

Cummins **Onan**



Parts Manual

Marine Generator Set MDK BK (Spec A–G)

Introduction

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

<u>MODEL</u>	<u>HERTZ</u>
7MDKBK/*	50Hz
9MDKBK/*	60Hz

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

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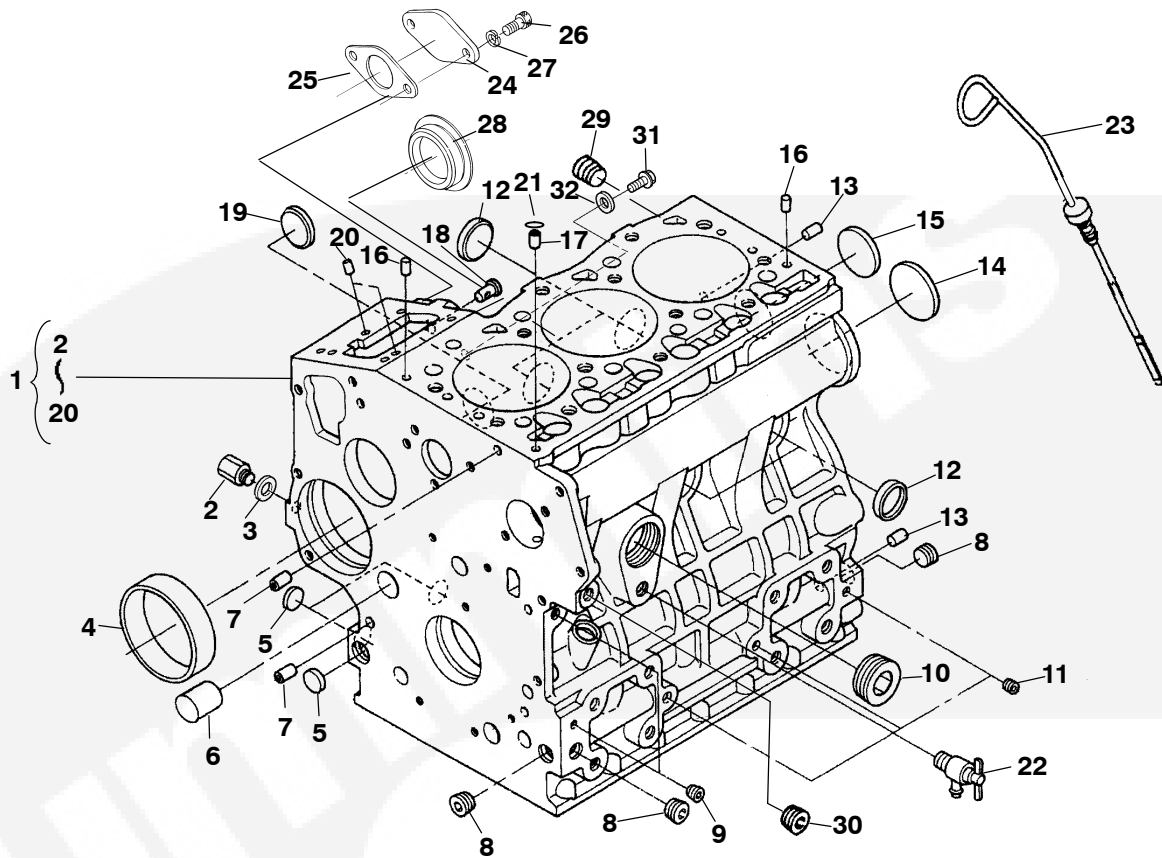
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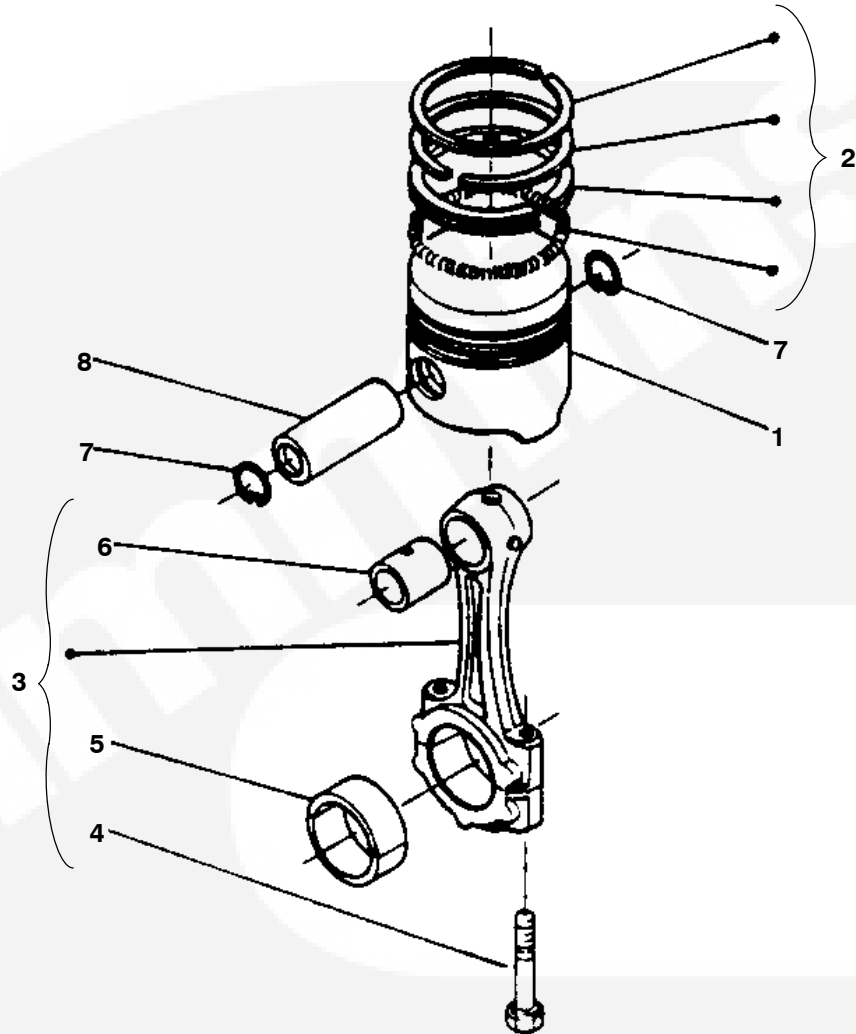
Cylinder Block



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Assy, Engine Replacement	15	185-2412	1	*Cap, Sealing
			Spec A	16	185-5843	2	*Pin, Straight
	100-4101-01	1	12V	17	185-6469	1	*Pin, Pipe
	100-4101-02	1	24V	18	185-6857	1	*Pin, Start Spring
			Spec B-D	19			*Plug
	100-4101-01	1	12V		185-6470	1	Spec A
	100-4101-02	1	24V		185-7212	1	Begin Spec B
			MDKBL (Begin Spec E)	20	185-5486	2	*Pin, Straight
	100-4101-01	1	12V	21	185-2095	1	O'Ring (Spec A)
	100-4101-02	1	24V	22	185-5490	1	Cock Assy, Drain
1			Block, Cylinder (Includes Parts Marked *)	23	181-9121	1	Indicator, Oil Lever
	185-7372	1	Spec A	24			Cover, Solenoid
	110-4083	1	Begin Spec E		185-6578	2	Spec A
2	185-5845	1	*Plug	25			Gasket
3	185-2338	1	*Gasket		185-6579	1	Spec A
4	185-6472	1	*Bush, Governor Gear	26			Bolt, Hex Socket Head
5	185-6121	3	*Plug, Expansion		185-2403	2	Spec A
6	185-6471	1	*Plug	27	185-6759	2	Washer, Spring Spec B
7	185-2115	2	*Pin, Pipe	28			Cover, Hydraulic Pump
8	185-6468	3	*Plug		185-7223	1	Spec B
9	185-2233	2	*Plug		120-1386	1	Begin Spec E
10	185-6856	1	*Plug	29	185-6039	1	Plug (Spec A)
11	185-2188	3	*Plug	30	185-5502	1	Plug (Spec A)
12	185-5484	4	*Cap, Sealing	31	185-2572	1	Bolt, Flange
13	185-5487	2	*Pin, Straight	32	185-2284	1	Gasket
14	185-6040	1	*Plug, Expansion				

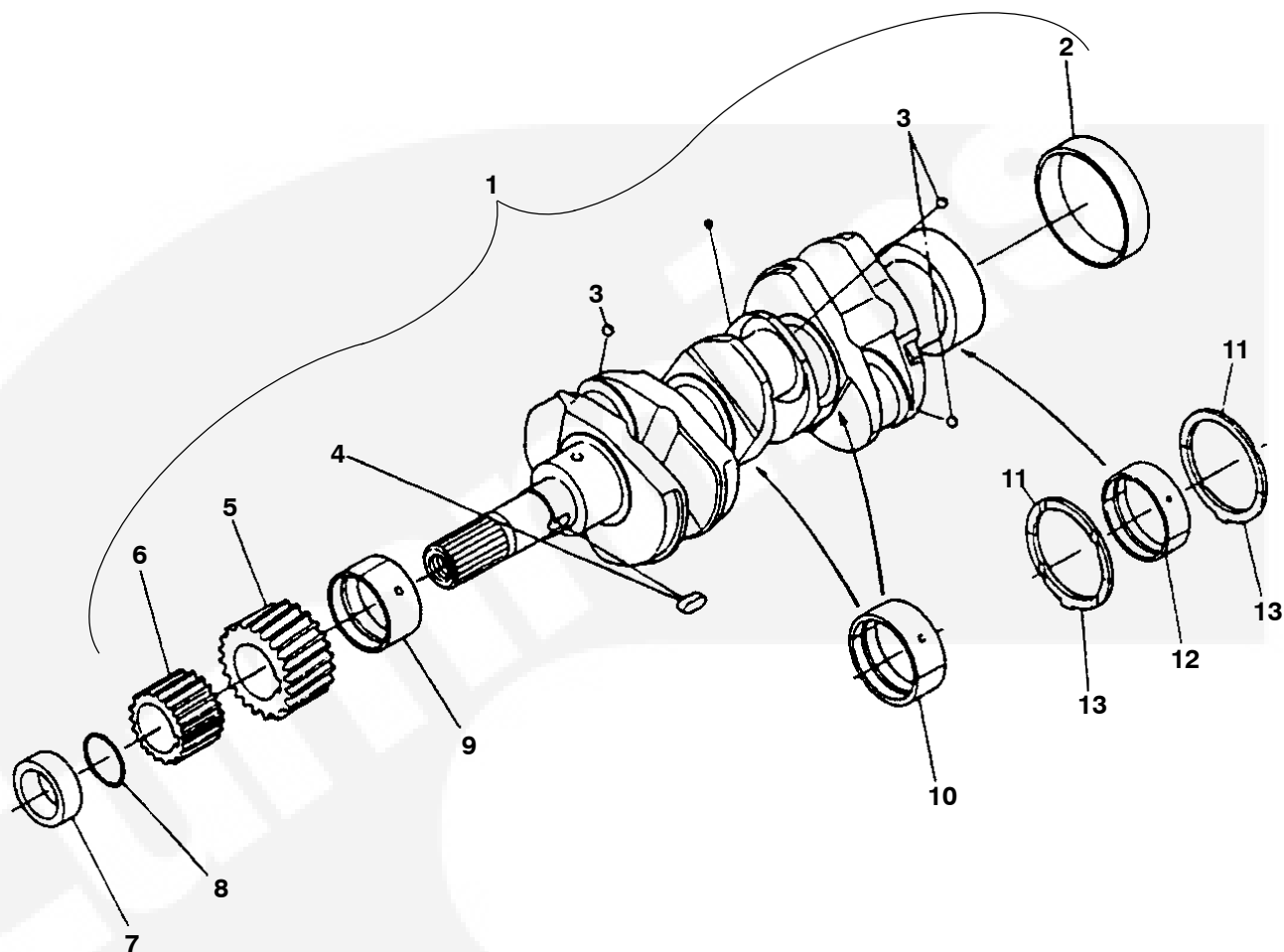
* - Parts Included in Cylinder Block.

Piston



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston	4			Bolt, Connecting Rod
			Spec A				Spec B
	181-9091	3	Standard	5	181-9102	6	Bearing, Connecting Rod
	185-7309	3	.5mm Oversize		185-6536	3	Standard
			Spec B-D		185-6537	3	.2mm Undersize
	181-9091	3	Standard		185-6538	3	.4mm Undersize
	112-0303	3	.5mm Oversize	6			Bushing, Connecting Rod
			Begin Spec E		181-9101	3	Spec A-B
	112-0319	3	Standard	7	185-6532	6	Circlip, Piston Pin
	112-0320	3	.5mm Oversize	8	185-6531	3	Pin, Piston
2			Ring Set, Piston				
	185-7310	3	Standard				
	185-7311	3	.5mm Oversize				
3			Rod Assy, Connecting (Includes Bolt, Bearing and Bushing)				
	185-6533	3	Spec A				
	114-0430	3	Begin Spec B				

Crankshaft

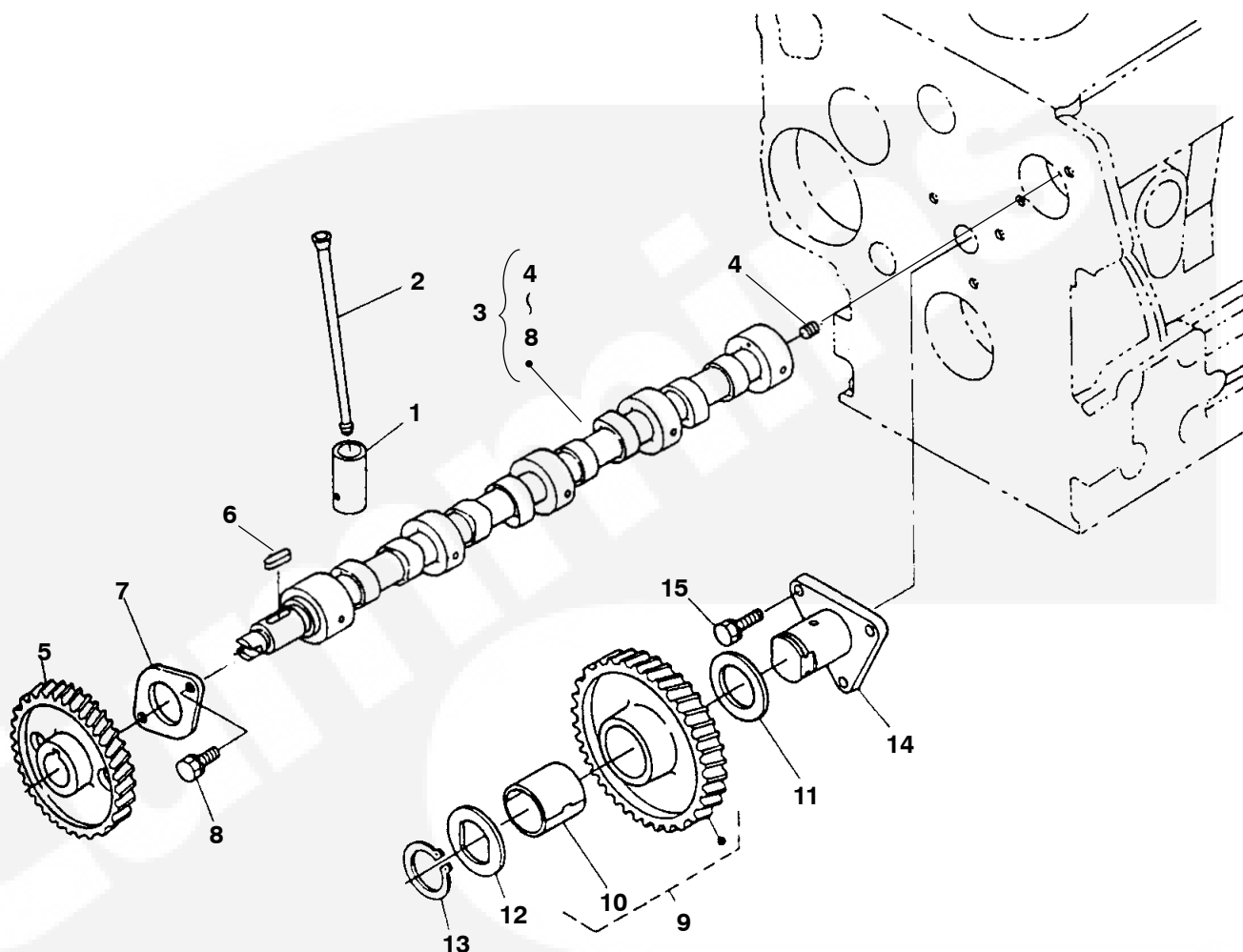


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7376	1	Crankshaft (Includes Parts Marked *)
2	185-6543	1	*Sleeve, Crankshaft
3	185-5924	3	*Ball Spec A-B
4	185-6541	1	*Key
5	185-6540	1	*Gear, Crankshaft
6	185-6542	1	*Gear, Oil Pump Drive
7	185-6544	1	Collar, Crankshaft
8			O'Ring
	185-6545	1	Spec A
	185-7429	1	Begin Spec B-E
9			Bearing, Crankshaft
	185-6546	1	Standard
	185-6547	1	.2mm, Undersize
	185-6548	1	.4mm, Undersize
10			Bearing, Crankshaft
	185-6549	2	Standard
	185-6550	2	.2mm, Undersize
	185-6551	2	.4mm, Undersize

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11			Washer, Thrust
	185-5938	2	Standard
	181-9044	2	.2mm, Oversize
	185-6556	2	.4mm, Oversize
12			Bearing, Crankshaft
	185-6552	1	Standard
	185-6553	1	.2mm, Undersize
	185-6554	1	.4mm, Undersize
13			Washer, Thrust
	185-5941	2	Standard
	185-5942	2	.2mm, Oversize
	185-5943	2	.4mm, Oversize

* - Parts Included in Crankshaft.

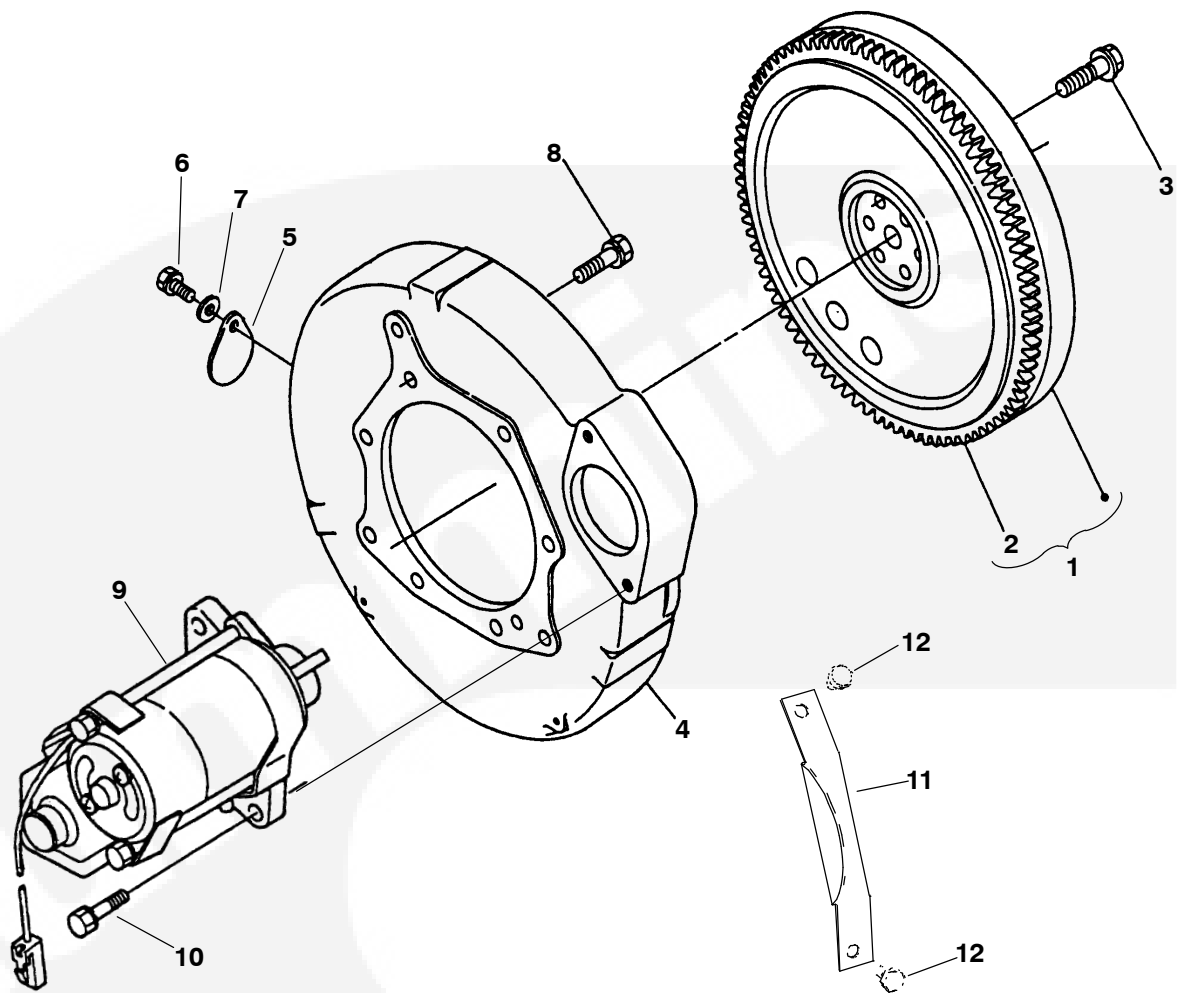
Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Tappet	185-2387	2		Spec A
	185-6516	6	Spec A-D	185-2388	2		Begin Spec B
	115-0541	6	Begin Spec E	9	185-6521	1	Gear Assy, Idle (Includes Bushing)
2	185-6517	6	Rod, Push	10	185-6522	1	Bushing, Idle Gear
3			Camshaft Assy (Includes Parts Marked *)	11	185-6523	1	Collar, Idle Gear
	185-6873	1	Spec A	12	185-6524	1	Collar, Idle Gear
4	185-5558	1	*Screw, Set	13	185-6525	1	Circlip, Idle Gear
5	185-6519	1	*Gear, Cam	14	185-6526	1	Shaft, Idle Gear
6	185-5560	1	*Key, Feather	15	185-2388	3	Bolt
7	185-6520	1	*Stopper, Camshaft				
8			*Bolt				

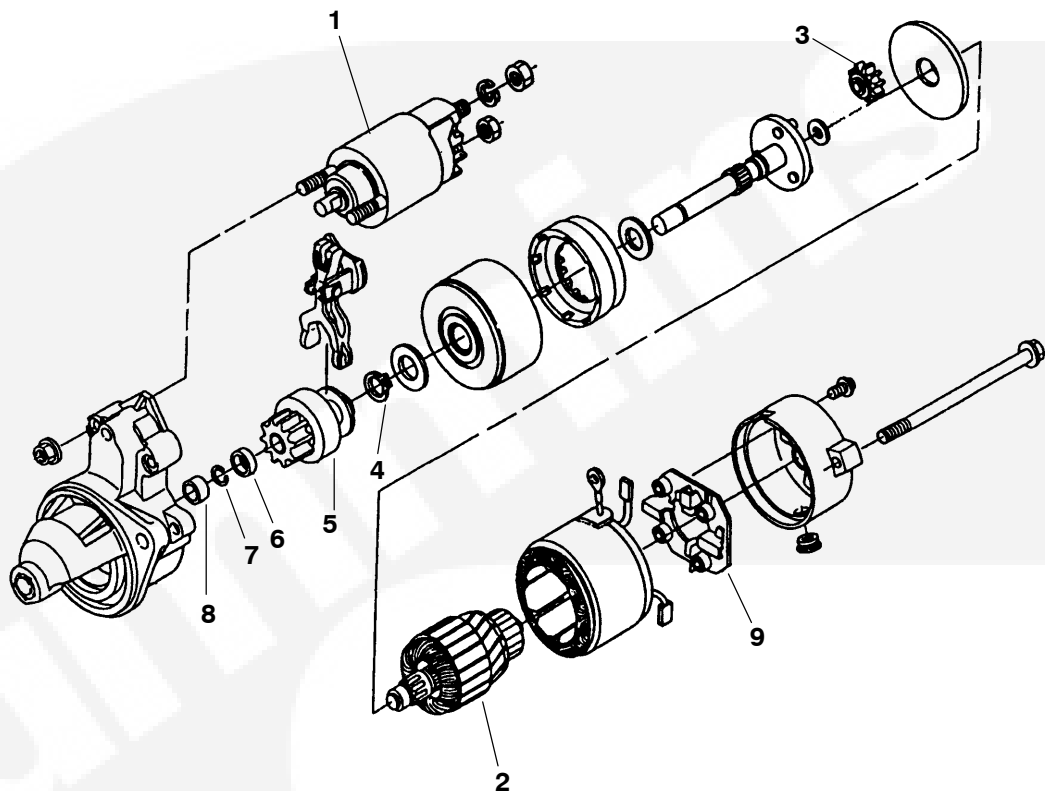
* - Parts Included in Camshaft Assy.

Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Flywheel (Includes Ring Gear)	8	185-2178	8	Bolt
	185-7217	1	Spec A-D	9			Starter (See Separate Page for Components)
	104-2156	1	Begin Spec E		185-7104	1	12V
2	185-2170	1	Gear, Ring		185-7105	1	24V
3	185-6409	6	Bolt, Flywheel	10	185-2564	2	Screw
4	185-7218	1	Housing, Flywheel	11	191-2275-02	1	Guard, Starter
5	185-7219	1	Cover	12	815-0194	2	Screw, Hex Head (#10-32 x .38")
6	185-6956	1	Bolt				
7	185-7221	1	Washer, Plain				

Starter Components
(12V)

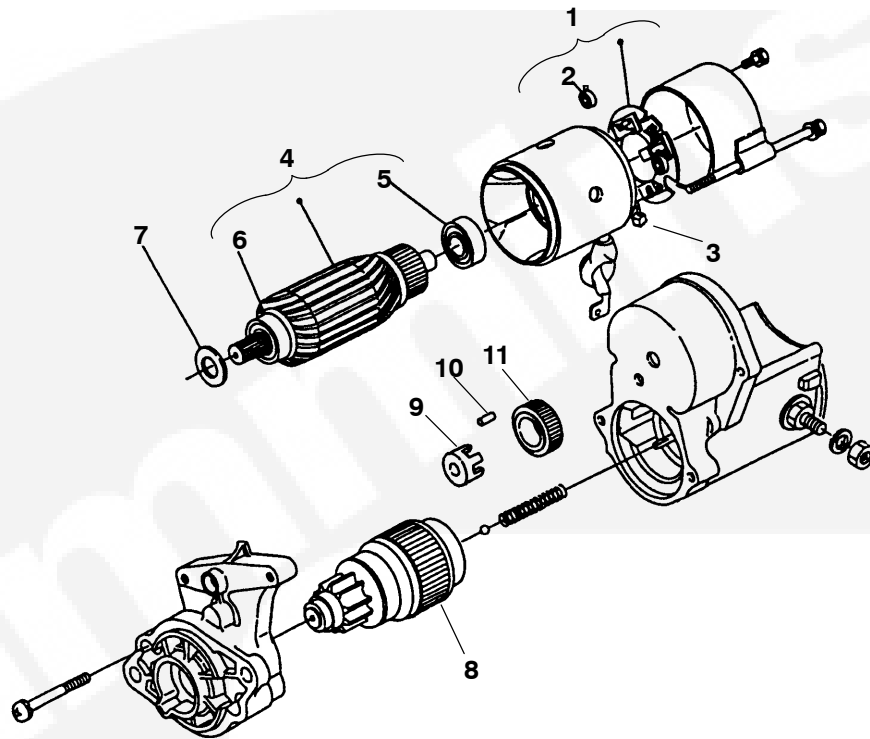


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-7104	1	Starter
1	185-2658	1	Switch, Magnetic
2	185-7231	1	Armature
3	185-7234	3	Gear
4	185-7235	1	Ring, Snap
5	185-7232	1	Clutch, Starter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	185-7236	1	Collar
7	185-6386	1	Ring, Snap
8	185-7233	1	Bearing, Oilless
9	185-7230	1	Holder, Brush

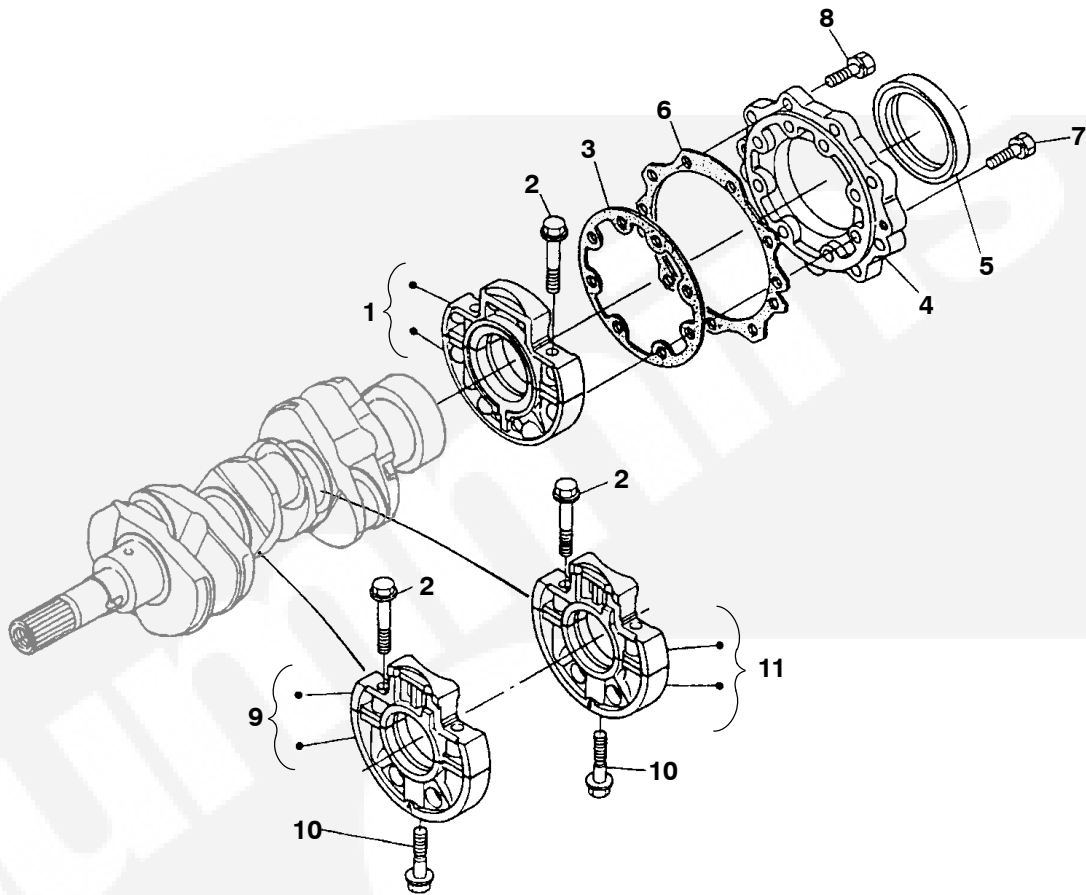
Note: Parts not Identified are Not For Sale.

