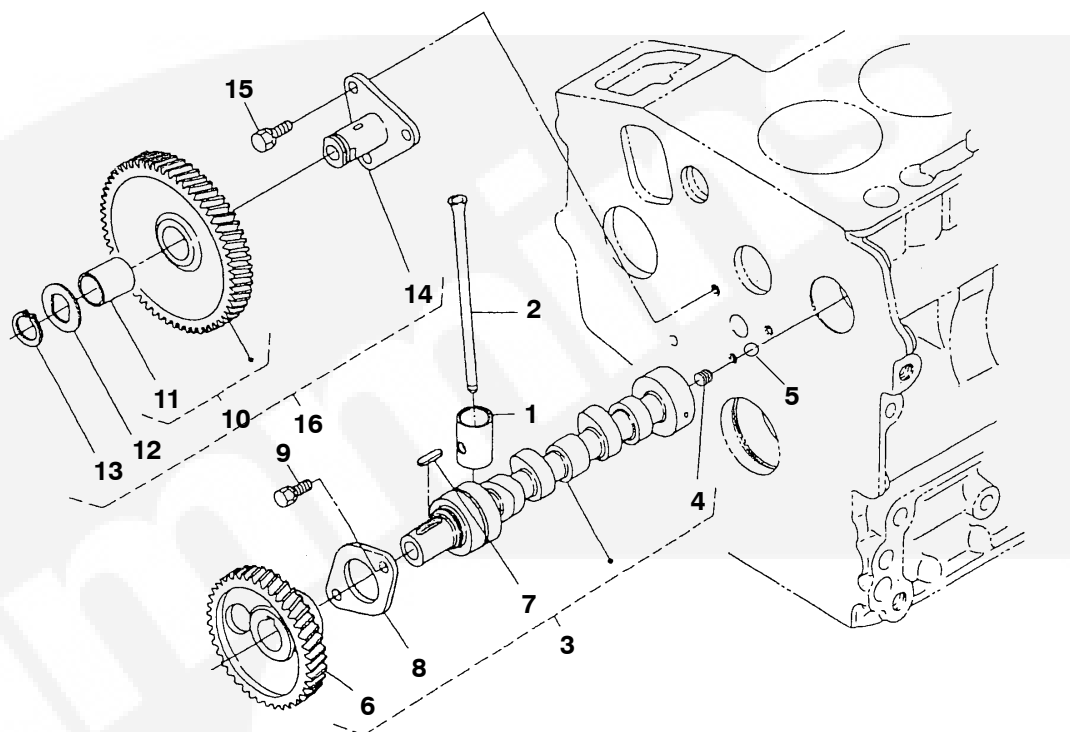
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5566	2	Piston	12	185-5580	1	Bearing
	185-5350	2	Standard		185-2026	1	Standard
2			Ring Assy, Piston		185-5357	1	-0.20mm
	185-7076	2	Standard				-0.40mm
	185-7386	2	+0.25mm	13			Bearing
3	185-5568	2	Pin, Piston		185-5581	1	Standard
4	185-2016	4	Circlip, Piston Pin		185-5360	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	+0.40mm

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	12	185-2033	1	Sleeve
	185-5350	2	Standard	13	185-5576	1	Gear
2			Ring Assy, Piston	14	185-2353	1	Key, Feather
	185-7076	2	Standard	15			Bearing
	185-7386	2	+0.25mm		185-5577	1	Standard (Spec D-G)
3	185-5568	2	Pin, Piston		A047P585	1	Standard (Spec H)
4	185-2016	4	Circlip, Piston Pin		185-5578	1	-0.20mm (Spec D-G)
5	181-9162	2	Rod Assy, Connecting (Includes Bush, Bolt, and Bearing)		A047P588	1	-0.20mm (Spec H)
6	185-5358	2	Bush, Piston Pin		185-5579	1	-0.40mm (Spec D-G)
7	185-5570	4	Bolt, Connecting Rod		A047P591	1	-0.40mm (Spec H)
8			Bearing	16			Bearing
	185-5571	2	Standard		185-2022	1	Standard
	185-5572	2	-0.20mm (Spec D-G)		185-2028	1	-0.20mm
	A047P563	2	-0.20mm (Spec H)		185-2029	1	-0.40mm
	185-5573	2	-0.40mm (Spec D-G)	17			Bearing
	A047P581	2	-0.40mm (Spec H)		185-2023	1	Standard
9	104-2099	1	Crankshaft Assy (Includes Sleeve, Crankshaft and Ball)		185-2030	1	-0.20mm
10	104-2173	1	Component, Camshaft		185-2031	1	-0.40mm
11	185-5573	2	Ball	18	185-5582	1	Collar, Crankshaft
				19	185-5583	1	Slinger, Oil
				20	184-0021	1	O'Ring

Camshaft

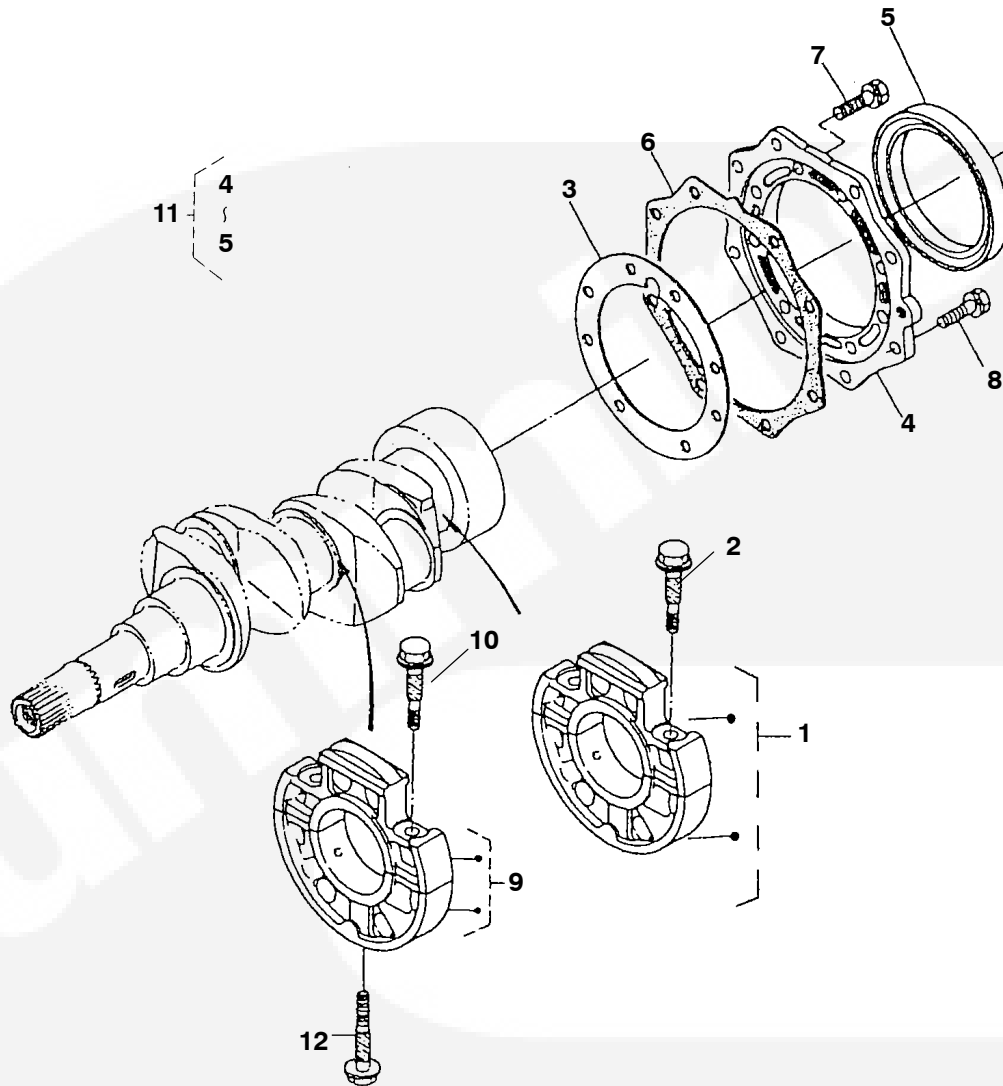


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5554	4	Tappet		A047P356	1	(Spec H)
2			Rod, Push	11		1	+ Bush
	185-5554	4	Spec A-C		185-7385	1	(Spec A-G)
	181-9159	4	Begin Spec D		A047P360	1	(Spec H)
3			Camshaft Assy (Includes Parts Marked *)	12	185-5563	1	+ Collar, Idle Gear
	185-7384	1	Spec A-C	13	185-5564	1	+ Ring, Snap
	105-0768	1	Spec D-G	14	185-5565	1	+ Shaft, Idle Gear
	A047P353	1	Spec H	15	185-2387	3	Bolt
4	185-5558	1	*Screw, Set (Spec A)	16		1	Gear, Idle (Includes Parts Marked +)
5	185-5924	1	*Ball (Spec C-D)		181-9077	1	(Spec A-G)
6	185-7075	1	*Gear, Cam		A040P552	1	(Spec H)
7	185-5560	1	*Key, Feather				
8	185-5561	1	*Stopper, Camshaft				
9	185-2386	2	Bolt				
10			+ Gear, Idle (Includes Bush)				
	185-5562	1	(Spec A-G)				

* - Parts Included in Camshaft Assy.

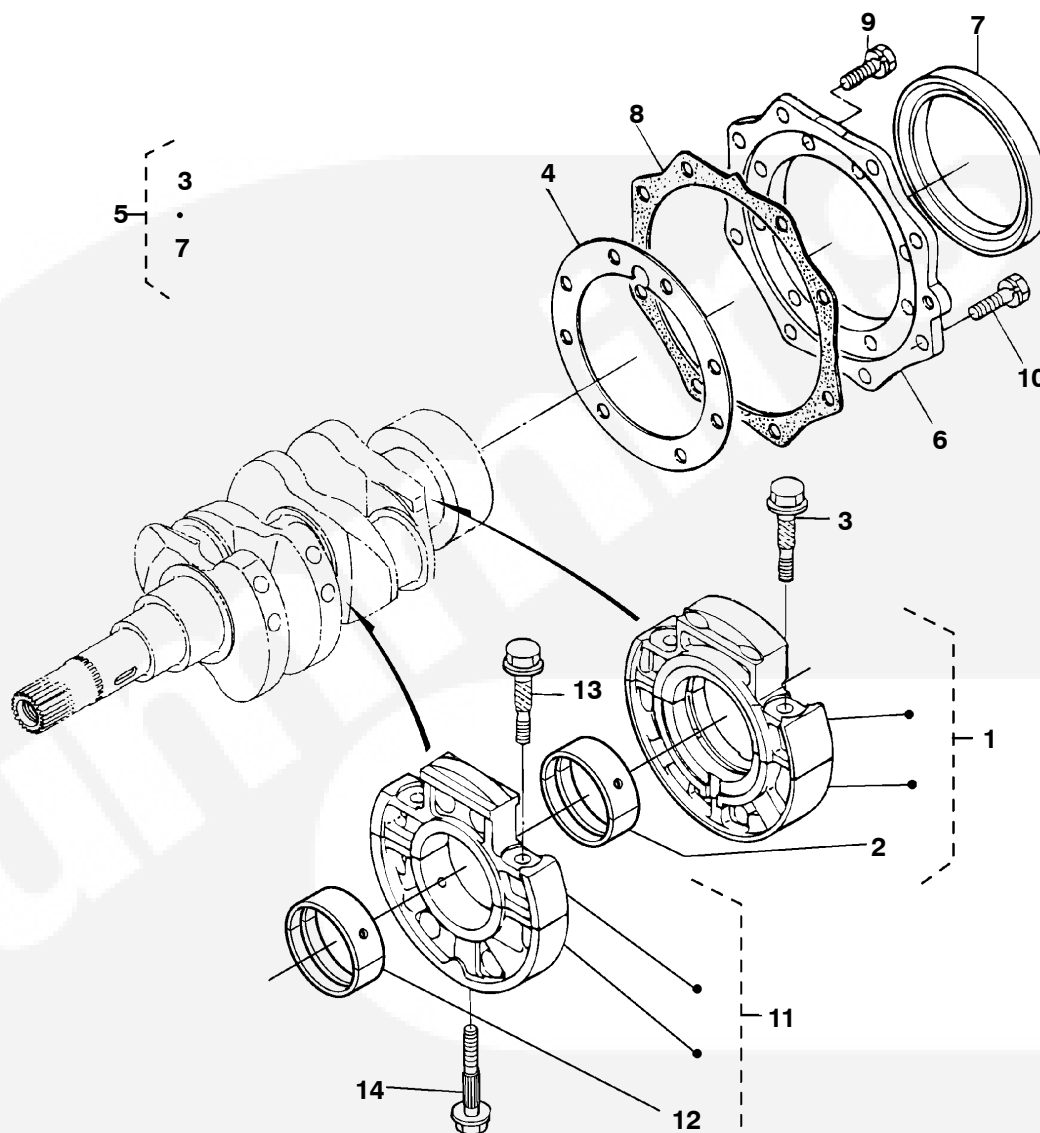
+ - Parts Included in Idle Gear Assy.

Main Bearing Case (Spec A-C)



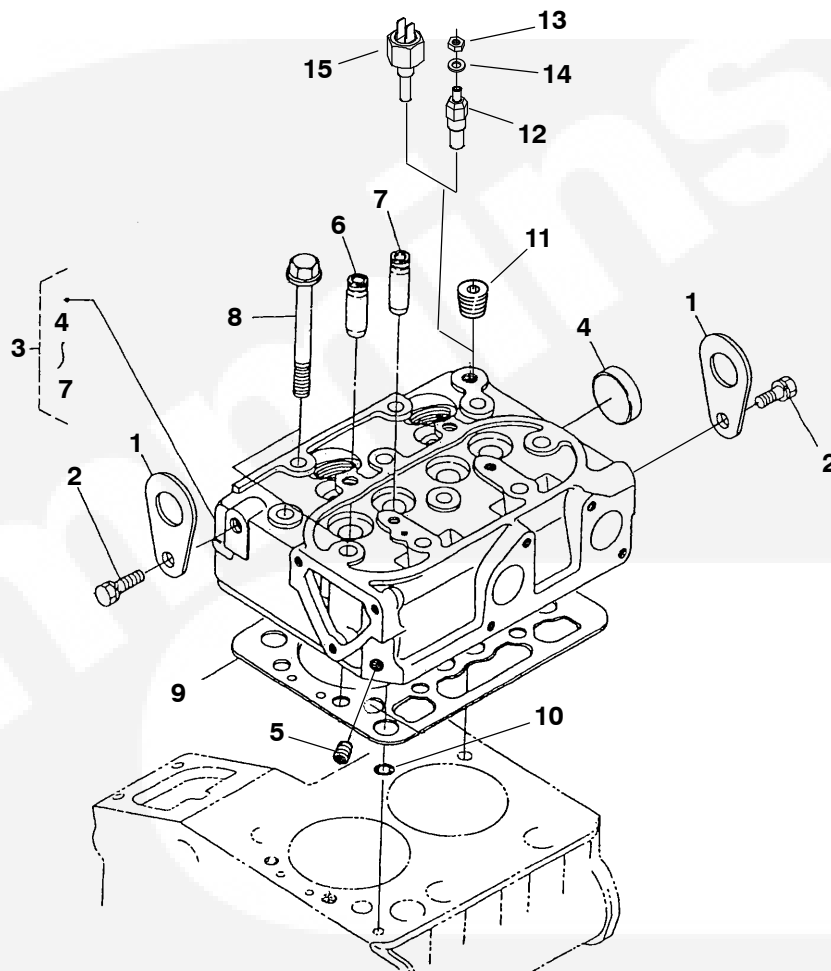
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7072	1	Case, Main Bearing (Includes Pins)	6	185-7383	1	Gasket
2	185-5575	2	Bolt, Flange	7	185-2390	8	Bolt
3	185-5438	1	Gasket, Bearing Case Spec A-C	8	185-2559	8	Bolt
4	185-5516	1	Cover, Bearing Case	9	185-5517	1	Case, Main Bearing
5	A040R304	1	Seal, Oil	10	185-5515	2	Bolt, Bearing Case
				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			Case, Main Bearing (Includes Pins)	A040R304	1		(Spec D-G)
	232-4193	1	(Spec D-G)	A047P335	1		(Spec H)
	A047P305	1	(Spec H)	8	185-7383	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			Screw, Bearing Case		185-5581	1	Std Set
	185-5515	2	(Spec D-G)		185-5360	1	0.20mm Set
	A047P313	2	(Spec H)		185-5361	1	0.40mm Set
4	185-5438	1	Gasket, Bearing Case	13	185-5515	1	Screw, Bearing Case
5	185-7073	1	Cover, Bearing Case	14	185-5519	1	Bolt, Bearing Case
6	185-5516	1	Cover, Bearing Case	15	A047P327	2	Pin, Straight
7			Seal ,Oil				

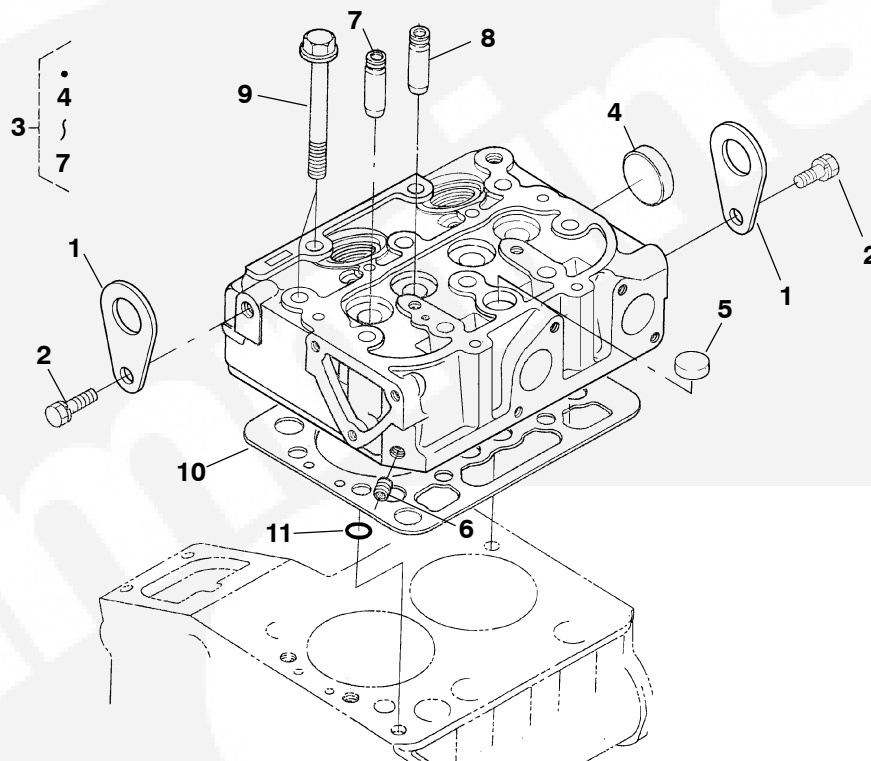
Cylinder Head (Spec A-B)



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.

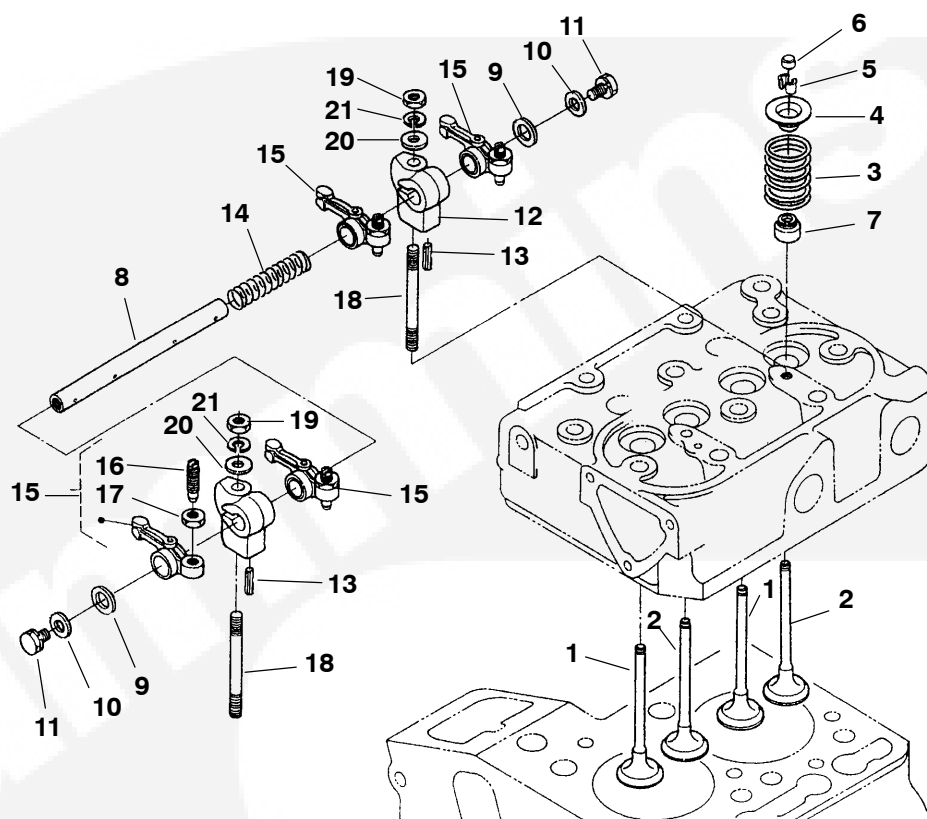
Cylinder Head (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2414	2	Hook, Engine	8	185-5501	2	Guide, Exhaust Valve
2	185-2563	2	Bolt	9	185-5503	10	Bolt, Cylinder Head
3	181-9243	1	Head, Cylinder (Includes Cap, Plug and Guides)	10		1	Gasket, Cylinder Head
	110-4095	1	Spec C-G		185-5339	1	(Spec C-G)
	A047P273	1	(Spec H)		A047P276	1	(Spec H)
4	185-2411	1	Cap, Sealing	11	185-2095	1	O'Ring (Spec A-C)
5	185-2413	1	Cap, Sealing				
6	185-2188	1	Plug				
7	185-5500	2	Guide, Inlet Valve				

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

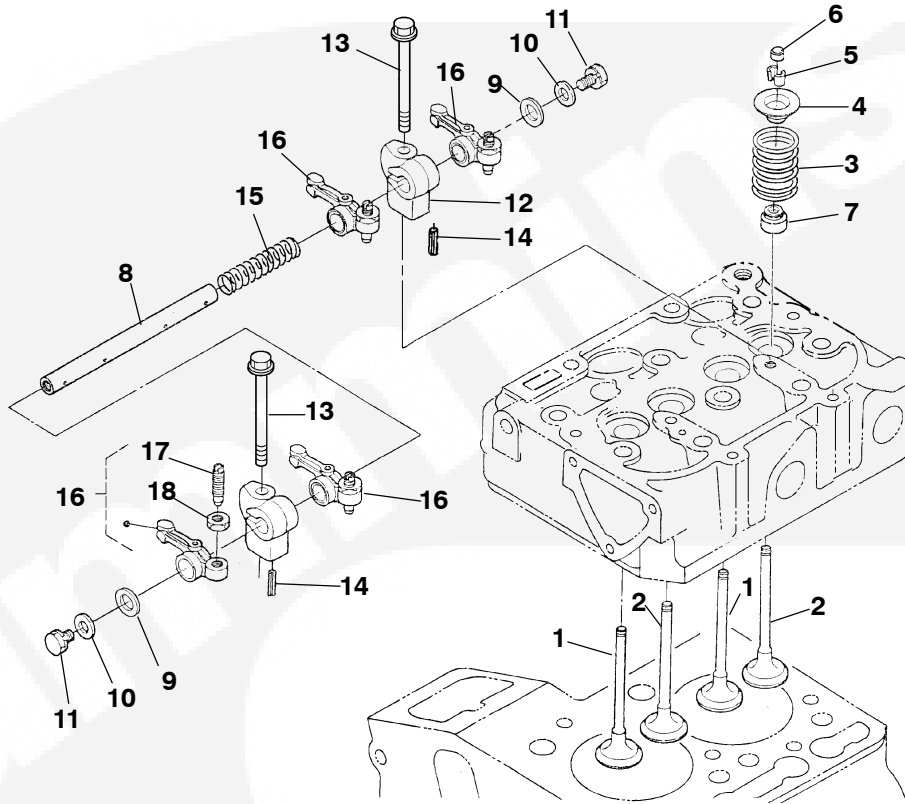
Rocker Arm (Spec A-B)