Starter Components (24V)



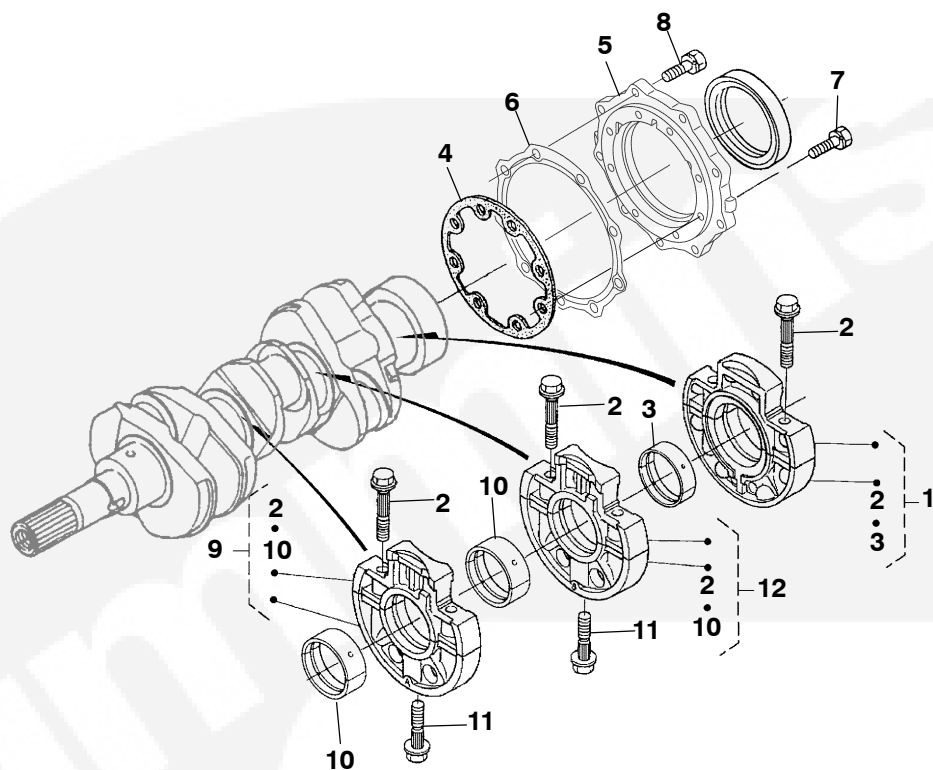
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-7105	1	Starter	7	185-6365	1	Washer, Felt
1	185-7240	1	Holder Assy, Brush	8	185-6354	1	Clutch
2	185-6358	4	Spring, Brush	9	185-6362	1	Retainer
3	185-7237	2	Brush, Yoke	10	191-2252	5	Roller
4	185-7238	1	Armature	11	185-7296	1	Gear, Pinion
5	185-6442	1	Bearing, Ball	Note: Parts Not Identified are Not Sold Separately.			
6	185-6441	1	Bearing, Ball				

Main Bearing Case (Spec A-D)



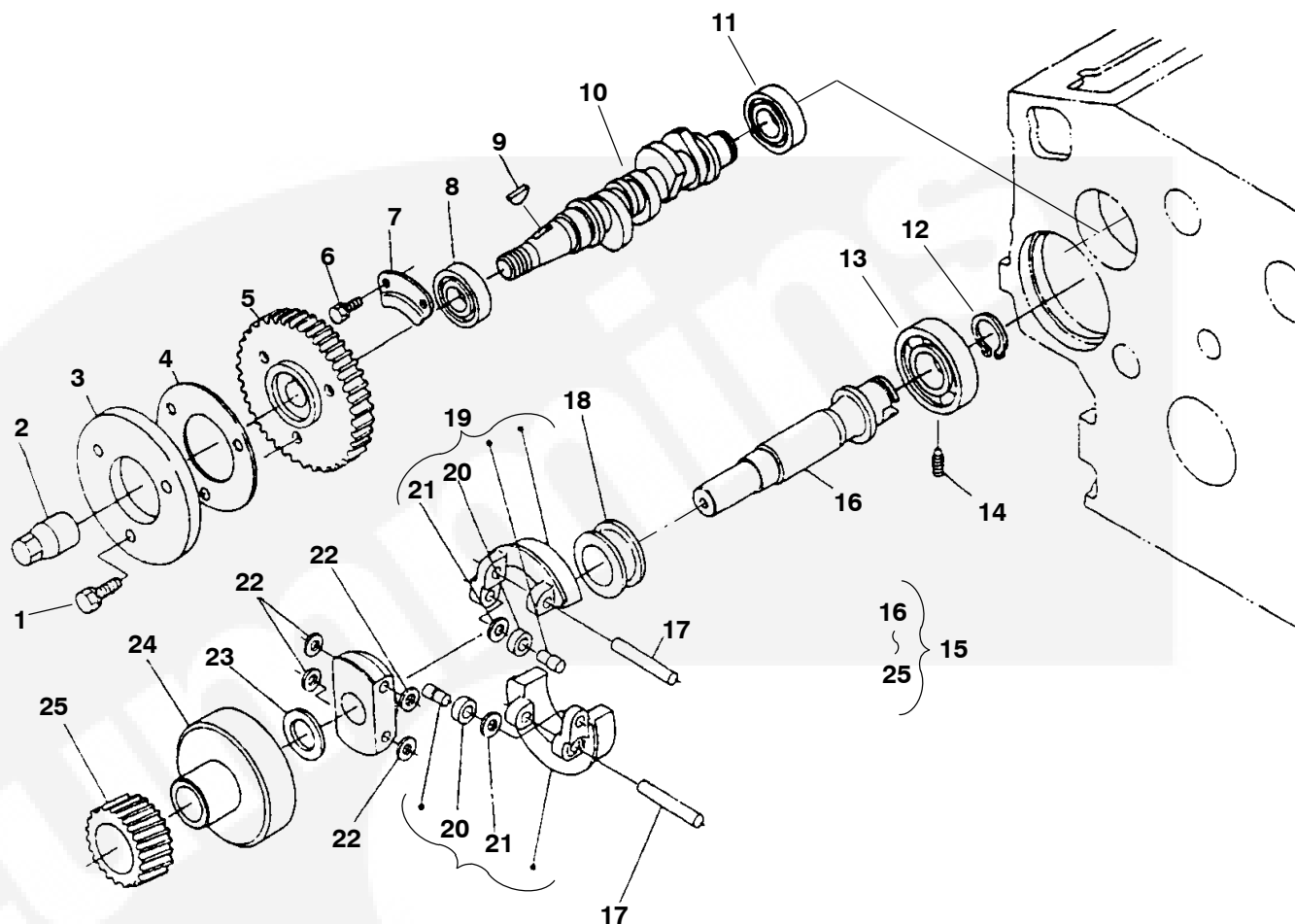
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-2120	1	Case Assy, Main Bearing	7	185-2391	8	Bolt
2	185-6507	6	Bolt, Bearing Case	8	185-2390	9	Bolt
3	185-6865	1	Gasket, Bearing Case	9	185-3505	1	Case Assy, Main Bearing
4	185-6509	1	Cover, Bearing Case	10	185-6513	2	Bolt, Bearing Case
5	185-6510	1	Seal, Oil	11	185-7306	1	Case Assy, Main Bearing
6	185-6511	1	Gasket, Bearing Case Cover				

Main Bearing Case (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-2120	1	Case Assy, Main Bearing	8	185-2390	9	Bolt
2	185-6507	3	Bolt, Bearing Case	9	104-2118	1	Assy, Bearing Case Main Metal, Crankshaft
3			Bearing	10			
	104-2121	1	Standard Set		185-6549	2	Standard Set
	104-2157	1	0.20mm Set		185-6550	2	0.20mm Set
4	181-9124	1	Gasket, Bearing Case		185-6551	2	0.40mm Set
5	232-4204	1	Cover, Bearing Case	11	185-6513	2	Bolt, Bearing Case
6	185-6511	1	Gasket, Bearing Case Cover	12	104-2119	1	Assy, Bearing Case Main Metal, Crankshaft
7	185-2391	8	Bolt				

Fuel Camshaft (Spec A)

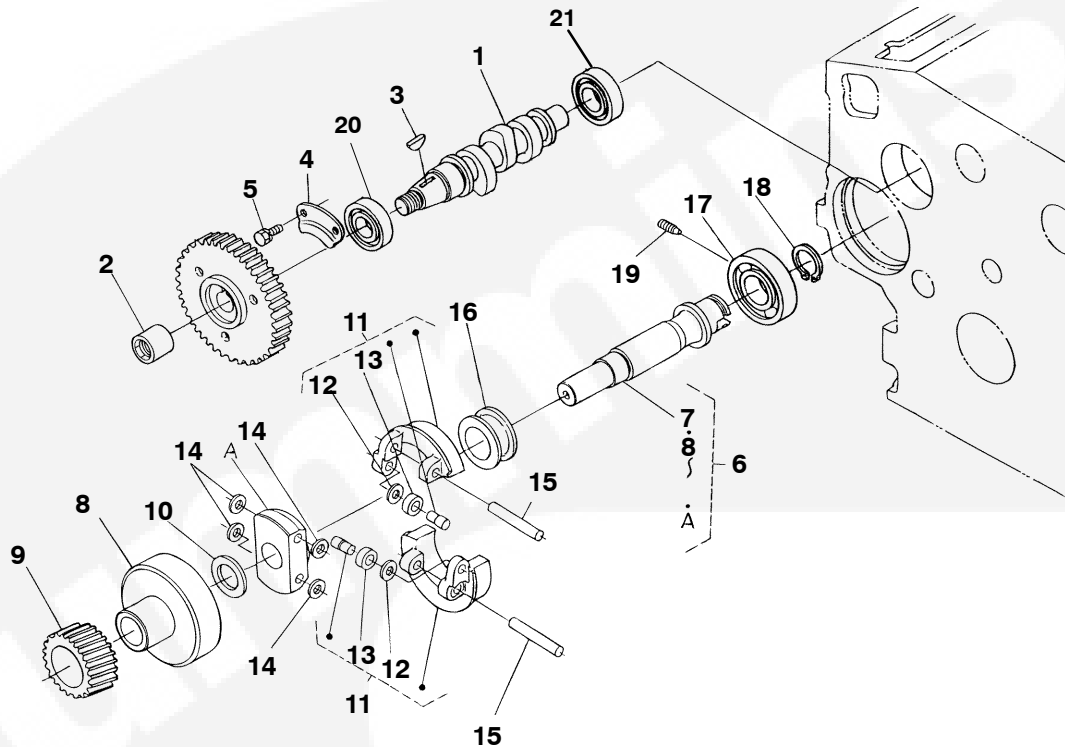


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-2389	3	Bolt
2	185-6560	1	Nut, Cap
3	185-6876	1	Cam, Fuel
4	185-6879	1	Washer
5	185-6558	1	Gear, Injection Pump
6	185-2386	2	Bolt
7	185-6562	1	Stopper, Fuel Camshaft
8	185-3093	1	Bearing, Ball
9	185-6561	1	Key, Woodruff
10	185-6875	1	Camshaft, Fuel
11	510-0163	1	Bearing, Ball
12	185-6572	1	Circlip, Governor Shaft
13	185-6571	1	Bearing, Ball
14	185-6573	1	Screw, Set
15	185-6877	1	Shaft Assy, Governor (Includes Parts Marked *)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
16	185-6878	1	*Shaft, Governor
17	185-6569	2	*Shaft, Governor Weight
18	185-6570	1	*Sleeve, Governor
19	185-6567	2	*Weight, Governor (Includes Bearing and Washer)
20	185-5959	2	Bearing
21	185-5960	2	Washer
22	185-6568	4	*Washer, Governor Weight
23	185-6566	1	*Collar, Governor Shaft
24	185-6880	1	*Holder, Governor Gear
25	185-6565	1	*Gear, Governor

* - Parts Included in Governor Shaft Assy.

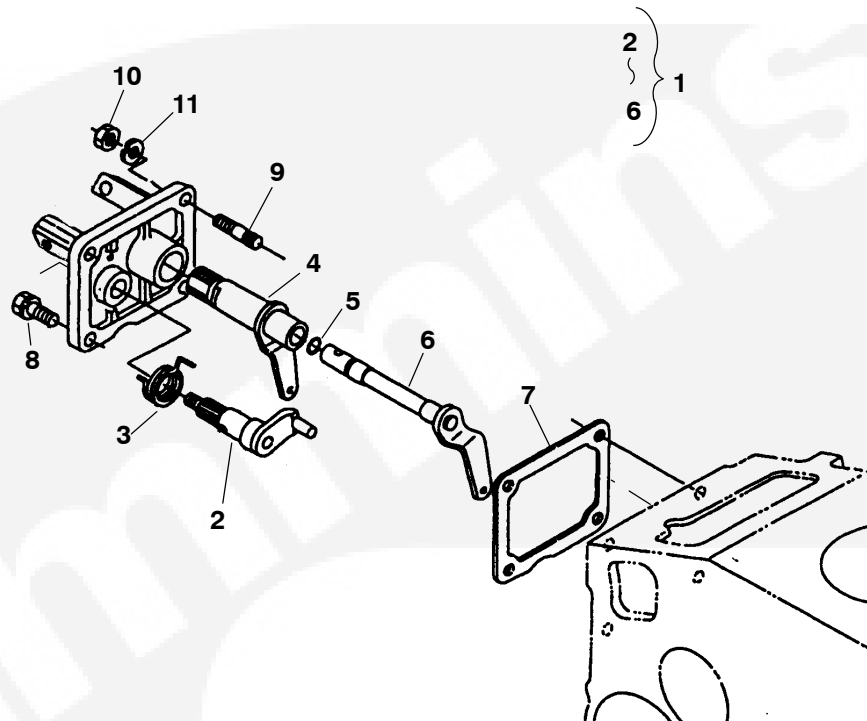
Fuel Camshaft (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6875	1	Cam, Fuel	12	185-5960	2	Washer
2	185-6560	1	Nut	13	185-5959	2	Bearing
3	185-6561	1	Key, Woodruff	14	185-6568	4	*Washer, Governor Weight
4	185-6562	1	Stopper, Fuel Camshaft	15	185-6569	2	*Shaft, Governor Weight
5	185-2388	2	Bolt	16	185-6570	1	*Sleeve, Governor
6	185-6877	1	Shaft Assy, Governor (Includes Parts Marked *)	17	185-6571	1	Bearing, Ball
7	185-6878	1	*Shaft, Governor	18	185-6572	1	Circlip, Governor Shaft
8	185-6880	1	*Holder, Governor Gear	19	185-6573	1	Screw, Set
9	185-6565	1	*Gear, Governor	20	181-9123	1	Bearing, Ball
10	185-6566	1	*Collar, Governor Shaft	21	181-9122	1	Bearing, Ball
11	185-6567	2	*Weight, Governor (Includes Bearing and Washer)				

* - Parts Included in Governor Shaft Assy.

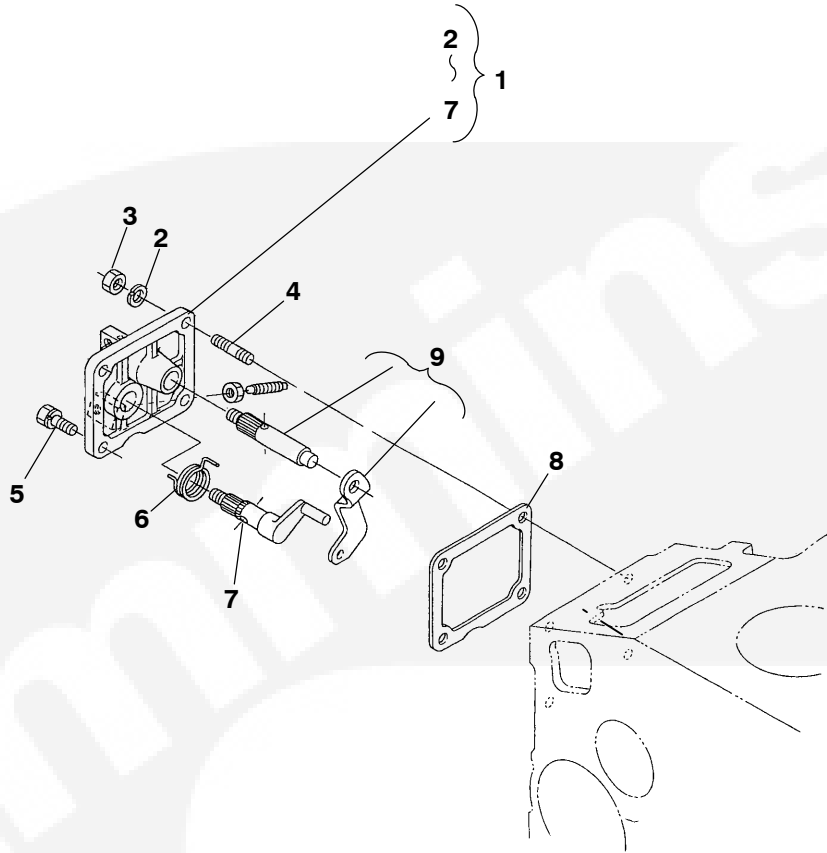
Speed Control Plate Spec A



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7256	1	Plate Assy, Control (Includes Parts Marked *)	8	185-2388	1	Bolt
2	185-6615	1	*Shaft, Stop Lever	9	185-2359	2	Stud
3	185-6614	1	*Spring, Return	10	185-4255	2	Nut
4	185-7260	1	*Holder, Governor Shaft	11	185-6759	2	Washer, Spring
5	185-2347	1	*O'Ring				
6	185-7259	1	*Shaft, Governor				
7	185-6894	1	Gasket				

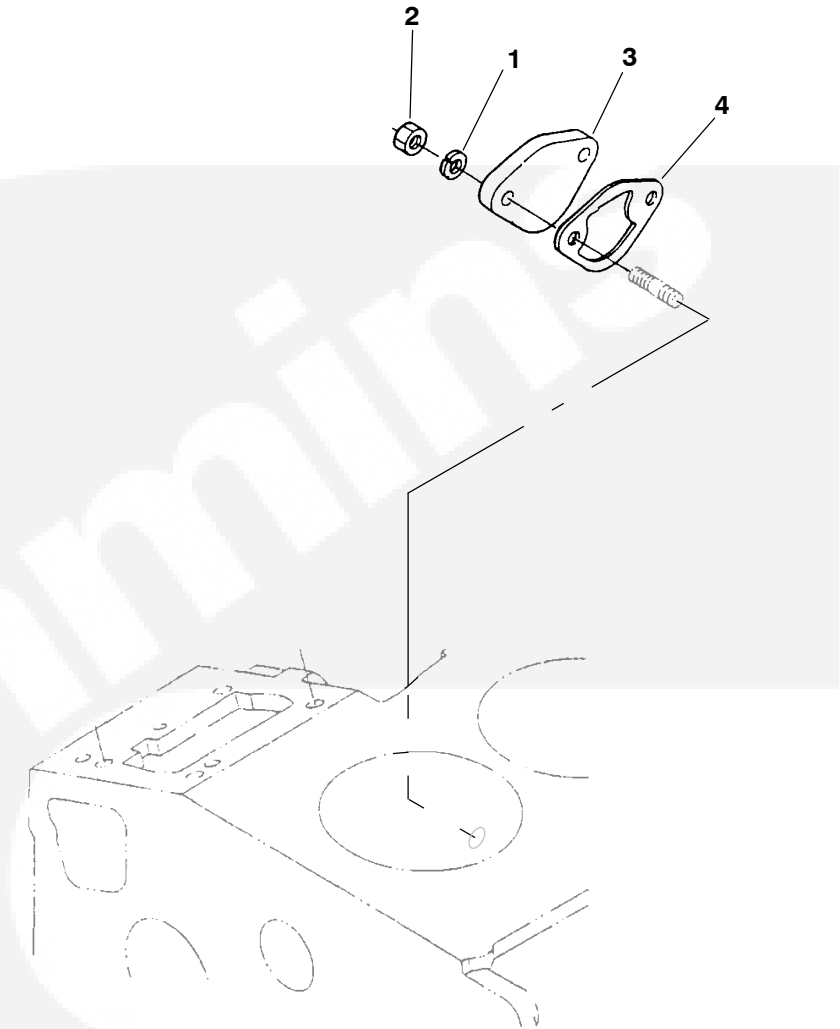
* - Parts Included in Control Plate Assy.

Speed Control Plate Begin Spec B



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6606	1	Plate Assy, Control (Includes Parts Marked *)	6	185-6614	1	*Spring, Return
2	185-6759	2	Washer, Spring	7	185-6615	1	*Shaft, Stop Lever
3	185-4255	2	Nut	8	185-6894	1	Gasket
4	185-7434	2	Stud	9	185-6612	1	Comp. Lever, Gov
5	185-2388	1	Bolt				* - Parts Included in Control Plate Assy.

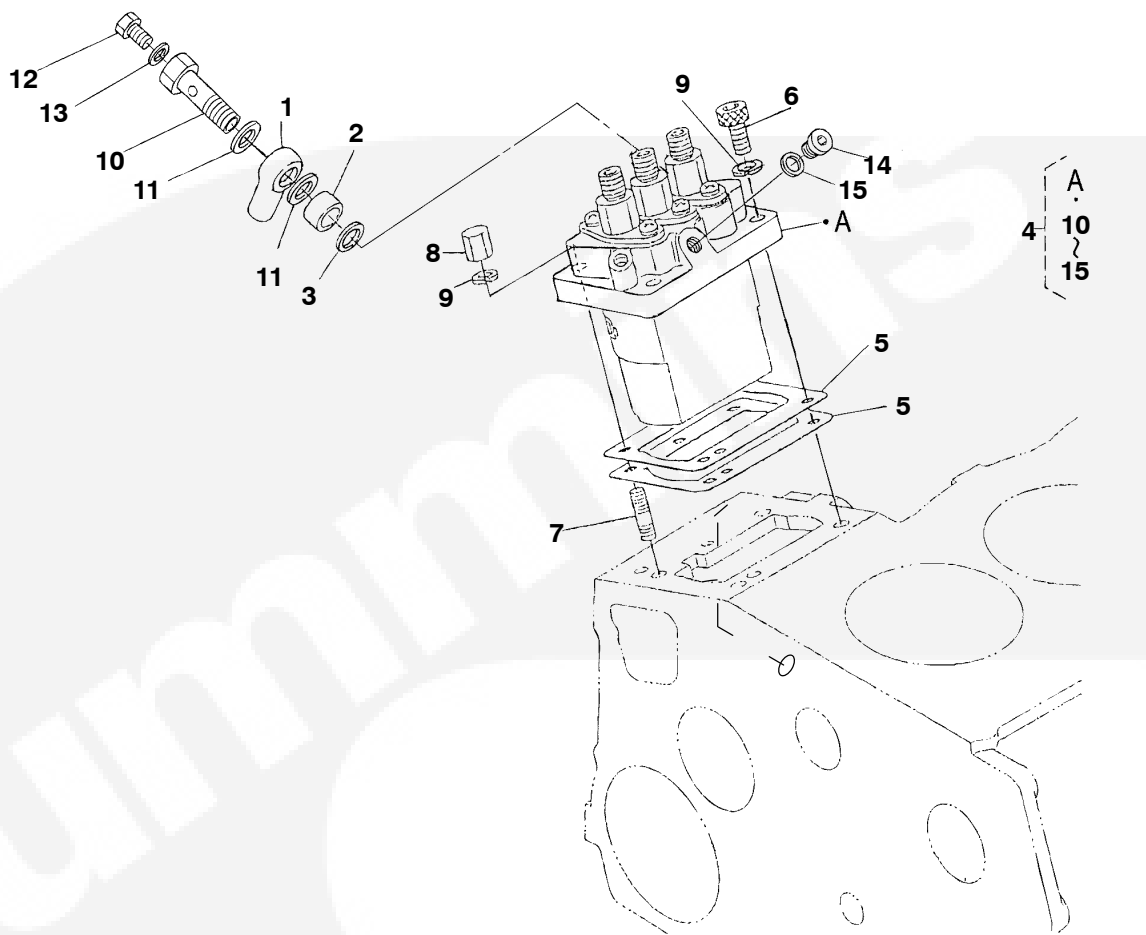
Injection Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6759	6	Washer, Spring
2	181-9013	2	Nut

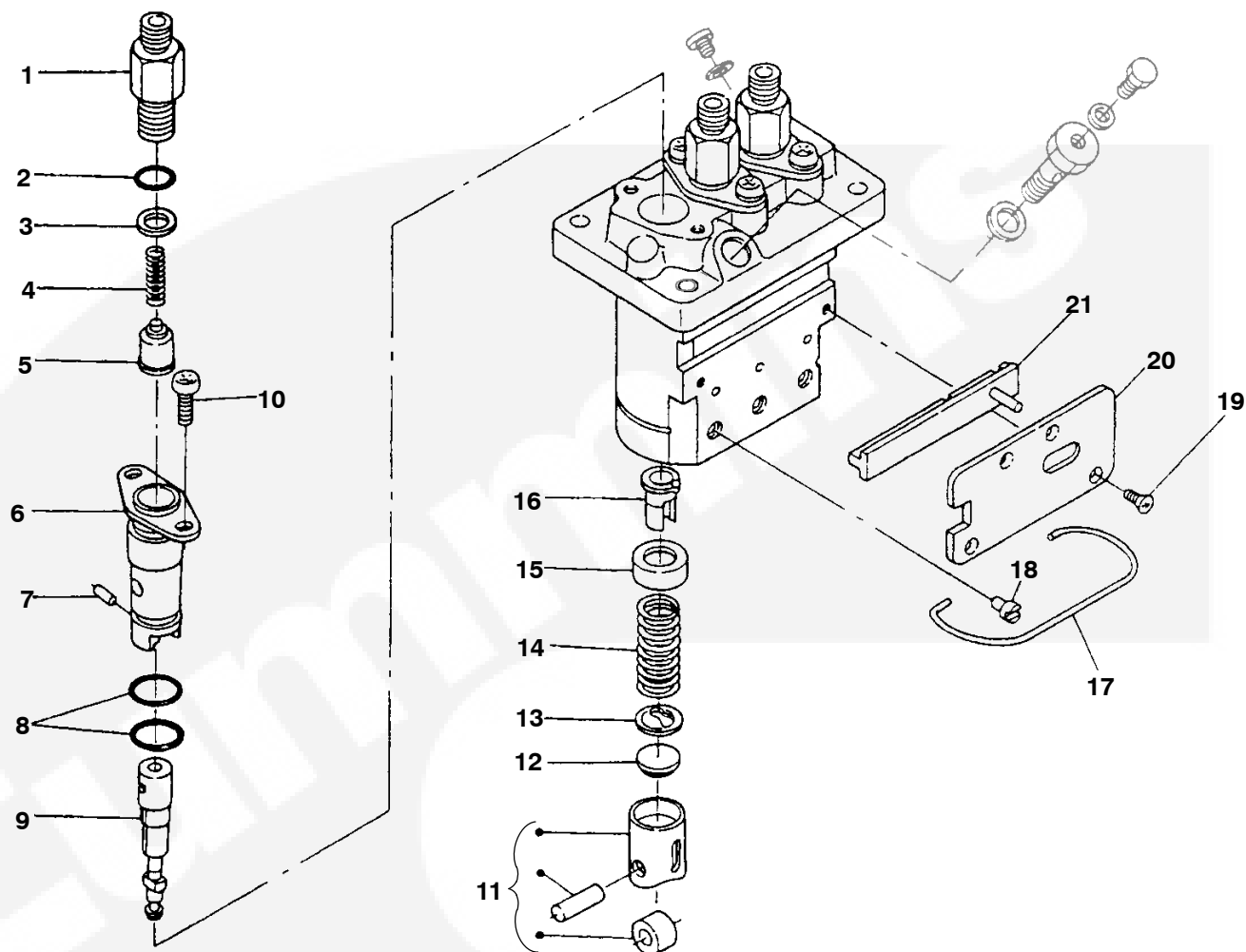
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	185-5798	1	Cover
4	185-6580	1	Gasket

Injection Pump



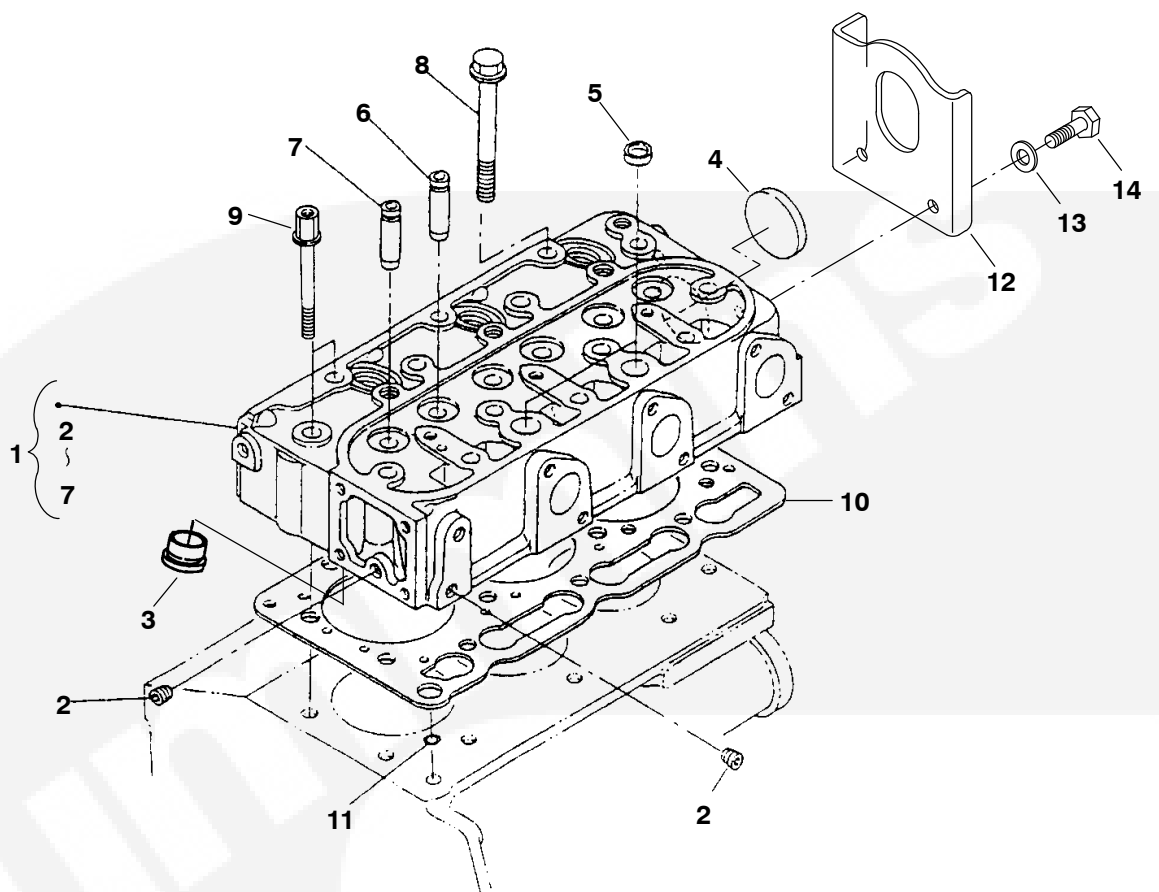
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6584	1	Joint	7	185-5624	2	Stud
2	185-6585	1	Collar, Joint	8	185-5625	2	Nut
3	185-2578	1	Gasket	9	185-6759	4	Washer, Spring
4	185-6882	1	Assy., Pump Injection	10	185-6887	1	Bolt, Joint
5			Shim, Injection Pump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

Injection Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185-6882	1	Pump Assy, Injection	12	185-5655	3	Shim
1	185-6588	3	Holder, Delivery Valve	13	185-5654	3	Seat, Spring Lower
2	185-5643	3	O'Ring	14	185-5652	3	Spring, Plunger
3	185-5641	3	Gasket, Delivery Valve	15	185-5653	3	Seat, Spring Upper
4	185-5640	3	Spring, Delivery Valve	16	185-5659	3	Sleeve, Control
5	185-5639	3	Valve, Delivery	17	185-6707	1	Pin, Clamp
6	185-5644	3	Flange, Sleeve	18	185-5650	3	Pin, Tappet Guide
7	185-5645	3	Pin, Joint	19	185-5658	4	Screw, Countersunk Head
8	185-5646	3	O'Ring	20	185-6886	1	Plate
9	185-6884	3	Plunger, Pump	21	185-6885	1	Rack, Control
10	185-5647	6	Screw				
11	185-5649	3	Tappet				

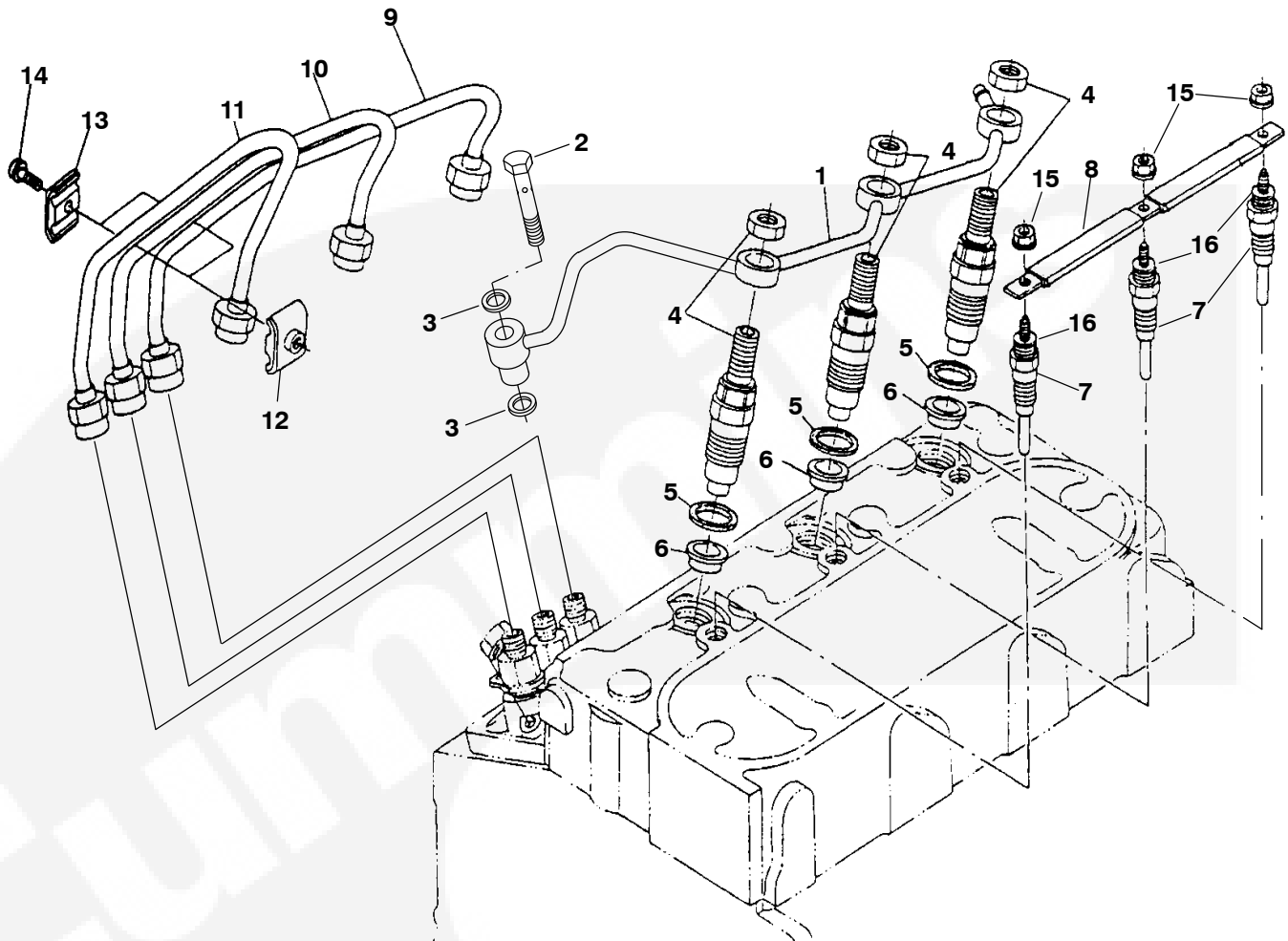
Cylinder Head



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Head Assy, Cylinder (Includes Parts Marked *)	185-6477	12		Spec A
	185-7374	1	Spec A-D	185-6477	14		Spec B-D
	110-4092	1	Begin Spec E	185-6477	12		Begin Spec E
2	185-2188	2	*Plug	9	185-6479	2	Bolt, Cylinder Head (Spec A)
3	185-7375	3	*Chamber, Combustion (Spec A)	10			Gasket, Cylinder Head
4	185-2411	1	*Cap, Sealing	185-7422	1		Spec A
5	185-2413	2	*Cap, Sealing	181-9222	1		Spec B-E
6			*Guide, Exhaust Valve	11	185-2095	1	O'Ring (Spec A)
	185-6476	3	Spec A	12	403-4284-02	1	Bracket, Lifting
7			*Guide, Inlet Valve	13	526-0399-60	2	Washer, Flat (M8)
	185-6475	3	Spec A	14	800-3017-18	2	Screw, Hex Head Cap (M8 x 1.25 x 16mm)
	185-5862	3	Spec B-E				
8			Bolt, Cylinder Head				

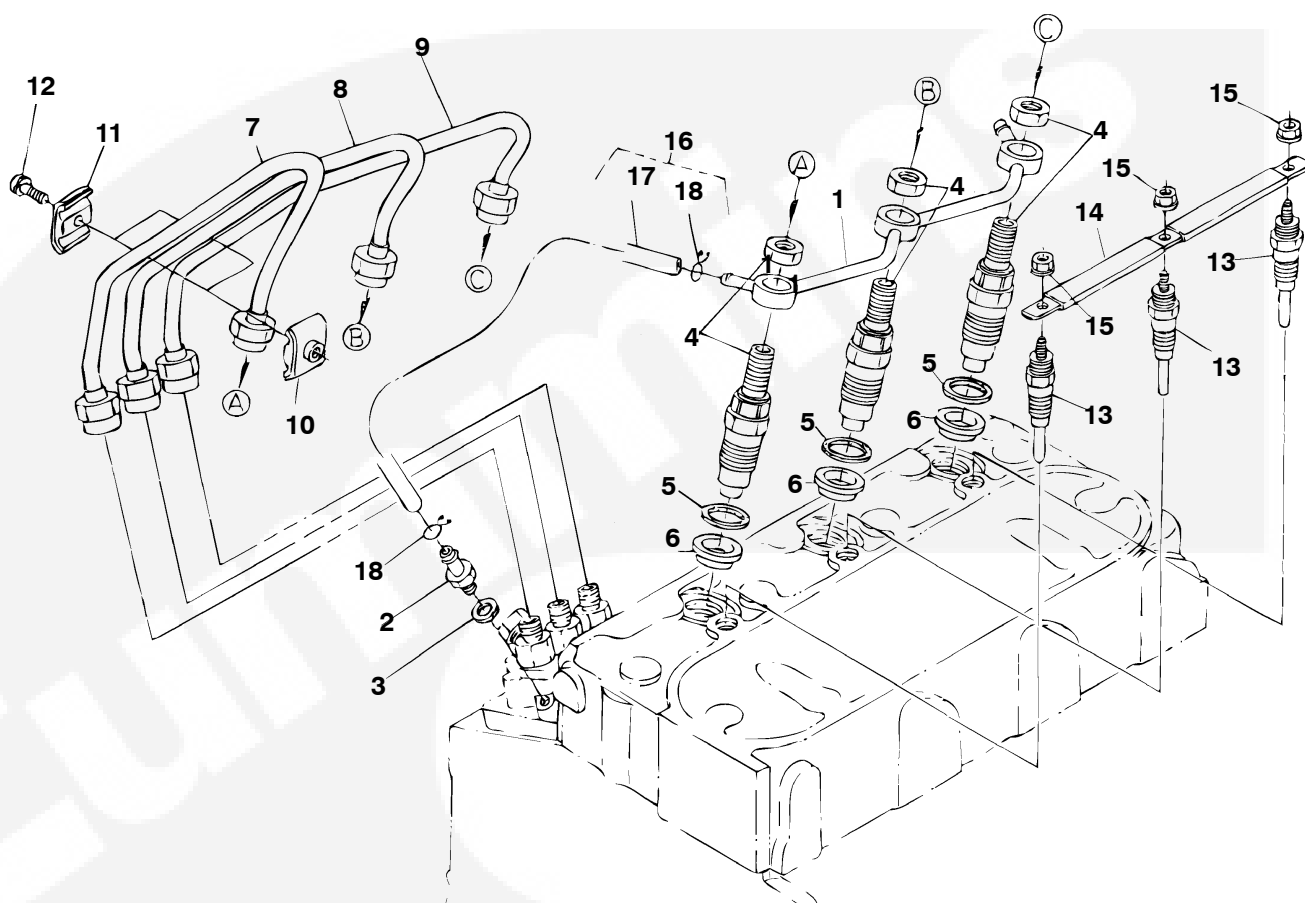
* - Parts Included in Cylinder Head Assy.

Nozzle Holder and Glow Plug (Spec A)



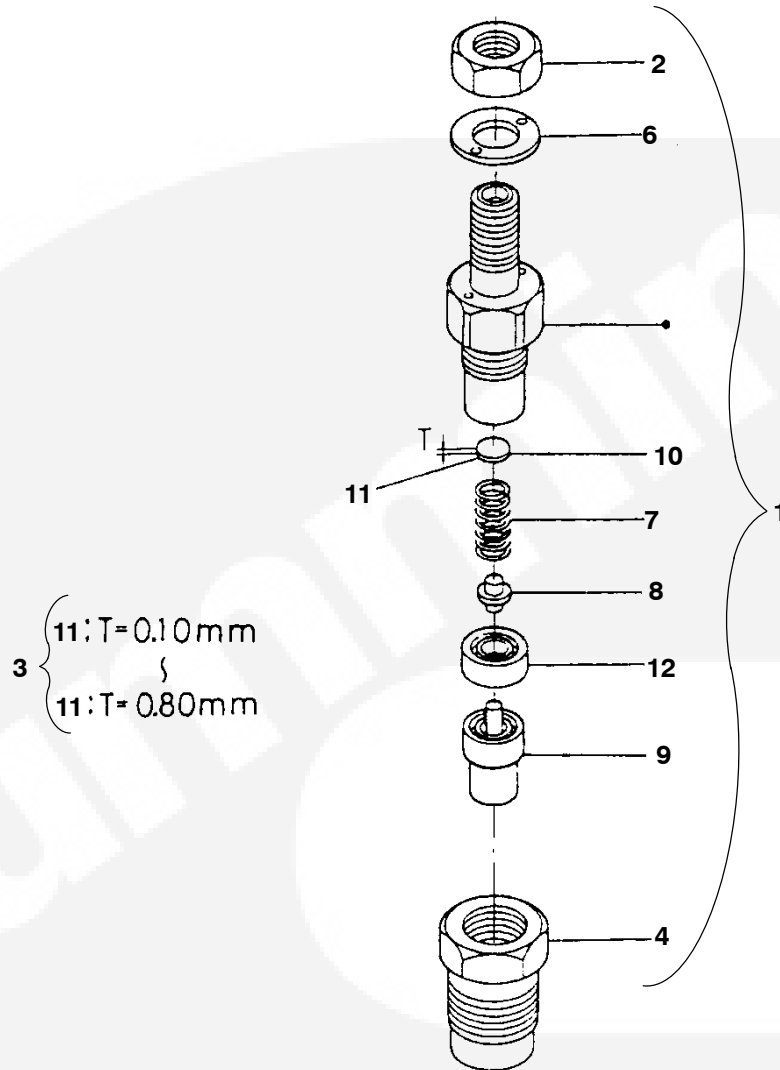
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7106	1	Pipe, Overflow	8	185-6899	1	Cord, Glow Plug
2	185-7082	1	Screw, Air Bleeder	9	185-6621	1	Pipe, Injection
3	185-2284	2	Gasket	10	185-6751	1	Pipe, Injection
4	185-6740	3	Holder Assy, Nozzle (See Separate Page for Components)	11	185-6750	1	Pipe, Injection
5	185-5337	3	Gasket	12	185-5612	2	Clamp, Pipe
6	185-5985	3	Seal, Heat	13	185-2345	2	Clamp, Pipe
7			Plug, Glow	14	185-2385	2	Screw, Washer Head
	185-5421	3	12V	15	185-5615	3	Nut, Flange
	185-7268	3	24V	16	185-7004	3	Washer, Plain

Nozzle Holder and Glow Plug (Spec B-D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6896	1	Assy. Pipe, Overflow	10	185-5612	2	Clamp, Pipe
2	185-5609	1	Screw, Air Bleeder	11	185-2345	2	Clamp, Pipe
3	185-2284	1	Gasket	12	185-2385	2	Screw, with Washer
4	185-6740	3	Assy. Holder, Nozzle (See Separate Page for Components)	13			Glow Plug
5	185-5337	3	Gasket		185-5421	3	12V
6	185-5985	3	Seal, Heat		185-7268	3	24V
7	185-6750	1	Pipe, Injection	14	185-6899	1	Cord, Glow Plug
8	185-6751	1	Pipe, Injection	15	185-5615	3	Nut, Flange
9	185-6621	1	Pipe, Injection	16	185-5607	1	Assy. Pipe Overflow
				17	181-9055	1	Pipe, Fuel Overflow
				18	185-5608	2	Clip, Pipe

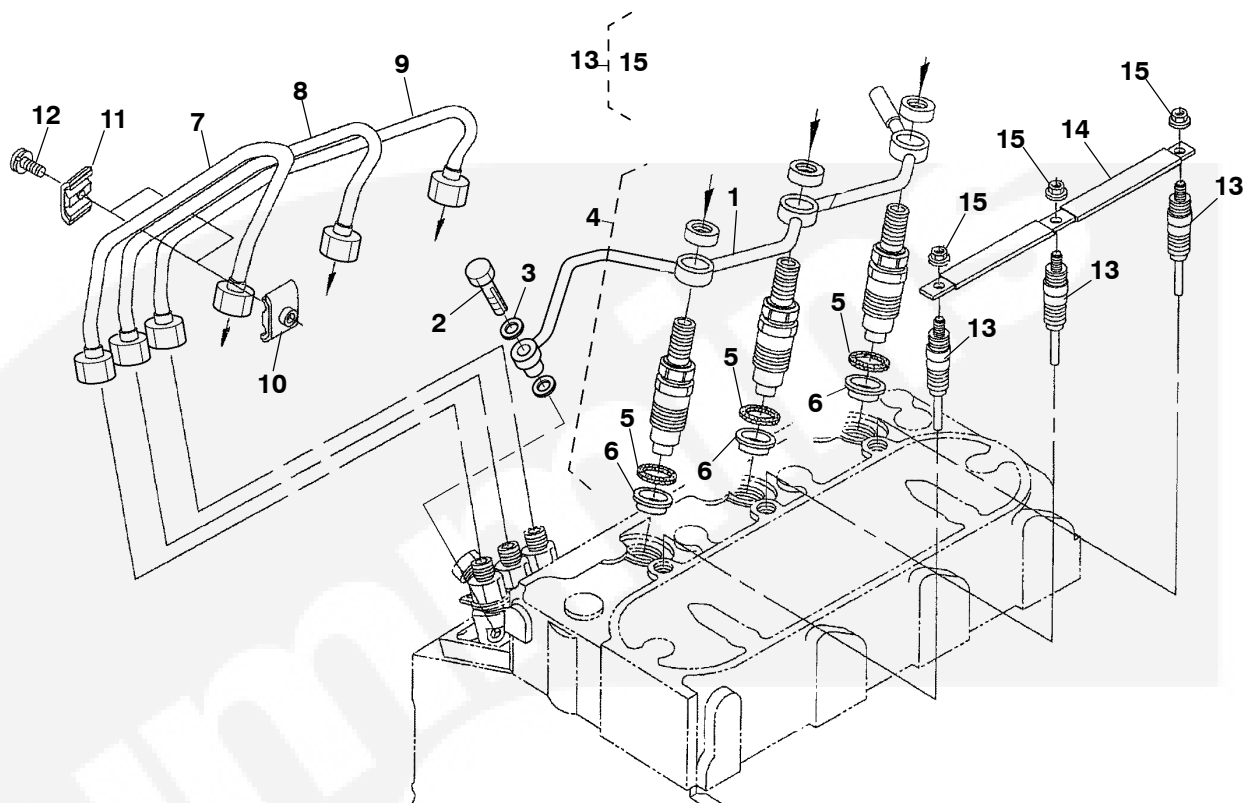
Nozzle Holder Components (Spec A-D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6740	3	Holder Assy, Nozzle (Includes Parts Marked *)	4	185-6900	3	*Nut
2	185-6908	3	*Washer Assy, Adjust (Includes Adjusting Washers)	5	185-6906	3	*Washer, Plain
3			Washer, Adjusting	6	185-6901	3	*Washer, Adjusting
	185-6909	3	.10mm	7	185-6902	3	*Spring, Nozzle
	185-6910	3	.20mm	8	185-6904	3	*Rod, Push
	185-6911	3	.30mm	9	185-6903	3	*Piece, Distance
	185-6912	3	.40mm	10	185-6907	3	*Piece, Nozzle
	185-6913	3	.50mm	11	185-6905	3	*Nut, Nozzle
	185-6914	3	.52mm				
	185-6915	3	.54mm				
	185-6916	3	.56mm				
	185-6917	3	.58mm				
	185-6918	3	.80mm				

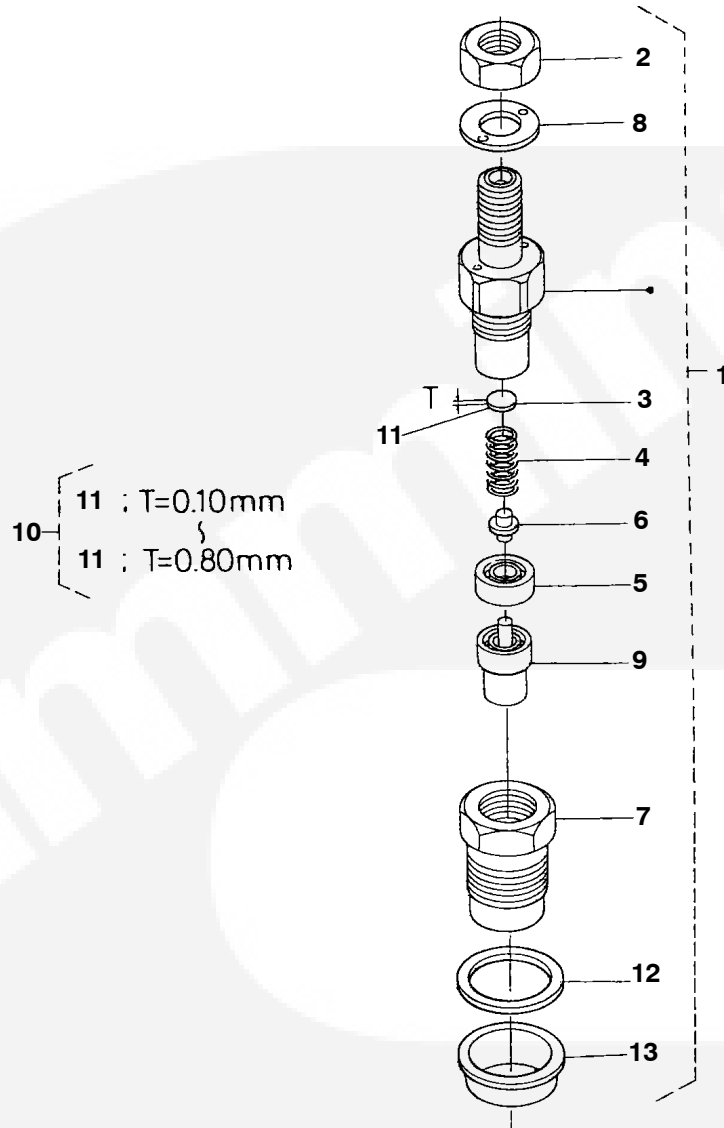
* - Parts Included in Nozzle Holder Assy.

Nozzle Holder and Glow Plug (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7106	1	Assy. Pipe, Overflow	9	185-6621	1	Pipe, Injection
2	185-7082	1	Screw, Air Bleeder	10	185-5612	2	Clamp, Pipe
3	185-2284	2	Gasket	11	185-2345	2	Clamp, Pipe
4	147-0978	3	Assy. Holder, Nozzle (See Separate Page for Components)	12	185-2385	2	Screw, with Washer
5	185-5337	3	Gasket	13	333-0802	3	Plug, Glow 12V
6	185-5985	3	Seal, Heat		185-7268	3	24V
7	185-6750	1	Pipe, Injection	14	185-6899	1	Cord, Glow Plug
8	185-6751	1	Pipe, Injection	15	185-5615	3	Nut, Flange

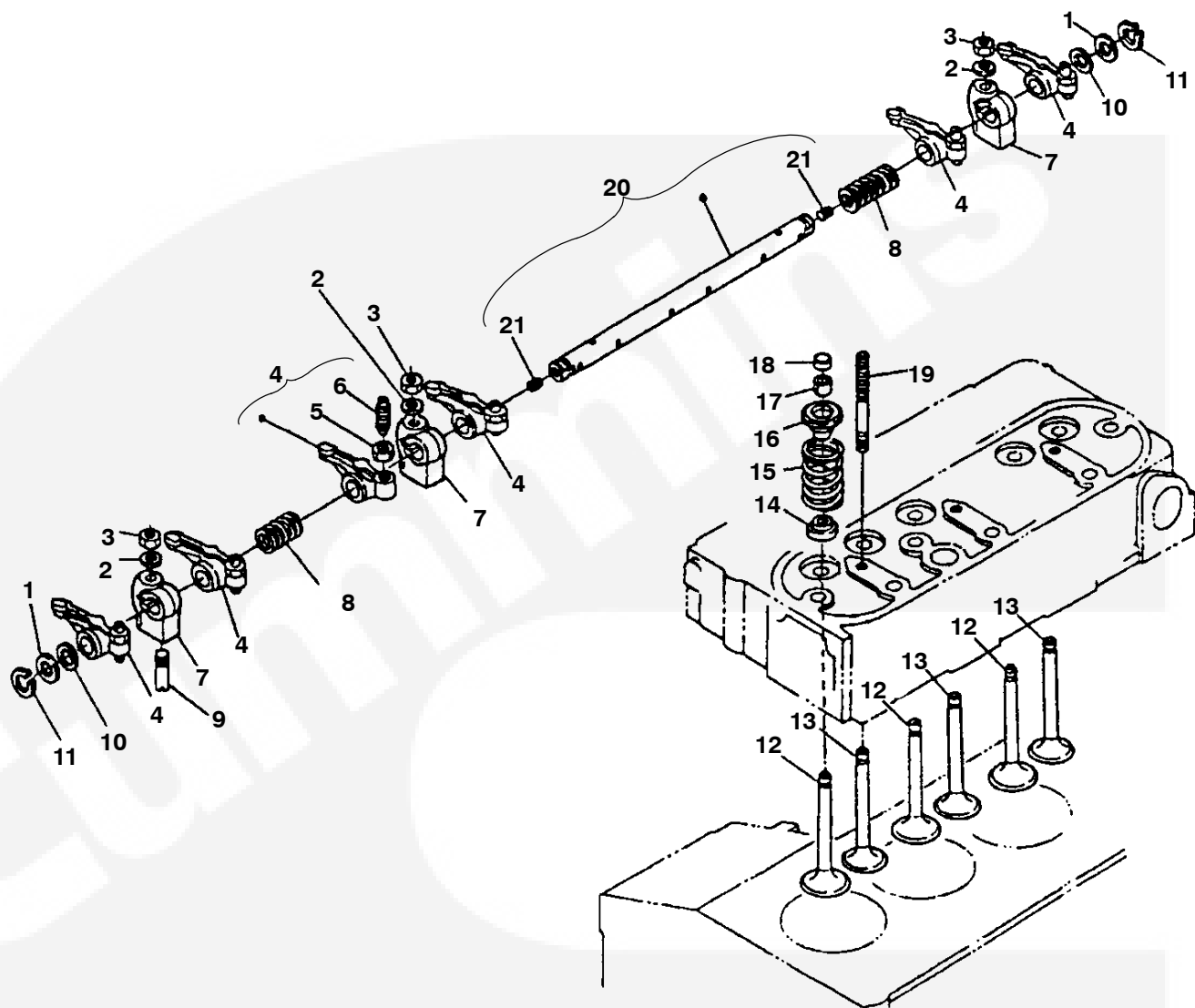
Nozzle Holder Components (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		3	Holder Assy, Nozzle (Includes Parts Marked *)	11			Washer, Adjusting
2	185-6900	3	Nut	185-6909	3		.10mm
3	185-6901	3	Washer Assy, Adjust (Includes Adjusting Washers)	185-6910	3		.20mm
4	185-6902	3	Spring, Nozzle	185-6911	3		.30mm
5	185-6903	3	Spacer, Distance	185-6912	3		.40mm
6	185-6904	3	Rod, Push	185-6913	3		.50mm
7	185-6905	3	Nut, Nozzle	185-6914	3		.52mm
8	185-6906	3	Washer, Plain	185-6915	3		.54mm
9	147-0974	3	Piece, Nozzle	185-6916	3		.56mm
10	185-6908	3	Washer Assy, Adjust (Includes Adjusting Washers)	185-6917	3		.58mm
				185-6918	3		.80mm
				12	185-5337	3	Gasket
				13	185-5985	3	Seal, Heat

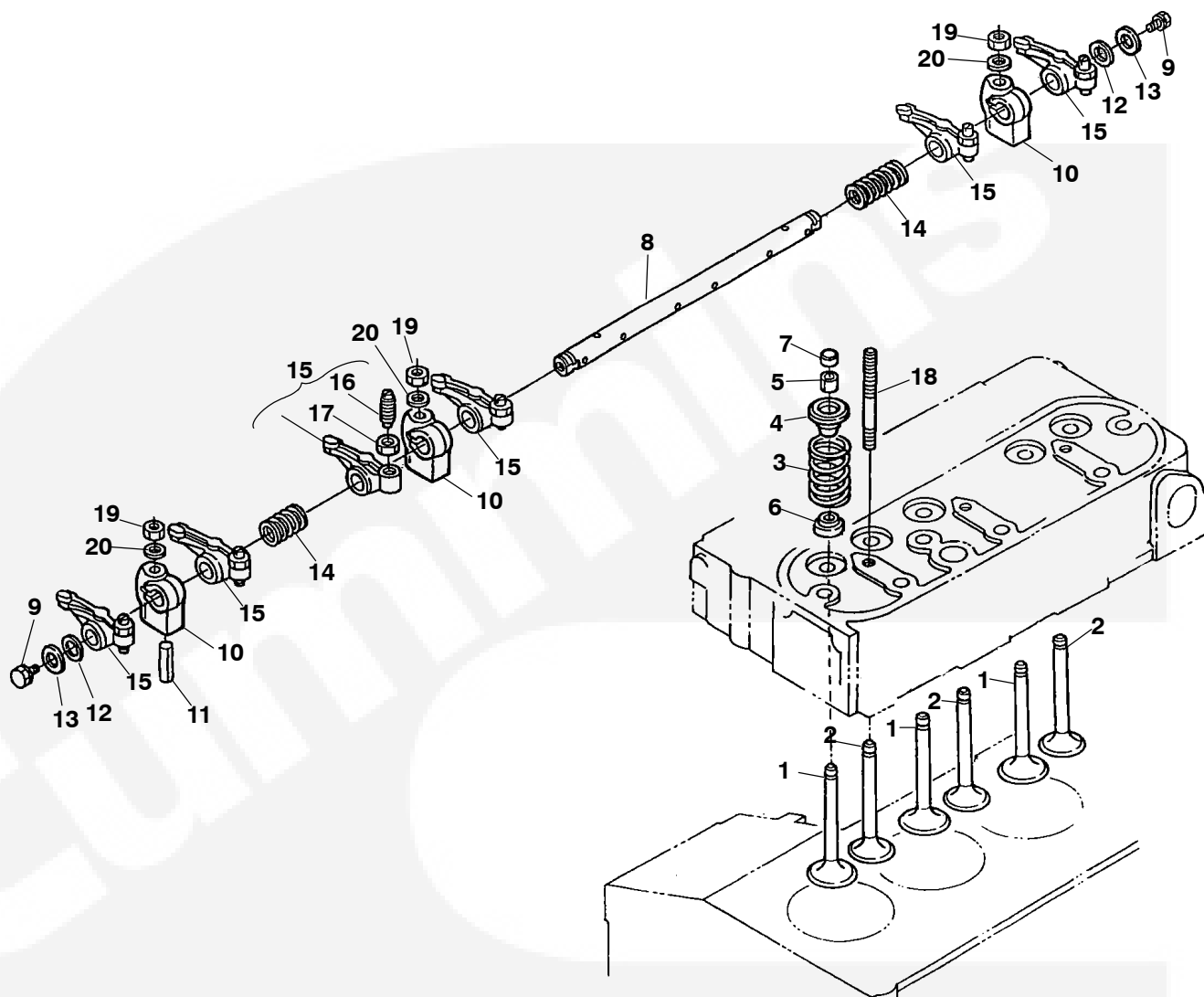
* - Parts Included in Nozzle Holder Assy.