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

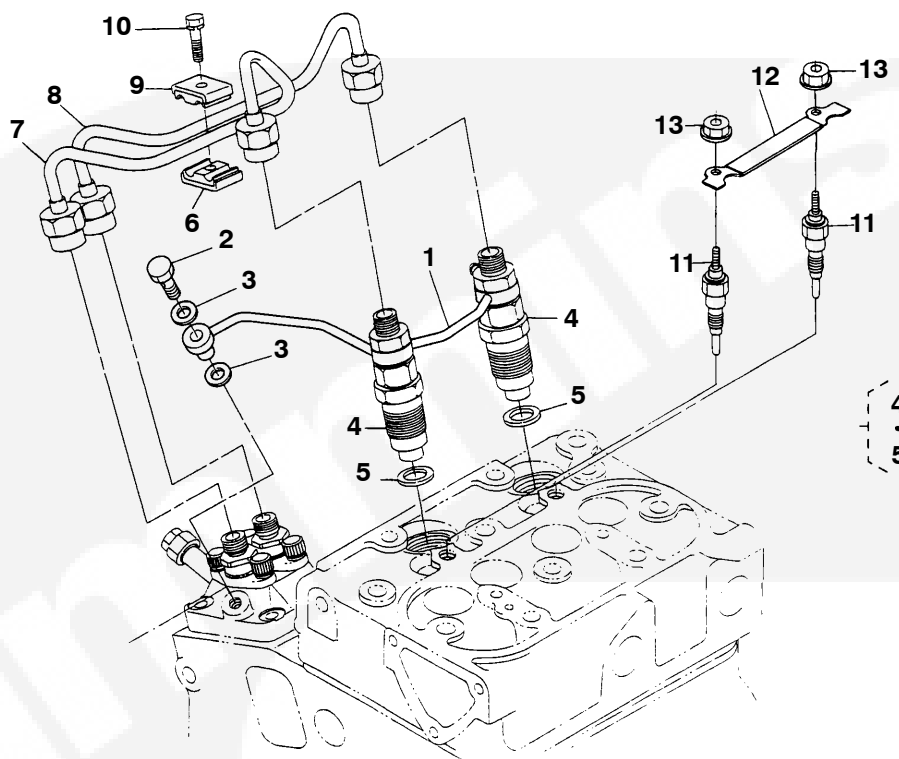
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	185-5546	2	Bracket, Rocker Arm
13	185-2351	2	Pin, Spring
14	185-5550	1	Spring, Rocker Arm
15	185-5551	4	Arm Assy, Rocker
16	185-5552	4	Screw, Adjusting
17	185-5553	4	Nut
18	185-5547	2	Stud
19	185-4255	2	Nut
20	740-1004	2	Washer, Plain
21	185-2380	2	Washer,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

Rocker Arm (Begin Spec C)



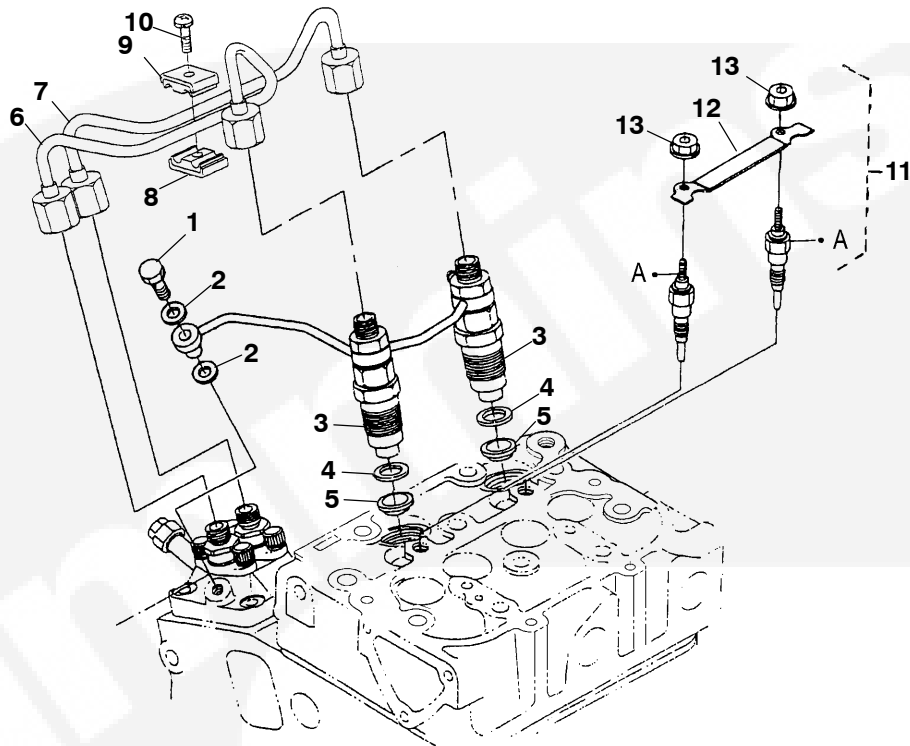
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Valve, Inlet	8	185-7394	1	Shaft, Rocker Arm
	185-5537	2	Spec C	9	185-7086	2	Washer
	110-3990	2	Begin Spec D	10	185-7395	2	Washer, Plain
2			Valve, Exhaust	11	185-2386	2	Bolt
	185-5538	2	Spec C	12	181-9251	2	Bracket,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

Nozzle Holder (Spec A-B)



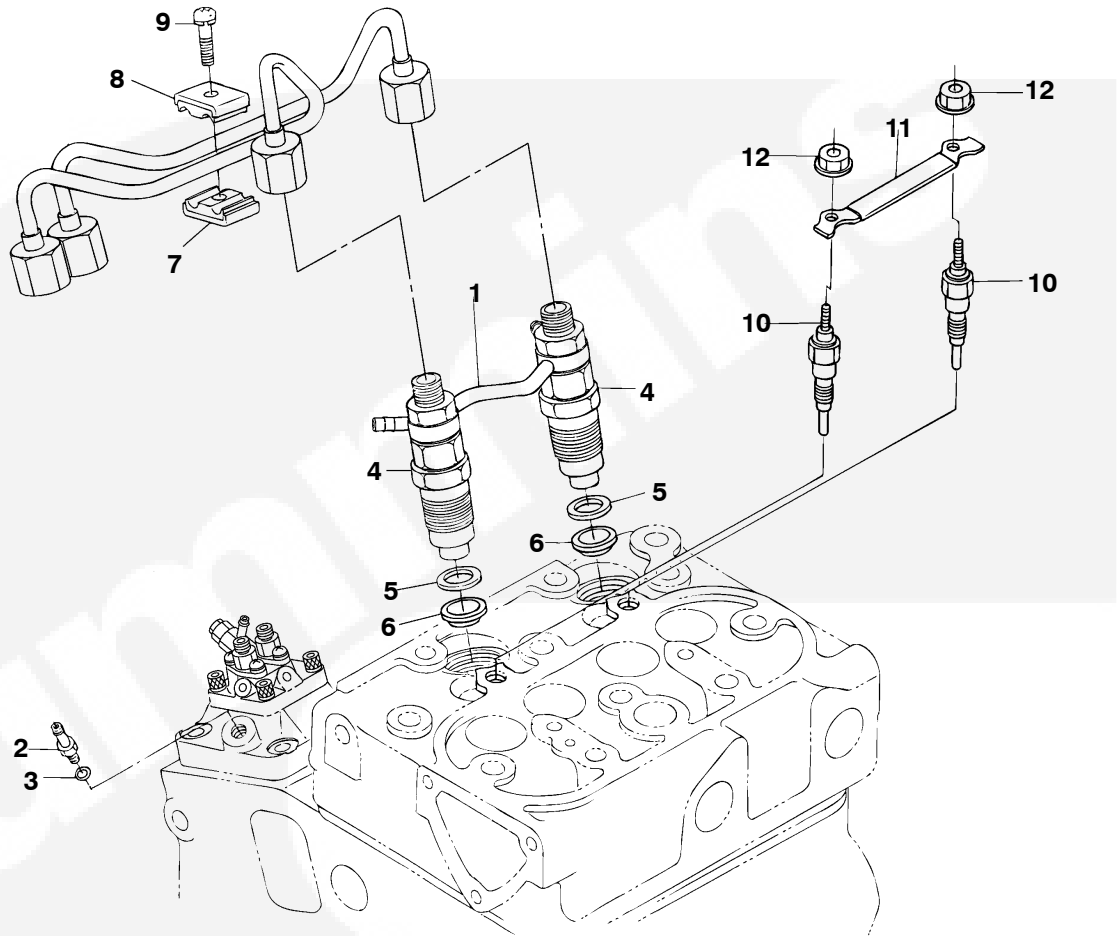
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	184-0035	1	Kit, Nozzle Holder (Includes Nozzle Holder and Gasket)	7	184-0041	1	Pipe, Injection
1	184-0062	1	Pipe Assy, Overflow	8	184-0042	1	Pipe, Injection
2	185-7082	1	Screw, Air Bleeder	9	185-2345	1	Clamp, Top Pipe
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)



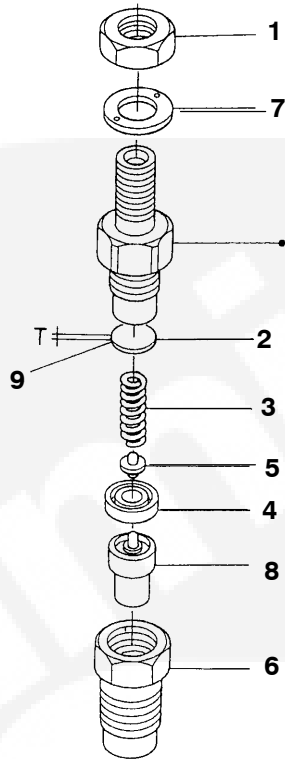
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6738	1	Kit, Nozzle Holder (Includes Nozzle Holder and Gasket)	7	181-9168	1	Pipe, Injection
1	185-7082	1	Screw, Air Bleeder	8	185-5612	1	Clamp, Bottom Pipe
2	185-2284	2	Gasket	9	185-2345	1	Clamp, Top Pipe
3	185-6738	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

Nozzle Holder (Begin Spec D)



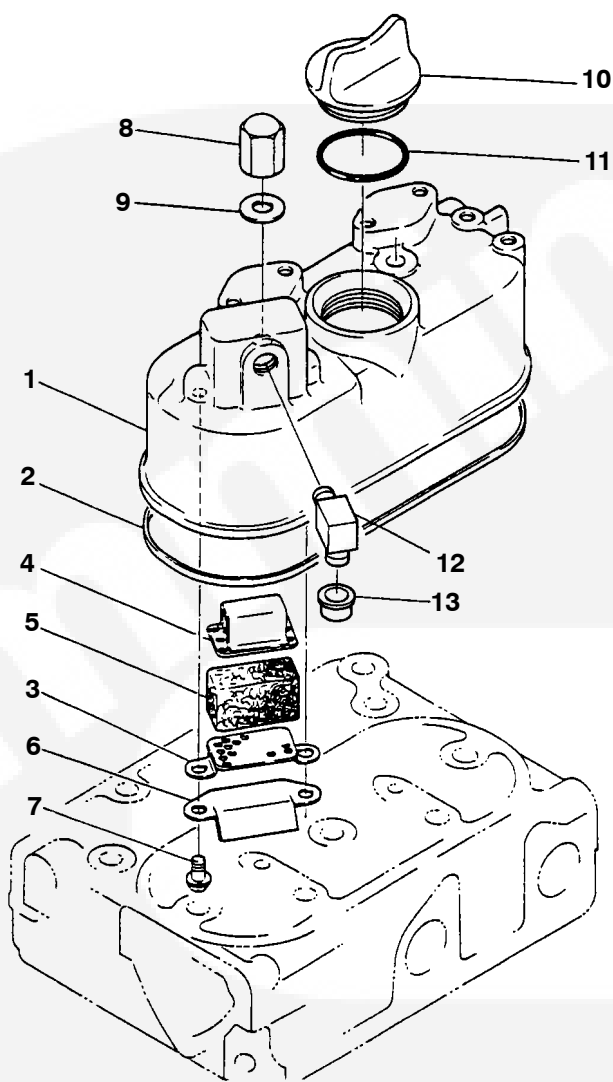
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6738	2	Kit, Nozzle Holder (Includes Nozzle Holder and Gasket)	6	185-5985	2	Seal, Heat
1	181-9232	1	Pipe Assy, Overflow	7	185-5612	1	Clamp, Bottom Pipe
2	185-7082	1	Screw, Air Bleeder	8	185-2345	1	Clamp, Top Pipe
3	185-2284	2	Gasket	9	185-2385	1	Screw, Pan Head Machine
4	185-6738	2	Holder, Nozzle	10	185-5421	2	Plug, Glow (HR5)
5	185-5337	2	Gasket	11	185-5614	2	Cord, Glow Plug
				12	185-5615	2	Nut, Flange

Nozzle Holder Components



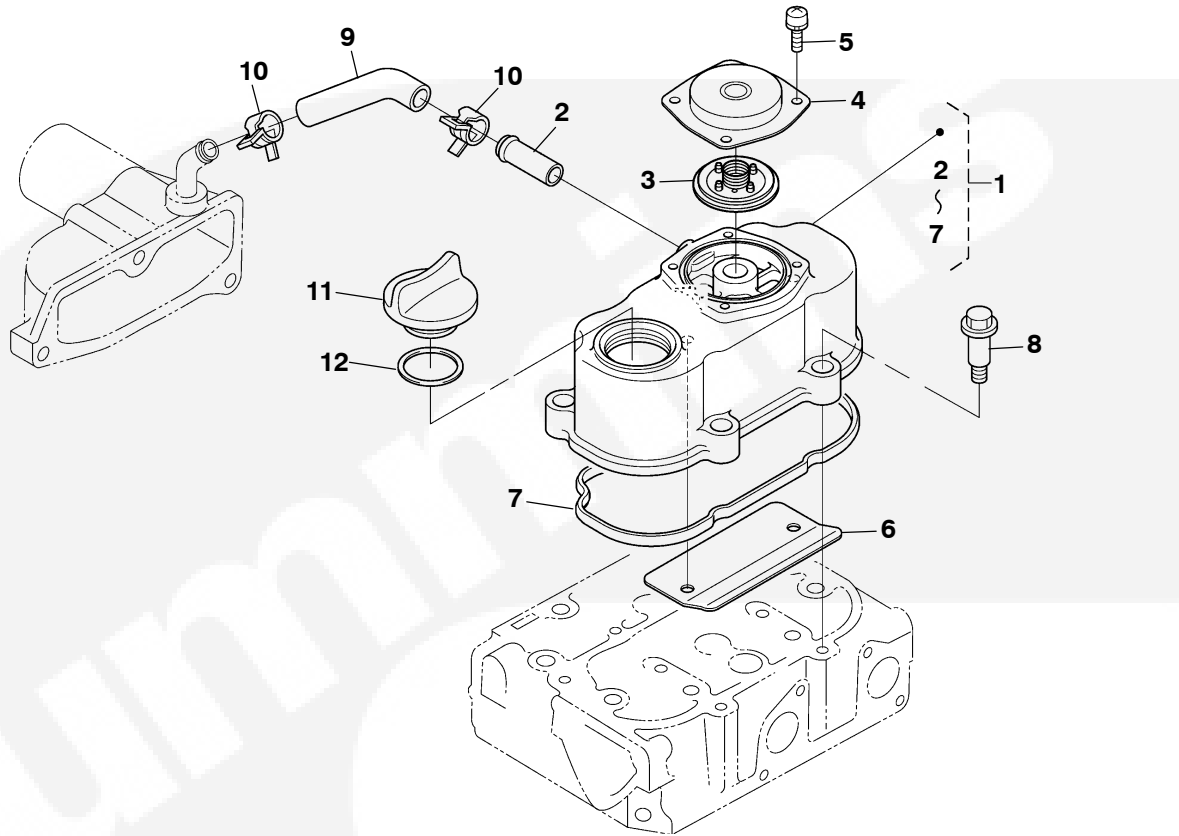
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6738	1	Holder Assy, Nozzle		185-5381	2	1.325 mm
1	185-5616	2	Nut, Hex		185-5382	2	1.350 mm
2	185-5364	2	Washer, Adjusting		185-5383	2	1.375 mm
3	185-5617	2	Spring		185-5384	2	1.400 mm
4	185-5618	2	Spacer		185-5385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

Cylinder Head Cover (Spec A-B)



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				

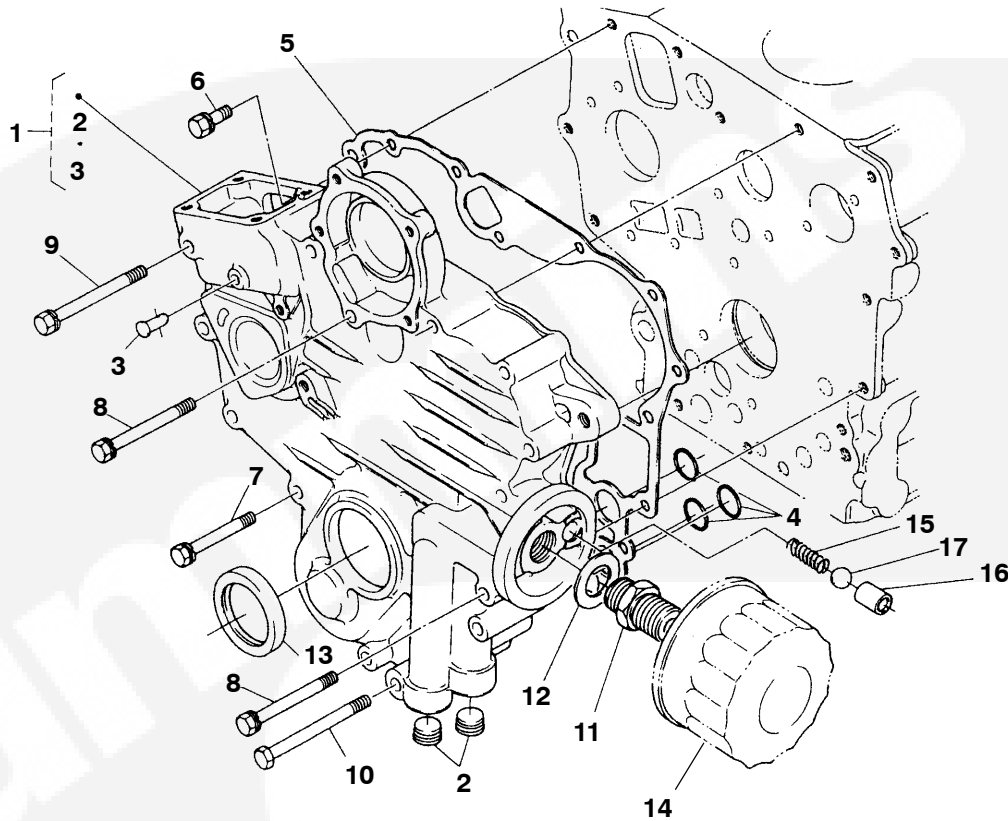
Cylinder Head Cover (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9245	1	Cover, Cylinder Head
2	185-5716	1	Pipe, Water Return
3			Comp. Valve Breather
	181-9240	1	Spec C
	123-2264	1	Begin Spec D
4			Cover, Breather
	181-9239	1	Spec C
	181-9238	1	Begin Spec D
5	185-2384	4	Screw, with Washer

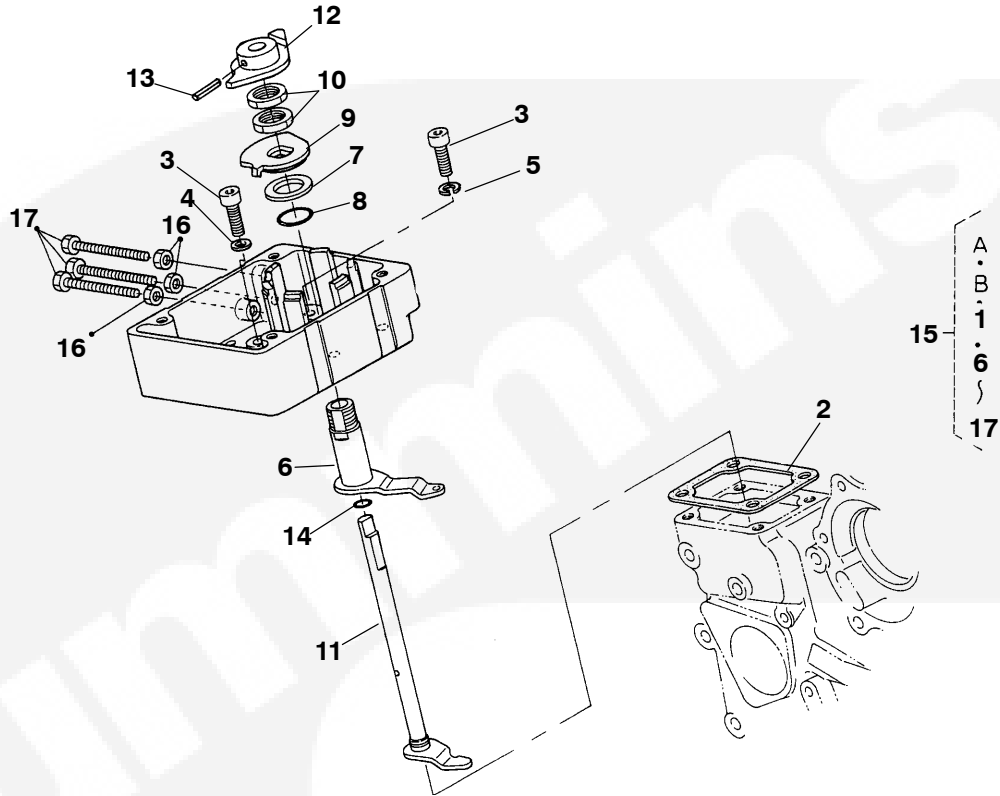
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	181-9248	1	Shield, Breather (Spec C)
7	181-9246	1	Gasket, Rocker Cover
8	800-6330	4	Bolt
9			Tube, Breather
	123-2351	1	(Spec C-G)
	A040R302	1	(Spec H)
10	503-1445-04	2	Clamp, Hose
11	181-9000	1	Plug, Oil Filler
12	185-7426	1	O'Ring

Gearcase



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
	184-0043	1	Spec A-C	9			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	185-7444		Filter, Oil
	103-0860	1	Begin Spec D	15	185-5509	1	Spring
6	185-2389	1	Bolt	16	185-5510	1	Seat, Valve
7	185-7069	8	Bolt	17	185-6711	1	Ball

Speed Control Plate

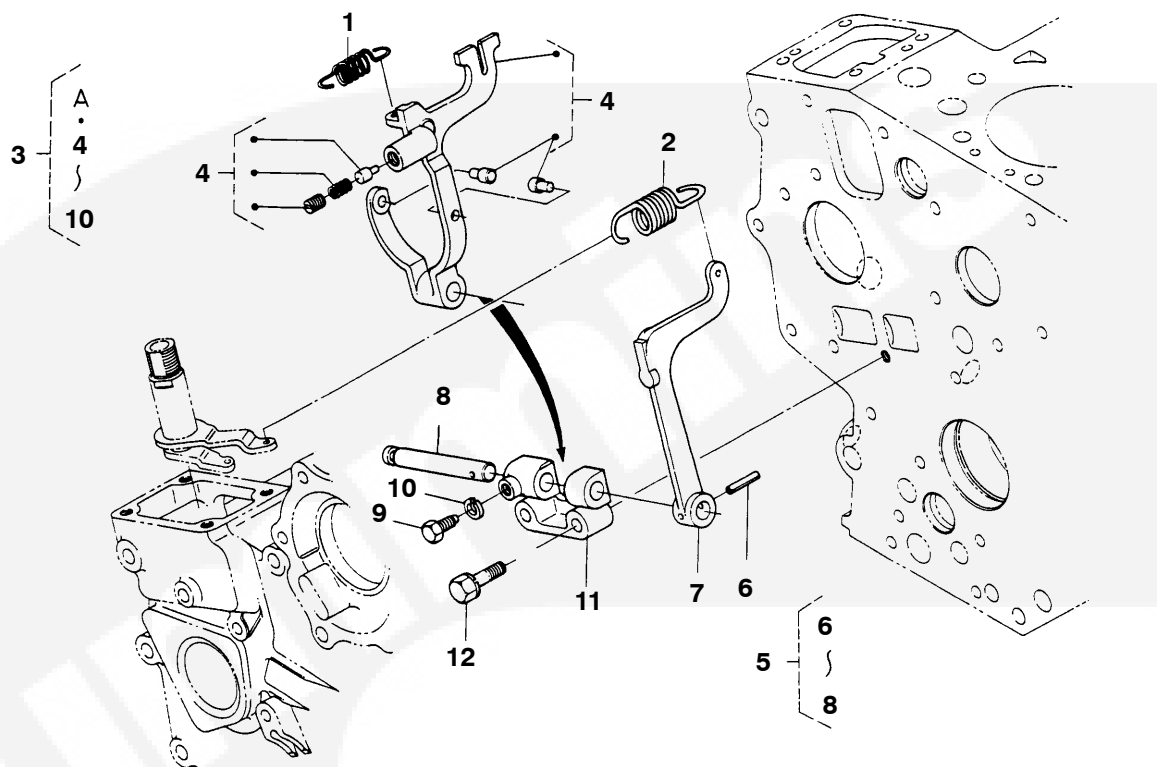


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0055	1	*Plate, Speed Control
2	A040P262	1	Gasket
3	184-0013	4	Screw, Hex Head Cap W/Lock Washer (M6 x 18mm)
4	185-6759	2	Washer, Spring
5	185-2284	2	Gasket
6	185-6939	1	*Lever, Governor
7	184-0057	1	*Collar
8	184-0019	1	*O'Ring
9	184-0056	1	*Lever, Speed Control (Includes Parts Marked *)
10	185-5693	2	*Nut, Jam Hex
11	184-0060	1	*Shaft, Lever

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	184-0059	1	*Lever, Engine Stop
13	185-5696	1	*Pin, Spring
14	184-0017	1	*O'Ring
15	185-7267	1	Plate Assy, Speed Control
16	185-4255	3	Nut
17	181-9205	3	Screw

* - Parts Included in Speed Control Plate Assy.

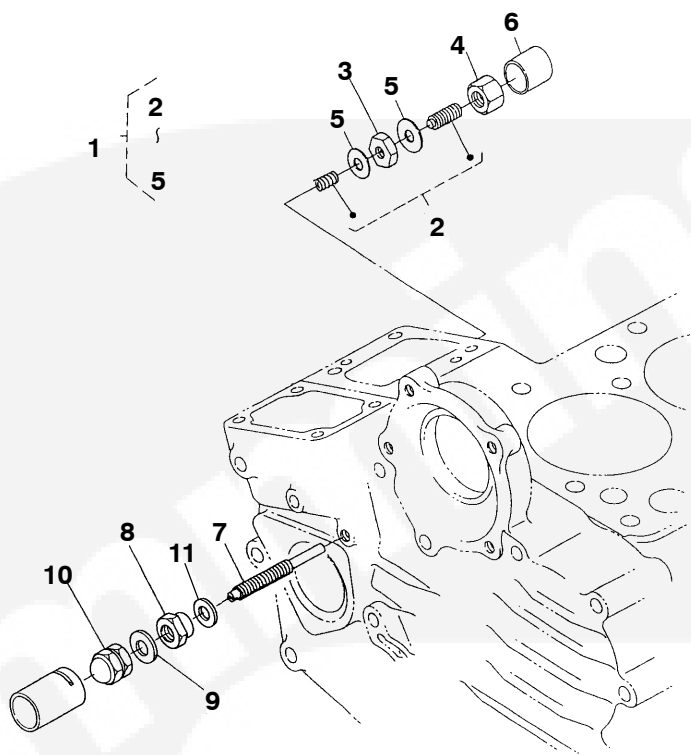
Fork Lever



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	*Lever, Inner Fork	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

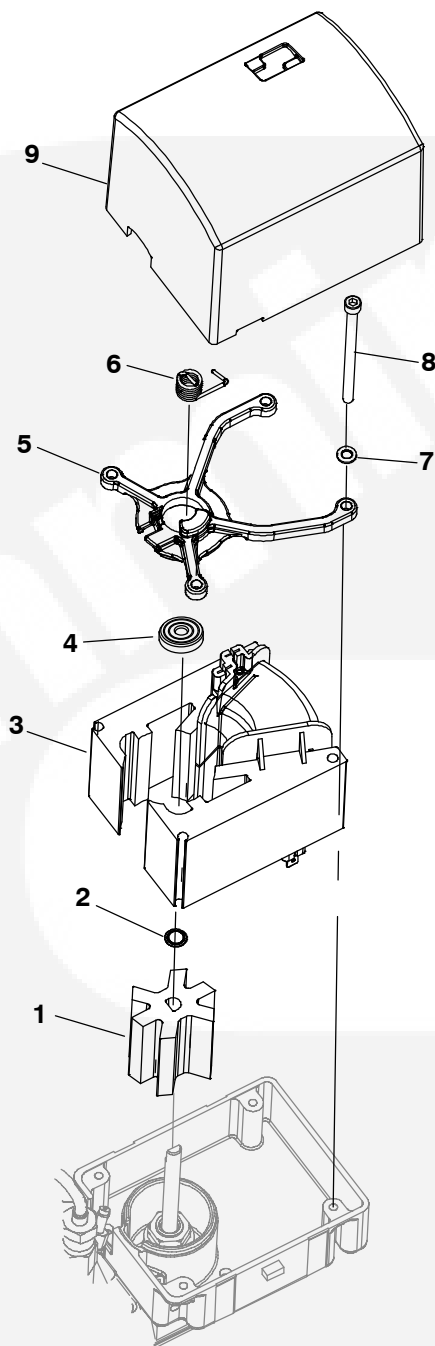
* - Parts Included in Fork Lever Assy.

Engine Stop Lever



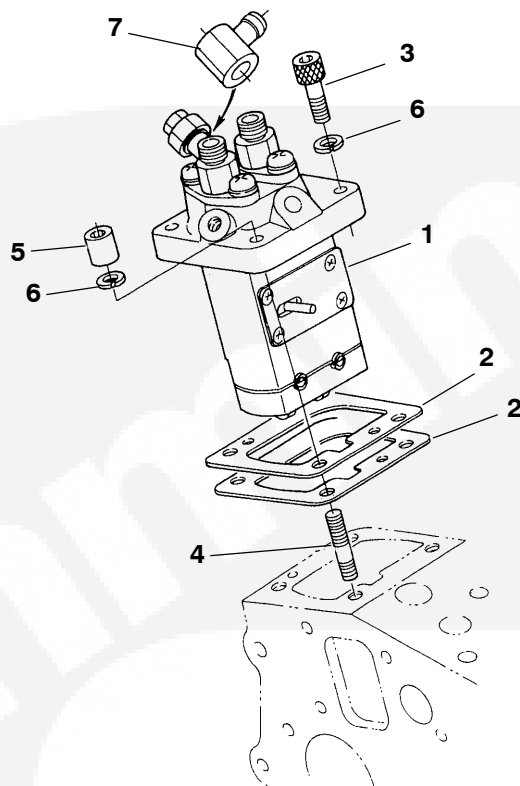
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Apparatus Assy, Idle (Includes Bolt, Nuts and Gaskets)	6	185-5682	1	Cap
2	185-5680	1	Bolt Assy, Adjusting	7	185-7078	1	Bolt, Adjusting
3	185-2180	1	Nut	8	185-5684	1	Nut
4	185-5681	1	Nut	9	185-2284	2	Gasket
5	185-2338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

Governor



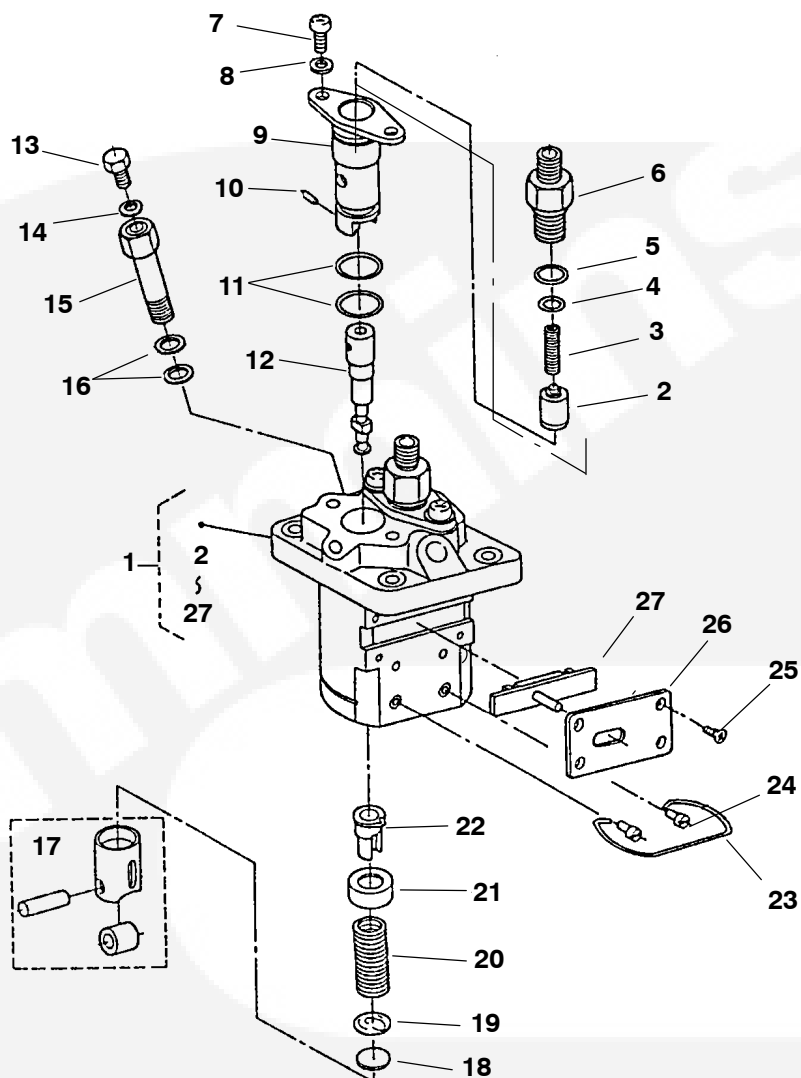
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2639	1	Rotor, Governor	6	150-2724	1	Spring, Governor
2	518-0672	1	Ring, Retainer	7	740-1002	4	Washer, Flat (M5)
3	150-2630	1	Stator	8	815-0877	4	Screw, Socket Head Cap
4	510-0184	1	Bearing, Ball	9	150-2641	1	Cover,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

Injection Pump (Spec A-B)



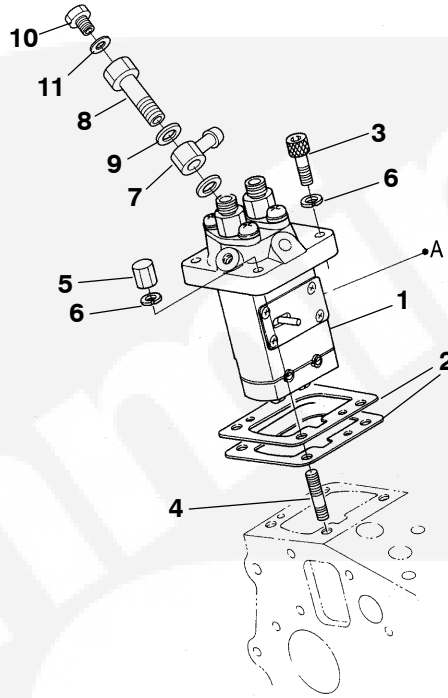
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9080	1	Pump Assy, Injection	3	185-5623	3	Bolt, Hex Socket Head
2			Shim, Injection Pump	4	185-5624	1	Stud
	185-6735	1	0.20mm	5	185-5625	1	Nut
	185-6736	1	0.25mm	6	185-6759	4	Washer, Spring
	185-6737	1	0.30mm	7	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	181-9080	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				

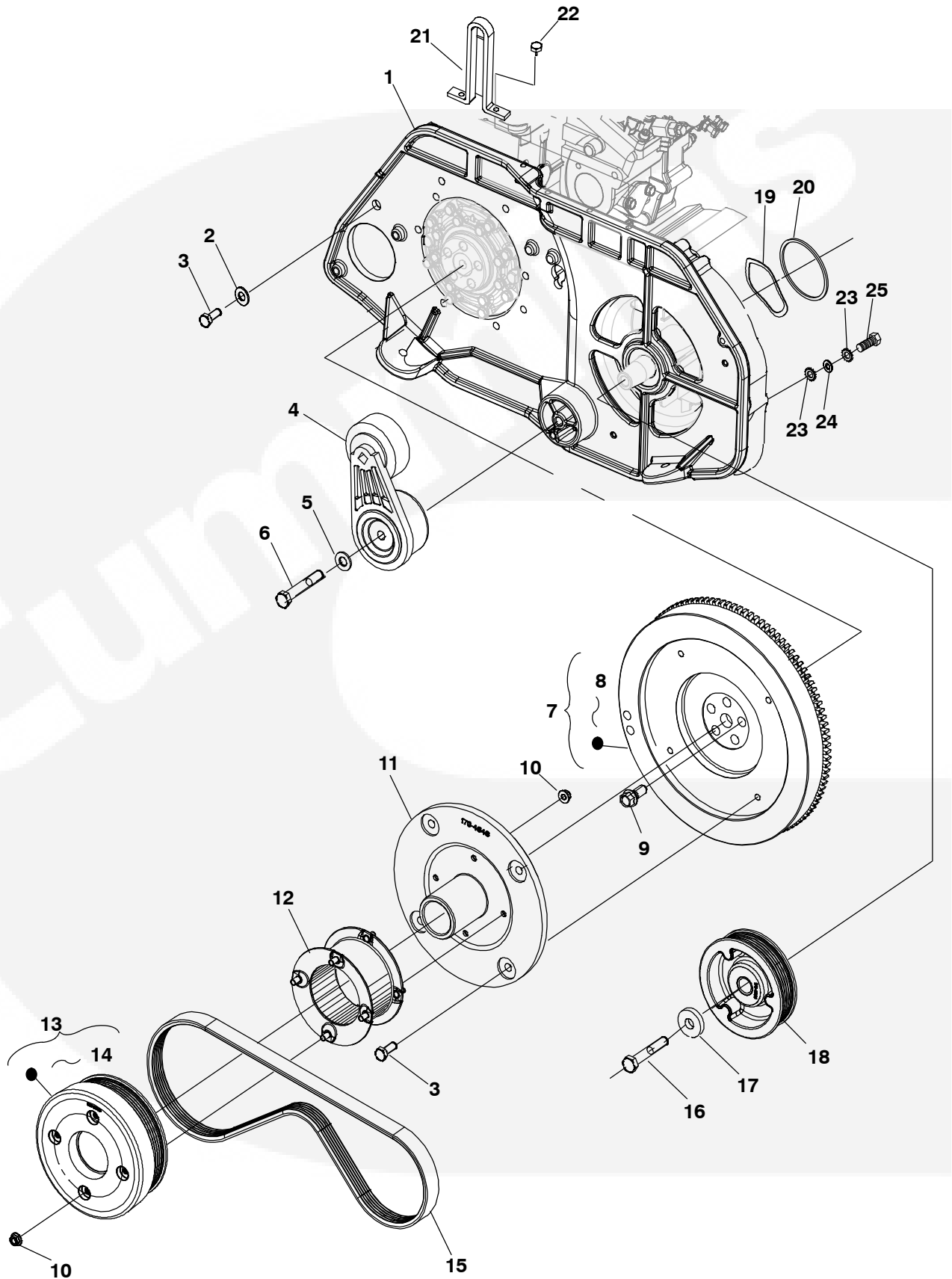
Injection Pump (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	181-9080	1	Pump Assy, Injection (Spec C-G)	4	185-5624	1	Stud
	A047P603	1	(Spec H)	5	185-5625	1	Nut
2	147-0981	1	Shim, Injection Pump 0.175mm	6	185-6759	4	Washer, Spring (Spec C)
	185-6735	1	0.20mm	7	185-5626	1	*Joint, Eye
	185-6736	1	0.25mm	8	185-5660	1	*Screw, Hollow
	185-6737	1	0.30mm	9	185-5661	1	*Gasket
	147-0980	1	0.35mm	10	185-5662	1	*Screw
3	185-5623	1	Bolt, Hex Socket Head Spec C	11	185-5663	1	*Gasket
	800-6549	1	Begin Spec D				

* - Parts Included in Injection Pump Assy.

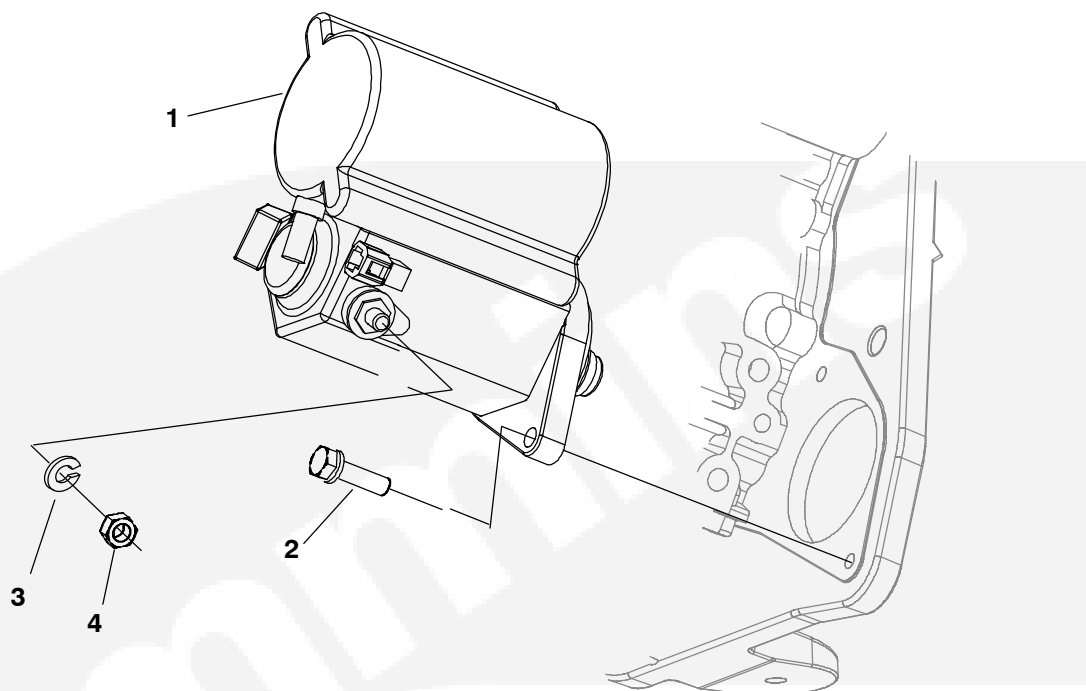
Flywheel



Flywheel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	101-0826-02	1	Adapter, Engine	15			Belt (6 Rib)
2	526-2100	8	Washer, Flat (M8)		511-0196	1	60Hz all Specs
3	800-2057	12	Screw, Hex Head Cap (M8 x 1.25 x 20mm)		511-0196	1	50Hz all Spec A-C
4	190-0757	1	Tensioner, Belt		511-0196-02	1	50Hz Begin Spec D
5	526-2120	1	Washer, Flat (M10)	16	800-2093	1	Screw, Hex Head Cap (M10 x 1.5 x 60mm)
6	815-0657	1	Screw, Hex Thread Form (3/8-16 x 2.75")	17	526-0017	1	Washer, Flat
7	104-1967-01	1	Flywheel Assy (Includes Ring Gear)	18			Pulley, Generator
8	104-1861	1	Gear, Ring		512-0205-01	1	60Hz all Specs
9	185-5587	5	Bolt, Flywheel		512-0205-01	1	50Hz all Spec A-C
10	870-2065-02	8	Nut, Hex (M6 x 1)		512-0399	1	50Hz Begin Spec D
11	232-4111	1	Hub, Flex Coupling	19	851-0045	1	Washer, Wave
12	512-0217	1	Coupling	20	509-0420	1	O'Ring
13	512-0248	1	Pulley Assy, Drive (Includes Bearings)	21	403-4546-02	1	Bracket, Lifting
14	512-0248	2	Bearing, Sleeve	22	718-1020	2	Screw, Hex Head Cap (M6 x 1 x 16mm)
				23	856-0006	2	Washer, ETIT Locking (1/4")
				24	526-0045	1	Washer
				25	800-6296-01	1	Screw, Hex Flange Head (M6 x 25mm)

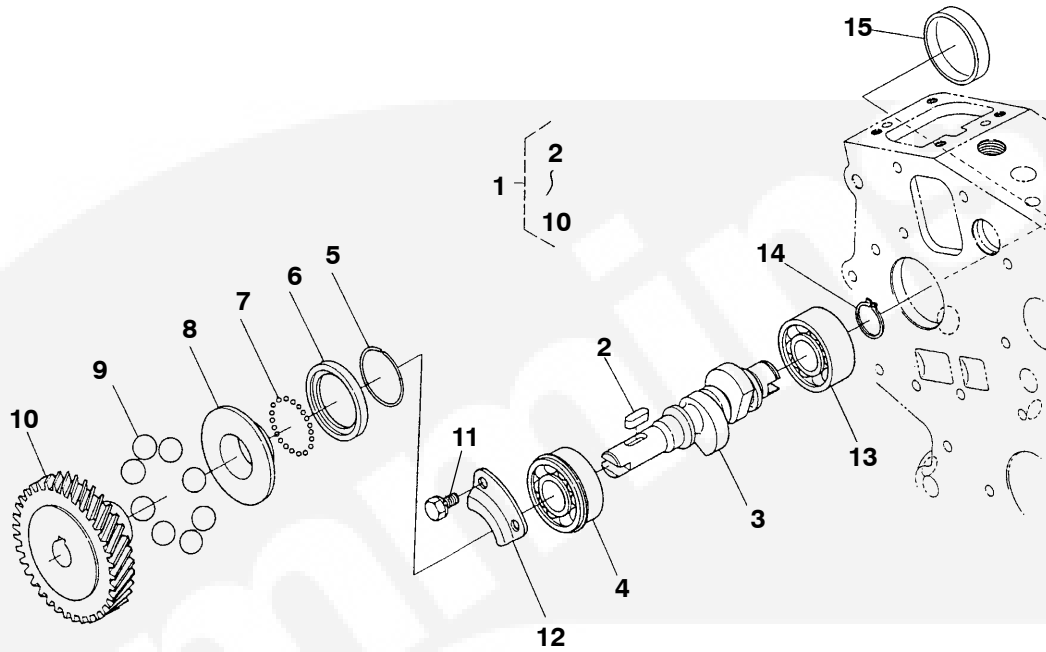
Starter



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)



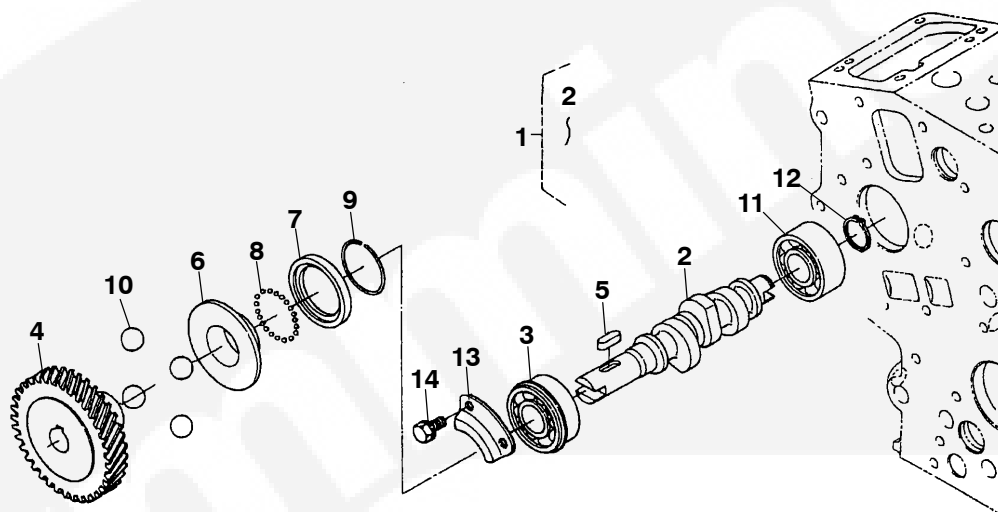
Fuel Camshaft (Spec A-B)



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.