Valve and Rocker Arm (Spec A)



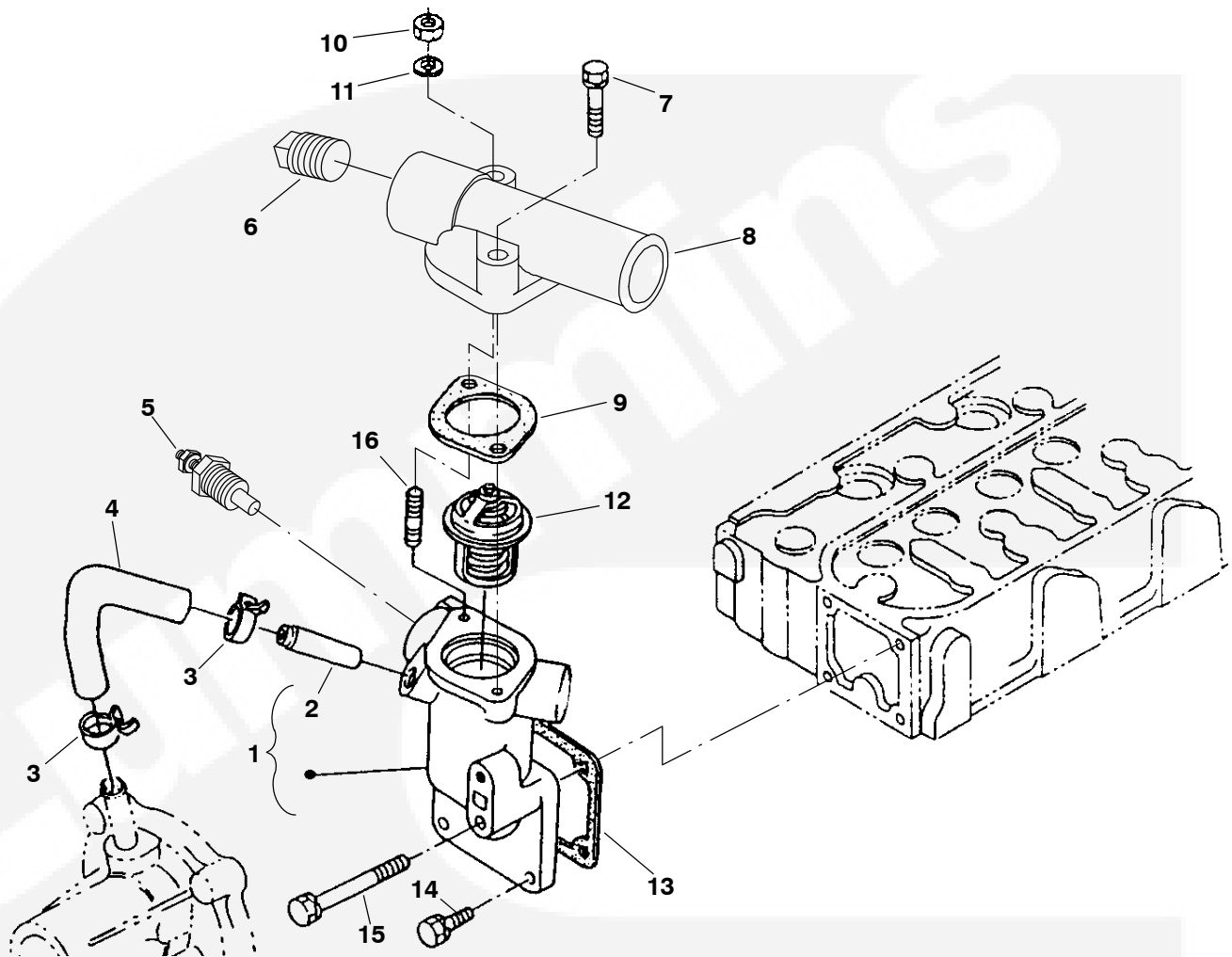
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6690	2	Washer, Rocker Arm Shaft	12	185-6681	3	Valve, Inlet
2	185-2184	3	Washer, Plain	13	185-6682	3	Valve, Exhaust
3	185-2179	3	Nut	14	185-7300	6	Seal, Valve Stem
4	185-6693	6	Arm Assy, Rocker (Includes Screw and Nut)	15	185-6683	6	Spring, Valve
5	185-6695	6	Nut	16	185-2076	6	Retainer, Valve Spring
6	185-6694	6	Screw, Adjusting	17	110-3827	6	Collet, Valve Spring
7	185-6687	3	Bracket, Rocker Arm	18	185-2080	6	Cap, Valve
8	185-6691	2	Spring, Rocker Arm	19	185-6688	3	Stud
9	185-2072	3	Screw, Rocker Arm Set	20	185-6923	1	Shaft Assy, Rocker Arm (Includes Screws)
10	185-6689	2	Washer, Rocker Arm Shaft	21	185-6686	2	Screw, Set
11	185-6692	2	Circlip, External				

Valve and Rocker Arm (Begin Spec B-E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6681	3	Valve, Inlet	9	185-7440	2	Bolt
	110-4021	3	Spec B-D	10	185-6687	3	Bracket, Rocker Arm
			Begin Spec E	11	185-7441	1	Pin, Spring
2	185-6682	3	Valve, Exhaust	12	185-6689	2	Washer, Rocker Arm Shaft
	110-4022	3	Spec B-D	13	185-7395	2	Washer, Plain
			Begin Spec E	14	185-6691	2	Spring, Rocker Arm
3	185-6683	6	Spring, Valve	15	185-6693	6	Arm Assy, Rocker (Includes
4	185-2076	6	Retainer, Spring				Screw and Nut)
5			Collet, Valve Spring	16	185-6694	6	Screw, Adjusting
	110-3827	6	Spec B-E	17	185-6695	6	Nut
6	185-7300	6	Seal, Valve Stem	18	185-6688	3	Stud
7			Cap, Valve	19	185-2179	3	Nut
	185-2080	6	Spec B-E	20	185-2184	3	Washer, Plain
8	185-7439	1	Shaft, Rocker Arm				

Water Flange (Spec A-D)

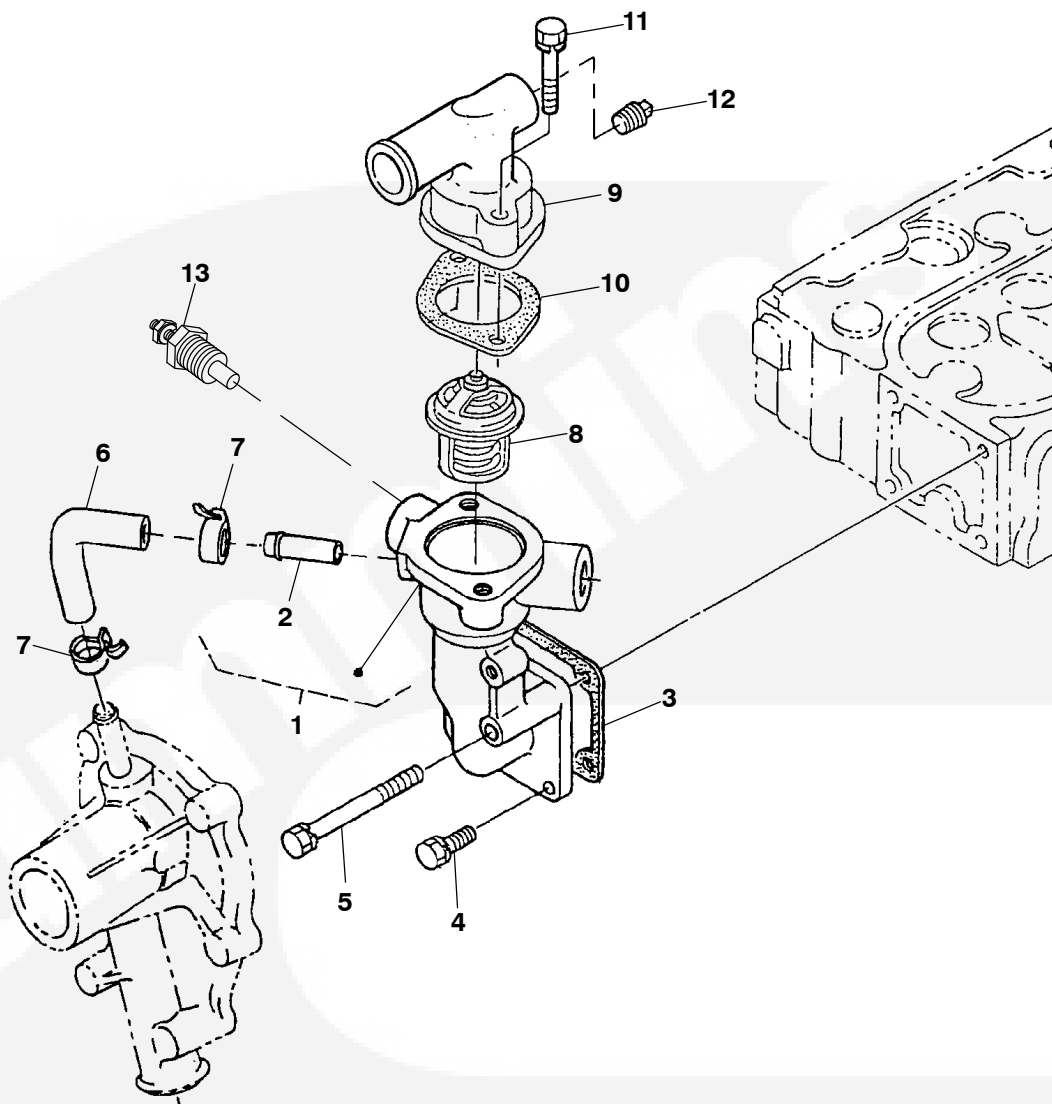


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			*Kit, Sender (Includes Water Temperature Sender)	9			Gasket, Thermostat Spec A-B
	300-5040	1	Negative Ground	10	185-6004	1	Nut
	300-5041	1	Isolated Ground	11	185-4255	1	Washer, Spring
1	185-7297	1	Flange, Water (Includes Water Return Pipe)	12	185-2380	1	Thermostat
2	185-6666	1	Pipe, Water Return	13	185-6005	1	Gasket, Water Flange
3	185-6667	2	Band, Pipe	14	185-6922	1	Bolt
4	185-6445	1	Pipe, Water Return	15	185-2388	3	Bolt
5			Sender, Water Temperature(E2)	16	185-6665	1	Bolt
	193-0318	1	Negative Ground (B200, B201)		185-6670	1	Stud
	193-0457-01	1	12V Isolated Ground (B380)				
6	185-5826	1	Plug				
7	185-2365	2	Bolt				
8	185-7298	1	Cover, Thermostat				

* - Kit Also Includes Oil Pressure Sender Listed on Oil System Page.

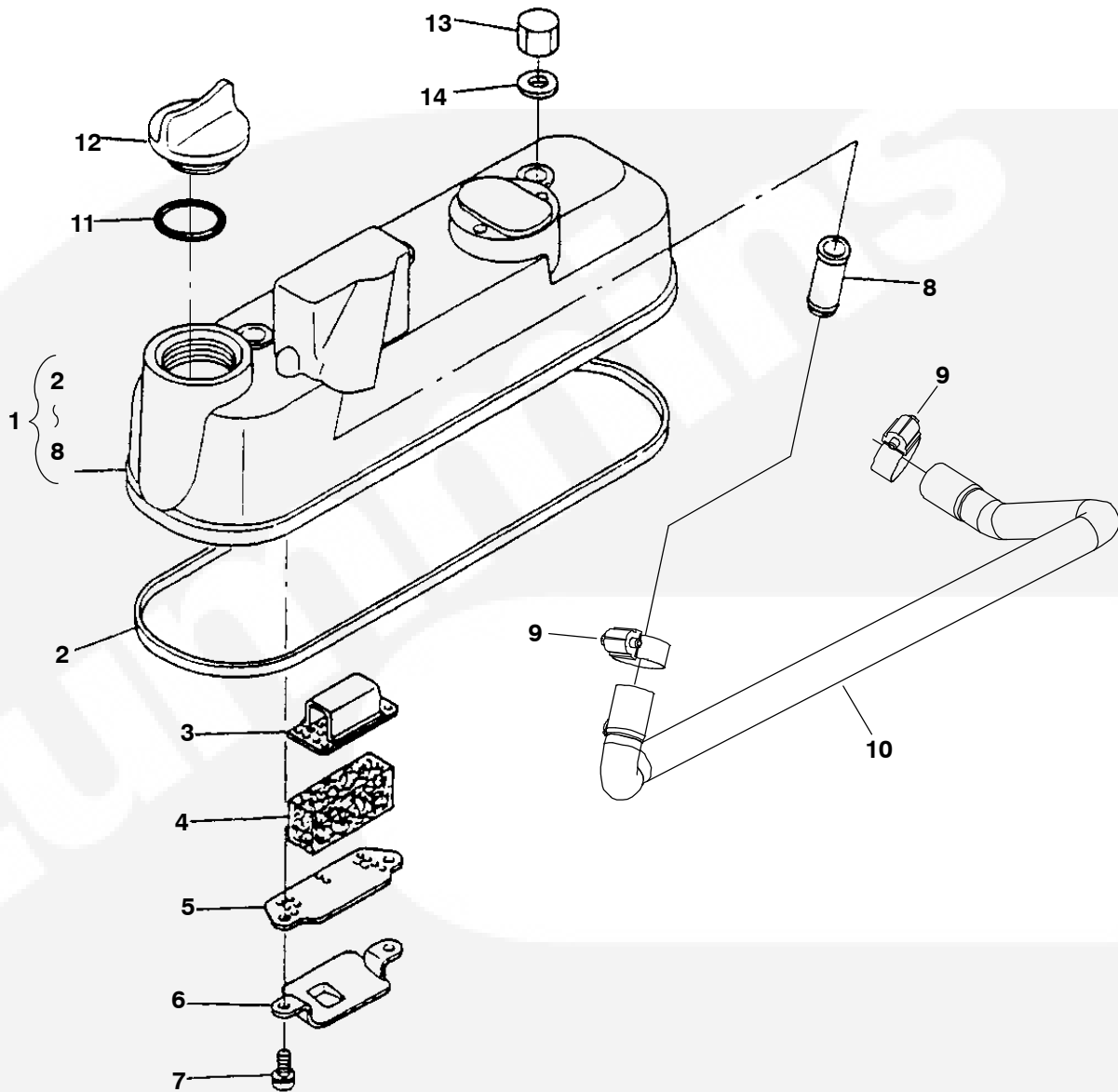
+ - Switch Included in Isolated Ground Kit Listed on Isolated Ground Page.

Water Flange (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7297	1	Flange, Water (Includes Water Return Pipe)	10	185-6004	1	Gasket, Thermostat
2	185-5719	1	Pipe, Water Return	11	185-2565	2	Bolt
3	185-6922	1	Gasket, Water Flange	12	19071-9602-0	1	Plug
4	185-2389	3	Bolt	13			Sender, Water Temperature(E2)
5	185-6665	1	Bolt		193-0318	1	Negative Ground (B200, B201)
6	185-6666		Pipe, Water Return		193-0457-01	1	12V Isolated Ground (B380)
7	185-6667	2	Clamp, Hose				
8	185-6005	1	Thermostat				
9	185-7298	1	Cover, Thermostat				

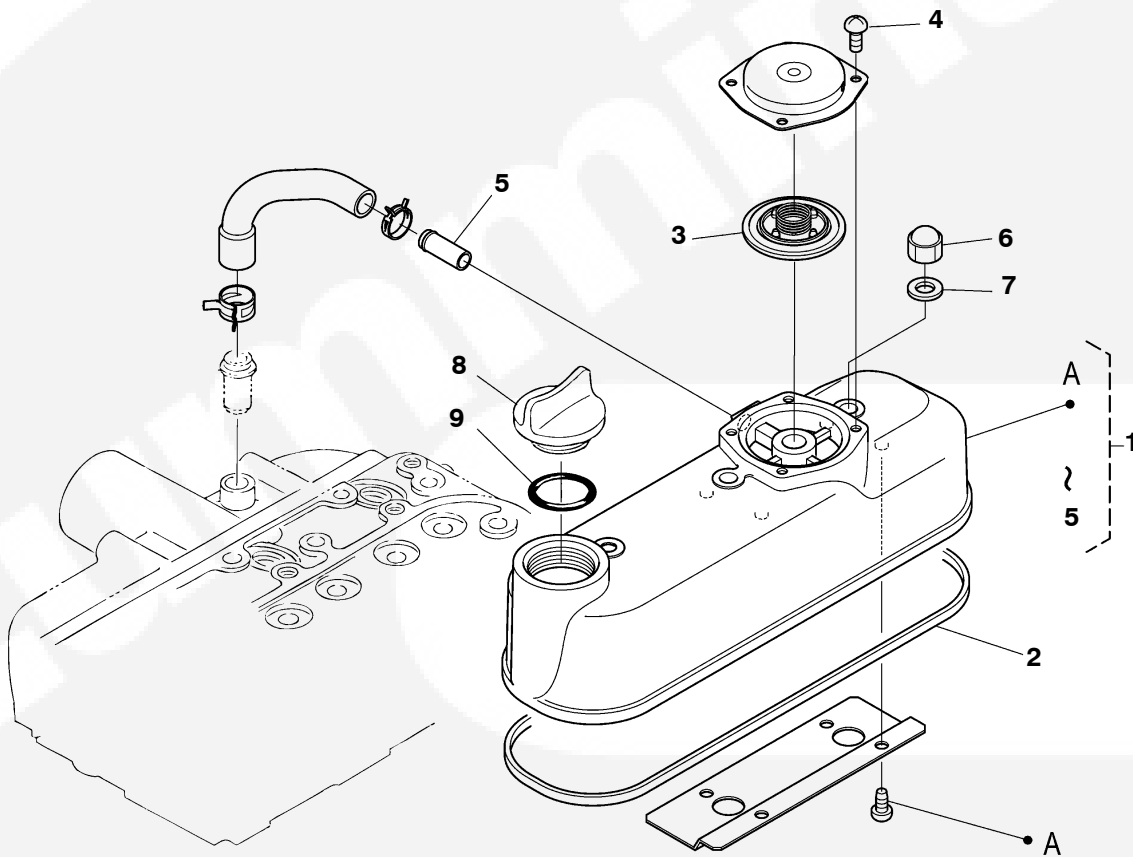
Cylinder Head Cover (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-6867	1	Cover Assy, Cylinder Head (Includes Parts Marked *)	9	503-0976	2	Clamp, Hose
2	185-6868	1	*Gasket, Cylinder Head Cover	10	503-2070	1	Hose, Breather
3	185-6501	1	*Plate, Upper Breather Element	11	185-2349	1	O'Ring
4	185-6721	1	*Element, Breather	12	185-5407	1	Cover, Oil Fill
5	185-6500	1	*Plate, Lower Breather Element	13	185-6394	3	Nut, Cap
6	185-6503	1	*Shield, Breather Oil	14	185-2291	3	Gasket
7	185-2384	2	*Screw, Washer Head				
8	185-6499	1	*Joint, Breather Pipe				

* - Parts Included in Cylinder Head Cover Assy.

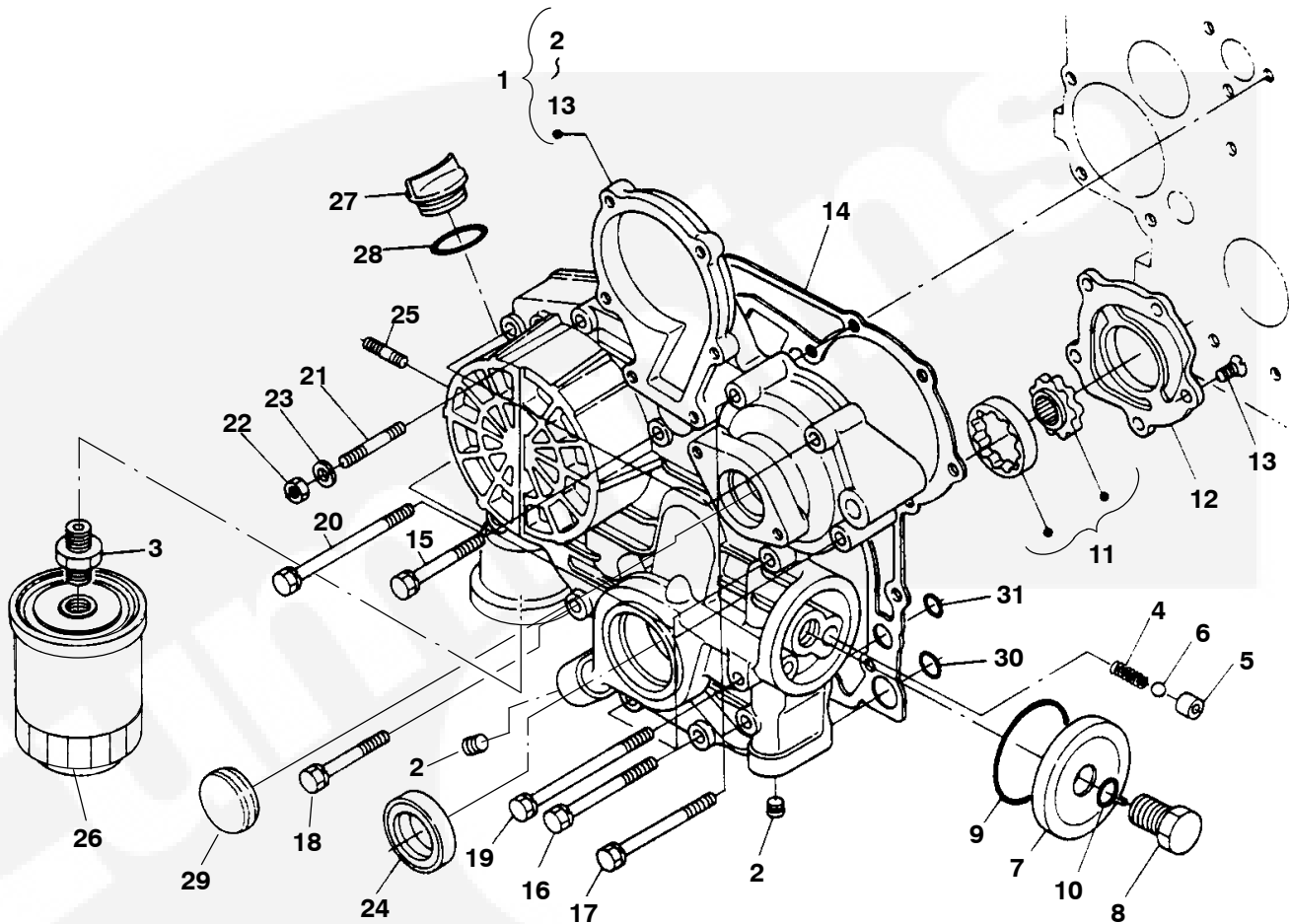
Cylinder Head Cover (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover Assy, Cylinder Head (Includes Parts Marked *)	5	185-6103	1	*Pipe, Water Return
	134-5384	1	Begin Spec E	6	185-6394	3	*Nut
2	185-6868	1	*Gasket, Cylinder Head Cover	7	185-2291	3	Gasket
3	123-2264	1	*Comp., Valve Breather	8		1	Plug, Oil Filler
4			*Screw, Pan Head		181-9000	1	Begin Spec B-E
	185-3041	1	Spec B-D	9	185-7426	1	O'Ring
	185-2384	1	Begin Spec E				

* - Parts Included in Cylinder Head Cover Assy.

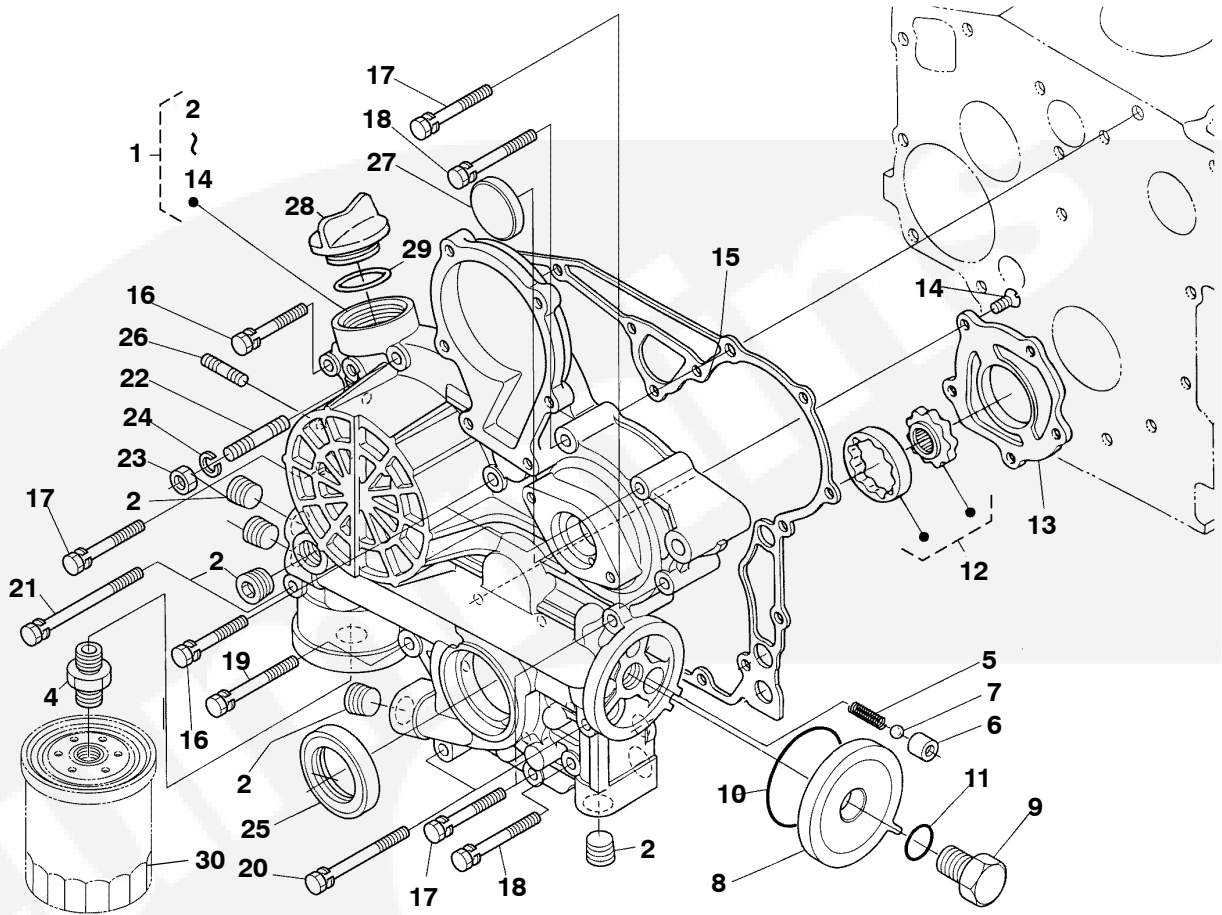
Gearcase (Spec A-D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Gearcase Assy (Includes Parts Marked *)	21			Stud
	185-6480	1	Spec A		185-6493	1	Spec A
2	185-6481	5	*Plug		185-7423	1	Begin Spec B
3	185-2124	1	*Fitting, Connector	22	185-4255	1	Nut
4	185-6482	1	*Spring	23	185-6759	1	Washer, Spring
5	185-6483	1	*Seat, Valve	24	185-6864	1	Seal, Oil
6	185-6484	1	*Ball	25			Stud
7	185-5741	1	*Cover		185-2359	2	Spec A
8	185-5742	1	*Bolt		185-7434	2	Begin Spec B
9	185-5743	1	*O'Ring	26	185-5835	1	Filter, Oil
10	185-5869	1	*O'Ring	27			Cover, Oil Fill
11	185-6485	1	*Rotor, Oil Pump		185-5407	1	Spec A
12	185-6486	1	*Cover, Oil Pump		123-2299	1	Begin Spec B
13	185-6487	5	*Screw, Countersunk Head	28	185-2349	1	O'Ring
14	185-6863	1	Gasket, Gearcase	29	185-6865	1	Plug
15	185-5833	3	Bolt	30	185-5869	2	O'Ring
16	185-7069	4	Bolt	31	185-3080	2	O'Ring
17	185-6665	2	Bolt				
18	185-6490	1	Bolt				
19	185-6491	2	Bolt				
20	185-6492	1	Bolt				

* - Parts Included in Gearcase Assy.

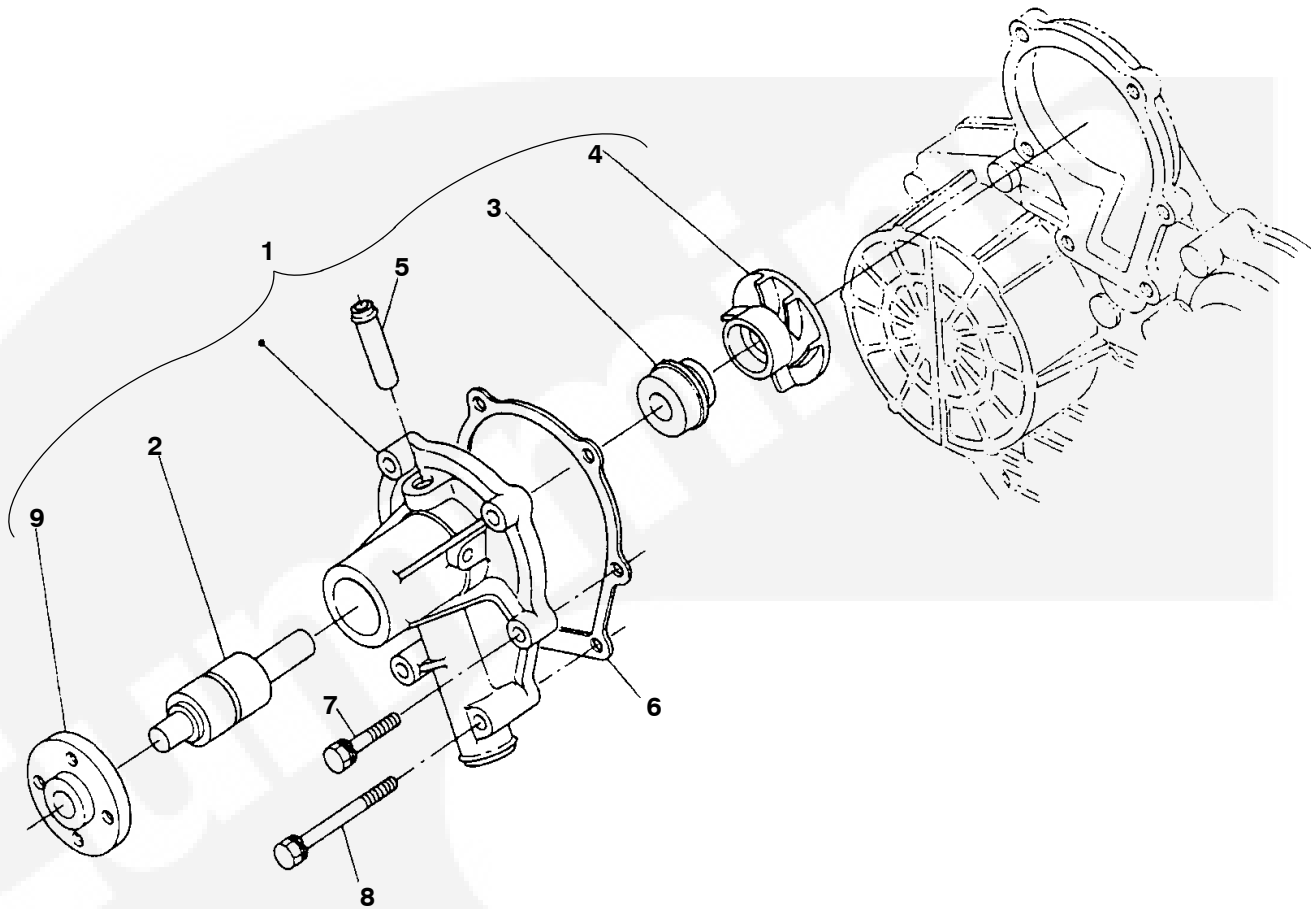
Gearcase (Begin Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	103-0858	1	Gearcase Assy (Includes Parts Marked *)	17	185-7069	4	Bolt
2	185-6481	4	*Plug	18	185-6489	2	Bolt
3	505-2252	1	*Plug	19	185-6490	1	Bolt
4	185-2124	1	*Joint, Pipe	20	185-6491	2	Bolt
5	185-6482	1	*Spring	21	185-6492	1	Bolt
6	185-6483	1	*Seat, Valve	22	185-7423	1	Stud
7	185-6484	1	*Ball	23	181-9013	1	Nut
8	185-5741	1	*Cover	24	185-6759	1	Washer, Spring
9	185-5742	1	*Bolt	25	185-6864	1	Seal, Oil
10	185-5743	1	*O'Ring	26	185-7434	2	Stud
11	185-5744	1	*O'Ring	27	181-9125	1	Cover, Gear Case
12	185-6485	1	*Assy, Oil Pump Rotor	28	181-9000	1	Plug, Oil Filler
13	185-6486	1	*Cover, Oil Pump	29	185-7426	1	O'Ring
14	185-6487	5	*Screw, Counter Sunk	30	185-5835	1	Filter, Oil
15	185-6863	1	Gasket, Gear Case				
16	185-5833	3	Bolt				

* - Parts Included in Gearcase Assy.