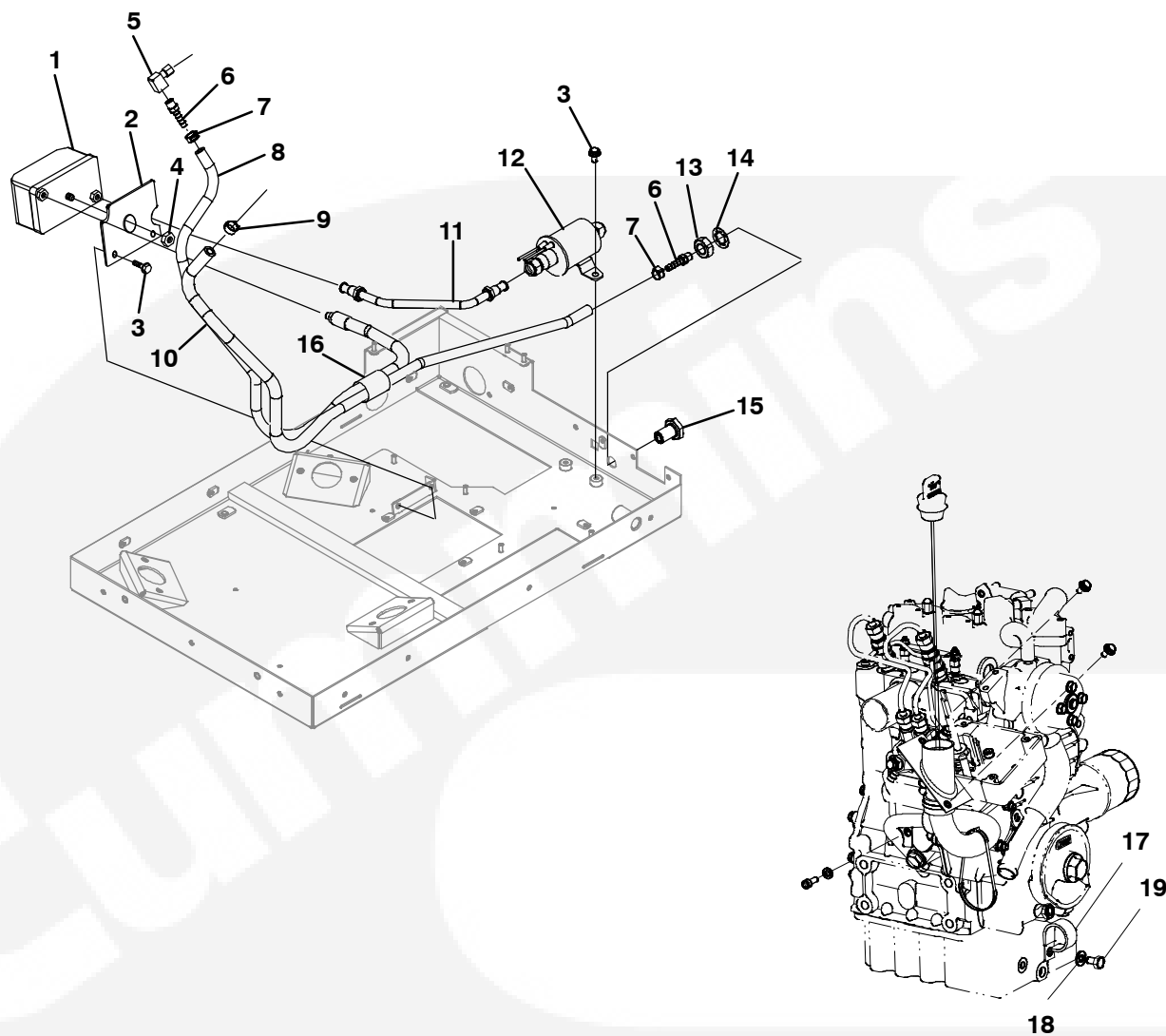
Fuel Camshaft (Begin Spec C)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Camshaft Assy, Fuel (Includes Parts Marked *)	185-5632	1		(Spec C-G)
	184-0049	1	(Spec C-G)	A047P600	1		(Spec H)
	A047P593	1	(Spec H)	8	185-2357	32	*Ball
2	185-5628	1	*Camshaft, Fuel	9	185-2163	1	*Circlip, External
3	185-5629	1	*Bearing, Ball	10	185-5633	8	*Ball
4			*Gear, Injection Pump	11	181-9182	1	Bearing, Ball
	185-5630	1	(Spec C-G)	12	185-5634	1	Circlip, External
	A047P596	1	(Spec H)	13	185-5635	1	Stopper, Fuel Camshaft
5	185-2353	1	*Key, Feather	14	185-2386	2	Bolt
6	185-5631	1	*Sleeve, Governor				
7			*Case, Governor Ball				

* - Parts Included in Fuel Camshaft Assy.

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	13	868-0007	1	Nut, Hex Jam (5/8-18)
2	149-2667-02	1	Bracket, Fuel Filter	14	854-0028	1	Washer, Locking (5/8ID")
3	821-2096-02	4	Screw, Lock Flanged	15	502-1296-02	1	Bulkhead, Fitting (Adapter Plug)
4	870-0257	1	Nut, Self Locking (5/16-18)	16	327-0923	1	Clamp, Loop (3/4")
5	502-1224	1	Elbow, 90° Female	17	327-0923	1	Clamp, J
6	502-1367-01	2	Connector, Hose	18	526-0115	1	Washer, Flat
7	503-1951-12	2	Clamp, Hose	19	800-2052	1	Screw, Hex Head
8	503-2052-01	1	Hose, Fuel				
9	503-1951-13	1	Clamp, Hose				
10	A029T839	1	Line, Fuel Injection Pump				
11	501-0804	1	Line, Fuel				
12	149-2790	1	Pump, Fuel (Electric)				

This diagram illustrates the exploded view of a 1.6L engine and its mounting bracket assembly. The main components are shown in two views: a top-down exploded view of the mounting bracket and a side view of the engine block.

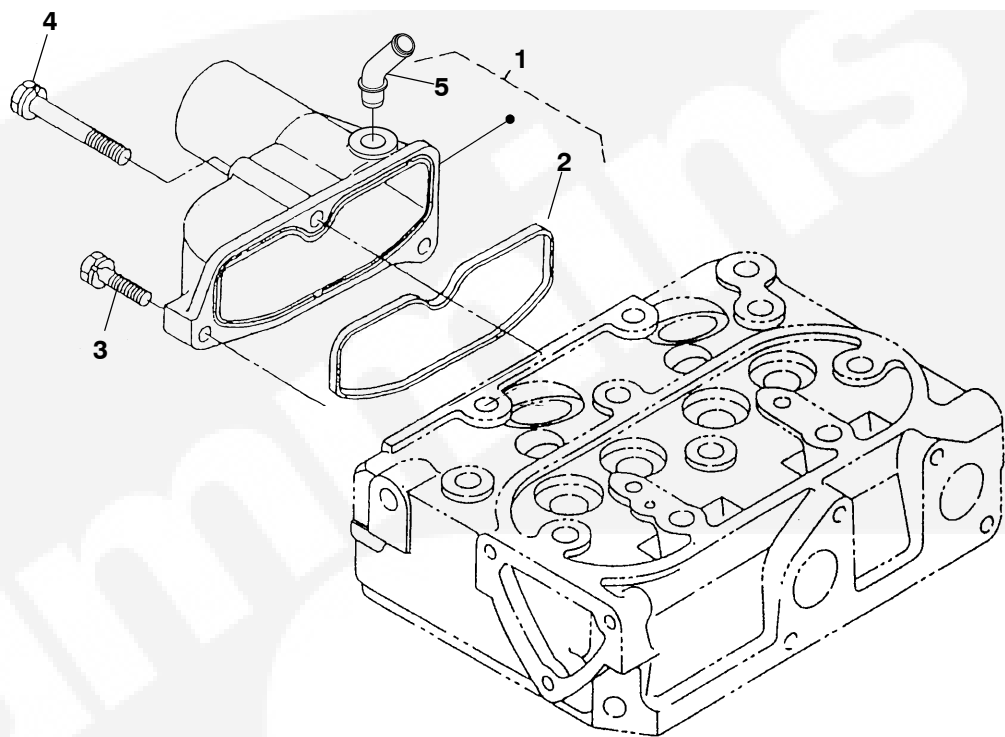
Top-down exploded view components (labeled 1-25):

- 1:** Mounting bracket base plate.
- 2:** Mounting bracket base plate (bottom view).
- 3:** Mounting bracket base plate (side view).
- 4:** Mounting bracket base plate (side view).
- 5:** Mounting bracket base plate (side view).
- 6:** Mounting bracket base plate (side view).
- 7:** Mounting bracket base plate (side view).
- 8:** Mounting bracket base plate (side view).
- 9:** Mounting bracket base plate (side view).
- 10:** Mounting bracket base plate (side view).
- 11:** Mounting bracket base plate (side view).
- 12:** Mounting bracket base plate (side view).
- 13:** Mounting bracket base plate (side view).
- 14:** Mounting bracket base plate (side view).
- 15:** Mounting bracket base plate (side view).
- 16:** Mounting bracket base plate (side view).
- 17:** Mounting bracket base plate (side view).
- 18:** Mounting bracket base plate (side view).
- 19:** Mounting bracket base plate (side view).
- 20:** Mounting bracket base plate (side view).
- 21:** Mounting bracket base plate (side view).
- 22:** Mounting bracket base plate (side view).
- 23:** Mounting bracket base plate (side view).
- 24:** Mounting bracket base plate (side view).
- 25:** Mounting bracket base plate (side view).

Side view components (labeled 16-18):

- 16:** Engine block.
- 17:** Engine block (bottom view).
- 18:** Engine block (side view).

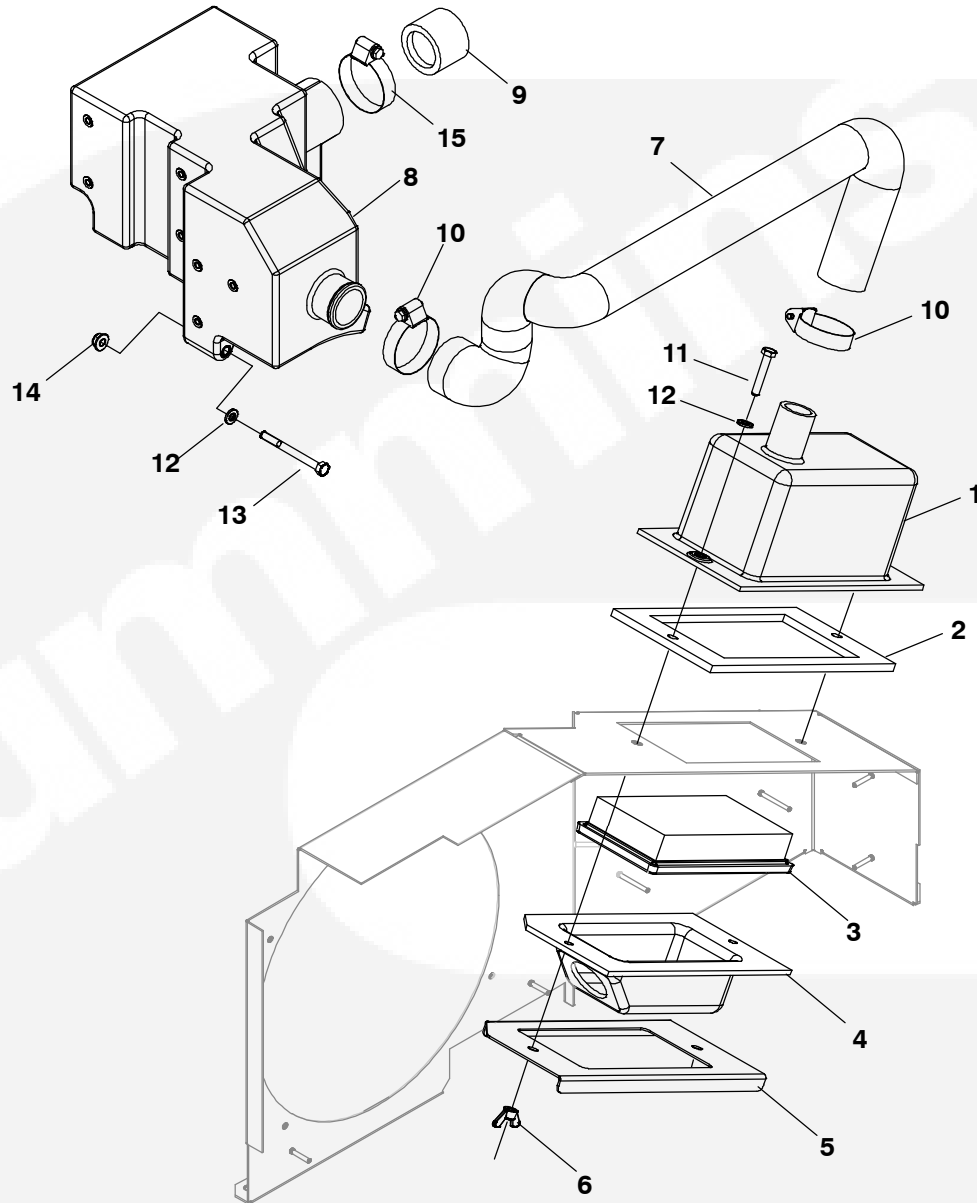
Inlet Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Manifold Assy, Inlet (Includes Gasket)	3	185-2389	2	Bolt
	185-5531	1	Spec A	4	185-5833	1	Bolt
	181-9244	1	Spec C-G	5			Pipe, Breather
	A047P613	1	Spec H		181-9256	1	Spec C-G
2	185-5335	1	Gasket, Inlet Manifold		A047P621	1	Spec H

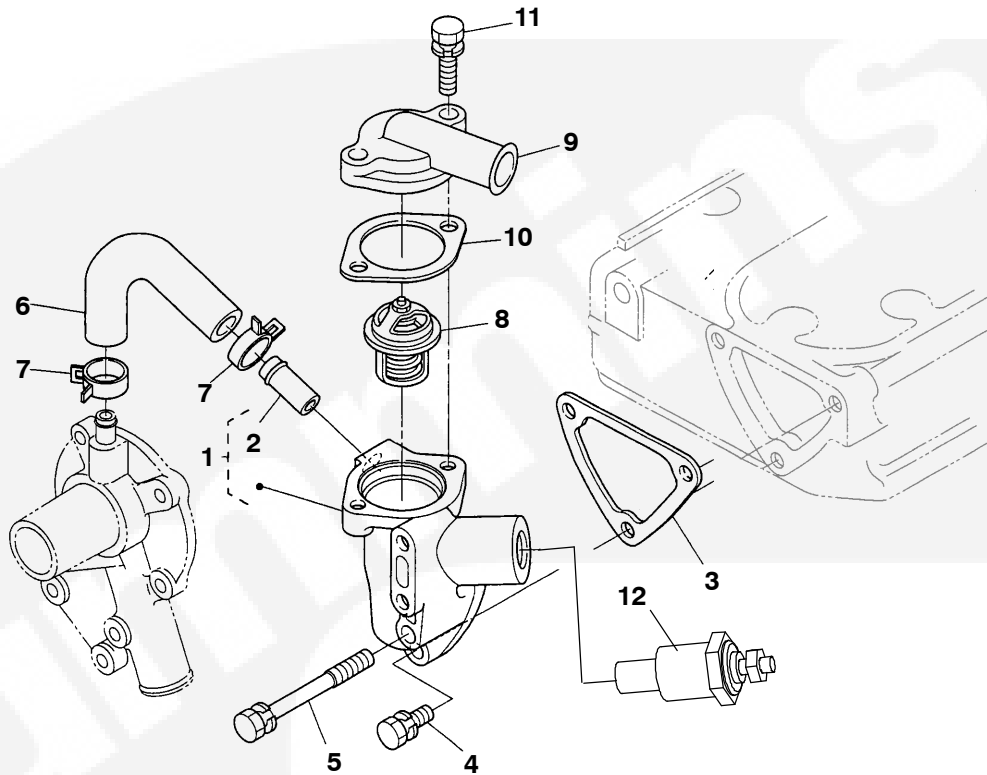


Intake System



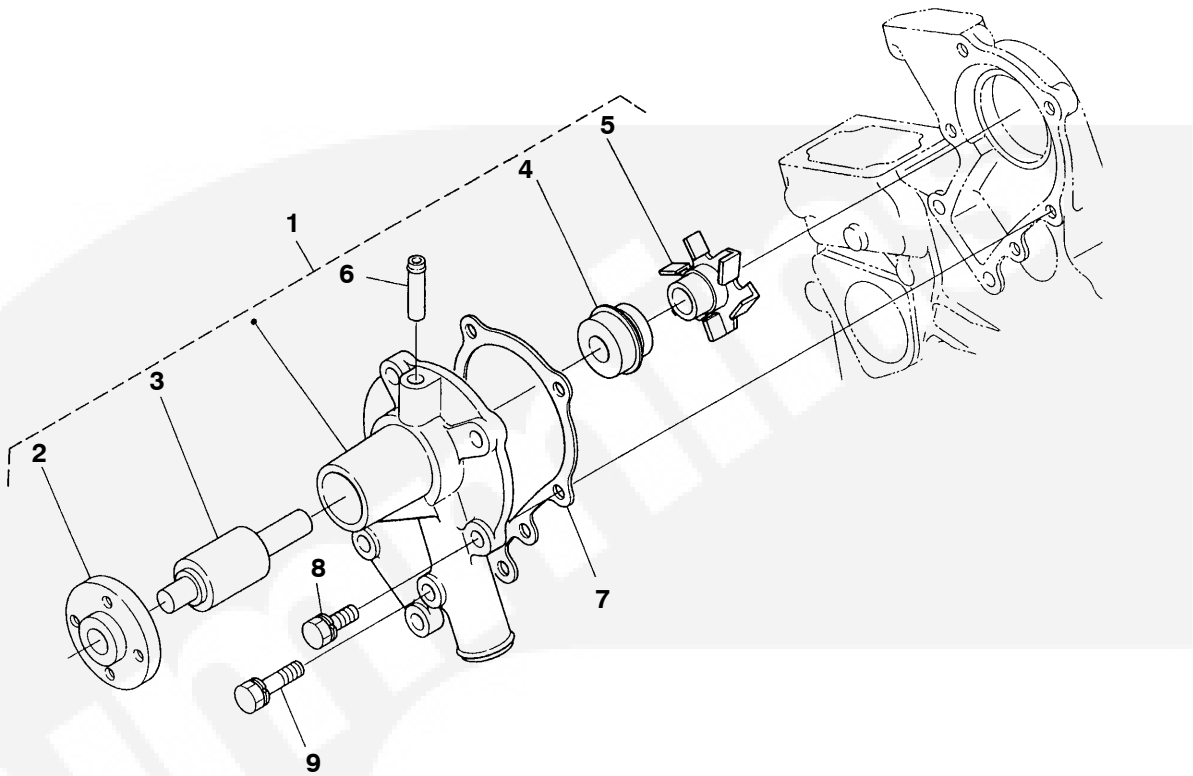
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3378-02	1	Housing, Air Cleaner	10	503-0429	2	Band, Hose Clamp
2	140-3445	1	Gasket, Air Cleaner	11	800-6298	2	Screw, Hex Head (M6 x 1 x 40mm)
3	140-3351	1	Element, Air Cleaner	12	526-2080	3	Washer, Flat (M6)
4	140-3377	1	Cover, Air Cleaner	13	800-2043	1	Screw, Hex Head Cap (M6 x 1 x 65mm)
5	140-3471	1	Clamp, Air Cleaner	14	870-2065-02	1	Nut, Hex Flange
6	865-0030	2	Nut, Wing	15	503-0398	1	Clamp
7	503-2311	1	Hose, Air				
8	134-5282-02	1	Resonator, Intake				
9	140-2898	1	Sleeve, Air Intake				

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	185-5716	1	Pipe, Water Return	8	185-5458	1	Thermostat
3	181-9059	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

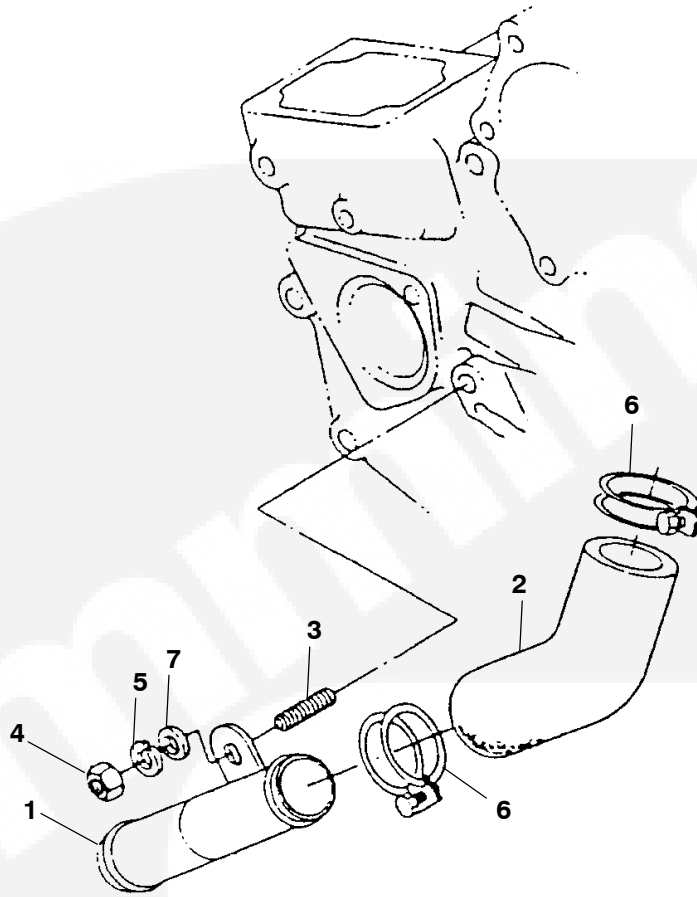


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump Assy, Water (Includes Parts Marked *)	5	185-5715	1	*Impeller, Water Pump (Spec A-C)
	185-5433	1	Spec A-C	6	185-5716	1	*Pipe, Water Return
	132-0492	1	Spec D-G	7	132-0517		Gasket, Water Pump
	A047P607	1	Spec H	8	185-2559	5	Bolt
2		1	*Flange	9	185-5717	2	Bolt
	185-5712	1	Spec A-G				
	A047P611	1	Spec H				
3	185-5713	1	*Bearing				
4	185-5714	1	*Seal Assy, Mechanical				

* - Parts Included in Water Pump Assy.

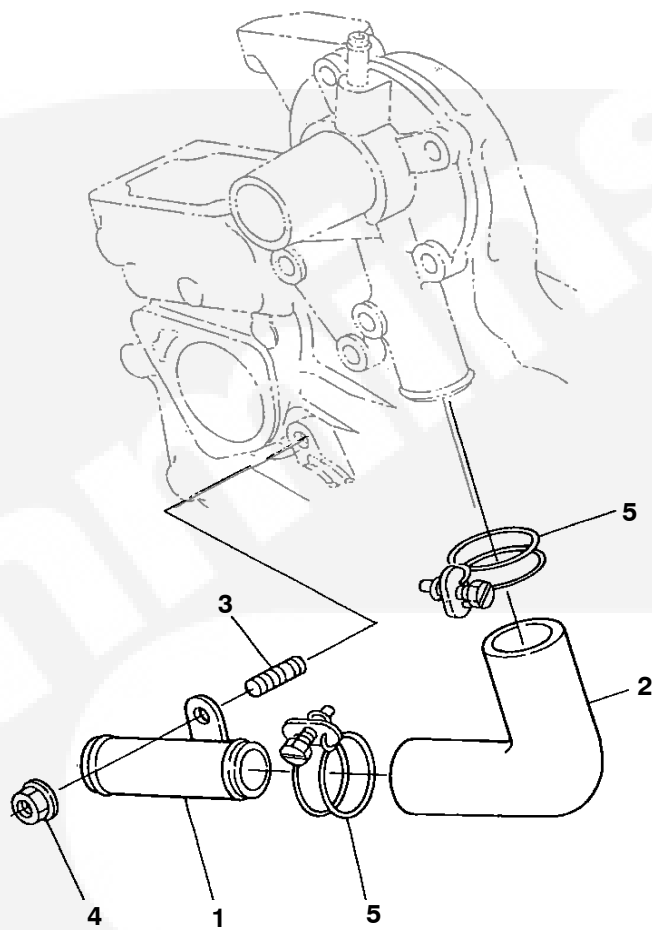


Coolant Hose (Spec A-C)



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				

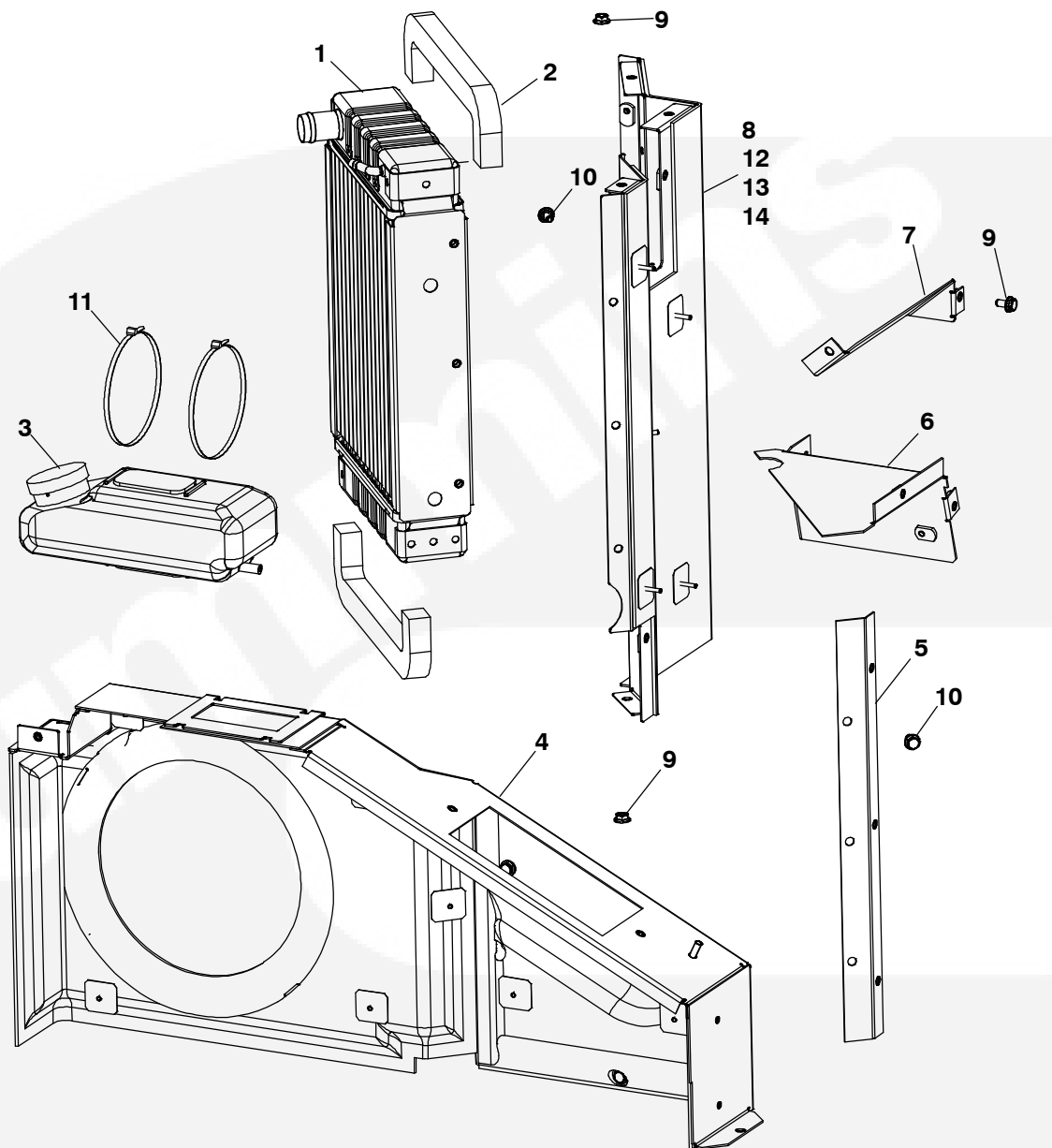
Coolant Hose (Begin Spec D)



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				

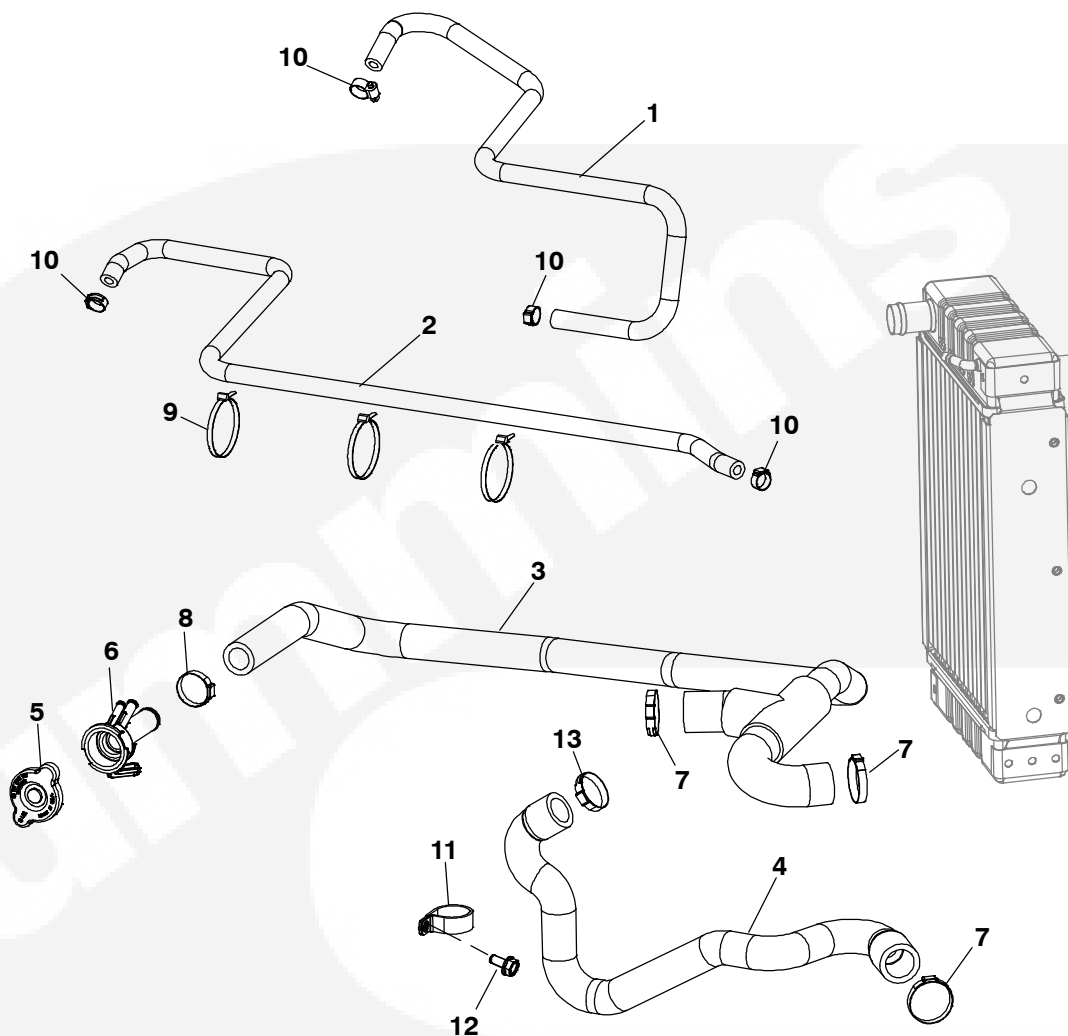


Coolant System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A049T369	1	Radiator	9	870-2065-02	6	Nut, Hex Flanged
2	130-5623	2	Seal, Radiator	10	821-2096-02	10	Screw, Locking Flange
3	130-5478	1	Tank, Coolant	11	332-1389	2	Cable, Tie
4	319-4987-S0	1	Duct, Inlet	12	130-5463-02	1	*Baffle, Air
5	130-5462-02	1	Bracket, Radiator	13	155-3497	1	*Insulation, Exhaust
6	130-5461-02	1	Bracket, Radiator	14	870-0462	7	*Nut, Push-On
7	130-5624-02	1	Duct, Radiator				
8	130-5499	1	Baffle, Air (Includes Parts Marked *)				

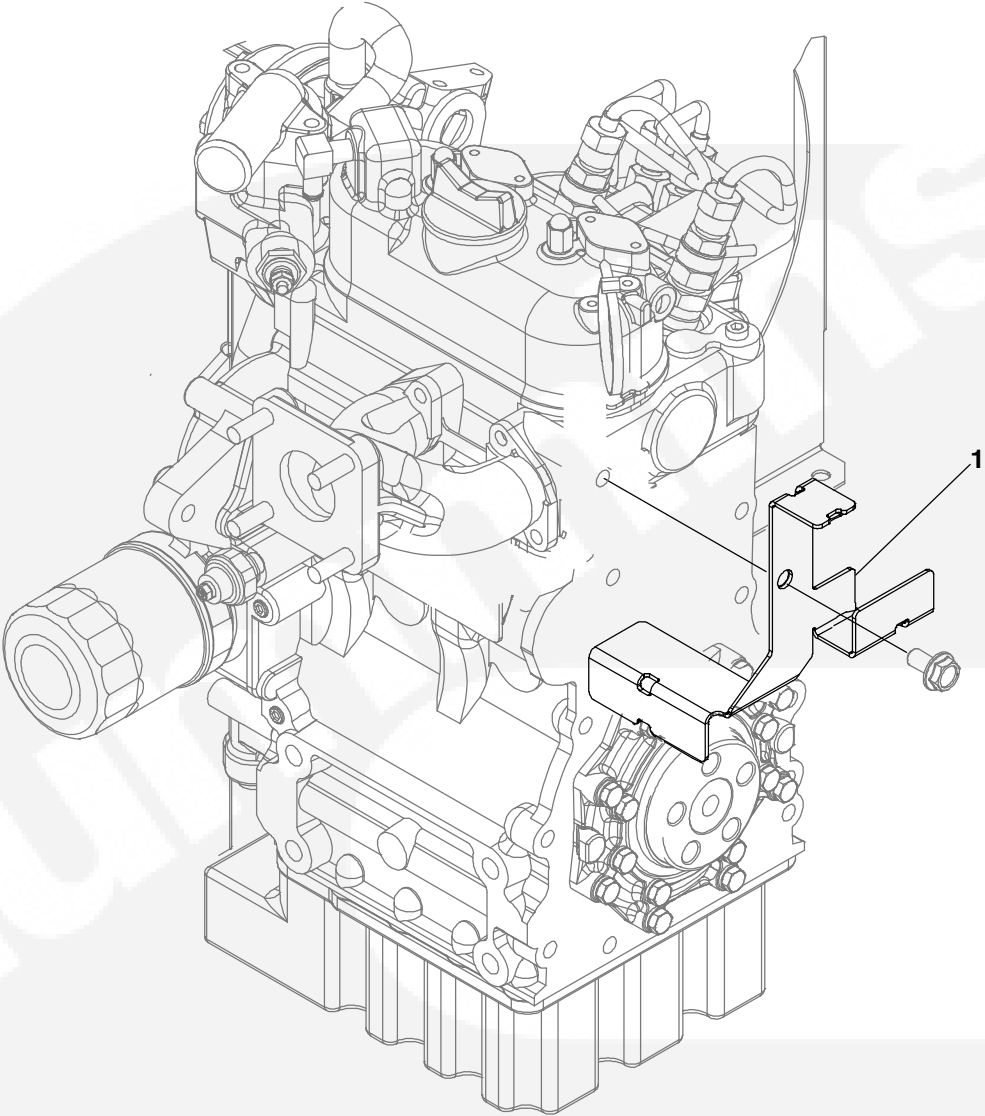
Cooling System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-2343-04	1	Hose, Air
2	503-2343-02	1	Hose, Air
3	503-2312	1	Hose, Coolant
4	503-2313	1	Hose, Coolant
5	130-7902	1	Cap, Fill
6	130-4321	1	Neck, Fill
7	503-1951-46	3	Clamp, Hose
8	503-1951-37	1	Clamp, Hose

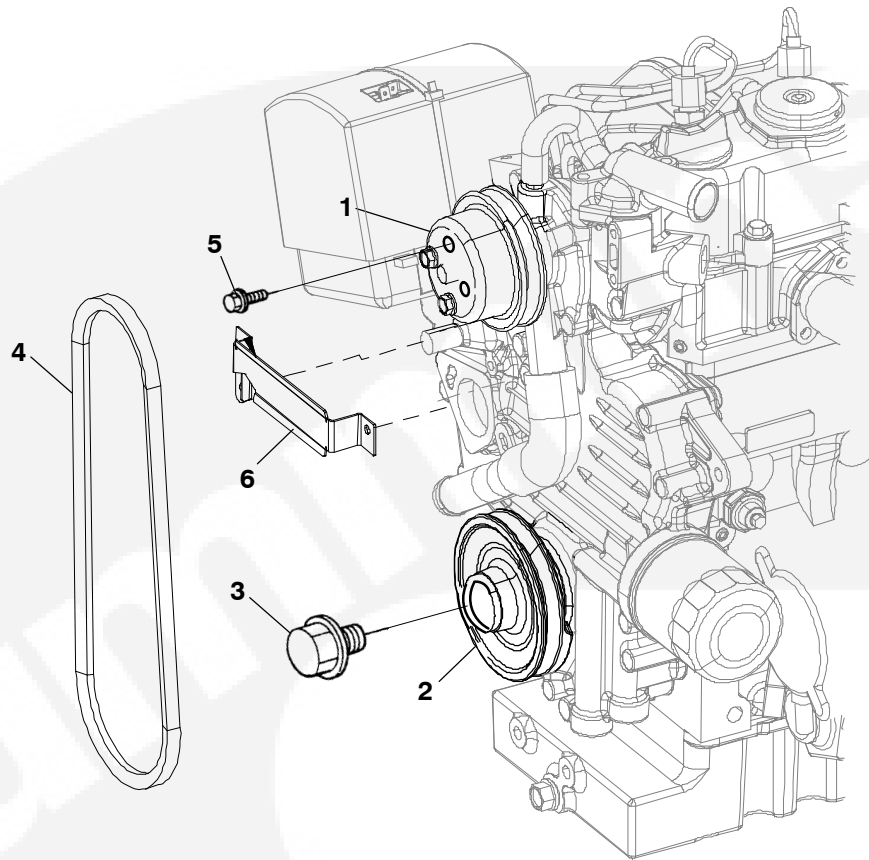
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	332-1389	3	Cable, Tie
10	503-2309	4	Clamp, Hose
11	518-0548-05	1	Clamp, Cable
12	815-0829-04	1	Screw, Hex Washer Head Thread Form(M8 x 1.25 x 16mm)
13	503-1951-40	1	Clamp, Hose

Bracket



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

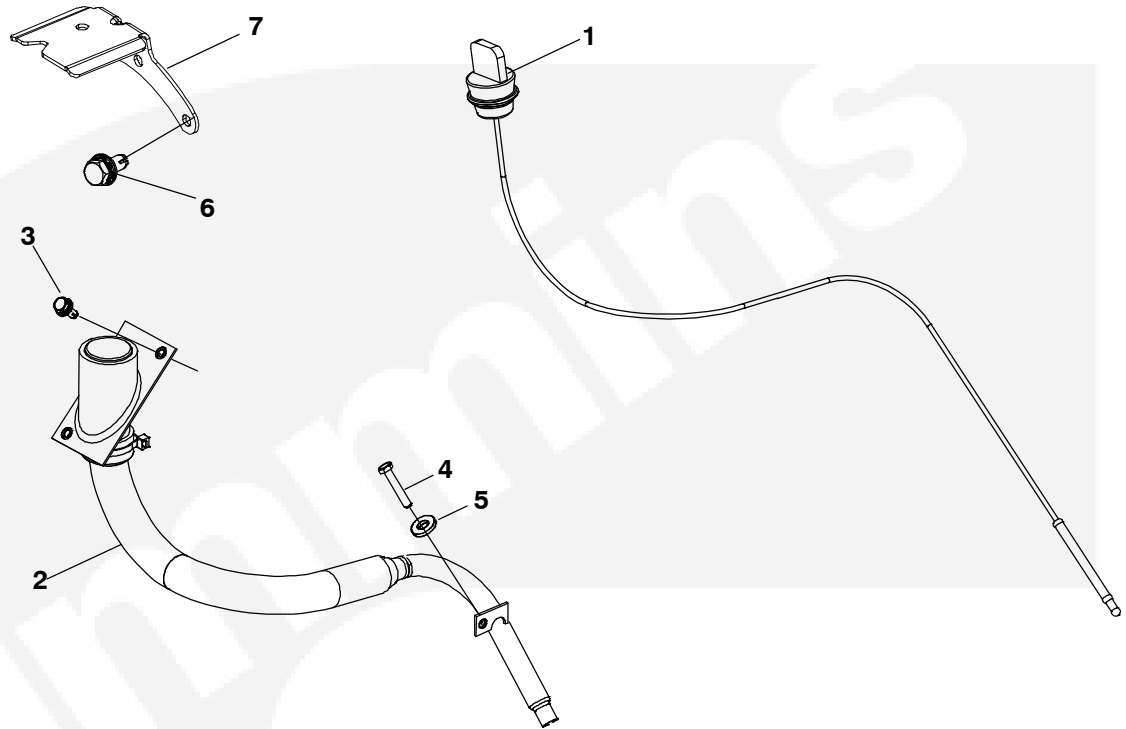
Pulley



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-5707	1	Pulley, Water Pump
2	185-6822	1	Pulley, Fan Drive
3	185-5709	1	Bolt, Flange

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	511-0235	1	Belt
5	185-2572	4	Bolt, Flange
6	503-2398-02	1	Clamp, Hose

Oil Fill Indicator (Spec A-F)

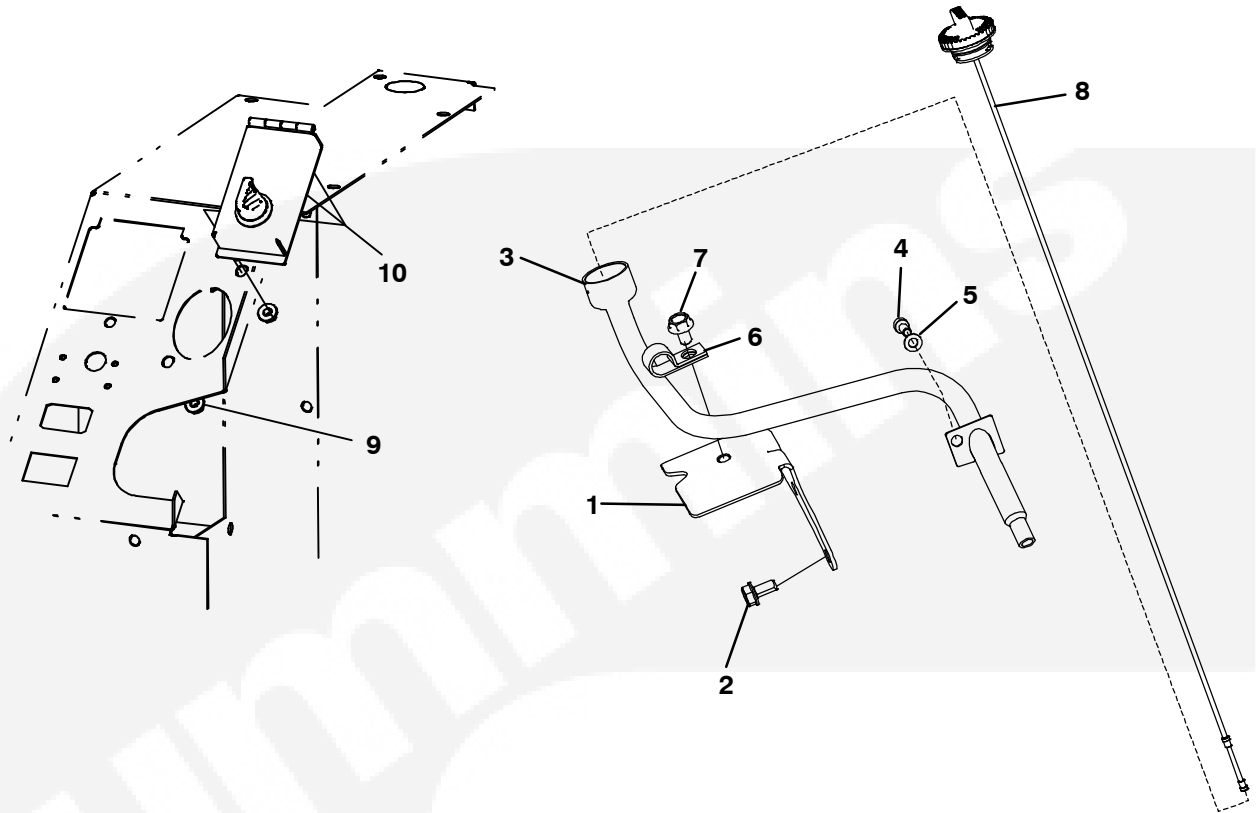


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1369	1	Kit, Oil Fill (Includes Parts Marked *)
1	123-2236	1	*Indicator, Oil
2	123-2345	1	*Tube, Oil
3	821-2096-02	2	*Screw, Locking Flange
4	725-1027	1	*Screw, Hex Socket Head (M6 x 1 x 16mm)
5	526-2081	1	*Washer, Flat
6	815-0829-04	2	*Screw
7	403-5751-02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

* Parts Included in Oil Fill Kit.