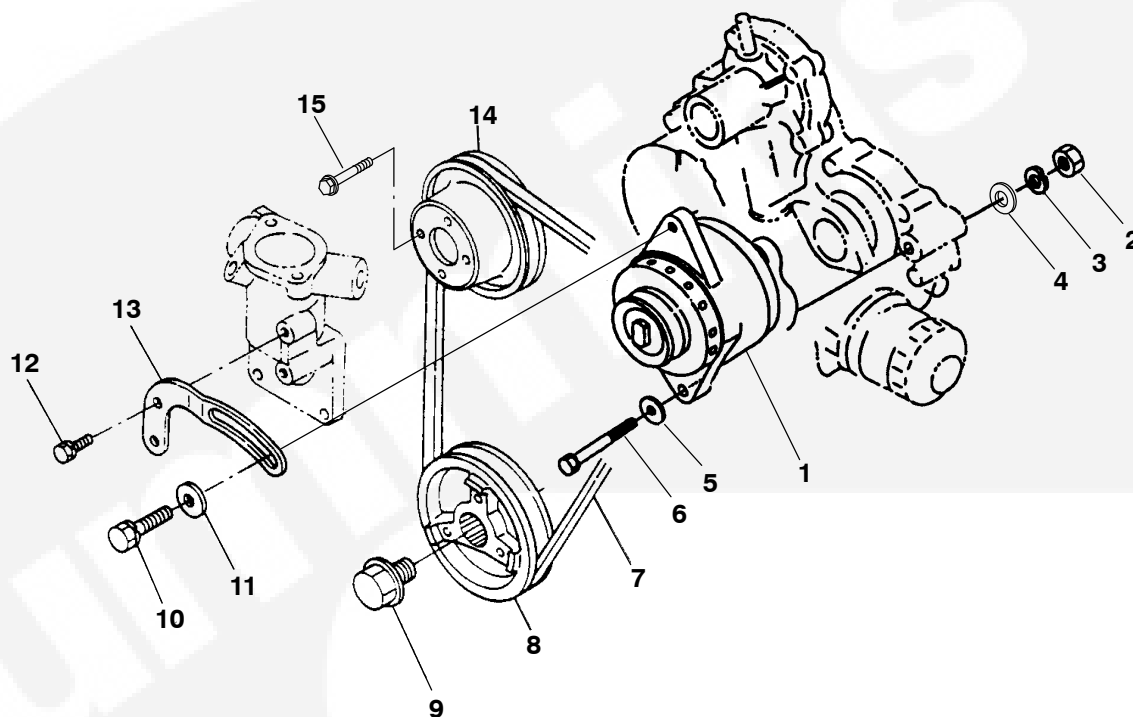
Captive Water Pump Components



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump Assy, Water (Includes Parts Marked *)	7	185-6677	4	Bolt
	185-6671	1	Spec A	8			Screw, Hex Head
	181-9108	1	Begin Spec B-E		185-5745	2	Spec A
2			*Bearing		181-9007	2	Begin Spec B-E
	185-6673	1	Spec A	9	185-6672	1	*Flange, Pump Water
	510-0225	1	Begin Spec B-E				
3			*Seal Assy, Mechanical				
	185-5714	1	Spec A				
	509-0440	1	Begin Spec B-E				
4			*Impeller, Water Pump				
	185-6674	1	Spec A-E				
5			*Pipe, Water Return				
	185-5719	1	Spec A				
	185-5716	1	Begin Spec B-E				
6	185-7299	1	Gasket, Water Pump				

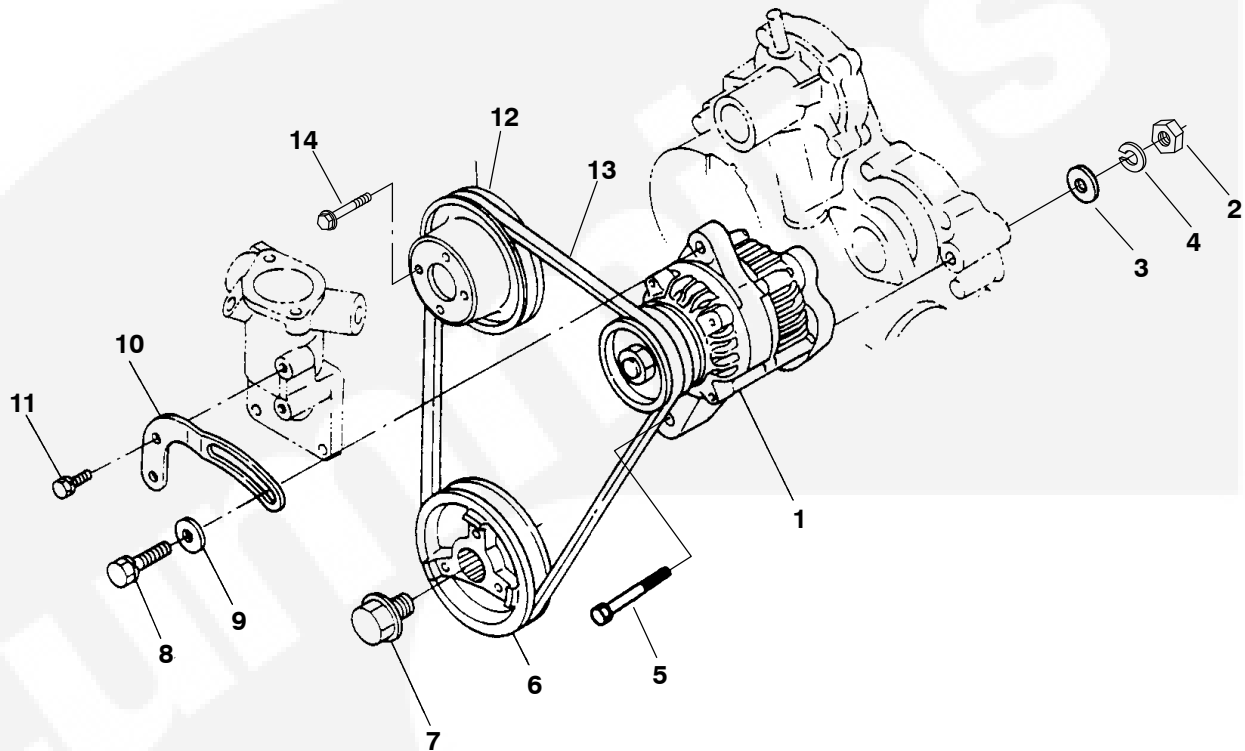
* - Parts Included in Water Pump Assy.

Alternator (Spec A-E) **12V Negative/Isolated Ground**



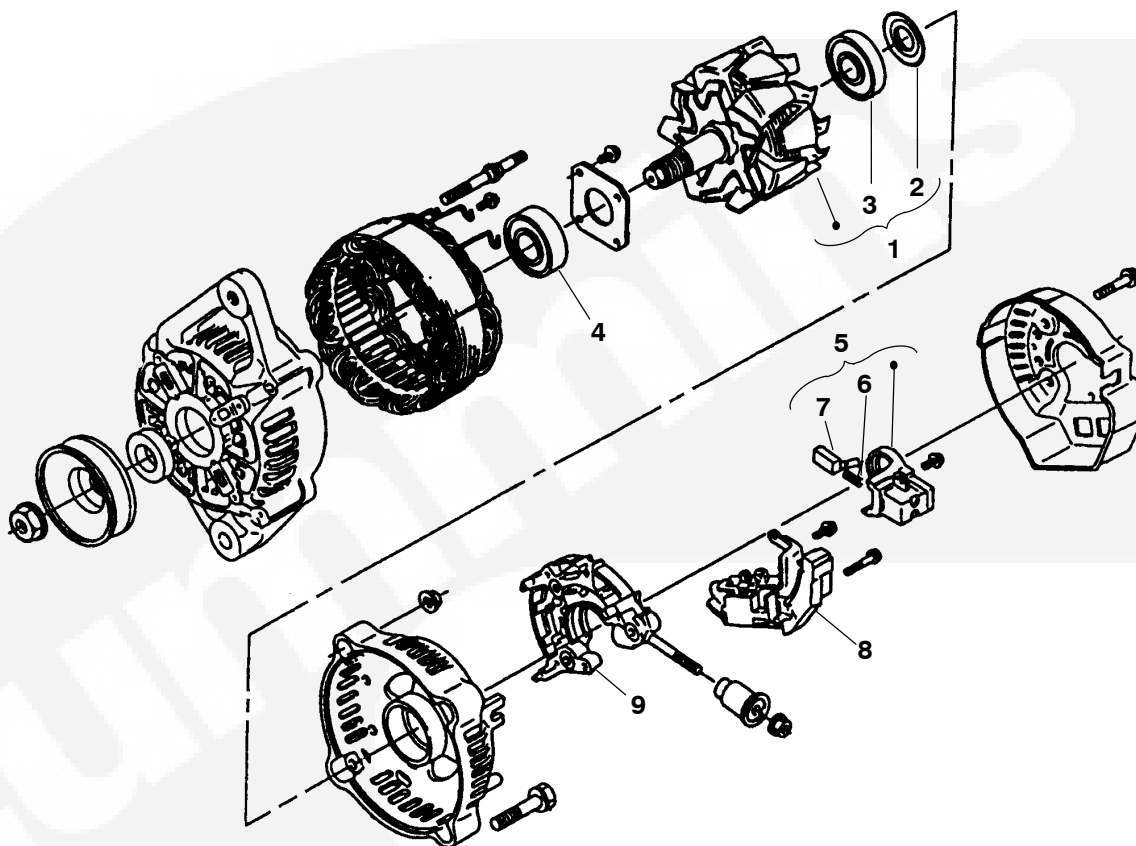
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7269	1	Dynamo (No Components Available)	10			Bolt
2	185-5445	1	Nut	185-2564	1		Spec A
3	185-6785	1	Washer, Spring	800-6345	1		Begin Spec B-E
4	185-6630	1	Washer, Plain	11	185-6786	2	Washer, Plain (Spec A-D)
5	185-7272	1	Washer, Plain	12			Bolt
6	185-7271	1	Bolt	185-2388	2		Spec A
7	185-6934	1	Belt, Fan (37.5")	185-2389	2		Begin Spec B-E
8			Pulley, Fan Drive	13			Bracket Alternator
	185-6933	1	Spec A	185-7270	1		Spec A
	512-0323	1	Begin Spec B-E	14	185-6631	1	Pulley, Fan
9	185-6633	1	Bolt	15	185-2572	4	Bolt

Alternator (Spec A-E) 24V Negative Ground



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator (See Separate Page for Components)	185-2564	1		Spec A
	185-7225	1	Spec A	800-6345	1		Spec B-D
2	185-5445	1	Nut	181-9008	1		Begin Spec E
3	185-6630	1	Washer, Plain	9	185-6786	1	Washer, Plain (A-D)
4	185-6785	1	Washer, Spring	10		1	Bracket Alternator
5			Bolt	185-7226	1		Spec A-D
	185-7227	1	Spec A	191-2499	1		Begin Spec E
	185-6629	1	Begin Spec B-E	11	185-2388	2	Bolt
6			Pulley, Fan Drive	12	185-6631	1	Pulley, Fan
	185-6933	1	Spec A	13	185-6934	1	Belt, Fan (37.5")
	512-0323	1	Begin Spec B-E	14	800-6393	4	Bolt
7	185-6633	1	Bolt				
8			Bolt				

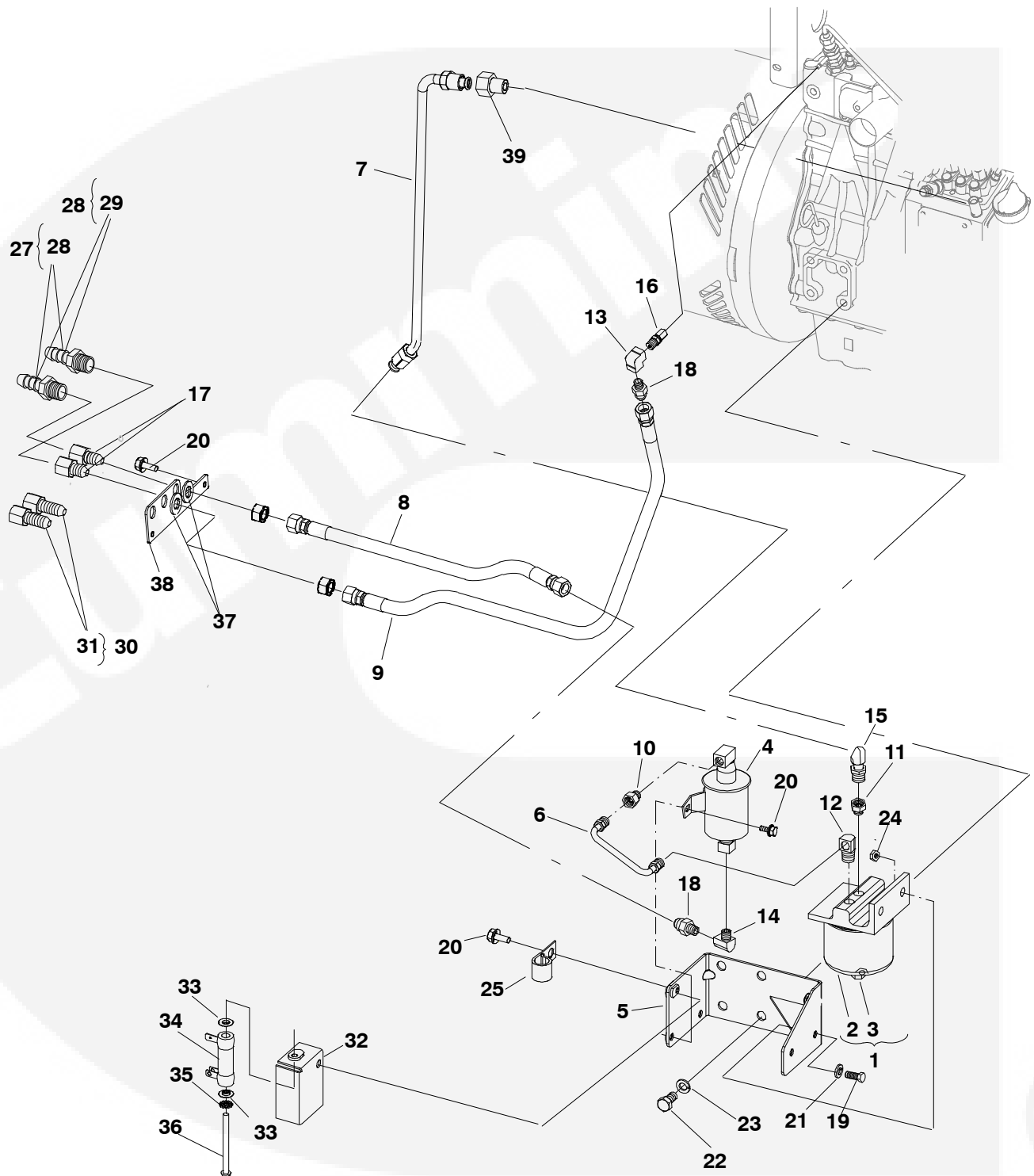
Alternator Components 24V Negative Ground



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7225	1	Alternator Spec A	185-5777	1	Spec A	
			Rotor (Includes Cover and Bearing)	185-6813	1	Begin Spec B-E	
	185-7228	1	Spec A	5	185-6819	1	Holder, Brush (Includes Brush and Spring)
	201-3675	1	Begin Spec E	6	185-5784	2	Spring, Brush
2	185-5771	1	Cover, Bearing	7	185-5783	2	Brush
3			Bearing, Ball	8	185-6820	1	Regulator
	185-7229	1	Spec A	9	185-6816	1	Rectifier Assy
	185-6811	1	Begin Spec B-E				
4			Bearing, Ball				

Note: Parts not Identified are Not For Sale.

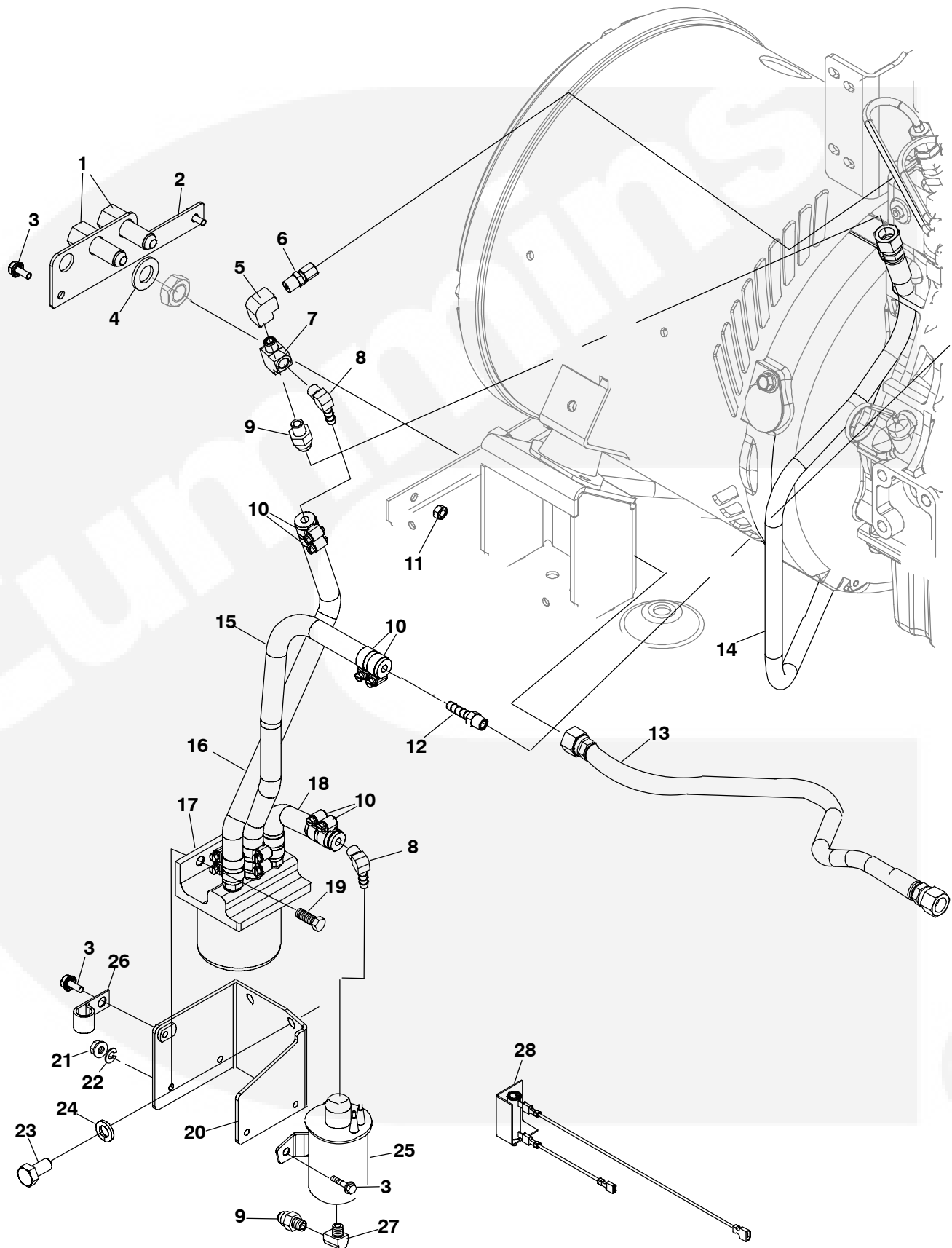
Fuel Pump (Spec A)



Fuel Pump (Spec A)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	149-2100	1	Filter Assy, Fuel (Includes Element, Plug, and Base)	23	850-0114-55	3	(M10 x 1.25 x 20mm) Washer, Lock (M10)
2	A026K278	1	Element	24	862-0026-55	2	Nut, Hex (M8)
3	502-0028	1	Plug, Drain	25	518-0515	1	Clip, Hose
4	149-2331-01	1	Pump, Fuel (E5)	26	149-2655	1	Kit, Fuel Adapter (Includes Barbed Hose Connector)
5	149-2618-04	1	Bracket, Mounting	27	502-1162	2	Connector, Barbed Hose (1/4-18 x 3/8")
6	149-2601	1	Line, Fuel (.25")	28	149-2654	1	Kit, Fuel Adapter (Includes Barbed Hose Connector)
7	501-0709	1	Line, Fuel Assy	29	502-1218	2	Connector, Barbed Hose (1/4-18 x 5/16")
8	501-0672-01	1	Line, Fuel (28.5")	30	149-2612	1	Kit, Adapter Fitting (Includes Metric Adapters)
9	501-0672-02	1	Line, Fuel (38.5")	31	505-1485	2	Adapter, Metric NPT
10	502-0003	2	Connector, Inverted Male	32	304-0831-03	1	Bracket, Resistor (24V)
11	502-0029	1	Bushing, Reducer	33	304-0796	2	Washer, Centering (24V)
12	502-0041	1	Elbow, Male	34	304-0797	1	Resistor (24V)
13	502-0055	1	Elbow, Pipe	35	856-0003	1	Washer, EIT (#10)(24V)
14	502-0020-01	1	Elbow, 90° Street	36	813-0112	1	Screw, Round Head Machine (#10-32 x 2.5")(24V)
15	502-0065	1	Elbow, Inverted Male	37	526-0406	2	Washer, Flat (M14)
16	502-1245	1	Adapter, Pipe	38	149-2609-02	1	Bulkhead, Fuel Connection
17	505-1489	2	Connector, Female Bulkhead	39	502-0003	1	Connector, Inverted Male
18	505-1490	2	Connector, Male				
19	800-3017-19	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)				
20	821-6002-02	5	Screw, Hex Head Sems (M6 x 12mm)				
21	850-0114-54	2	Washer, Lock (M8)				
22	800-3030	3	Screw, Hex Head Cap				

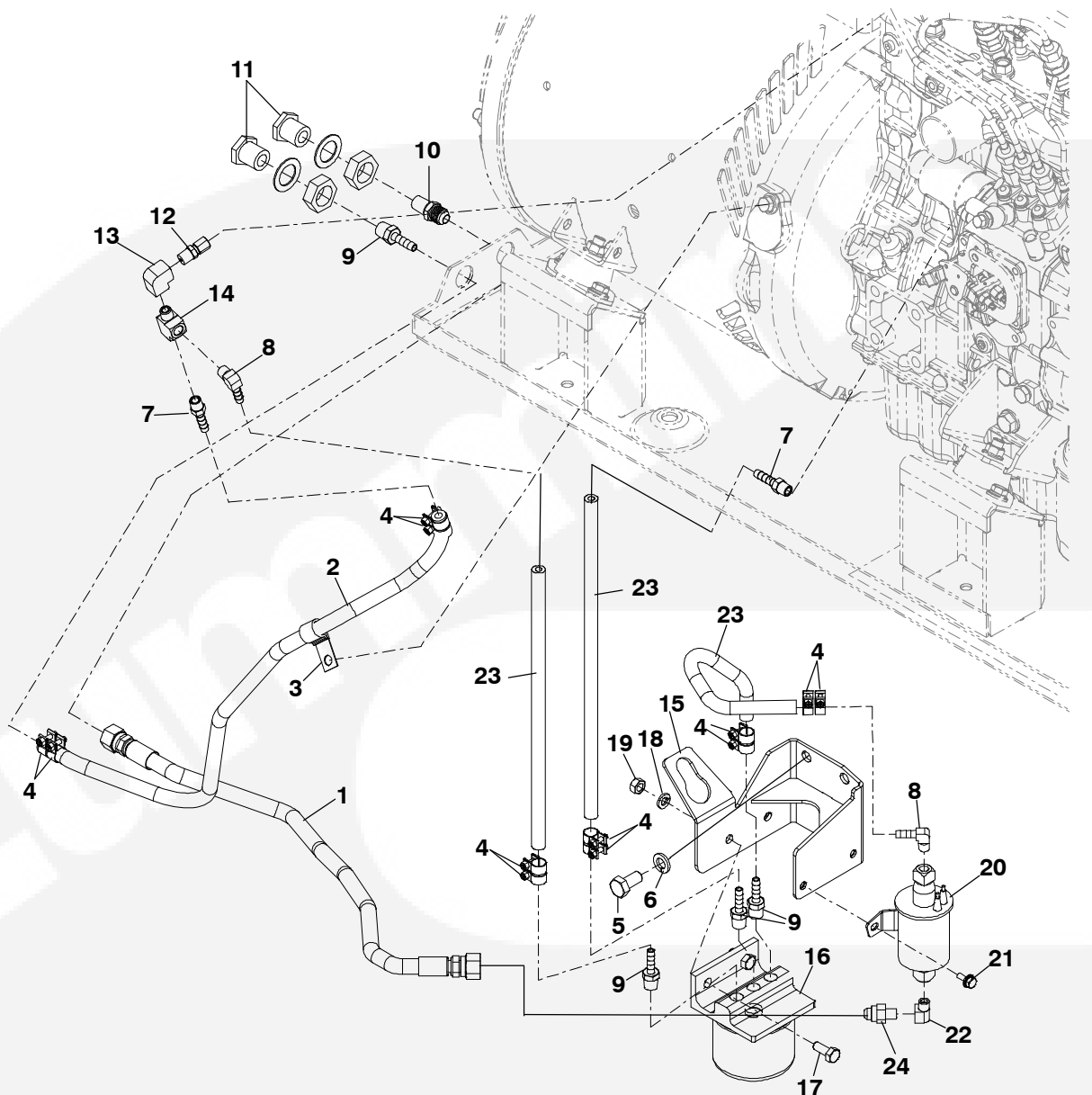
Fuel Pump (Spec C)



Fuel Pump (Spec C)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	505-1489	2	Connector, Bulkhead	16	503-2200-07	1	Hose, Fuel
2	149-2609-02	1	Bulkhead, Fuel Connector	17	149-2634-01	1	Assy Filter, Fuel (Includes Parts Marked *)
3	821-6002-02	5	Screw, Hex Head Sems (M6 x 12mm)	18	503-2200-09	1	*Hose, Fuel
4	526-0406	2	Washer, Flat (M14)	19	800-3017-19	2	*Screw, Hex Head Cap (M8 x 1.25 x 20mm)
5	502-0055	1	Elbow, Pipe	20	149-2761-03	1	*Bracket, Fuel Pump
6	502-1245	1	Adapter, Pipe	21	862-0026-55	2	*Nut, Hex (M8)
7	502-1368	1	Tee, Street	22	850-0114-54	2	*Washer, Lock (M8)
8	502-1353-02	2	Elbow, 90° Street	23	800-3030	3	Screw, Hex Head Sems (M10 x 1.25 x 20mm)
9	505-1490	2	*Connector, Male	24	850-0114-55	3	Washer, Lock (M10)
10	503-2309	12	Clamp, Hose	25	149-2646	1	*Pump, Fuel
11	862-0026-54	2	Nut, Hex (M6)	26	518-0515	1	Clip
12	502-1367-01	1	Connector, Hose	27	502-0020-01	1	*Elbow, Street
13	503-2588-01	1	Hose, Fuel	28	304-0832	1	Resistor (24V Gnd)
14	503-2588-02	1	Hose, Fuel				
15	503-2200-08	1	Hose, Fuel				

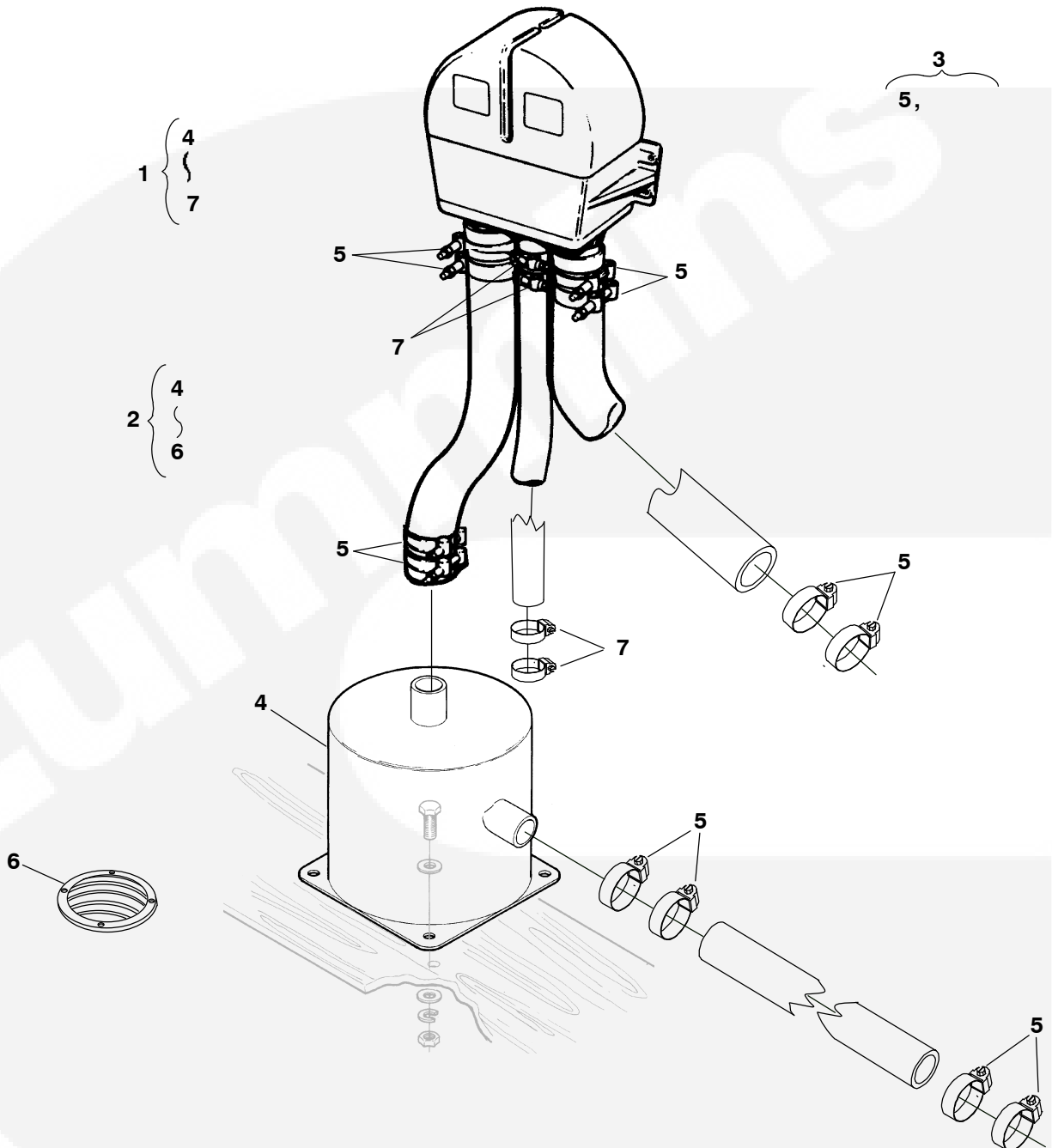
Fuel Pump (Begin Spec D)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	503-2588-01	1	Hose, Fuel
2	503-2935-01	1	Hose, Fuel
3	518-0515	1	Clamp, Hose
4	503-2808	20	Clamp, Hose
5	800-3030	3	Screw, Hex Head Cap (M10 x 1.25 x20mm)
6	850-0114-55	3	Washer, Split Locking (M10)
7	502-1367-01	2	Connector, Hose (1/8NPT x 1/4"Hose)
8	502-1353-02	2	Elbow, 90° Pipe
9	502-1367-02	4	Connector, Hose (1/4NPT x 1/4"Hose)
10	502-1615	1	Coupling, Hose
11	502-1133	2	Connector, Bulkhead
12	502-1245	1	Adapter, Pipe
13	502-0055	1	Elbow, Pipe

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	502-1368	1	Tee, Street (1/8NPT)
15	149-2830-03	1	Bracket, Fuel Pump
16	149-2634-01	1	Filter, Fuel (Includes Plug, Base and Filter)
17	800-3017-19	2	Screw, Hex Head Cap (M8 x 1.25 x20mm)
18	850-0114-54	2	Washer, Split Locking (M8)
19	862-0026-55	2	Nut, Hex (M8 x 1.25mm)
20	149-2646 149-2795		12V 24V
21	821-6002-02	2	Screw, Hex Head Sems (M6 x 1 x12mm)
22	502-0020-01	1	Elbow, Pipe
23	503-2806	3	Hose, Fuel
24	505-1490	1	Connector, Male

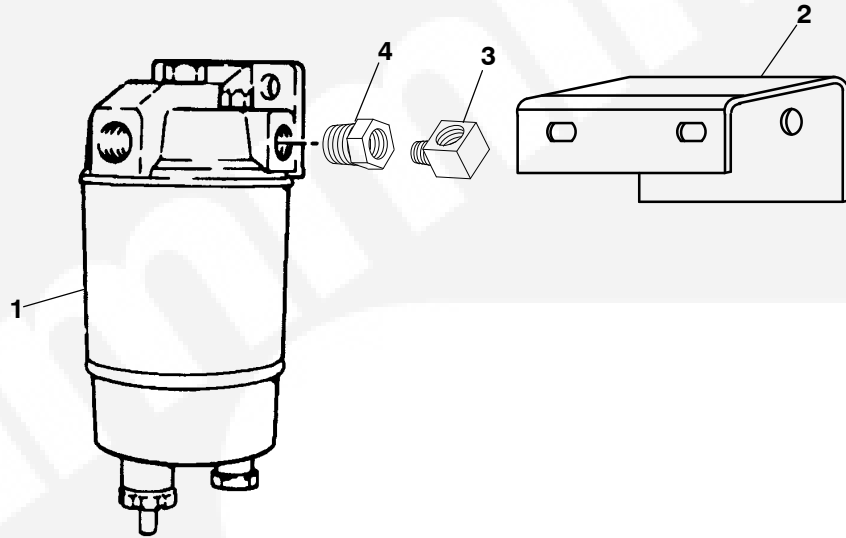
Water Separator/Muffler



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	155-3217	1	Kit, Muffler/Separator (Includes Parts Marked *)	503-1142	10	*	Muffler/Separator Kit
2	155-2030	1	Kit, Muffler Marine (Includes Parts Marked +)	6	155-1002	1	*+ Strainer, Slotted
3	155-3216	1	Kit, Water Separator (Includes Parts Marked •)	7	503-1139	4	*# Clamp, Hose (1-1/2")
4	155-2029	1	*+ Muffler, Marine				
5			Clamp, Hose (2")				
	503-1142	8	+ Muffler Kit				
	503-1142	4	# Separator Kit				

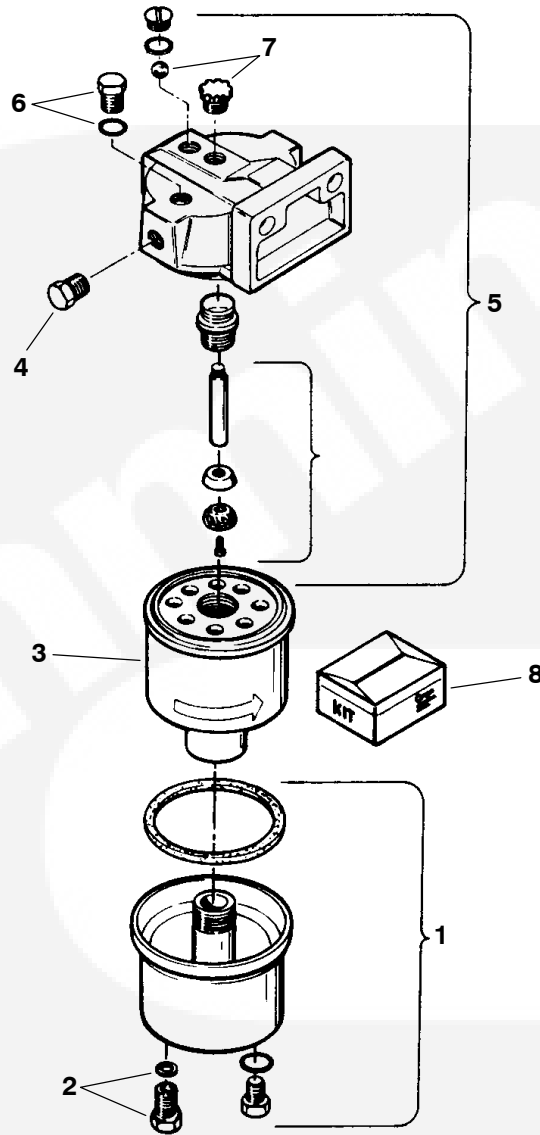
* - Parts Included in Muffler/Separator Kit.
+ - Parts Included in Muffler Kit.
- Parts Included in Water Separator Kit.