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

Oil Fill Indicator (Spec G)

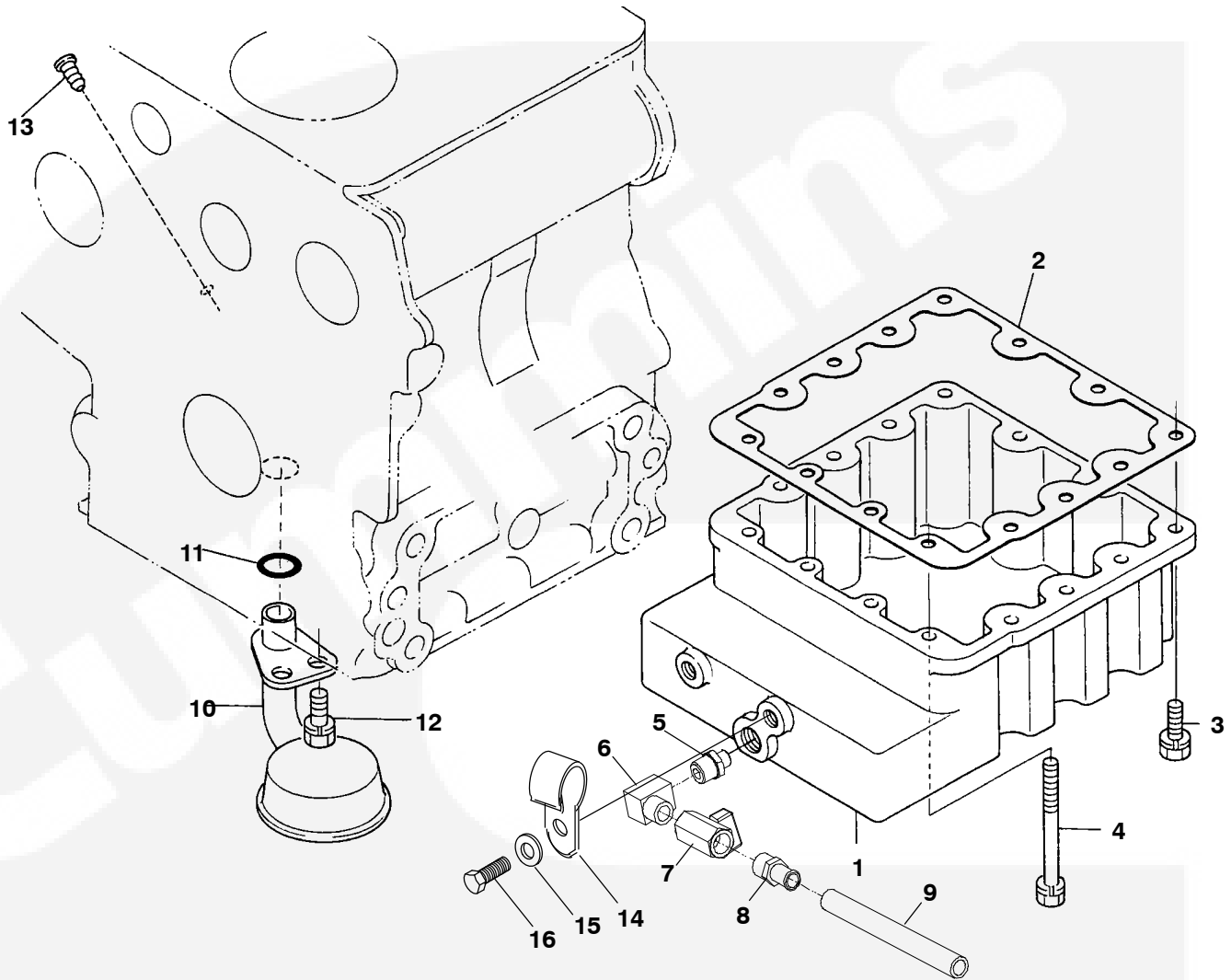


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	A049E008	1	Kit, Oil Fill (Includes Parts Marked *)
1	A042W432	1	*Bracket, Alternator
2	815-0829-04	2	*Screw, Hex Flange Head
3	A042W757	1	*Tube, Oil
4	725-1027	1	*Screw, Hex Socket Head (M6 x 1 x 16mm)
5	526-2081	1	*Washer, Flat
6	518-0548-08	1	*Clamp
7	A029X506	1	*Screw, Hex Flange Head
8	A048Z763	1	*Dipstick
9	870-2065-02	2	*Nut, Hex Flange
10	A041D996	1	*Cover, Access

* Parts Included in Oil Fill Kit.

Note: Oil Fill Kit (A049E008) is backwards compatible with Spec (A-F). However, the entire kit must be used when up-fitting an earlier Spec (A-F) generator set.

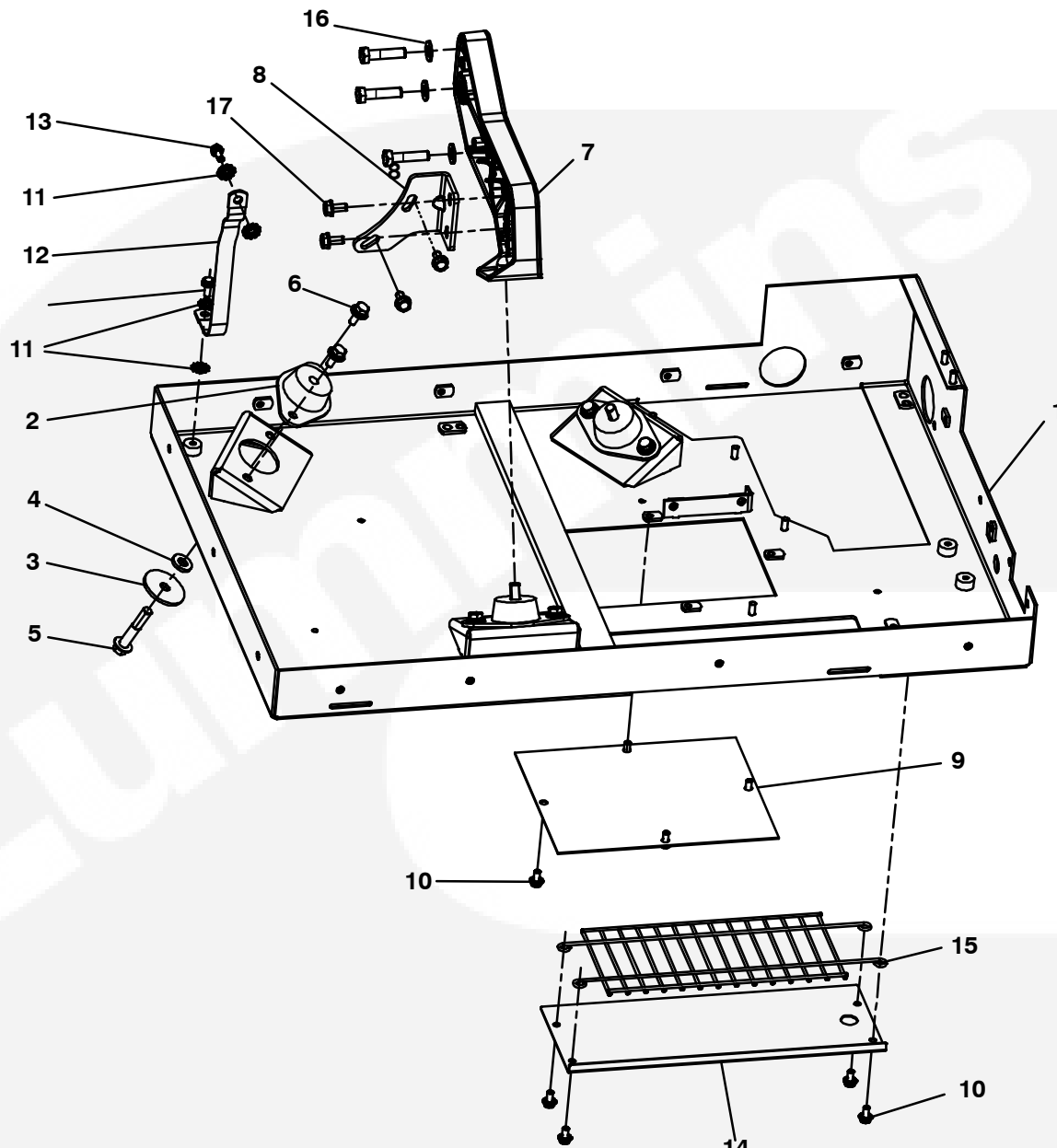
Oil Pan



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0047	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	Filter, Oil
11	185-7421	1	O'Ring
12	185-6956	1	Bolt
13	517-0371	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)

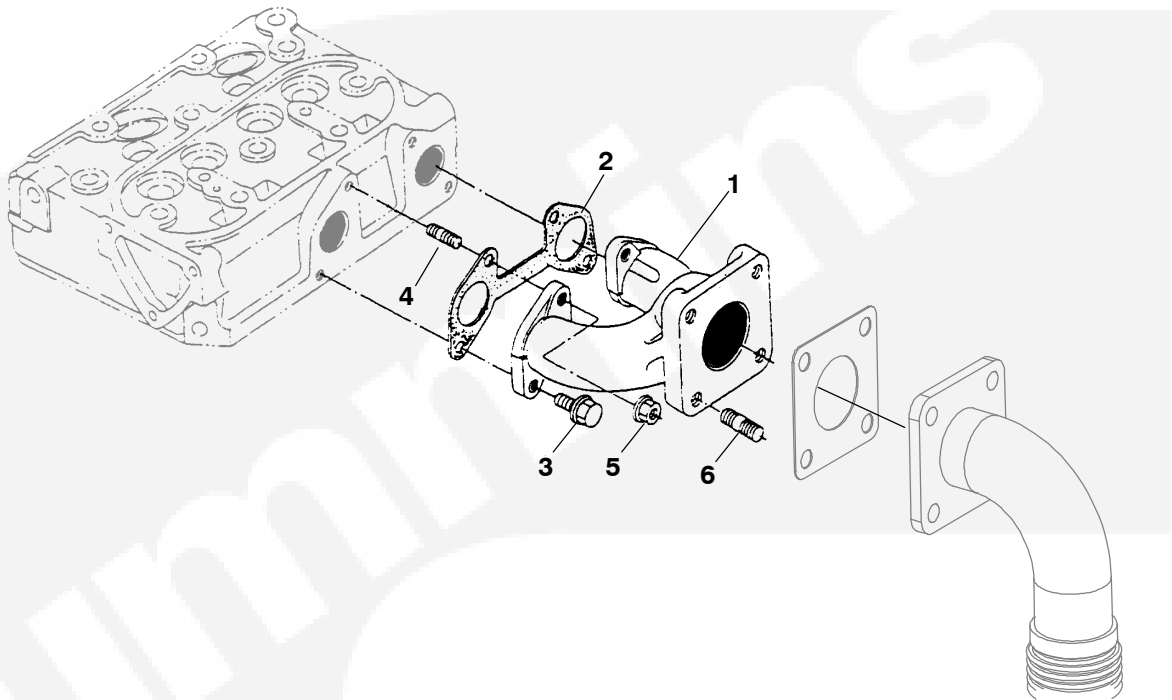
Drip Pan



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

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	856-0006	4	Washer, Lock (1/4)
12	337-3467	1	Strap, Bond
13	815-0941-03	1	Screw, (M6 x 1 x 16),
14	130-5699-02	1	Cover, Guard
15	130-5628	1	Guard, Radiator Fan
16	526-2120	3	Washer, Flat (M10)
17	815-0829-04	4	Screw, Hex Washer Head Thread Form(M8 x 1.28 x 16mm)

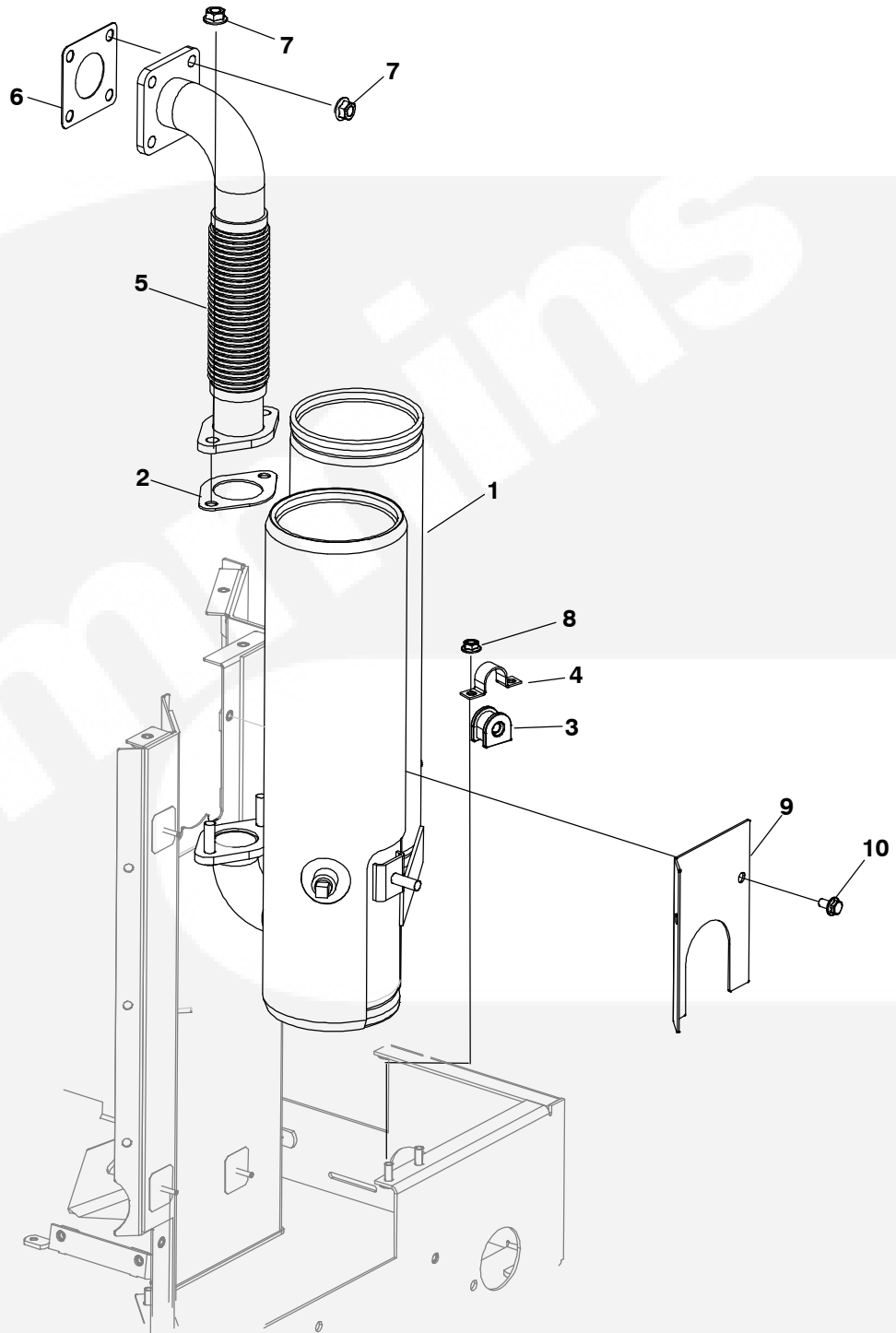
Exhaust Manifold



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				

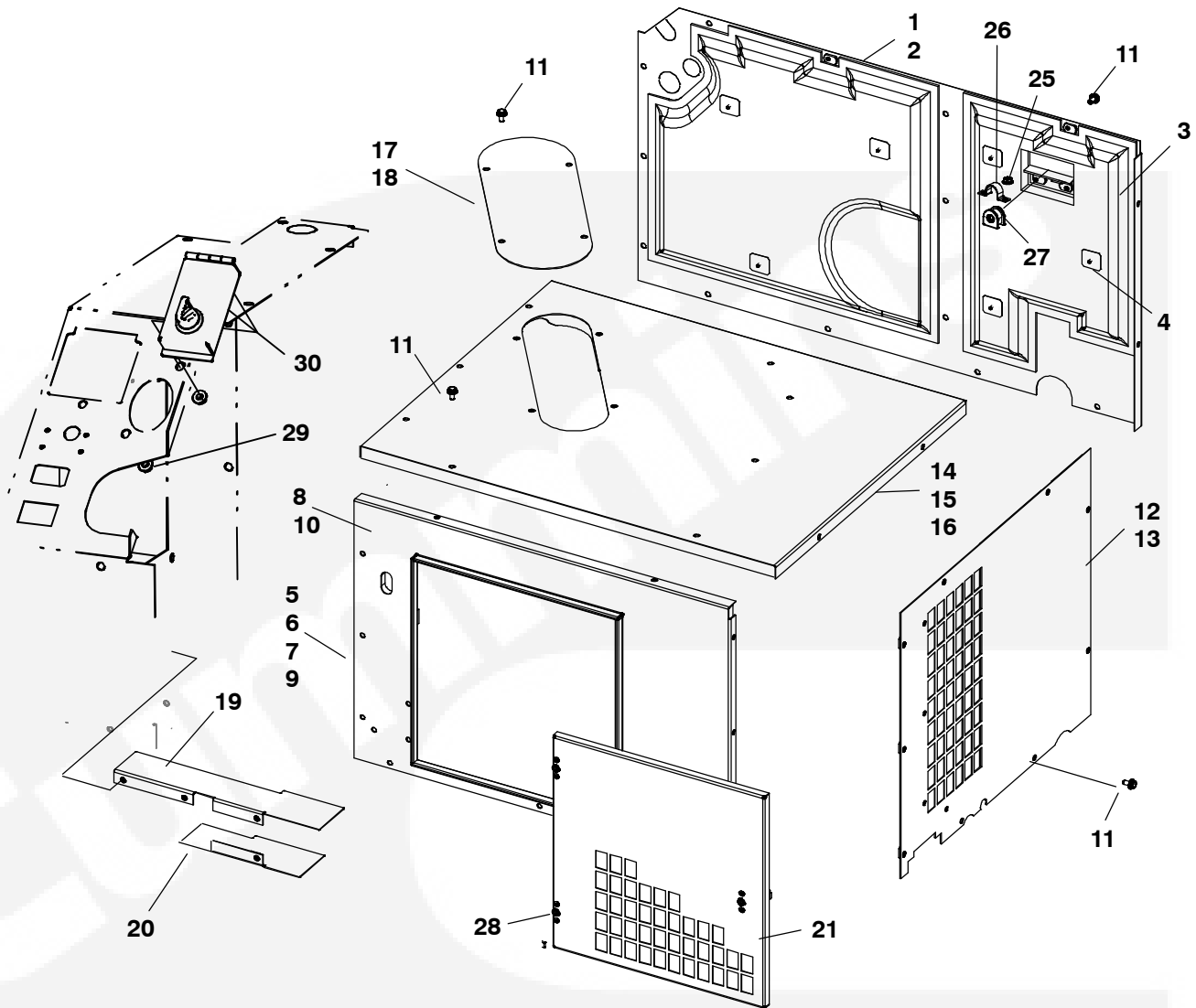


Exhaust System



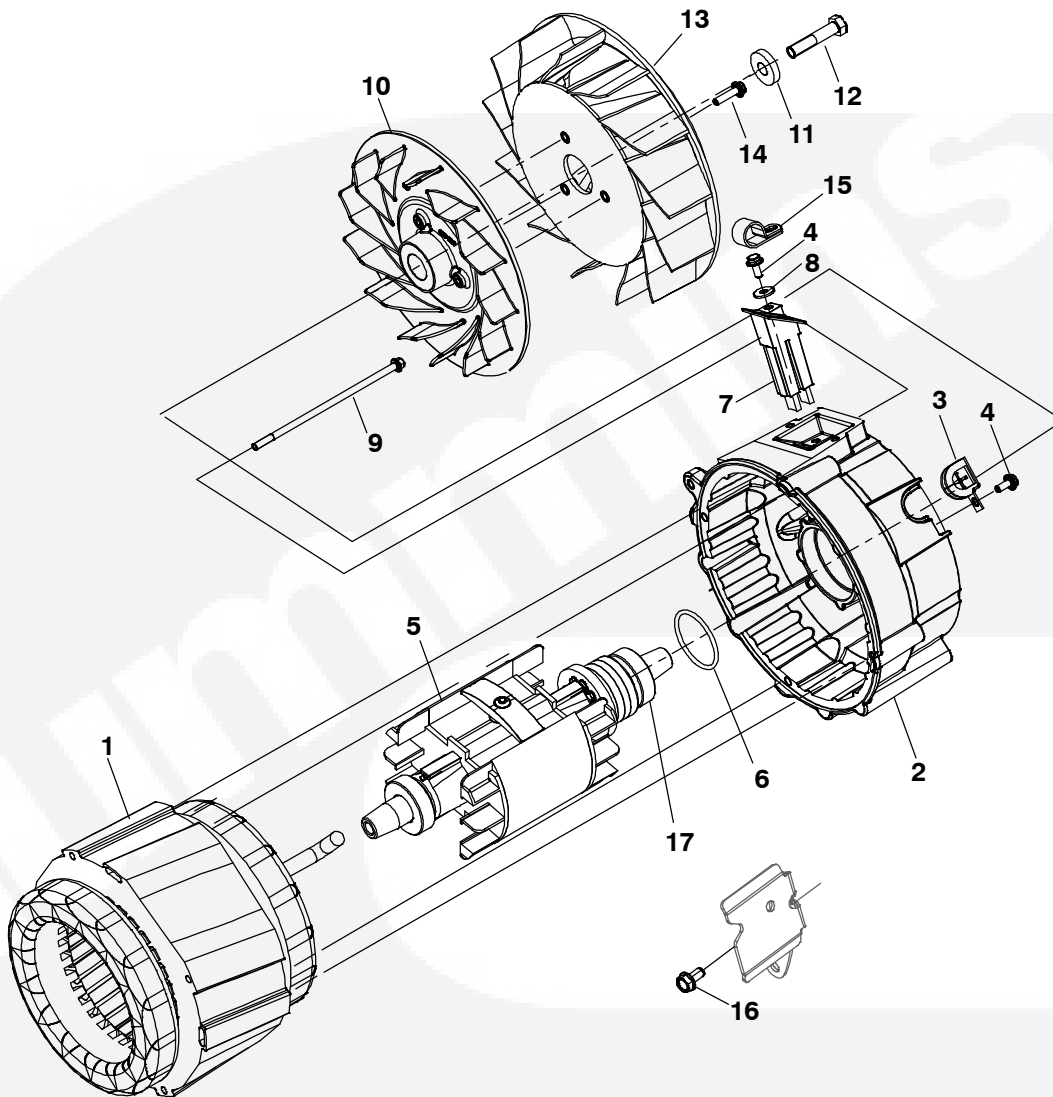
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541-0953	1	Kit, Muffler	6	A028X874	1	Gasket, Exhaust Out
			Muffler, Exhaust	7	870-0557	6	Nut, Hex Flange (M8 x 1.25mm)
	155-4060	1	Begin Spec B	8	870-2065-02	2	Nut, Hex Flange
2	154-2800	1	Gasket, Exhaust Muffler	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