Remote Water Separator



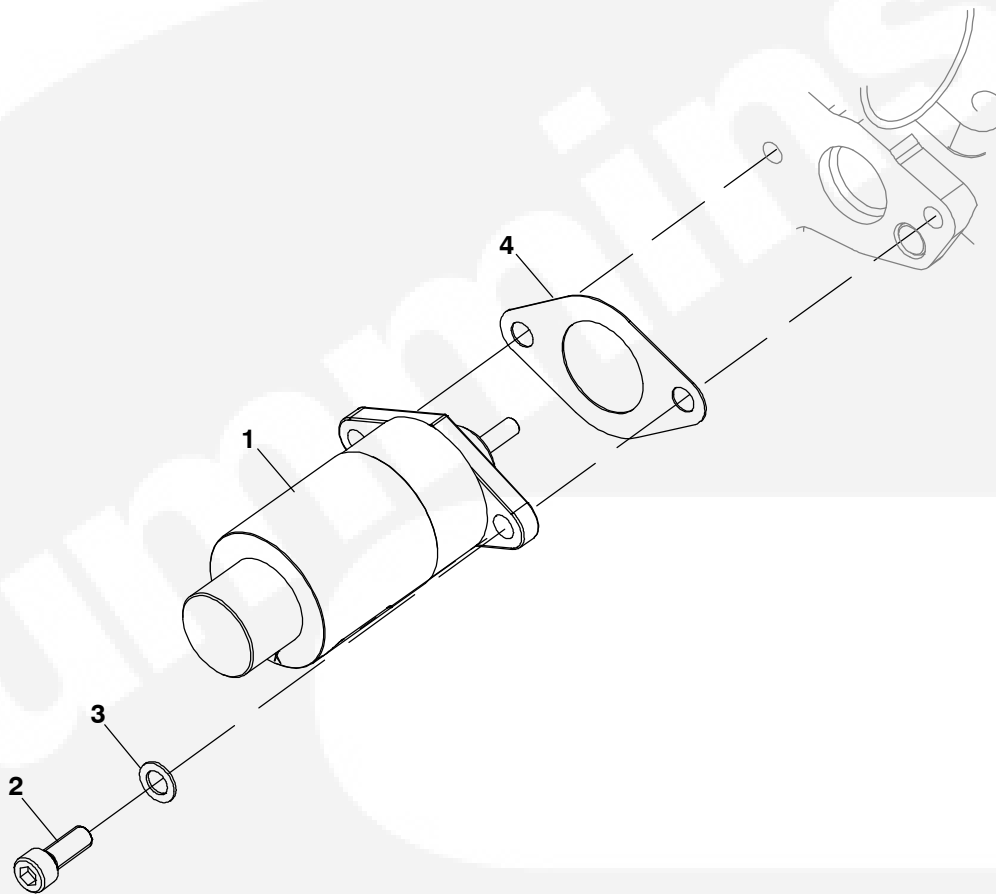
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-2073	1	Kit, Remote Fuel/Water Separator	2	149-2041-03	1	Bracket, Separator Mounting
1	149-1908-05	1	Separator, Fuel/Water (See Separate Page for Components)	3	502-0020-01	1	Elbow, Street 90Degrees
				4	502-0029	2	Bushing, Pipe

Remote Water Separator Components



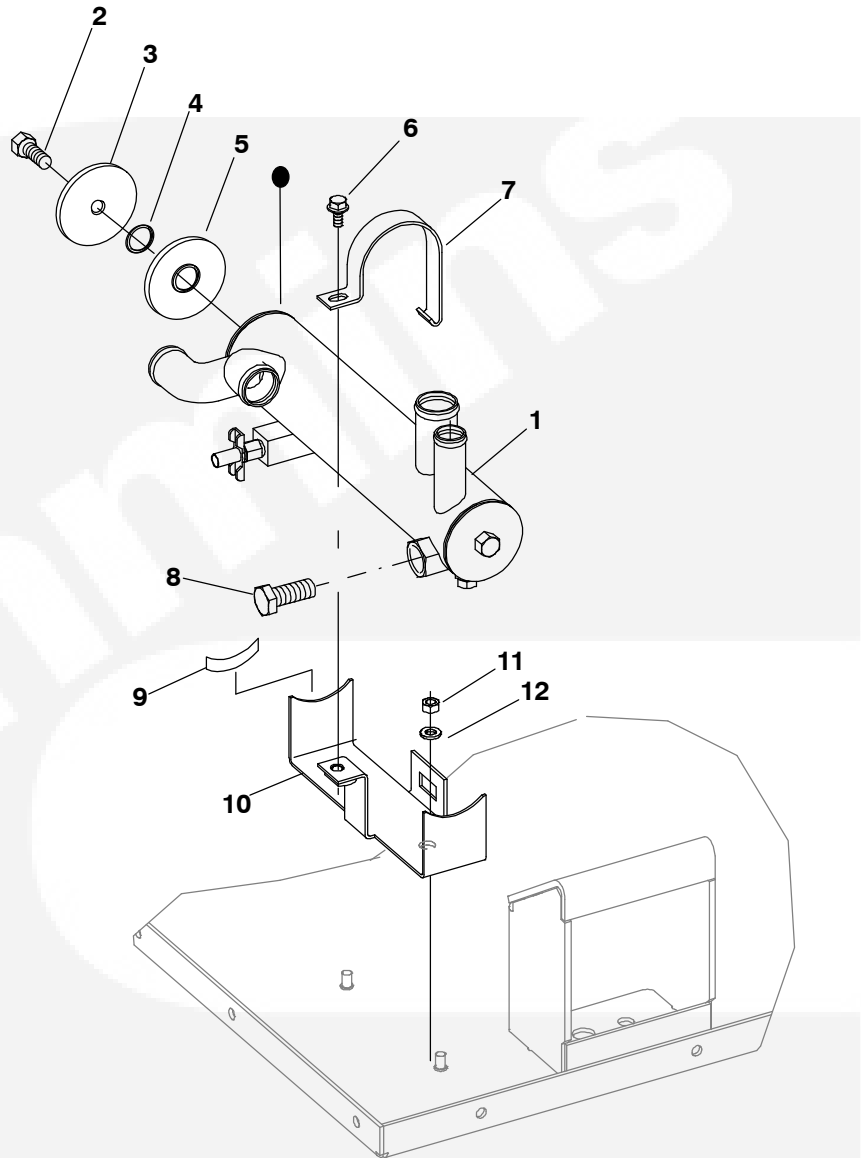
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	149-1908-05	1	Separator, Water	6	149-1952	1	Plug, Vent (Includes O'Ring)
	149-2046	1	Kit, Metal Bowl Replacement (Includes Plug, O'Rings and Drain Assy)	7	149-2047	1	Pump Assy (Includes Plunger, Retainer, Shaft, Check Ball, Knob and Screw)
2	149-1953	1	Assy Drain (Includes Knob and Seal)	8	149-2045	1	Kit O'Ring (Includes Seal and Plunger)
3	149-1914-01	1	Element (Includes Seals)				
4	502-0153	1	Plug, Hex (1/4")				
5	149-1949	1	Head Assy, Replacement (Includes Vent Plug, O'Rings, Seal, Cap, Tube and Pump Assy)				

Governor Actuator



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	306-5006-01	1	Actuator, Governor (12V)
	306-5006-02	1	(24V)
2	725-1027	2	Screw, Socket Head Cap (M6 x 1 x 16mm)(1/32")
3	526-0063	2	Washer, Copper
4	184-0071	1	Gasket, Solenoid Cover

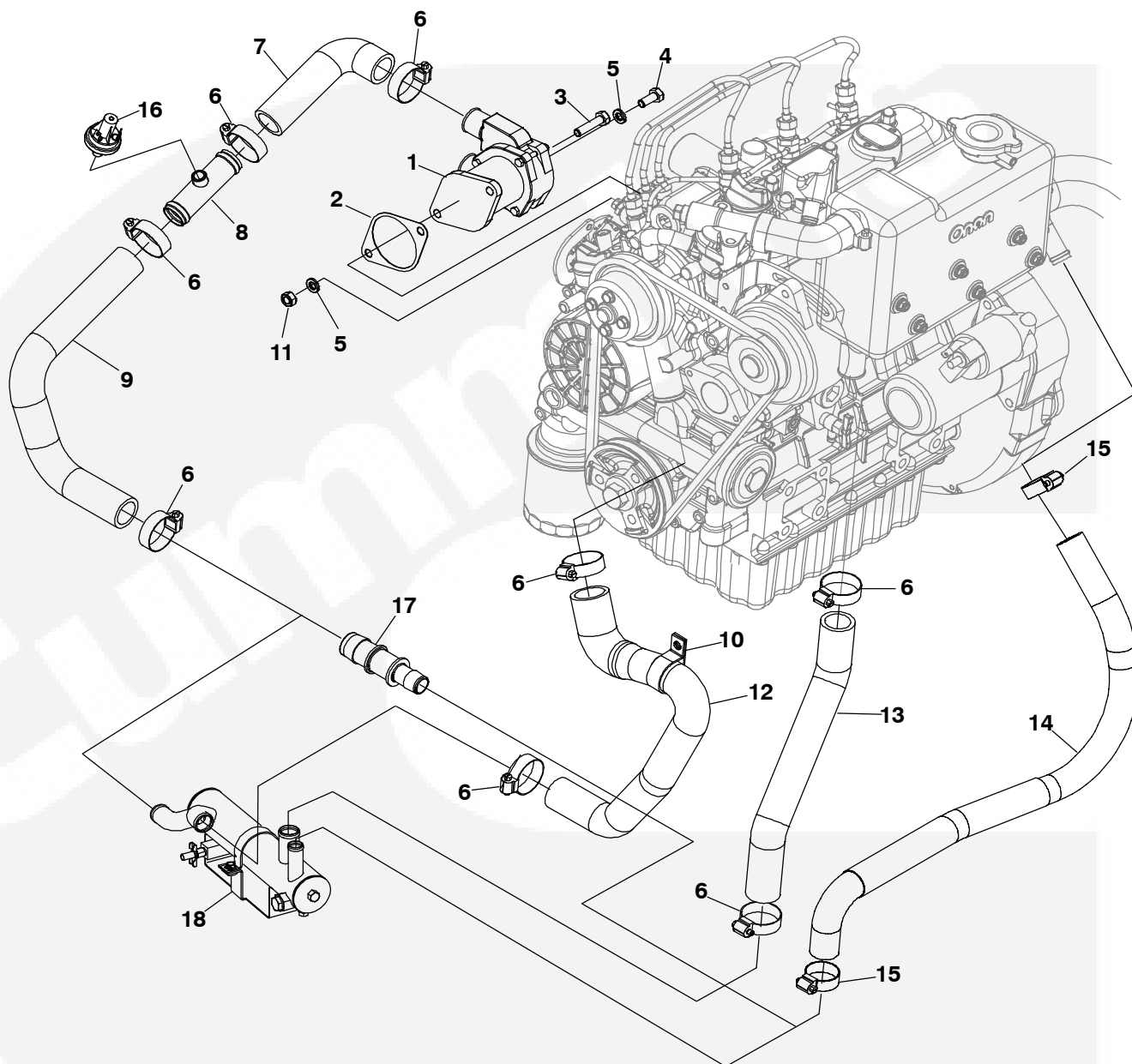
Heat Exchanger (Spec A-D)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	130-5176		Kit, Cap (Includes Parts Marked *)	7	130-4740-03	1	Strap, Mounting
1	130-6547-03	1	Exchanger, Heat Spec A-C	8	130-4434	1	Pencil, Zinc
	130-7489-02	1	Begin Spec D	9	508-0210	2	Edging, Heat Exchanger Bracket (90mm)
2	800-0317	1	*Screw, Hex Head (5/16-18)	10	130-4739-03	1	Bracket, Heat Exchanger
3	130-5169	1	*Cover, End	11	862-0026-54	2	Nut, Hex (M6 x 1mm)
4	509-0351	1	*O'Ring	12	850-0114-53	2	Washer, Lock (M6)
5	130-5170	1	*Gasket, End Cover				
6	821-6002-02	1	Screw, Hex Head Sems (M6 x 1 x 12mm)				

* - Parts Included with Heat Exchanger and in Heat Exchanger Cap Kit.

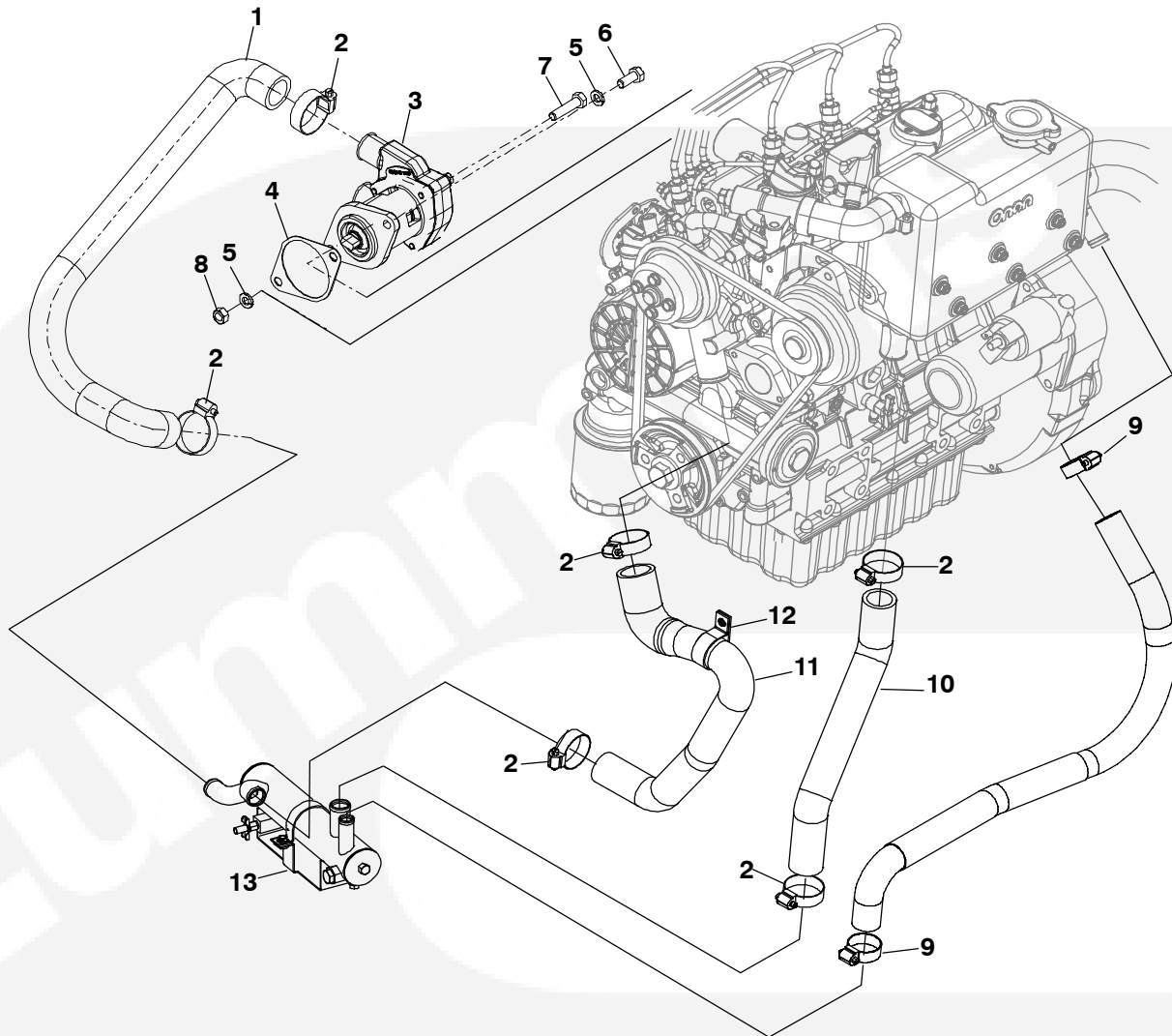
Cooling System (Spec A-C)



Cooling System (Spec A-C)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	132-0459	1	Pump, Water (See Separate Page for Components)	11	862-0026-55	1	Nut, Hex (M8 x 1.25)
2	185-6579	1	Gasket, Water Pump	12	503-2195	1	Hose, Coolant
3	800-3017-22	1	Screw, Hex Cap (M8 x 1.25 x 35mm)	13	503-2196	1	Hose, Coolant
4	800-3017-19	1	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	14	503-0200	1	Keel Cooling Wet Exhaust
5	850-0114-54	2	Washer, Lock (M8)	15	503-1136	2	Clamp, Hose
6			Clamp, Hose	16	309-0667	1	Switch, Pressure
	503-1137	8	Heat Exchange Wet Exhaust	17	502-1354	1	Reducer, Hose Connector
	503-1137	2	Keel Cooling Dry Exhaust	18	-	1	Exchanger, Heat (See Heat Exchanger Page for Details)
	503-1137	6	Keel Cooling Wet Exhaust	* - For Heat Exchanger Service Parts See Heat Exchanger Previous Page			
	503-1137	8	Heat Exchange Dry Exhaust				
7	503-2207	1	Hose, Coolant Elbow				
8	130-5387-01	1	Tube, Low Pressure Switch				
9	503-2197	1	Hose, Coolant				
10	518-0548-05	1	Clamp, Hose				

Cooling System (Begin Spec D)

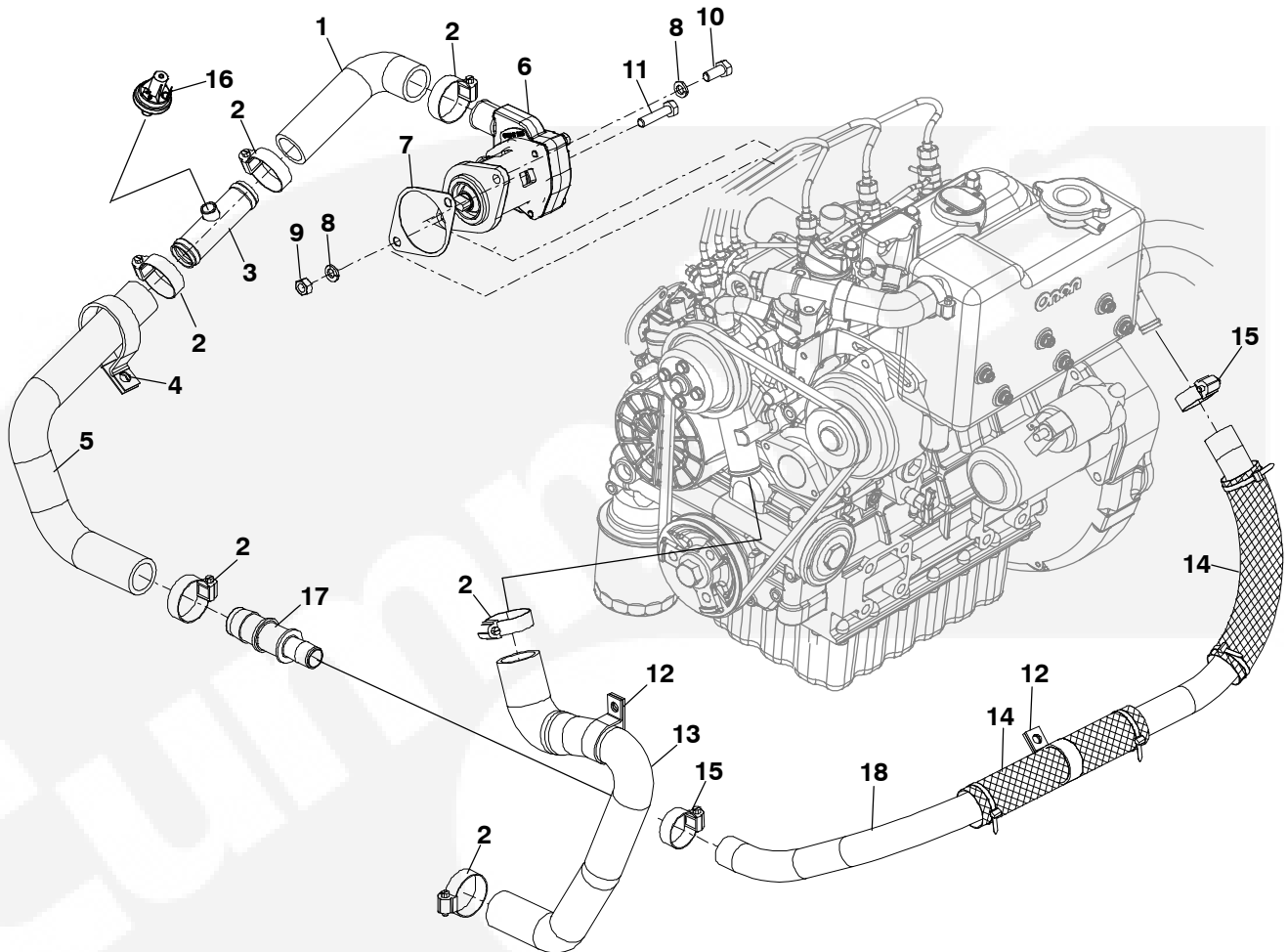


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	503-2908	1	Hose, Coolant
2	503-1137	6	Clamp, Hose
3	132-0459	1	Pump, Water
4	185-6579	1	Gasket, Water Pump
5	850-0114-54	2	Washer, Lock (M8)
6	800-3017-19	1	Screw, Hex Head Cap (M8 x 1.25 X 20mm)
7	800-3017-22	1	Screw, Hex Head Cap (M8 x 1.25 X 35mm)
8	862-0026-55	1	Nut, Hex Head (M8 x 1.25mm)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
9	503-1136	2	Clamp, Hose
10	503-2196	1	Hose, Coolant
11	503-2195	1	Hose, Coolant
12	518-0548-05	1	Clamp, Hose
13	-	1	Exchanger, Heat (See Heat Exchanger Page for Details)

* - For Heat Exchanger Service Parts See Heat Exchanger Previous Page

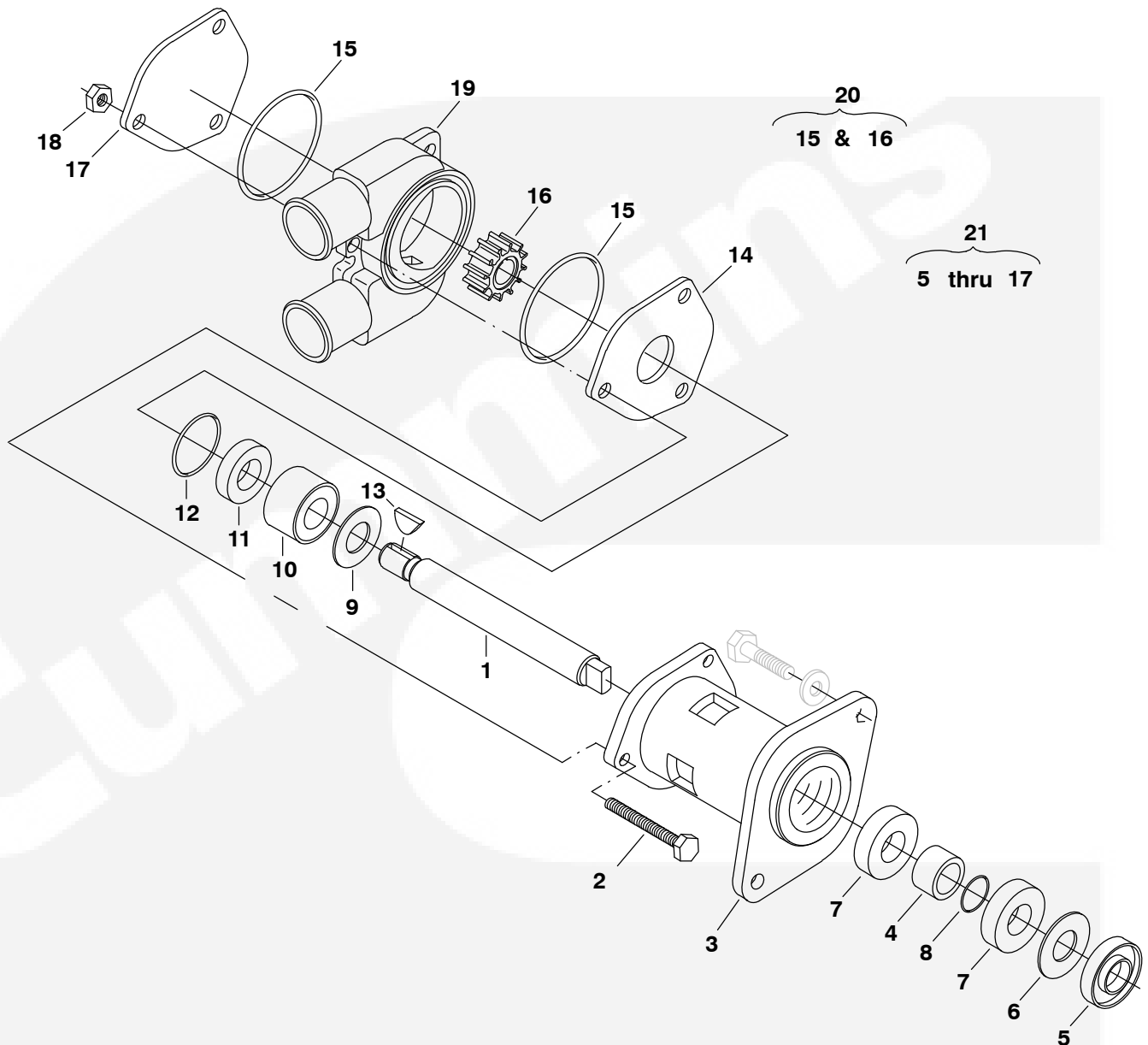
Keel Cooling System (Begin Spec D)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	503-2207	1	Hose, Coolant (Water)
2	503-1137	6	Clamp, Hose Wet
	503-1137	2	Dry
3	130-5387-01	1	Tube, Low Pressure Switch
4	130-4830	1	Clamp, Hose (Wet)
5	503-2197	1	Hose, Coolant
6	132-0459	1	Pump, Water
7	185-6579	1	Gasket, Water Pump
8	850-0114-54	2	Washer, Split Locking (M8)
9	862-0026-55	1	Nut, Hex Head (M8 x 1.25mm)
10	800-3017-19	1	Screw, Hex Head Cap (M8 x 1.25 x 20mm)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
11	800-3017-22	1	Screw, Hex Head Cap (M8 x 1.25 x 35mm)
12	518-0548-05	1	Hose, Clamp Dry
	518-0548-05	2	Wet
13	503-2195	1	Hose, Coolant
14	898-1311-01	2	Sleeve, Nylon Mesh
15	503-1136	2	Clamp, Hose
16	309-0717	1	Switch, Pressure
17	502-1354	1	Reducer, Hose Connector
18	503-2916-01	1	Hose, Water

Raw Water Pump Components (Spec A-B)



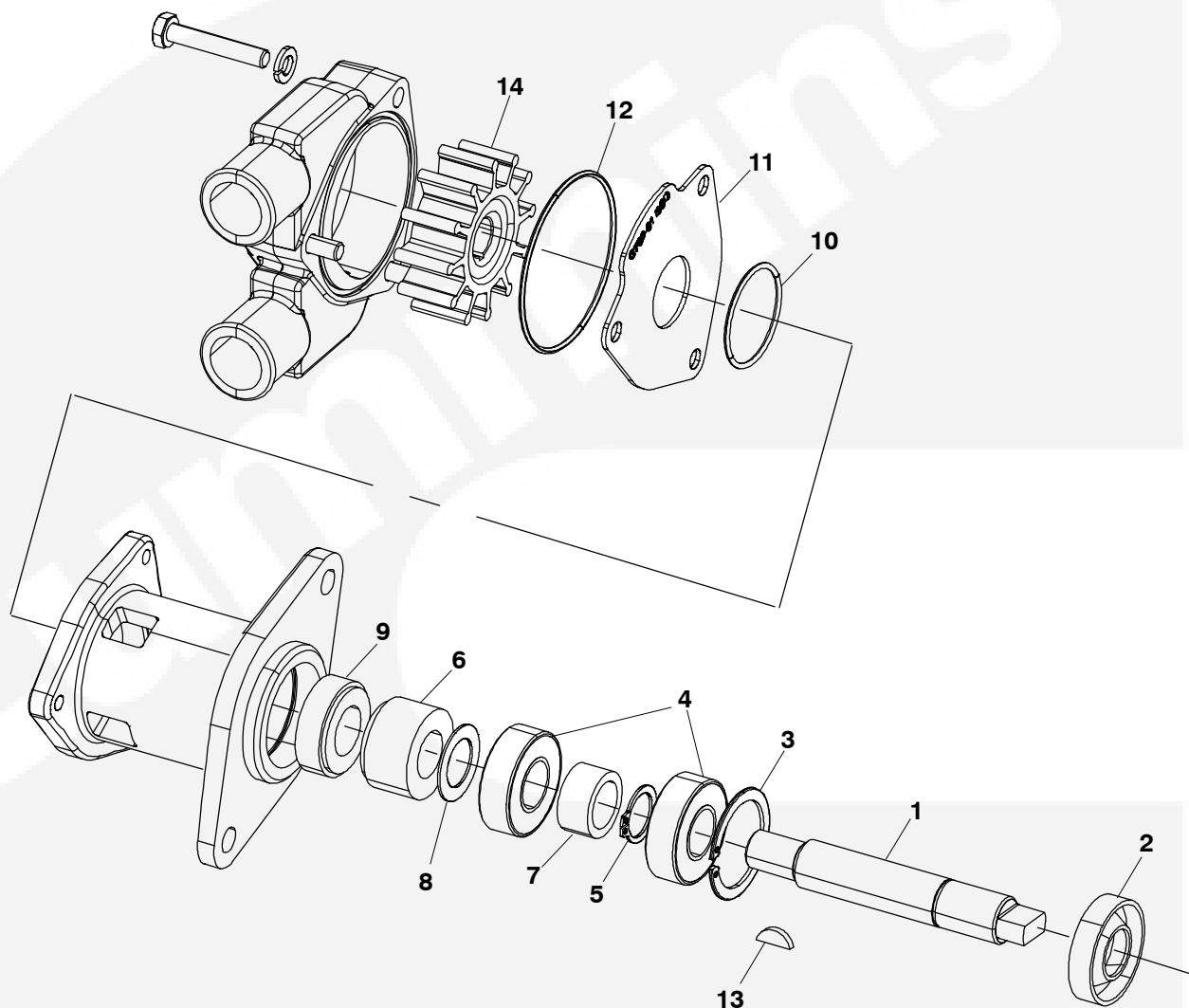
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	132-0459	1	Pump, Water
1	132-0360	1	Shaft
2	132-0376	3	Bolt
3	132-0362	1	Body
4	132-0367	1	Spacer
5	132-0361	1	+ Seal, Lip
6	132-0363	1	+ Ring, Internal Retaining
7	132-0364	2	+ Bearing, Ball
8	132-0365	1	+ Ring, External Retaining
9	132-0368	1	+ Washer,
10	132-0366	1	+ Seal, Mechanical
11	132-0369	1	+ Seat, Seal
12	132-0370	1	+ O'Ring
13	132-0374	1	+ Key

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	132-0371	1	+ Plate, Wear
15	132-0372	2	*+ O'Ring
16	132-0375	1	*+ Impeller
17	132-0373	1	+ Plate, Cover
18	132-0377	3	Nut
19	132-0378	1	Housing
20	541-1519	1	Kit, Minor Service (Includes Parts Marked *)
21	132-0380	1	Kit, Major Service (Includes Parts Marked +)

* - Parts Included in Minor Service Kit.

+ - Parts Included in Major Service Kit.

Raw Water Pump Components (Begin Spec C)

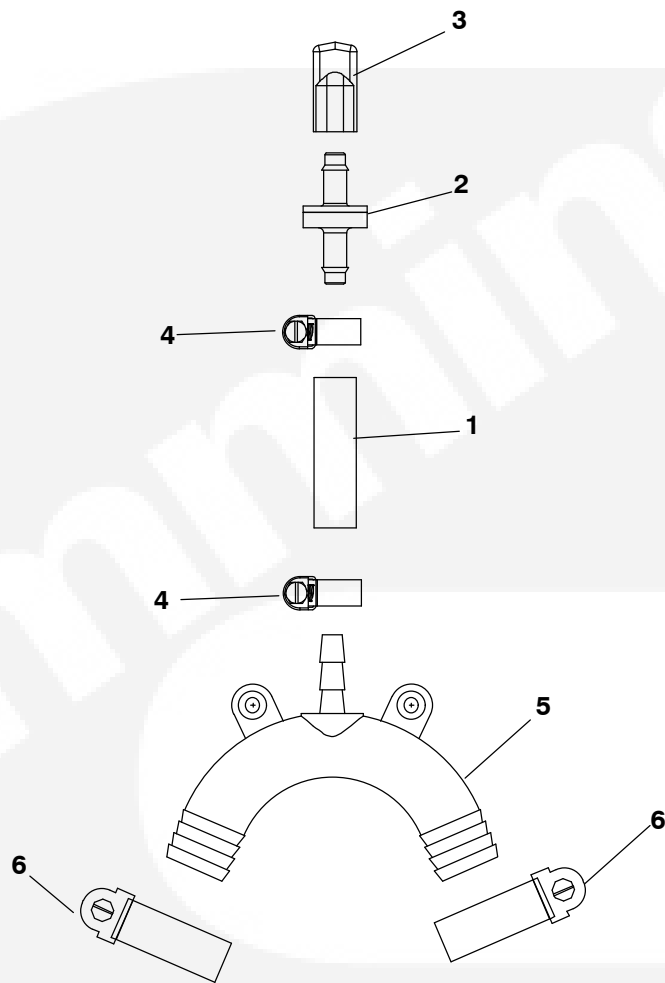


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	541-1519	1	Kit, Water Pump (Minor)	8	132-0368	1	+ Washer,
	541-1520	1	Kit, Water Pump (Major)	9	132-0369	1	+ Seat, Seal
	132-0459	1	Pump, Water	10	132-0370	1	+ O'Ring
1	132-0360	1	Shaft	11	130-6526	1	+ Plate, Wear
2	132-0361	1	+ Seal, Lip	12	132-0372	2	*+ O'Ring
3	132-0363	1	+ Ring, Internal Retaining	13	132-0374	1	+ Key
4	132-0364	2	+ Bearing, Ball	14	132-0375	1	*+ Impeller
5	132-0365	1	+ Ring, External Retaining				
6	132-0366	1	+ Seal, Mechanical				
7	132-0367	1	Spacer				

* - Parts Included in Minor Service Kit.

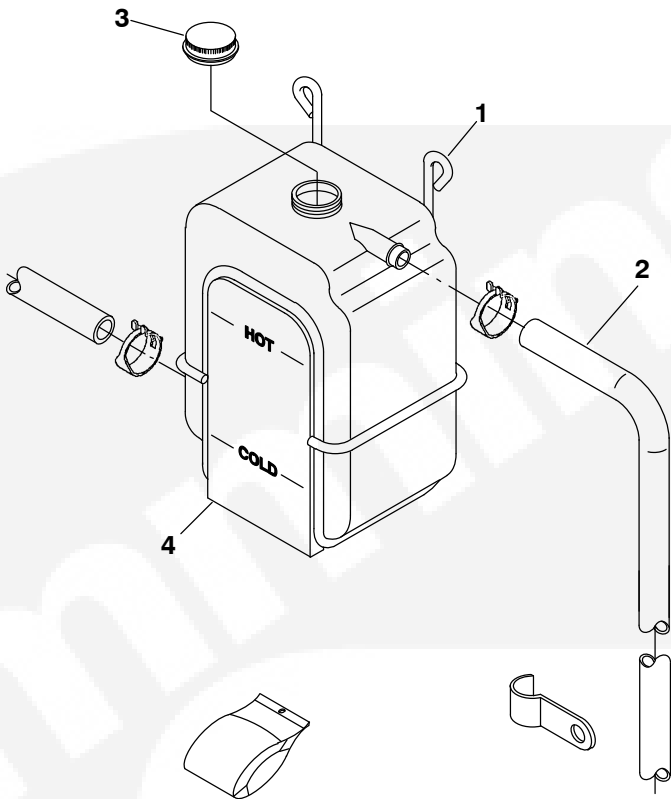
+ - Parts Included in Major Service Kit.

Vacuum Relief Valve



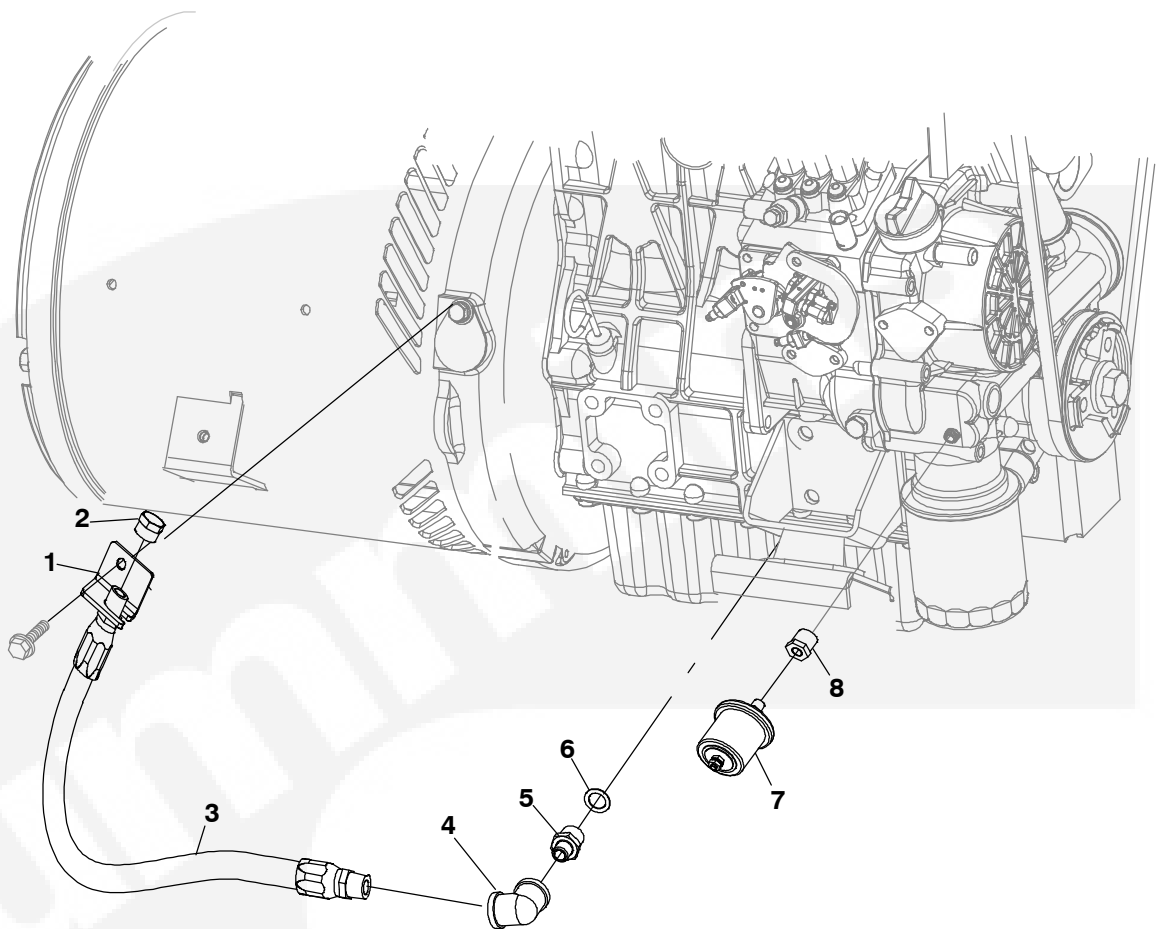
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	541-0876-01	1	Kit, Siphon Break (Includes Instructions)	4	503-2309	2	Clamp, Hose
1	503-2728-01	1	Hose, Coolant	5	502-1463	1	Connector, Hose
2	504-0223	1	Valve, Check	6	503-0977	2	Clamp, Hose
3	502-1425-02	1	Cap, Tube				* - All parts included in Kit.

Coolant Recovery Tank



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	130-3574	1	Kit, Coolant Recovery	3	130-3572	1	Cap, Tank
1	130-3571	1	Hanger, Tank	4	130-3574	1	Tank, Coolant Recovery
2	503-1692	1	Hose (5/16 I.D. x 120" Lg.)				

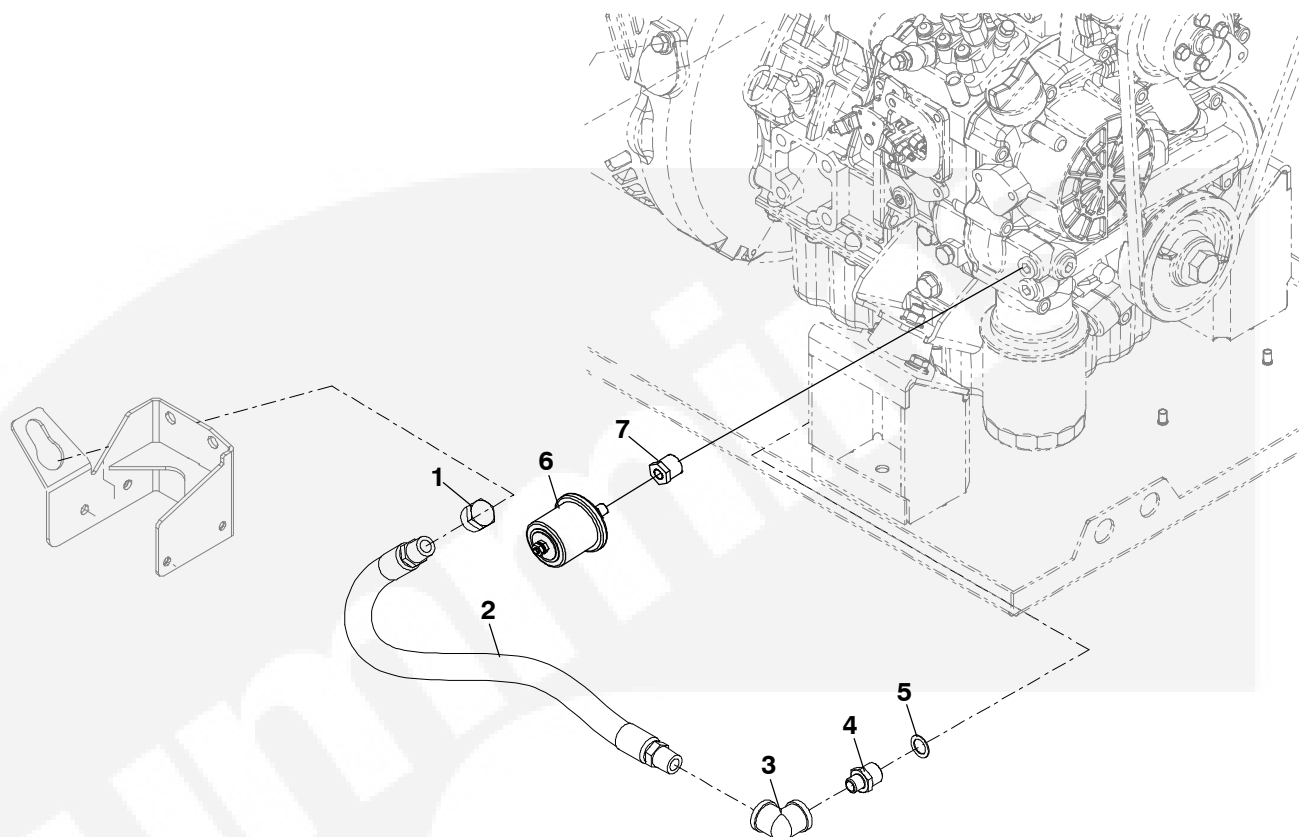
Oil System (Spec A-C)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	120-1332-02	1	Bracket, Oil Drain	8	505-0395	1	Reducer, Bushing (1/8" NPSF)
2	502-1123	1	Cap, Pipe				
3	501-0910	1	Hose, Oil Drain				
4	502-0263	1	Elbow, Pipe				
5	102-1485	1	Adapter, Oil Drain				
6	185-5495	1	Gasket, Oil Drain				
7			*Sender, Oil Pressure				
	193-0244	1	Negative Ground (B200 B201)				
	193-0430-01	1	+ 12V Isolated Ground (B380)				

* - Sender Included in Sender Kit Listed on Water Flange Page.
+ - Sender Included in Isolated Ground Kit Listed on Isolated Ground Page.

Oil System (Begin Spec D)

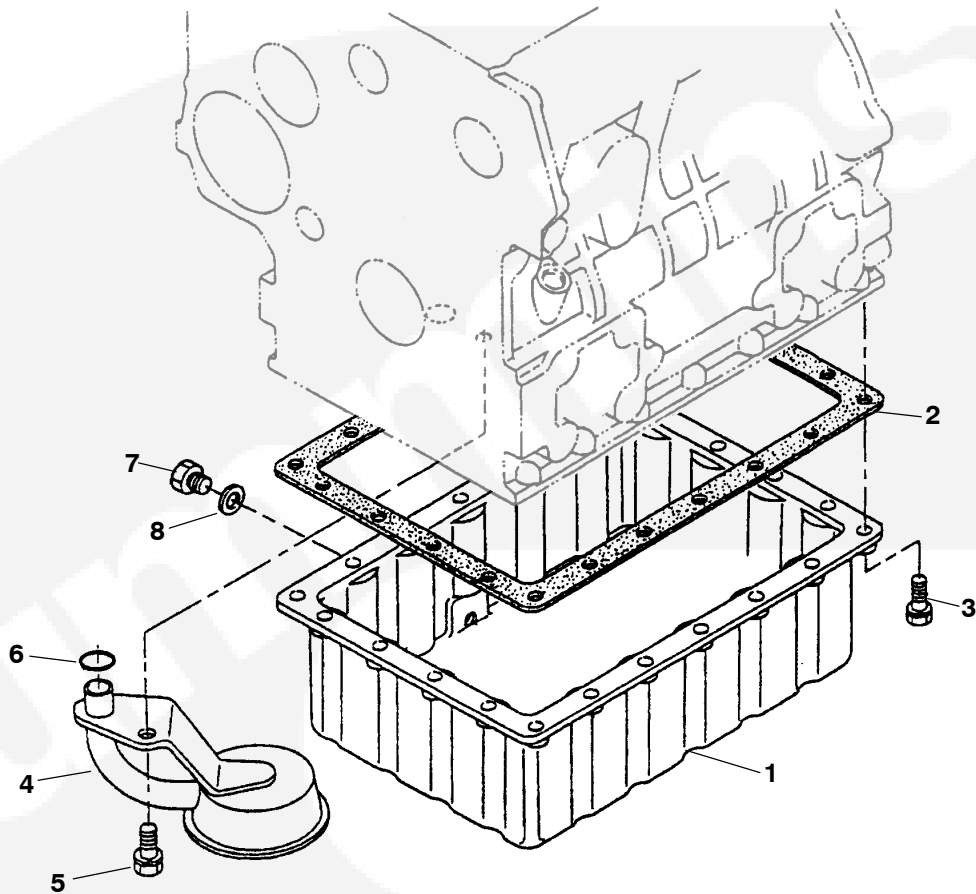


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	502-1123	1	Cap, Pipe	7	505-0395	1	Reducer, Bushing (1/8" NPSF)
2	501-0910	1	Hose, Oil Drain				
3	502-0263	1	Elbow, Pipe				
4	102-1485	1	Adapter, Oil Drain				
5	185-5495	1	Gasket, Oil Drain				
6			*Sender, Oil Pressure				
	193-0244	1	Negative Ground (B200 B201)				
	193-0430-01	1	+ 12V Isolated Ground (B380)				

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

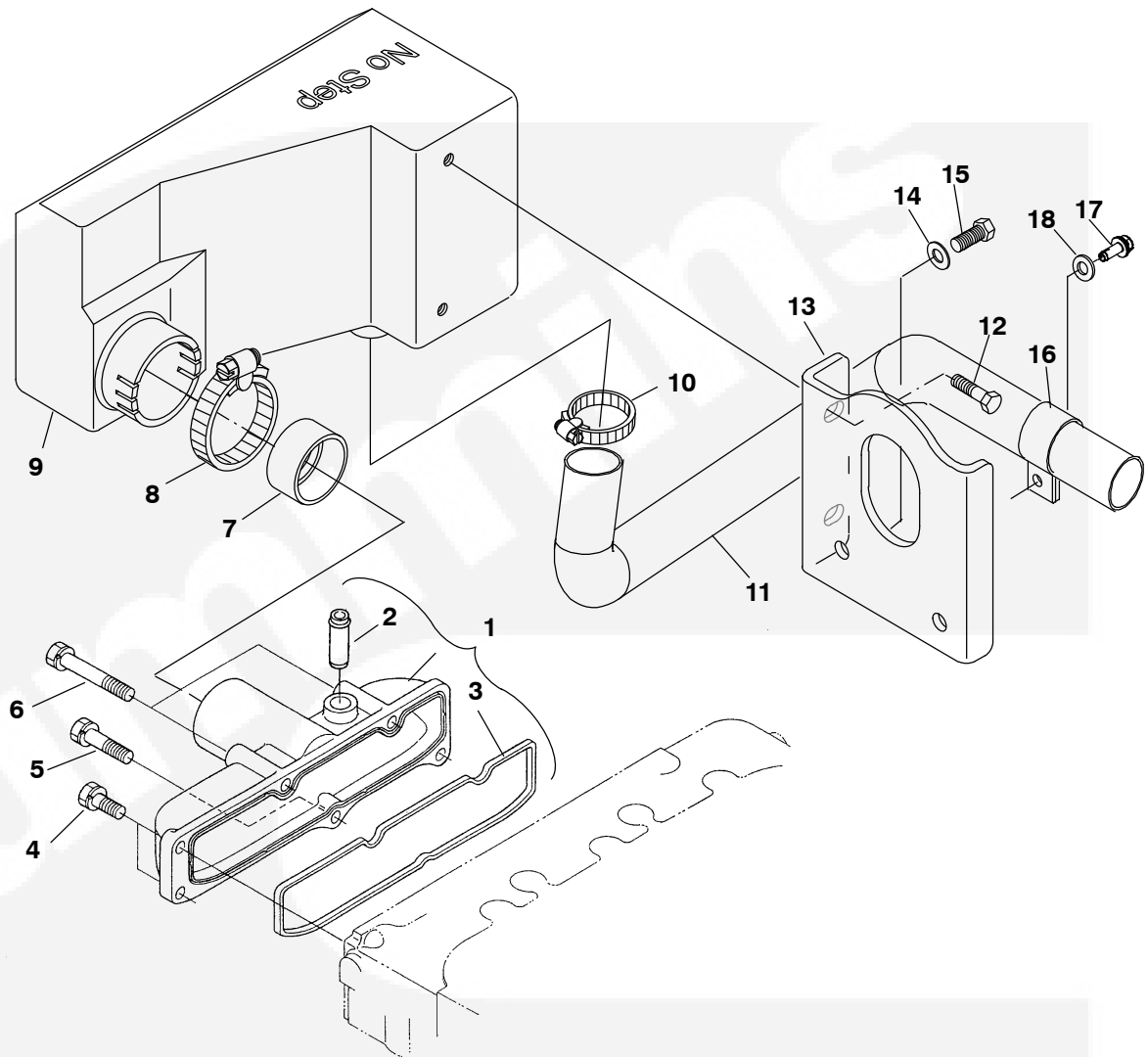
+ - Sender Included in Isolated Ground Kit Listed on Isolated Ground Page.

Oil Pan



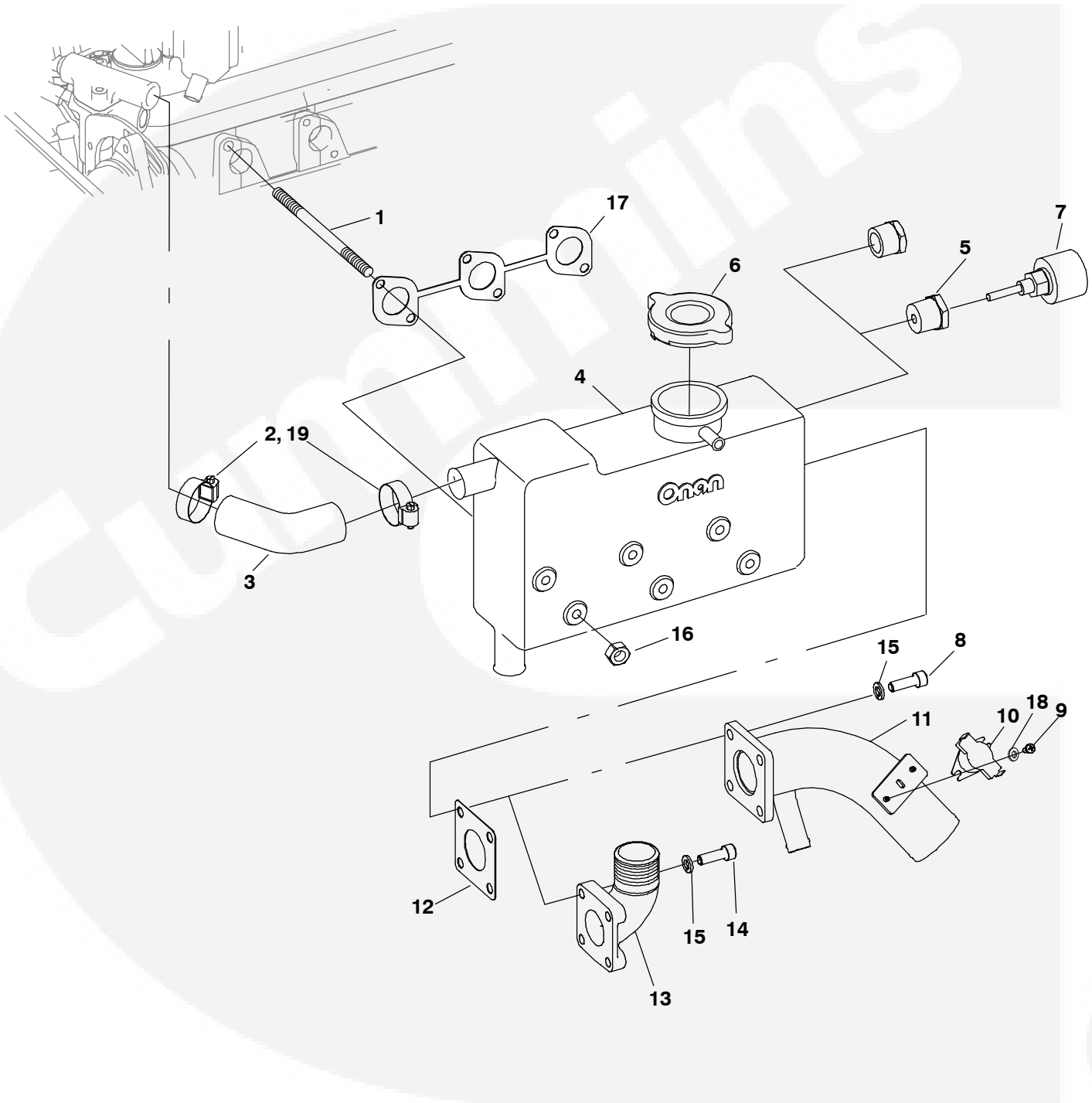
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185-7213	1	Pan, Oil	6			O'Ring
2	185-7214	1	Gasket, Oil Pan	185-3078	1		Spec A-D
3	185-2389	22	Screw, Hex Head	185-7421	1		Begin Spec E
4			Tube, Oil Pickup	7			Plug
	122-0932	1	Spec A-E	185-2096	1		Spec A-D
5	185-2563	1	Bolt	517-0418	1		Begin Spec E
				8			Gasket
				185-2343	1		Spec A-D
				509-0428	1		Begin Spec E

Resonator



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Manifold, Intake (Includes Gasket)	11			Hose, Air Intake (1.25" ID)
	185-6927	1	Spec A		503-2202-03	1	Spec A-C
2	185-6499	1	Joint, Breather Pipe		503-2202-02	1	Begin Spec D
3	185-6926	1	Gasket	12	821-6002-02	2	Screw, Hex Head Sems (M6 x 12)
4	185-2389	3	Screw, Hex Head (M6 x 18mm)	13	403-4284-02	1	Bracket, Lifting
5	185-6677	1	Screw	14	526-0399-60	2	Washer, Flat (M8)
6	185-7069	2	Screw, Hex Head (M6 x 50mm)	15	503-2202-02	2	Screw, Hex Head Cap (M8 x 16mm)
7	140-2898	1	Sleeve, Air Intake	16	130-4830	1	Clamp, Hose (Spec A-C)
8	503-1141	1	Clamp, Hose	17	821-6001-03	1	Screw, Hex Head Sem (Spec A-C)
9	140-3078-01	1	Resonator, Intake				(M5 x 0.8 x 16mm)
10	503-1137	1	Clamp, Hose	18	526-2291	1	Washer, Flat (Spec A-C)

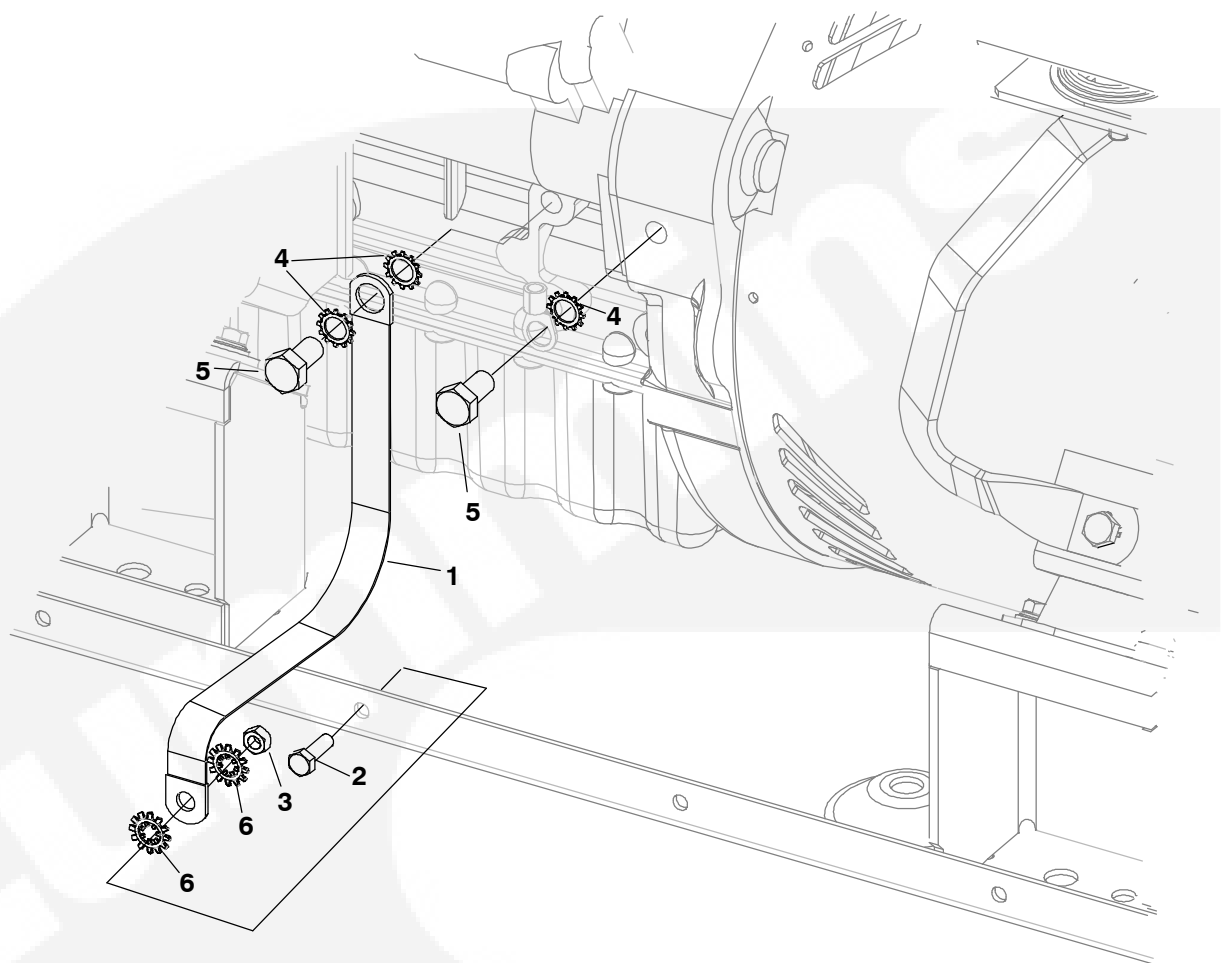
Exhaust Manifold



Exhaust Manifold

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	300-4686-01	1	Kit, Low Coolant Sender (Includes Sender and Bushings)	9	815-0862	2	Screw, Pan Head Cross Recessed (E086) (M4 x 0.7 x 10mm)
	155-3146	1	Kit, Dry Exhaust (Includes Gasket, Elbow, Screws and Washers)	10	309-0295-01	1	Switch, Temperature (E086) (Wet Exhaust)
1	185-7110	6	Stud, Exhaust Manifold	11	155-3261-02	1	Mixer (E086 Wet Exhaust)
2	503-1137	2	Clamp, Hose	12		1	Gasket (Exhaust Out)
3	503-2046	1	Hose, Coolant		185-6853	1	Spec A-D
4	154-3020-S1	1	Manifold Assy (Includes Filler Neck)		154-3269	1	Begin Spec E
5	502-0029-06	1	Bushing, Reducer (3/4-1/4") (H549)	13	155-2666-01	1	Elbow, Exhaust (A148 Dry Exhaust)
6	130-3721	1	Cap, Manifold	14	800-3017-21	4	Screw, Hex Head Cap (M8 x 1.25 x 30mm) (Wet Exhaust)
7	193-0468	1	Sender, Low Coolant (S3) (H549)	15	850-0114-54	4	Washer, Lock (M8)
8	815-0916	4	Screw, Socket Head Cap (E086 Wet Exhaust) (M8 x 1.25 x 25mm)	16	185-6699	6	Nut, Hex Flange (M7 x 1)
				17	185-6925	1	Gasket, Exhaust Manifold
				18	526-0003	2	Washer, Flat (Wet Exhaust)
				19	503-2823	2	Clamp, Hose Cover