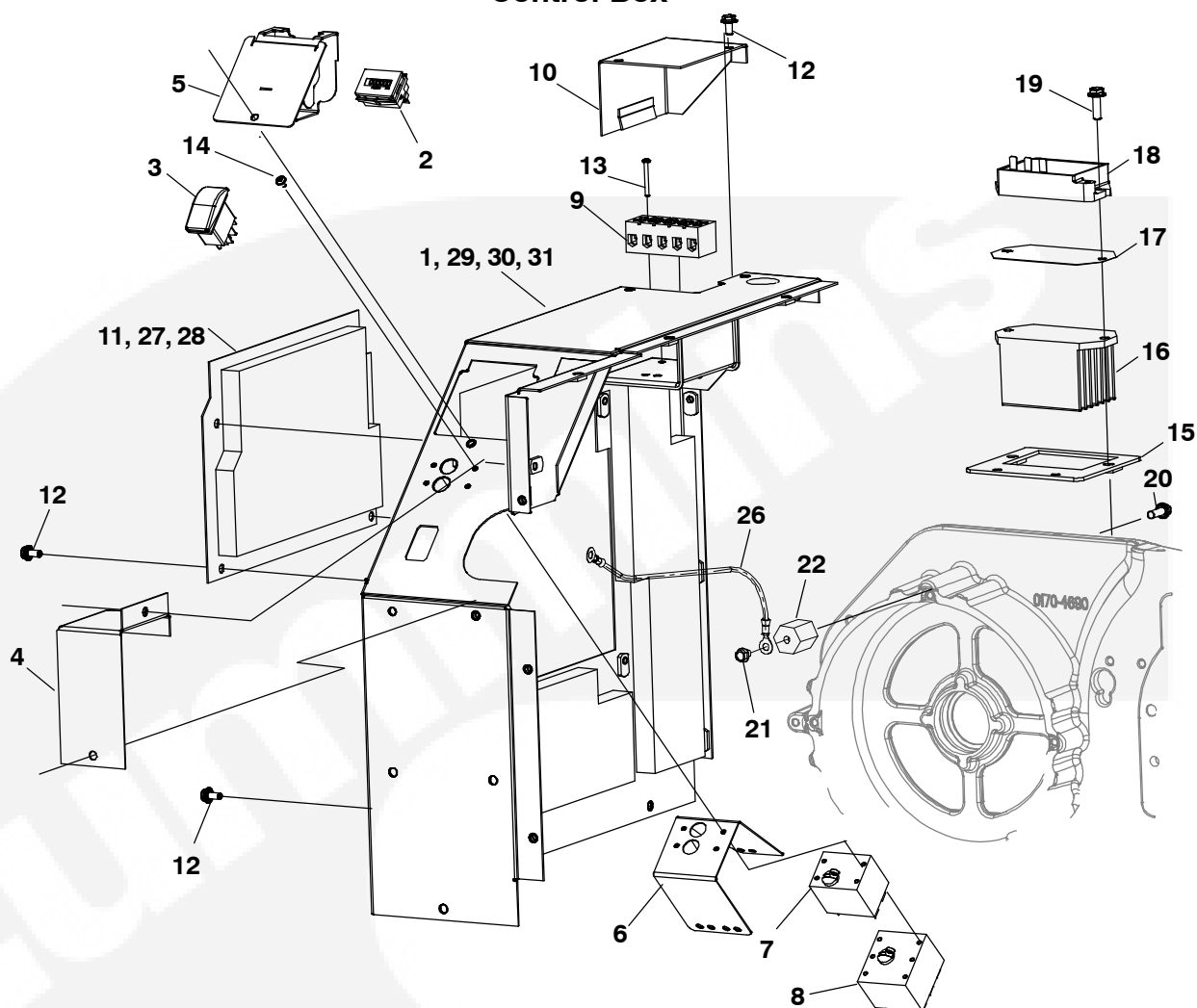
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	405-7568-S0	1	Cover, Enclosure Right Hand	19	405-7659-02	1	Panel, Air Baffle
1	405-7567-02	1	*Cover, Enclosure	20	405-7660-02	1	Panel, Air Baffle
2	405-6855	1	*Insulation, Enclosure	21	A030D594	1	Cover, Access Panel (LH)
3	405-7566	1	*Insulation, Enclosure	22	A030D597	1	@ Door, Enclosure
4	870-0462	AR*\$#%	Nut, Push-On	23	818-0231-02	6	@ Rivet, Pop
5	405-6835-S2	1	Cover, Enclosure Left Hand	24	A030D619	1	@ Insulation, Door
6	405-6853-01	1	+ Insulation, Enclosure	25	870-2065-02	2	Nut, Hex Flange
7	508-1118	4	+ Edging, Trim	26	402-0695-02	1	Clamp, Muffler Isolator
8	405-7255	1	+ Seal, Enclosure	27	402-0687-01	1	Isolator, Muffler
9	405-7375	1	+ Seal, Enclosure	28			Latch
10	405-7376	1	+ Seal, Enclosure		A030D599	3	@ Vertical
11	800-6497-01	62	Screw, Locking Flange		406-0842	3	Horizontal
12	405-6836-S2	1	Cover, Enclosure Front	29	870-2065-02	2	Nut, Hex Flange (Begin Spec G)
13	405-6854	1	\$Insulation, Panel, Engine	30	A041D996	1	Cover, Access (Begin Spec G)
14	405-6833-S2	1	Cover, Enclosure Top				
15	405-6856	1	#Insulation, Enclosure				
16	405-6851	1	#Insulation, Enclosure				
17	405-7328	1	Panel, Access				
	405-7325-02	1	%Panel, Access				
18	405-7327	1	%Insulation Panel				
				* - Parts Included in Cover, Enclosure Right Hand.			
				+ - Parts Included in Cover, Enclosure Left Hand.			
				\$ - Parts Included in Cover, Enclosure Front.			
				# - Parts Included in Cover, Enclosure Top.			
				%- Parts Included in Panel, Access			
				@- Parts Included in Cover, Access Panel (LH)			

Generator



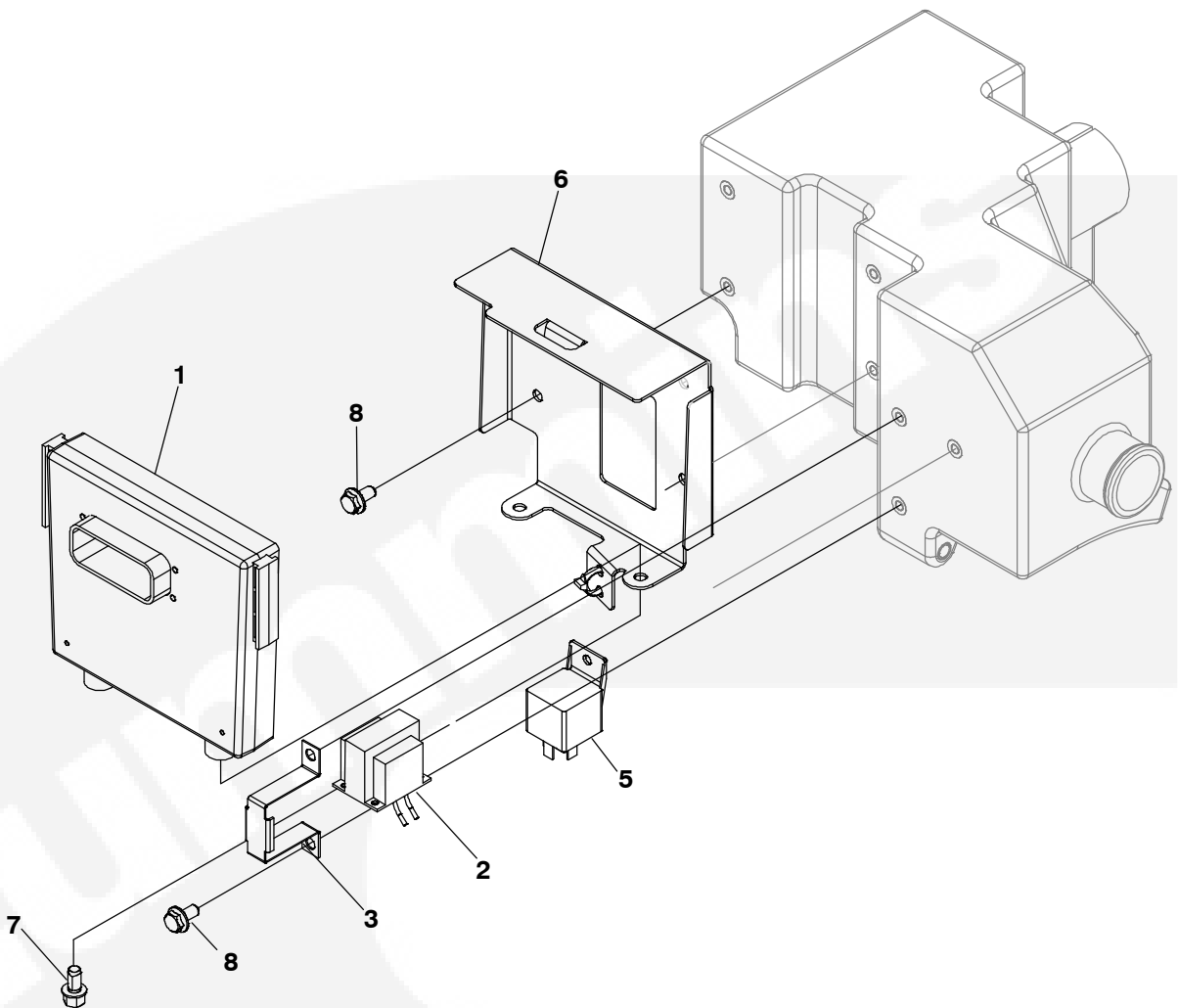
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541-1205	1	Kit, Bracket Generator (Includes Parts Marked *)	7	212-1303	1	Brush, Block
			Stator, Wound	8	526-2083	1	Washer, Flat (M6)
			HDKBB 1Ø	9	815-0927-01	4	Bolt, Stator Mounting
	220-4620-01	1	120/240 Volts, 60Hz	10	205-0347	1	Fan, Generator (Replaces 205-0300)
	220-4620-02	1	120 Volts 60Hz	11	526-0017	1	Washer, Flat
	220-4620-03	1	115/230 Volts 50Hz	12	800-2091	1	Screw, Hex Head Cap (M10 x 1.5 x 50mm)
	220-4620-04	1	230 Volts 50Hz	13	205-0289	1	Fan
			HDKBC 3Ø	14	800-6296-01	3	Screw, Hex Head Flange (M6 x 25mm)
	220-4621-01	1	50Hz 400V	15	332-1356	1	Clamp, Loop (Insulated)
	220-4621-02	1	60Hz 240V	16	815-0829-04	2	*Screw, Hex Head Thread Form (Begin Spec C)
2	A029W995	1	Endbell	17	510-0208	2	Bearing, Ball
3	508-1265	1	Grommet				
4	815-0753	3	Screw, Lock Flange				
5	201-3678-01		Rotor				
6	509-0420	1	O'Ring				

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 *)	15	305-0998-02	1	Bracket, Regulator
	405-7491-S0	1	Spec A-G	16	305-0995	1	Heatsink
2	302-2048	1	Hourmeter	17	363-0205	1	Pad, Heatsink
3	308-1038	1	Switch, Rocker	18	305-1006	1	Regulator, Battery Charger
4	405-7212-02	1	Cover, Access (Coolant)	19	821-2034	2	Screw, Locking Flange (M6 x 1 x 20mm)
5	405-5309-03	1	Cover, Access	20	821-0015	1	Screw, Locking Head (1/4-20 x 3/4") 50Hz
6	320-2101-02	1	Guard, Circuit Breaker	21	821-0008	1	Screw, Locking Head (1/4-20 x 5/16") 50Hz
7	320-2439-01	1	Circuit, Breaker Single Phase	22	332-2370	1	Stand-off, Insulator
8			Circuit, Breaker	23	98-8001-03	1	Label, Information (1 Phase 50Hz and 60Hz)
	320-2433-01	1	3 Phase (50Hz)	24	98-8001-04	1	Label, Information (3 Phase 60Hz)
	320-2433-02	1	3 Phase (60Hz)	25	98-8001-05	1	Label, Information (3 Phase 50Hz)
9	-	1	Harness, AC (See AC Harness Page)	26	338-5011	1	Harness, Jumper (50Hz)
10	405-5380-05	1	Cover, AC (Black)	27	405-7498	1	+ Insulation, Cover
11	405-7496	1	Cover, Enclosure (Includes Parts Marked +)	28	405-7497-02	1	+ Cover, Enclosure
12	800-6497-01	4	Screw, Locking Flange (M6 x 1 x 12mm)	29	405-7493	1	*Insulation, Enclosure
13	812-0070	2	Screw, Round Head (6-32 x 1.25)	30	405-7492	1	*Insulation, Enclosure
14	815-0550-01	4	Screw, Xrec Phillips Head (6-32 x .312)	31	405-7494-02	1	*Cover, Enclosure

Control

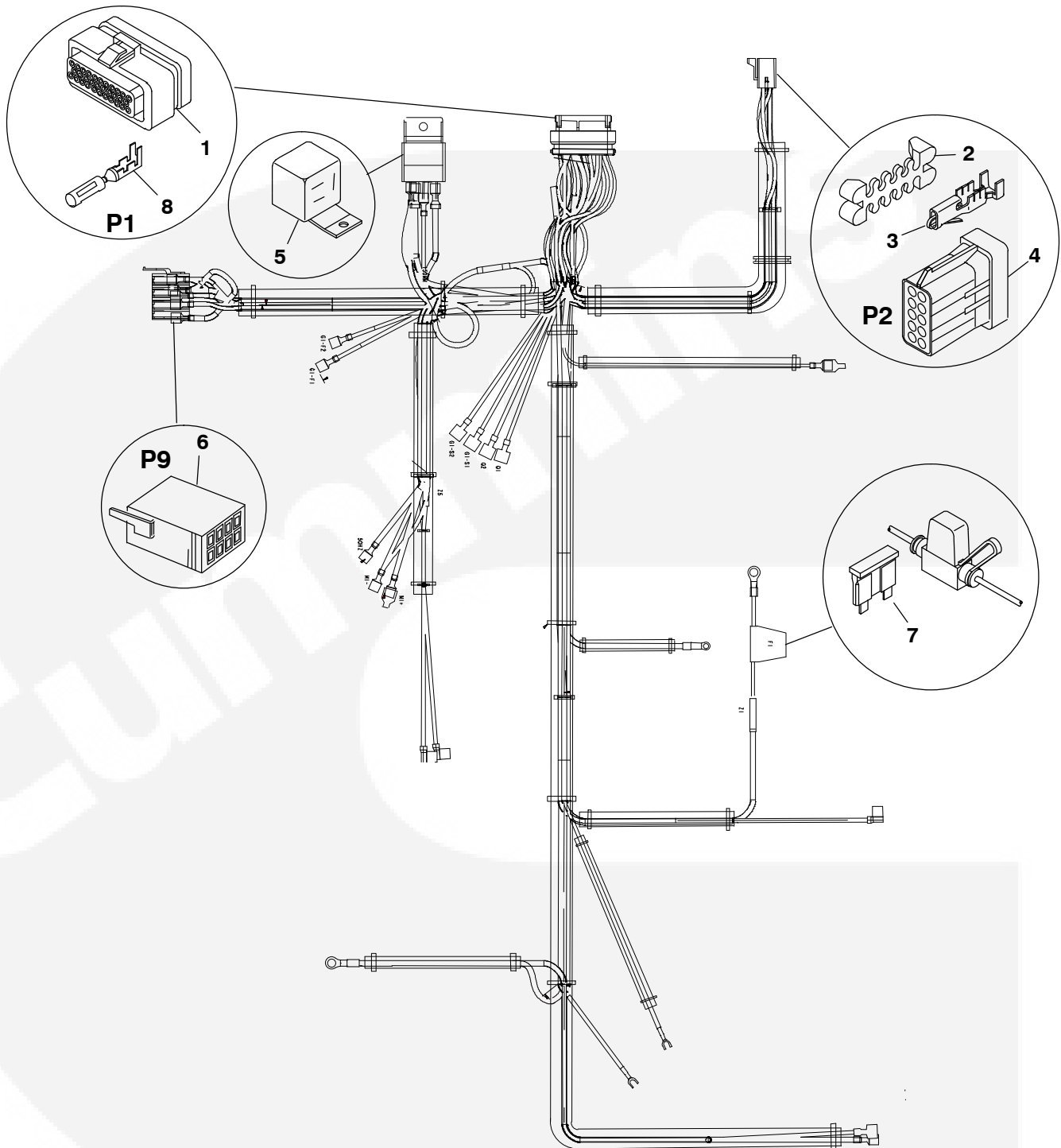


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A042X089	1	Control, PCB
2	315-0856	1	Transformer, (Three Phase) Spec A
	315-0899	1	Begin Spec B
3	315-0882	1	Transformer, Bracket (Three Phase)
4	338-4092-02	1	*Harness, Control (See Control Harness)
5	307-1886	1	Relay, 12V SPDT (Part of 338-4092-01)
6	319-4511-02	1	Bracket, Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	815-0943-02	2	Screw, Hex Washer Head Thread Forming (1/4-10 x .50)
8	821-2096-02	7	Screw, Locking Flange

* See Information Control Harness Page

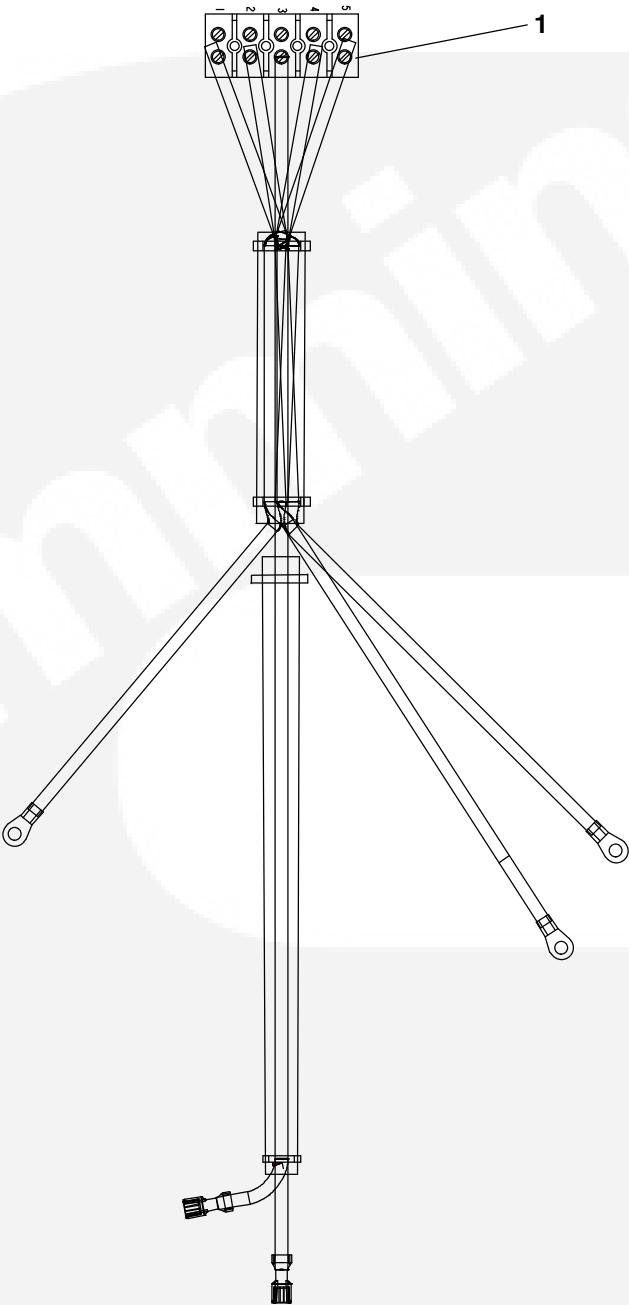
Control Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4092-01	1	Harness, Control	5	-	1	Socket, Relay (K3) (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	8	323-1614-01	1	Pin
4	323-1711	1	Connector (10Pin)(P2)				

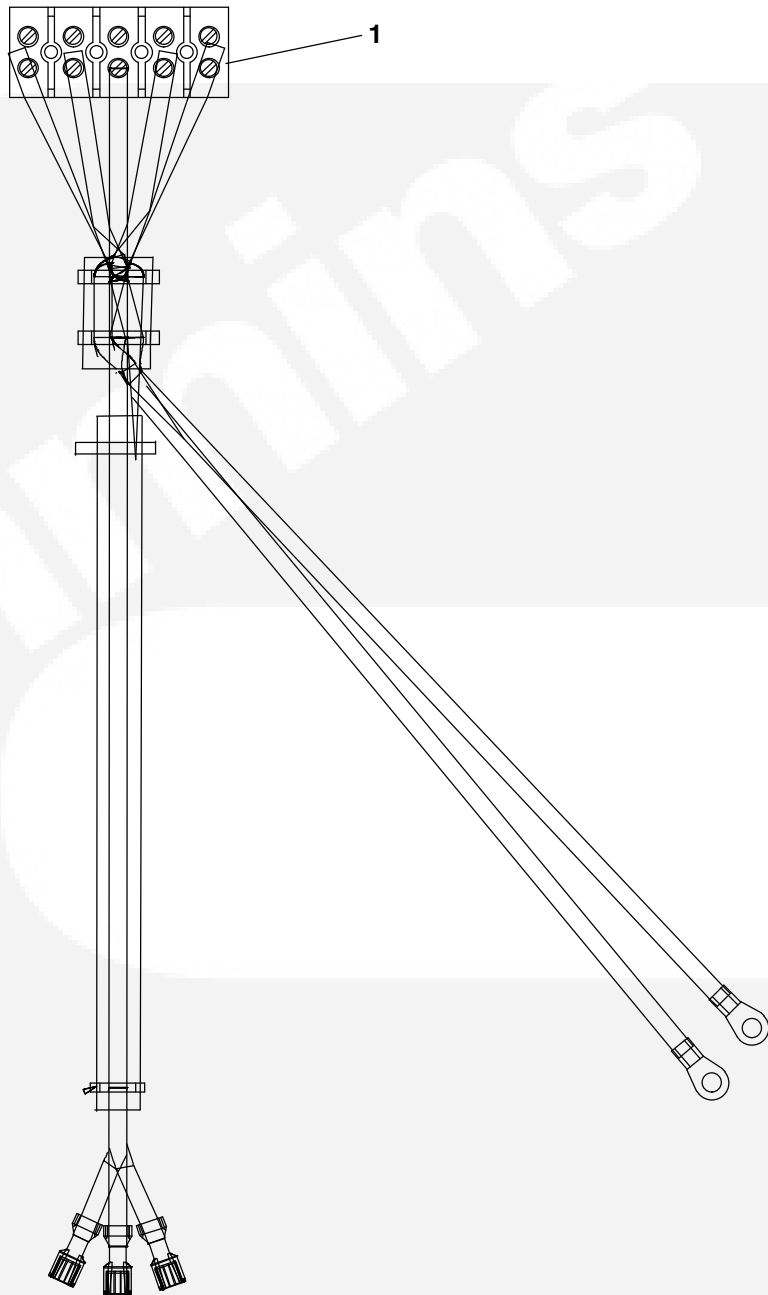
* See Control Page for location

AC Harness (Single Phase)



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)				

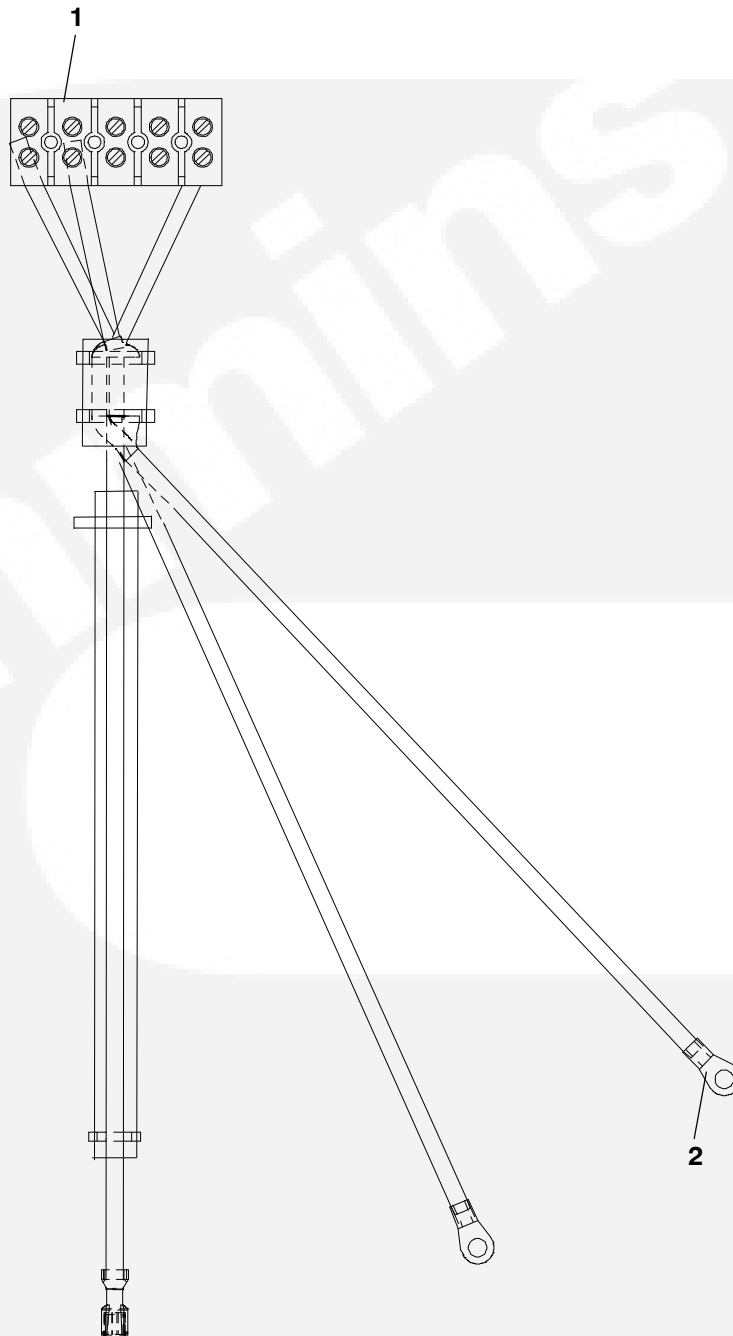
**AC Harness
(Three Phase)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-4219	1	AC, Harness	2	332-2431	3	Terminal, Receptacle (.25")
1	332-3531-04	1	Terminal, Block (TB1)				(CB1, CB2 and CB3)

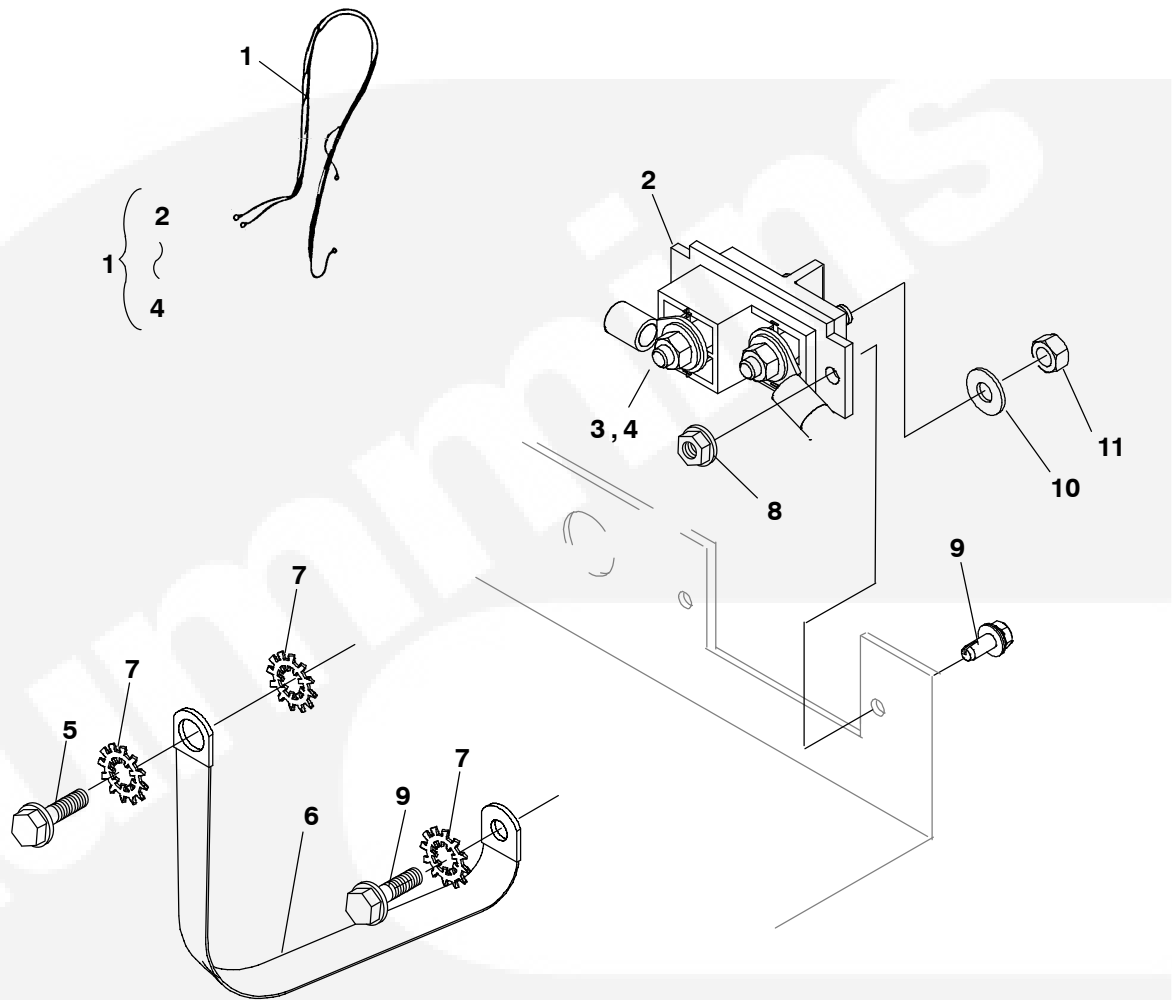
* See Control Box Page for Location

AC Harness with Iso / Neutral



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-5010	1	AC, Harness	2	332-3082	2	Terminal, Ring (1/2") (Ground, Neutral)
1	332-3531-04	1	Terminal, Block (TB1) (CB1, CB2 and CB3)				

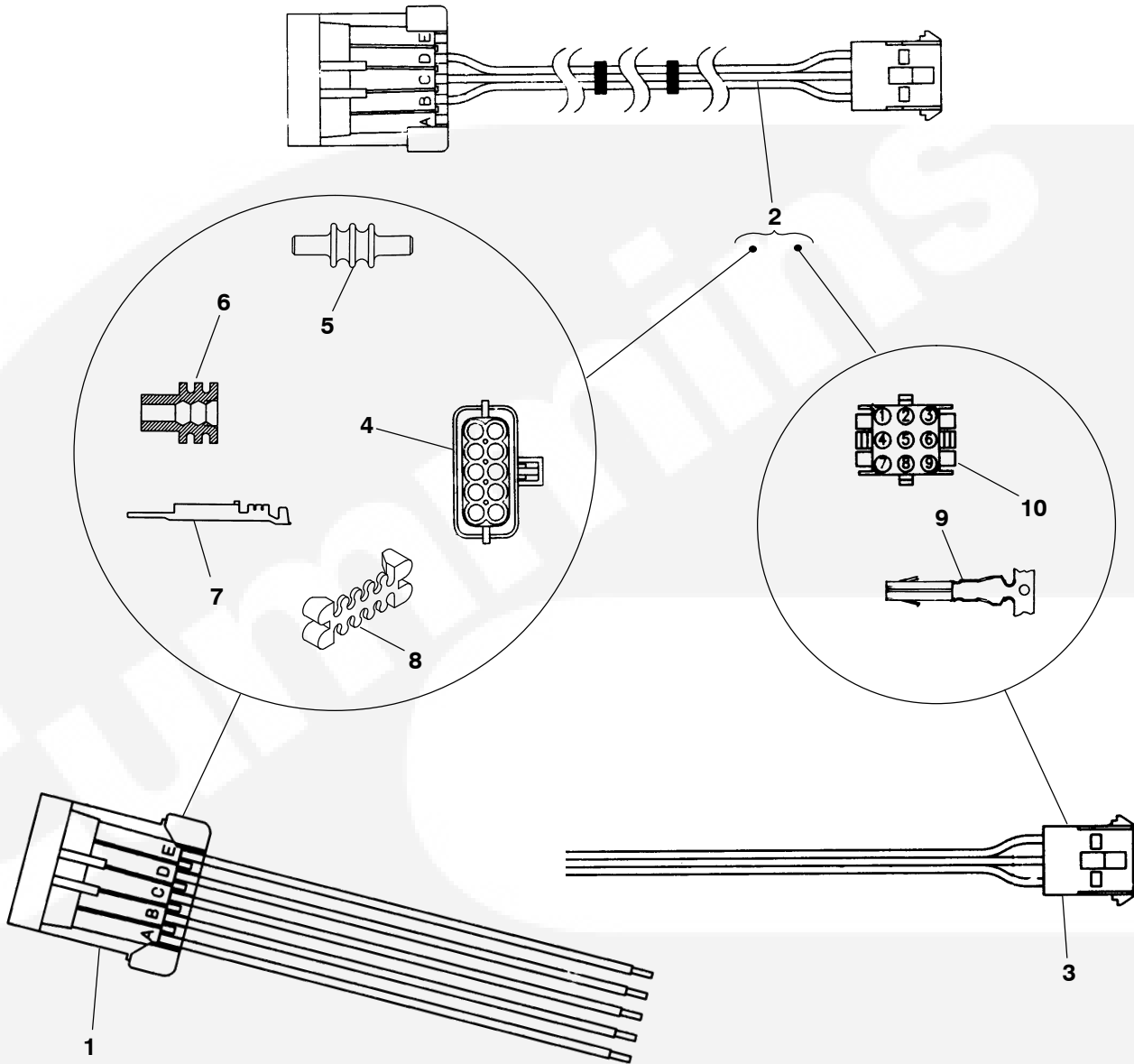
Battery Harness



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

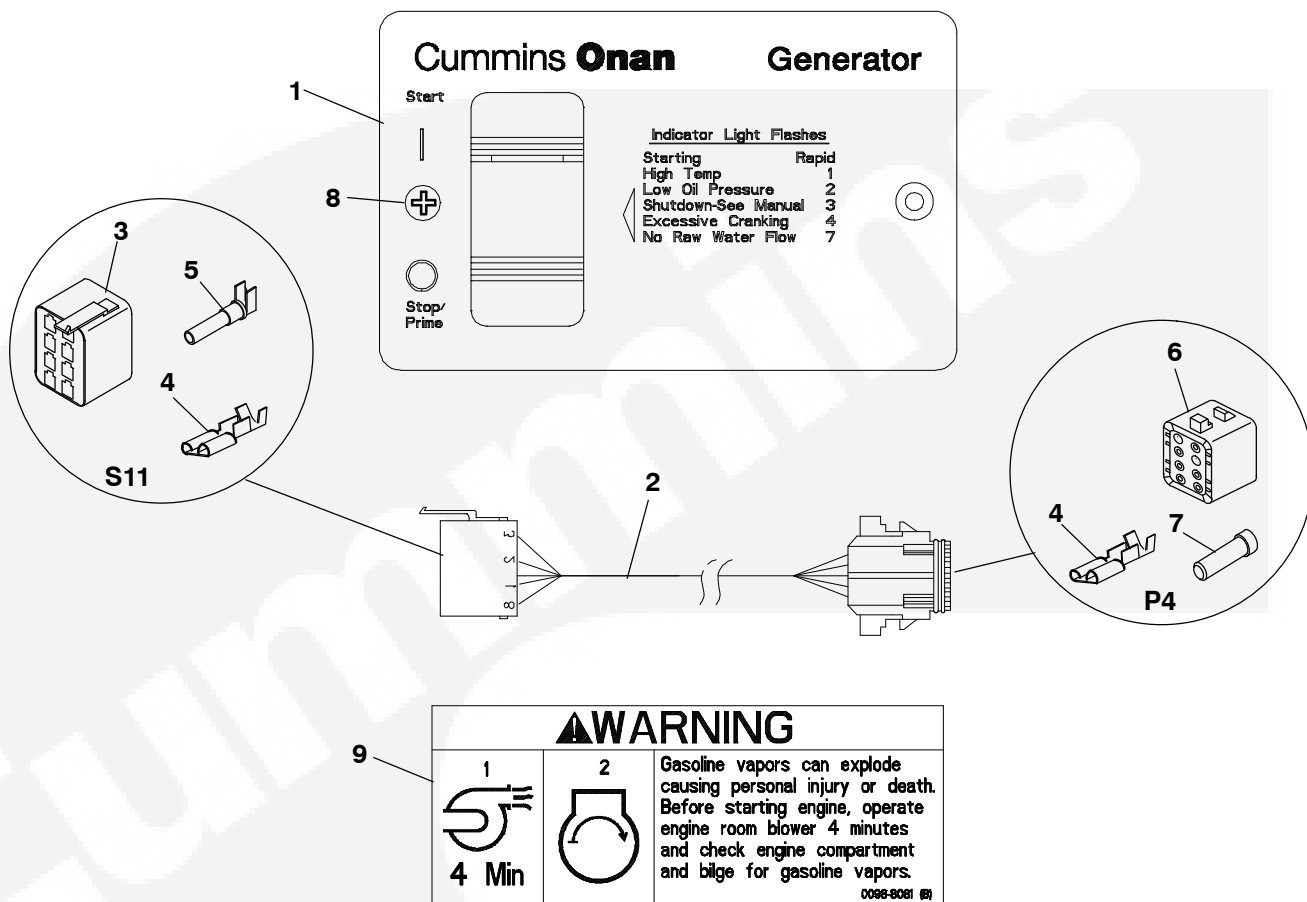
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-1708	8	+*Seal, Cable
7	323-1707	8	+*Pin, Contact
8	323-1719	1	+*Housing, Lock
9	323-1200	AR	+*Socket, Contact
10	323-1325	1	+*Cap, Connector*

* - Parts Included in Remote Harness.

+ - Parts Included in Remote Panel Harness.

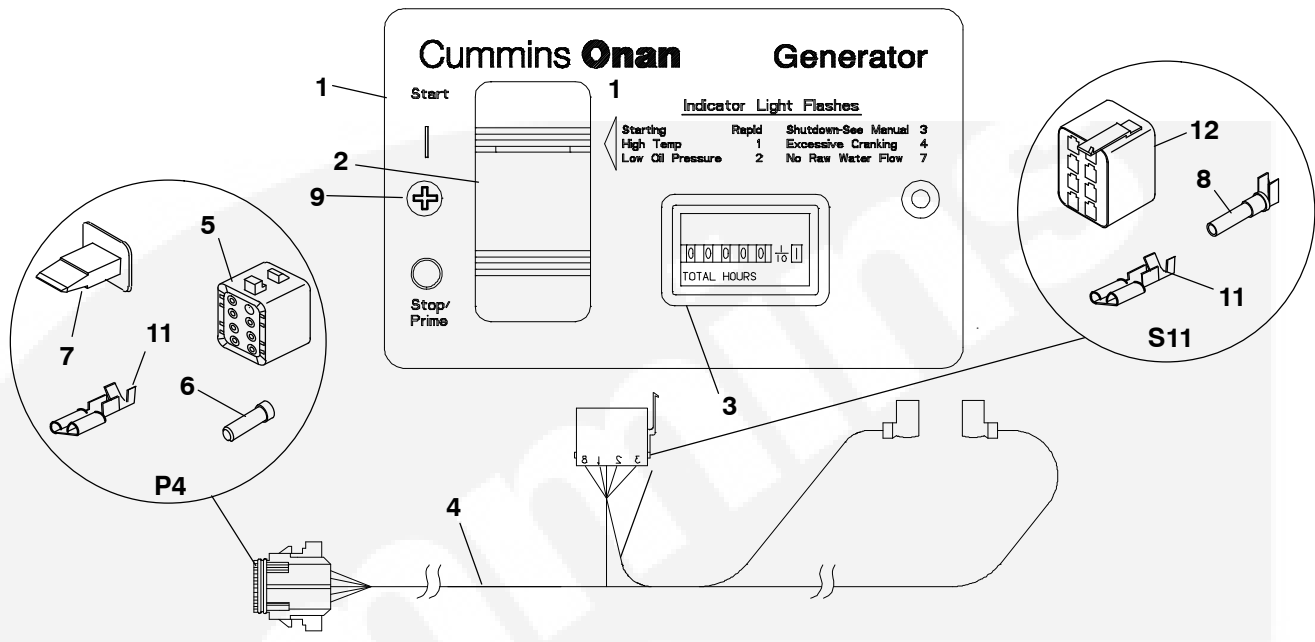
- Parts Included in Adapter Harness.

Remote Control Panel (W/Switch)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4942	1	Kit, Remote Panel (Includes Parts Marked *)	4	332-2890	6	# Terminal, Receptacle (.25)
1	308-1101	1	Switch, Rocker (S11)	5	323-1492	6	# Pin, Contact
	300-4953-03	1	*Panel, Remote (Includes Label)	6	323-1541	1	# Plug (8 Pin)
2	338-3988	1	Harness, Remote Panel (Includes Parts Marked #)	7	323-1591	2	# Plug, Seal
3	308-1019	1	# Connector, Switch	8	815-0910	2	*Screw, Wood (#6 x 1)
				9	98-8081	1	Label, Panel (Start/Preheat)
					323-1543	1	# Wedge, Plug (not shown)

Remote Control Panel (W/Hour Meter)



⚠ WARNING

10

4 Min

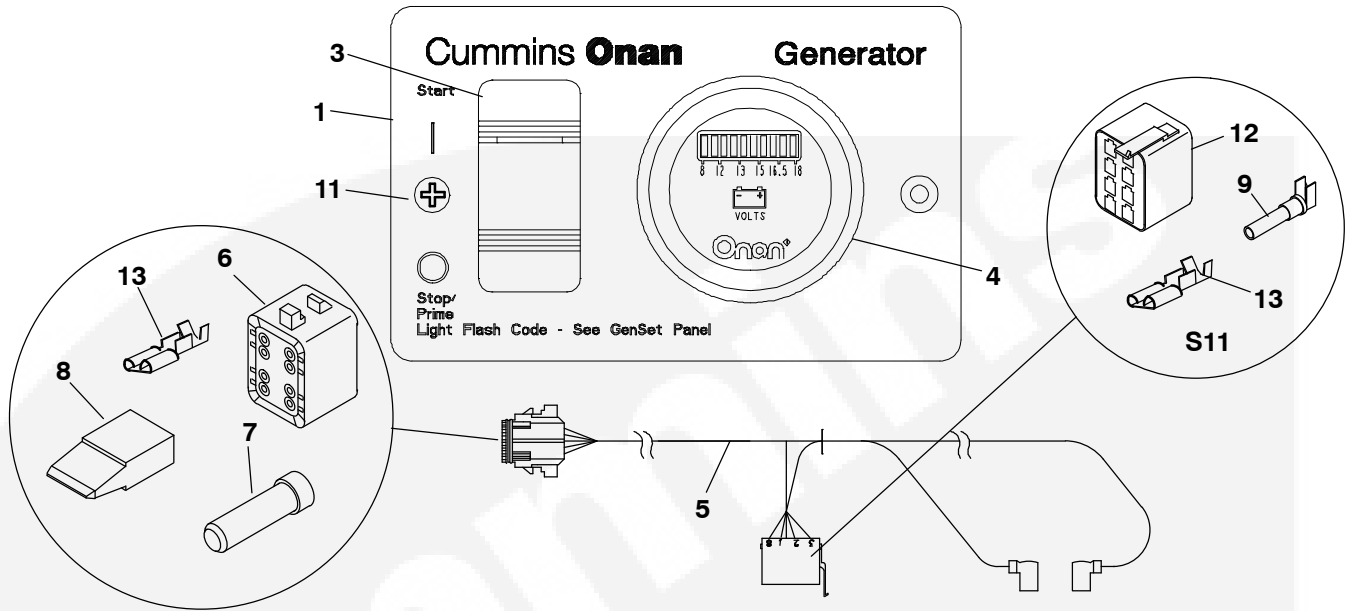
2

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
	300-4943	1	Kit, Remote Panel	7	323-1543	1	Wedge, Plug (8 Pin)
1	300-4951-03	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.

0088-8081 (R)

Cummins Onan

GENERATOR OPERATION

Start:

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

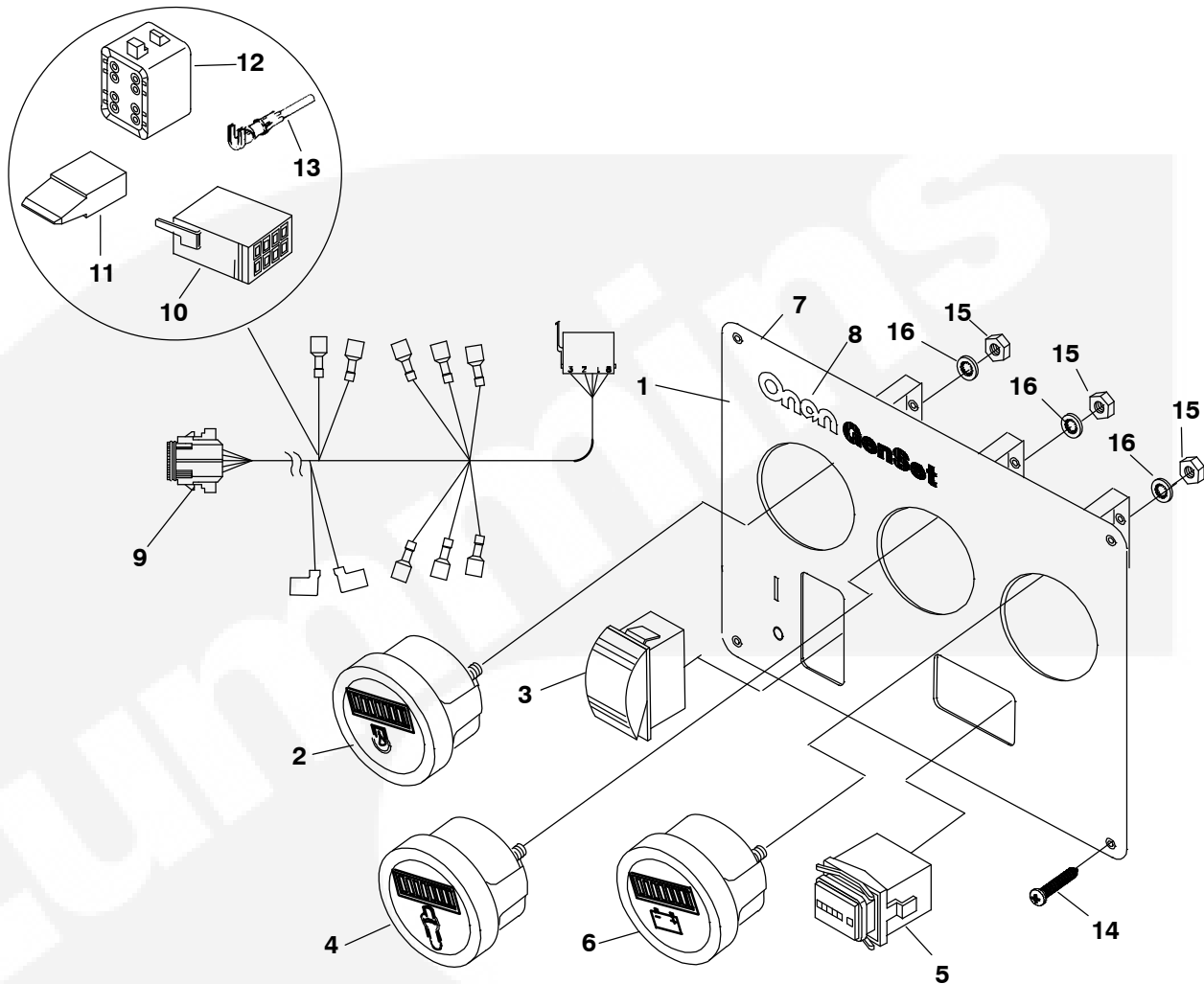
Stop: 1. Push and release stop switch.

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
	300-4944	1	Kit, Remote Panel	7	323-1591	2	Plug, Connector
1	300-4952-03	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
1	300-4932	1	Panel, Remote	10	308-1019	1	+Connector, Switch
2	302-2088	1	Gauge, Oil Pressure (M12) (Includes Mounting Bracket, M4 x .7 Nut, and M4 Washer)	11	323-1543	1	+Wedge, Plug (8 Pin)
3	308-1102	1	Switch, Rocker (SPDT) (S11)	12	323-1541	1	+Plug (8 Pin) (P4)
4	302-2087	1	Gauge, Water Temperature (M13)	13	323-1492	8	+Contact, Socket
5	302-2048	1	Meter, Running Time (M11)	14	819-1156-01	4	Screw, Pan Head Sheet Metal (#8-15 x 1.00")
6	302-2051-02	1	Meter, Volt (M14) (8-18V)	15	850-0114-51	6	Washer, Lock
7	98-7840	1	Label, Panel (M14, M13, M12)	16	860-2025	6	Nut, Hex Head
8	98-7853	1	Label, Panel (Diesel Genset)	+ - Parts Included in Remote Panel Harness.			
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
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HDKBB

543-0018-02	1	Label, Package
98-8718	1	Label, Logo
98-8720	1	Label, Logo
98-8878-01	1	Label, Emissions
98-8790	1	Label, Warning (Voltage)
98-8755	1	Label, Logo
98-8001-03	1	Label, Information 50Hz and 60Hz Single Phase(Control)
543-0018-03	1	Label, Package

HDKBC

543-0018-02	1	Label, Package
98-8718	1	Label, Logo
98-8755	1	Label, Logo
98-8720	1	Label, Logo
98-8805	1	Label, Information
98-8790	1	Label, Warning (Voltage)
98-8066	1	Label, Warning (Voltage)
98-8720	1	Label, Logo
98-8001-01	1	Label, Information 20 and 30 Amp Control
98-8001-04	1	Label, Information 15 Amp 3 Pole Control)
98-8001-05	1	Label, Information 8 Amp 3 Pole Control
543-0018-03	1	Label, Package

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