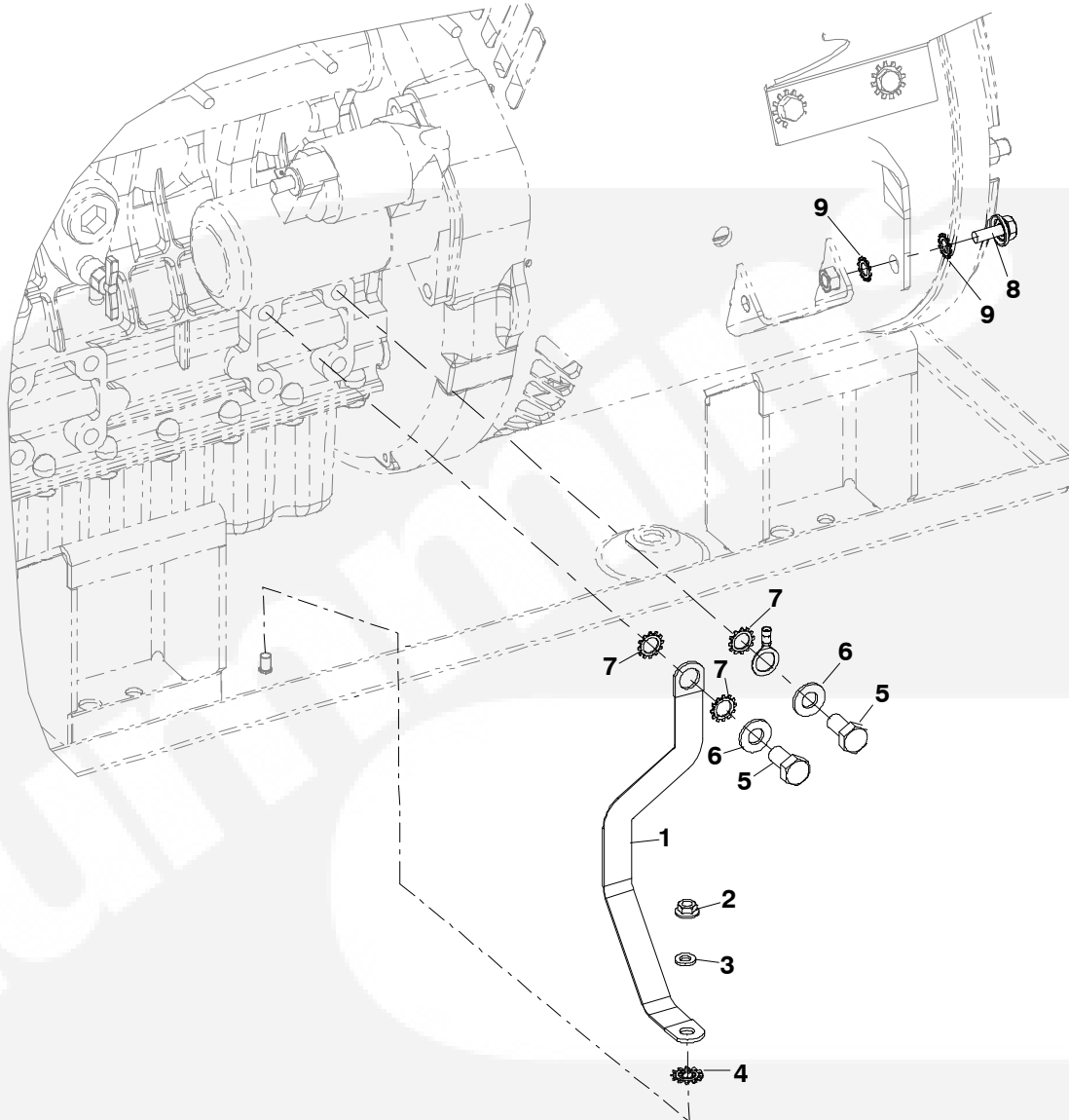
Grounding (Spec A-C)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	337-2785	1	Strap, Bond
2	800-3017-04	1	Screw, Hex Head (M6 x 20mm)
3	862-0026-54	1	Nut, Hex (M6)
4	853-0040-56	3	Washer, ET Locking (M10)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	800-3030	2	Screw, Hex Head Cap (M10 x 1.25 x 20mm)
6	856-0006	2	Washer, ETIT Locking (1/4")

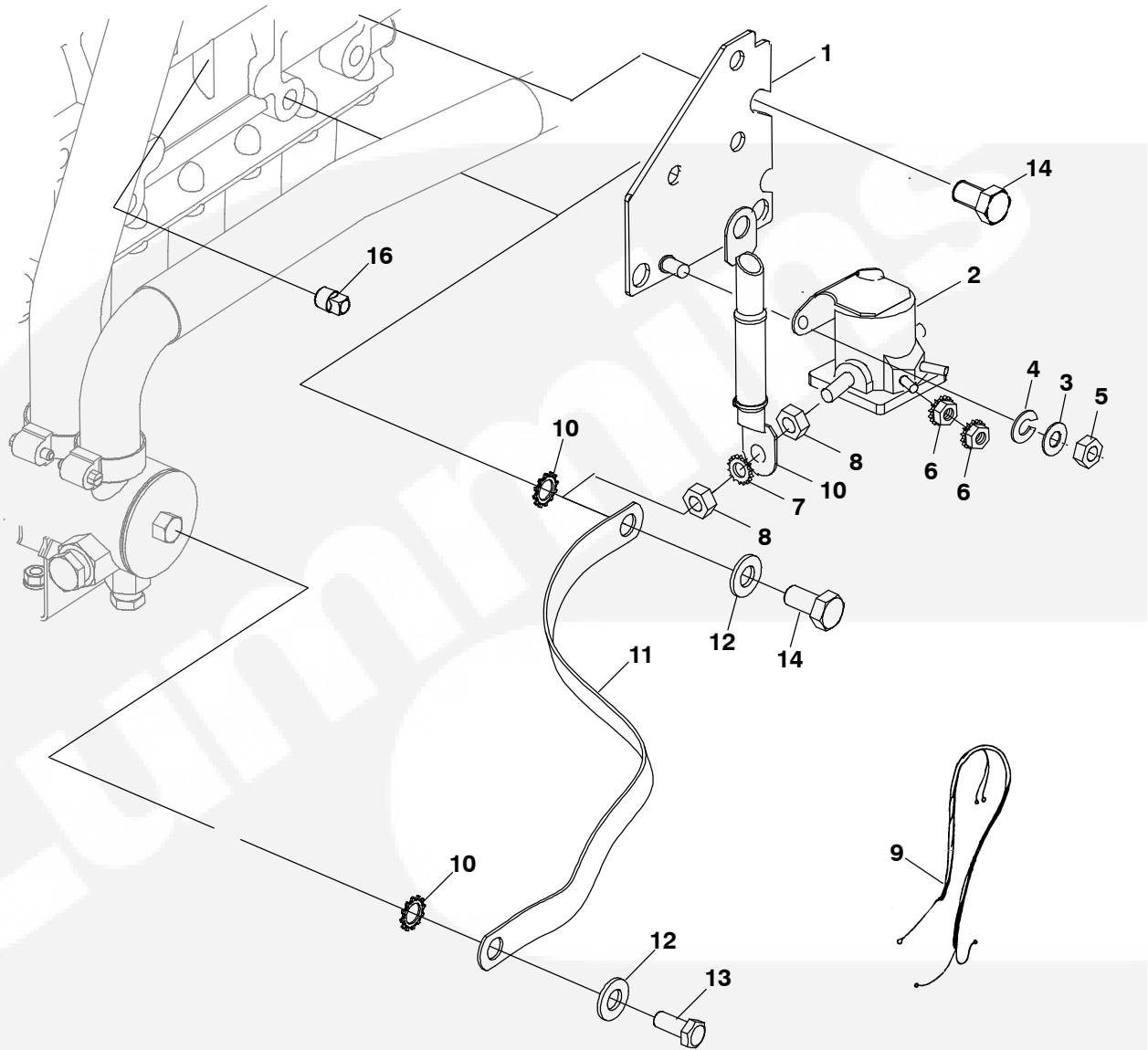
Grounding (Begin Spec D)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	337-2785	1	Strap, Bond
2	870-2065-02	1	Nut, Hex Flange(M6)
3	526-0399-58	1	Washer, Flat (M6)
4	856-0006	1	Washer, ET Locking (1/4")
5			Screw, Hex Head Cap (M10 x 1.25 x 20mm)
	800-3030	1	ISO
	800-3030	2	Neg
6		2	Washer, ETIT Locking (1/4")
	526-2120	1	ISO
	526-2120	2	Neg

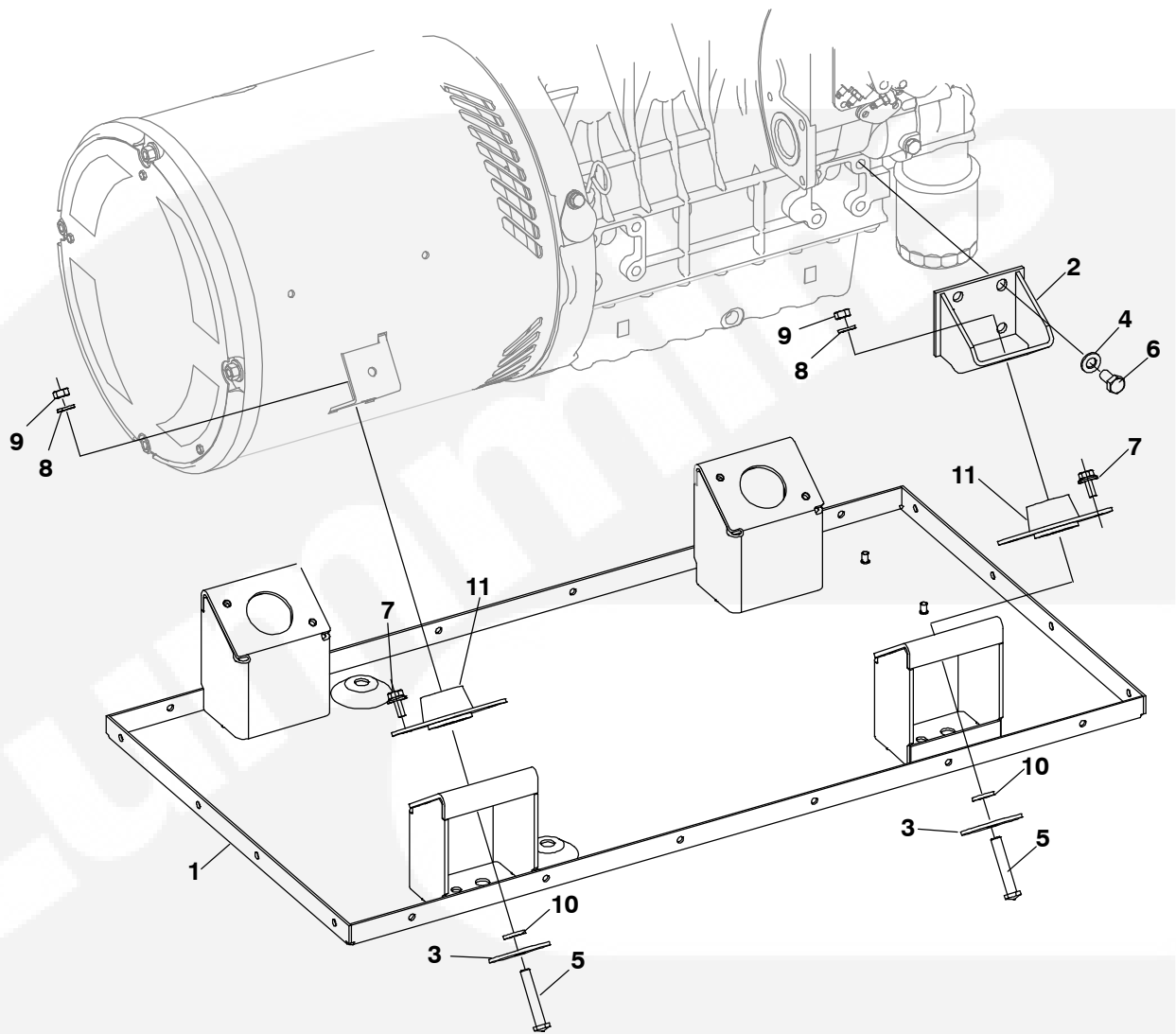
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7			Washer, ETIT Locking (M10)
	853-2010	2	ISO
	853-2010	3	Neg
8	821-6003-01	1	Screw, Hex Head Sems (M8 x 1.25 x 16mm)
9	853-0016	2	Washer, ETIT Locking (5/16")

Isolation Ground



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Isolated Ground (Includes Screws, Sending Units and Harness)	9	338-4200-02	1	*Harness, Ground
	541-0823	1	12V	10	853-2010	1	Washer, ET Lock (5/16") 12 and 24 Volt Ground
	541-0824	1	24V		853-2010	2	12Volt Isolated Ground
		1	Assy, Solenoid Bracket (Isolated Gnd Only Parts Included Marked *)	11	337-3466-01	1	Strap, Bond
1	333-0732-02	1	*Bracket, Solenoid	12	526-2120	2	Washer, ET Lock (5/16") 12 and 24 Volt Ground
2	307-1617	1	*Relay, Solenoid (12V)		526-2120	1	12Volt Isolated Ground
3	526-0399-58	2	*Washer, Flat (M6)	13	800-0026	1	Screw, Hex Head Cap (5/16-18 x 3/4")
4	850-0114-53	2	*Washer, Split Lock (M6)	14			Screw, Hex Head Cap (M10 x 1.25 x 20mm)
5	862-0026-54	2	*Nut, Hex (M6)		800-3030	1	12 and 24 Volt Ground
6	870-0131	4	*Nut, ET Hex (#10-32) (12V)		800-3030	3	12Volt Isolated Ground
7	853-0016	2	*Washer, ET Lock (5/16")	15	338-4159	1	Harness, Isolated Ground
8	862-0026-30	4	*Nut, Hex (5/16-24)	16	184-0072	1	Plug, Square Head (1/8-28)

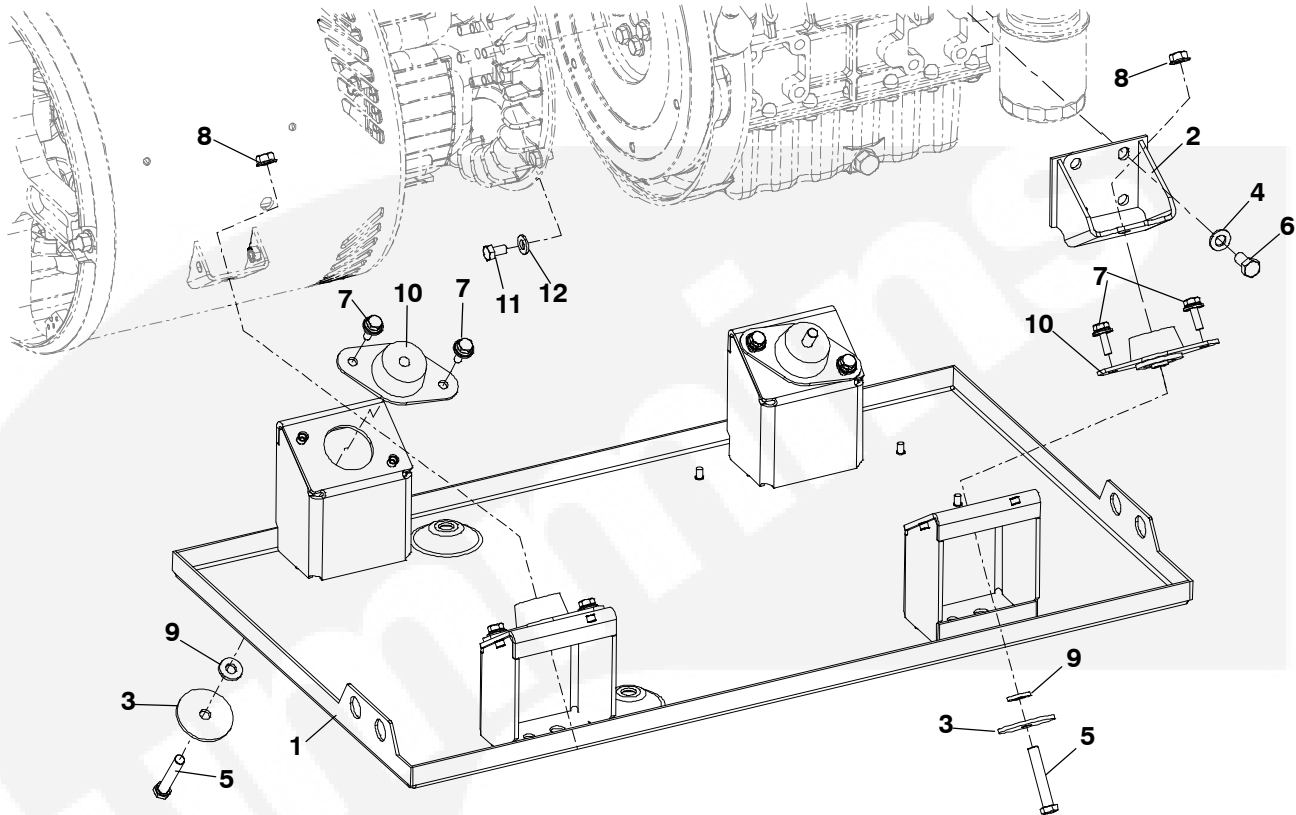
Mounting Base (Spec A-C)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	403-4127-02	1	Base, Mounting
2	403-4168-04	2	Mount, Engine
3	526-0325	4	Washer, Flat
4	526-0399-62	8	Washer, Flat (M10)
5	800-0573	4	Screw, Hex Head Cap (3/8-16 x 2.25")
6	800-3030	8	Screw, Hex Head Cap (M10 x 1.25 x 20mm)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	821-6003-02	8	Screw, Hex Head Sems (M8 x 1.25 x 16mm)
8	850-0050	4	Washer, Lock (3/8")
9	862-0041	4	Nut, Hex (3/8-16)
10	526-0030	4	Washer, Flat
11	402-0728	4	Isolator, Vibration

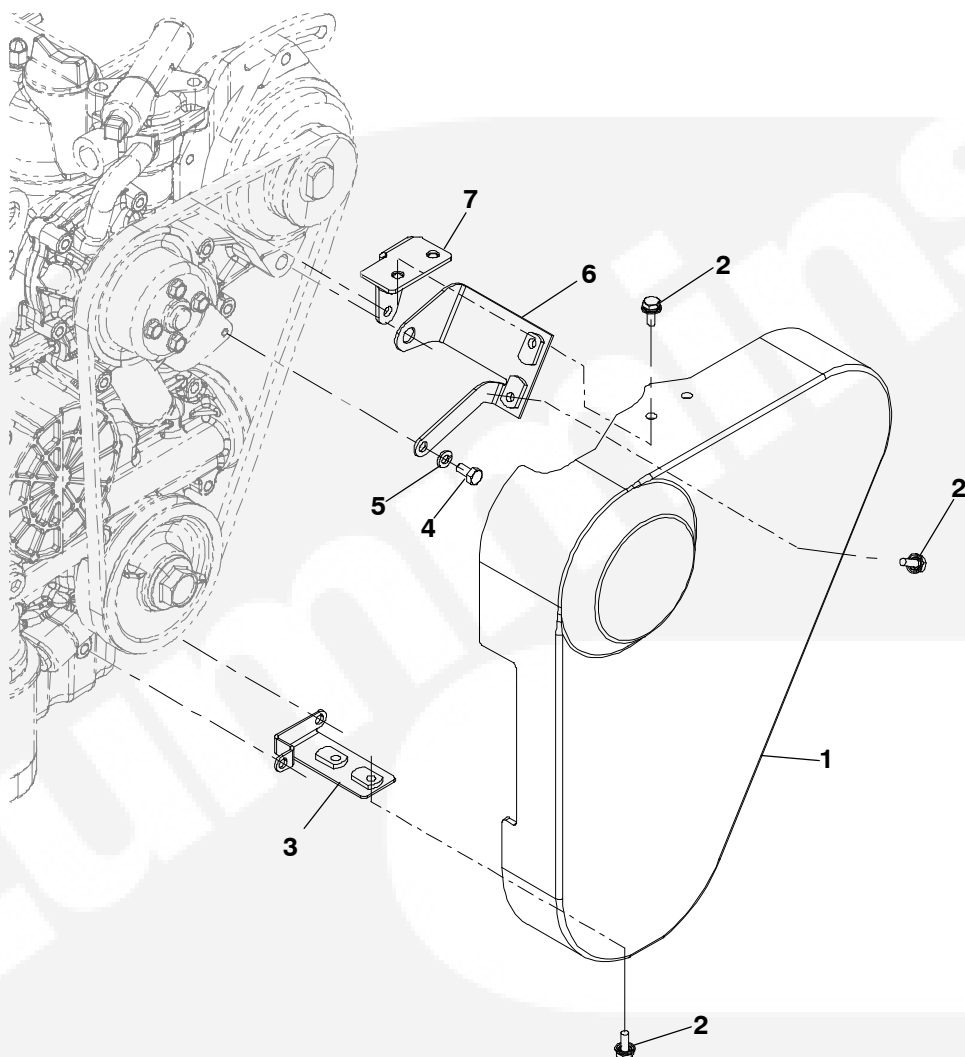
Mounting Base (Begin Spec D)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	403-6666-02	1	Base, Mounting
2	403-6785-02	2	Mount, Engine
3	526-2340	4	Washer, Flat
4	526-0399-62	8	Washer, Flat (M10)
5	800-0573	4	Screw, Hex Head Cap (3/8-16 x 2.25")
6	800-3030	8	Screw, Hex Head Cap (M10 x 1.25 x 20mm)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	821-6003-02	8	Screw, Hex Head Sems (M8 x 1.25 x 16mm)
8	870-0550-09	4	Nut, Hex (3/8-16)
9	526-0030	4	Washer, Flat
10	402-0728	4	Isolator, Vibration
11	800-2054	6	Screw, Hex Head Cap (M8 x 1.25 x 14mm)
12	526-0399-41	6	Washer, Flat

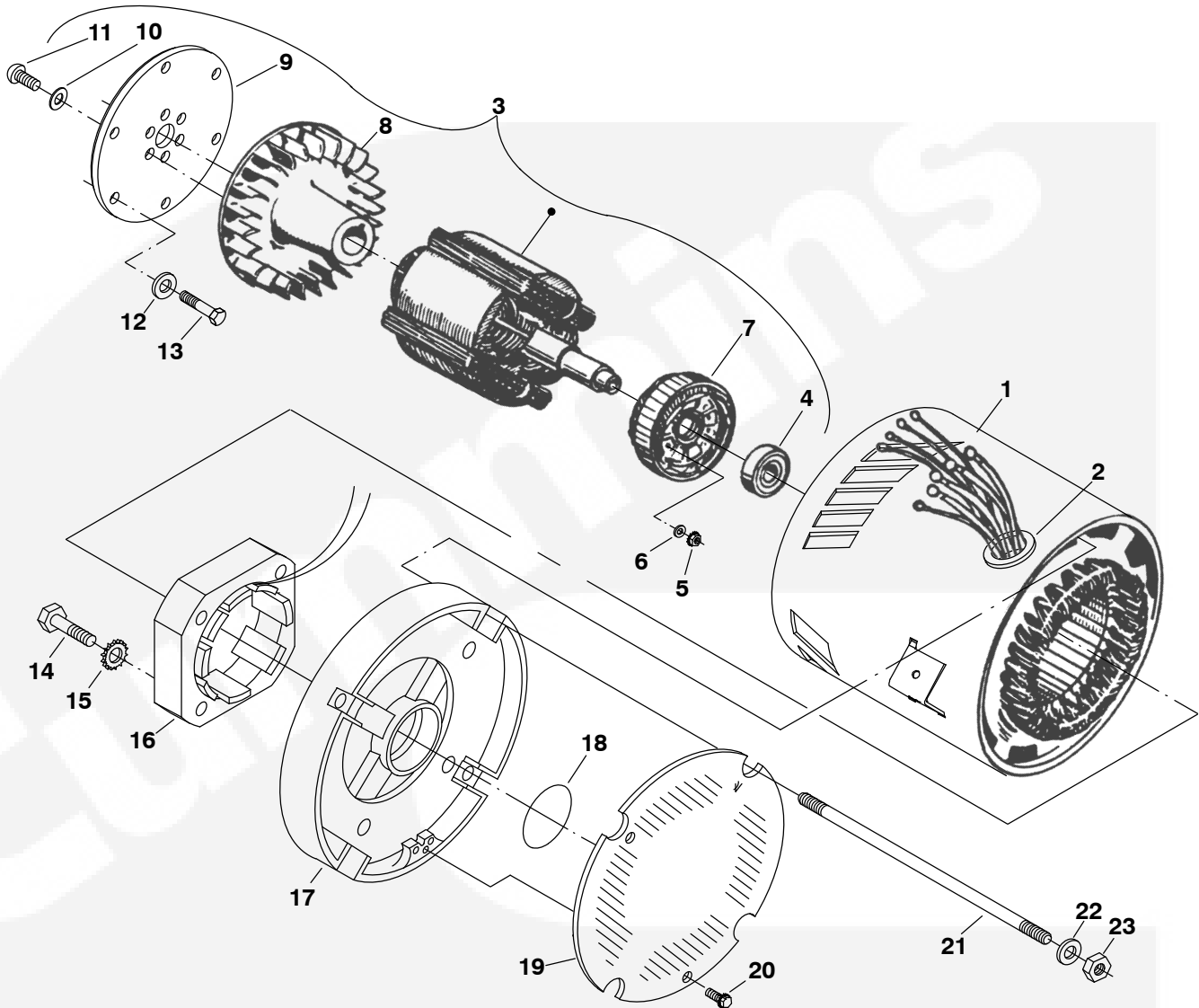
Belt Guard



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	541-0590	1	Kit, Belt Guard
1	130-4870	1	Guard, Belt
2	821-6002-02	6	Screw, Hex Head Sems (M6 x 1 x.12mm)
3	130-4869-03	1	Bracket, Belt Guard Bottom

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	800-3017-02	1	Screw, Hex Head Cap (M6 x 1 x 12mm)
5	850-0114-53	1	Washer, Lock (M6)
6	130-4945-03	1	Bracket, Belt Guard Side
7	130-4847-03	1	Bracket, Belt Guard Top

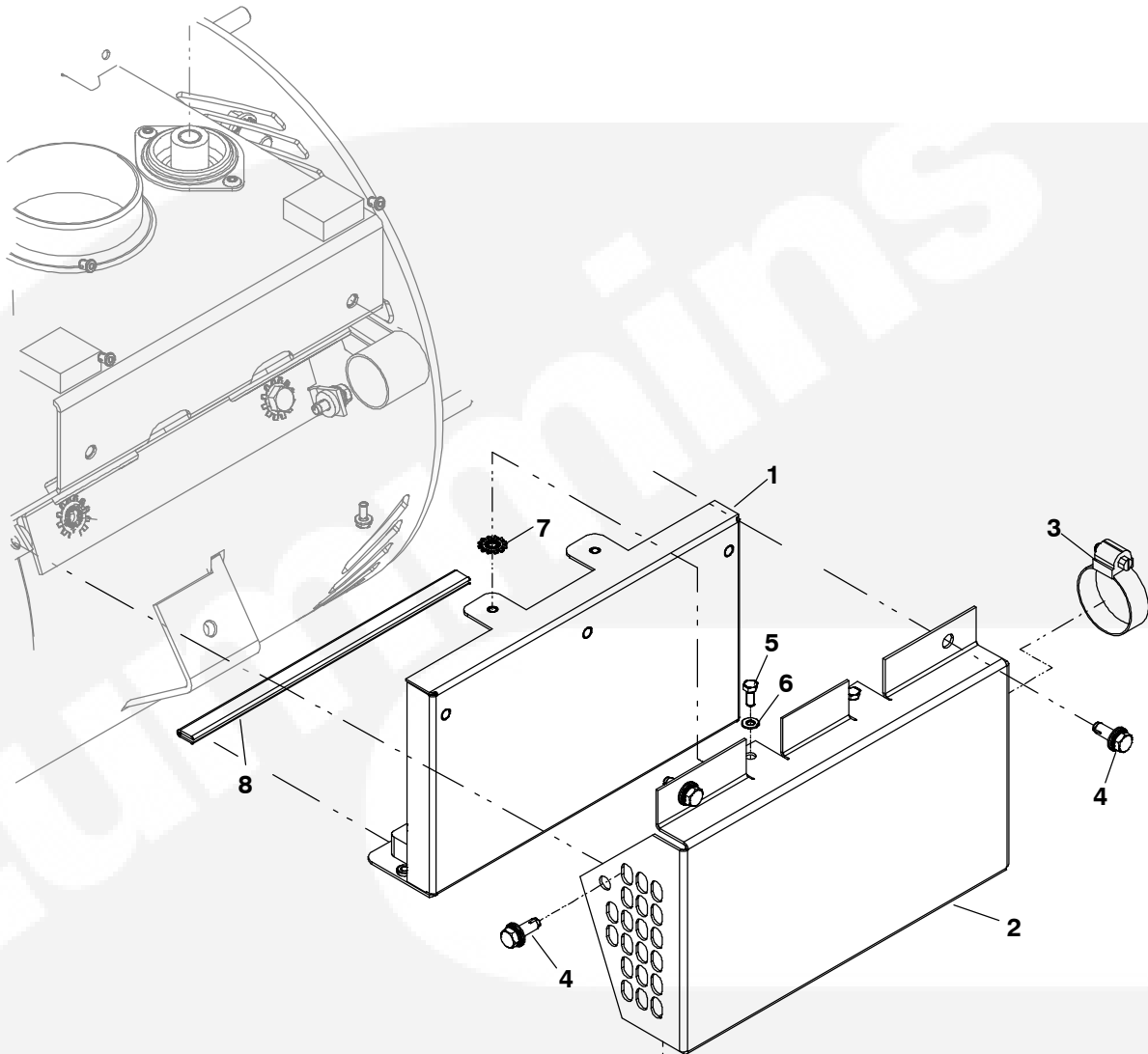
Generator



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Assy, Generator	13	800-2054	6	Screw, Hex Head Cap (M8 x 1.25 x 14mm)
	200-1298-01	1	Spec A-C	14	815-0935	4	Screw, Hex Head Thread Form (1/4")
	200-3239-01	1	Begin Spec D	15	853-0013	4	Washer, Lock ET (1/4")
1	220-4600-01	1	Stator, Generator (Includes Grommet)	16	220-4413-02	1	Stator, Exciter
2	508-0183	1	Grommet	17	211-0435-01	1	Endbell
3	201-3565-01	1	Rotor Assy, Generator (Includes Parts Marked *)	18	509-0094	1	Seal, O'Ring
4	510-0112	1	*Bearing, Ball	19		1	Cover, Endbell
5	870-0131	2	*Nut, ET Hex (#10-32)		234-1016-03	1	Spec A-C
6	526-0399-11	2	*Washer, Flat (#10)		234-1068-03	1	Begin Spec D
7	201-3515-02	1	*Rotor, Exciter	20	821-5000-05	3	Screw, ET Hex Head Thread Cutting (#10-32 x 1/2")
8	205-0255	1	*Fan, Generator	21	520-1002-06	4	Stud
9	232-2826	1	*Disk, Rotor Drive	22	526-0399-42	4	Washer, Flat (.375")
10	526-0399-42	2	*Washer, Flat (3/8")	23	862-0041	4	Nut, Hex (3/8-16")
11	815-0917-04	6	*Screw, Button Head Torx (3/8-16 x 1")				
12	526-0399-41	6	Washer, Flat (.312)				

* - Parts Included in Rotor Assy.

PCB Mounting (Spec A-C)

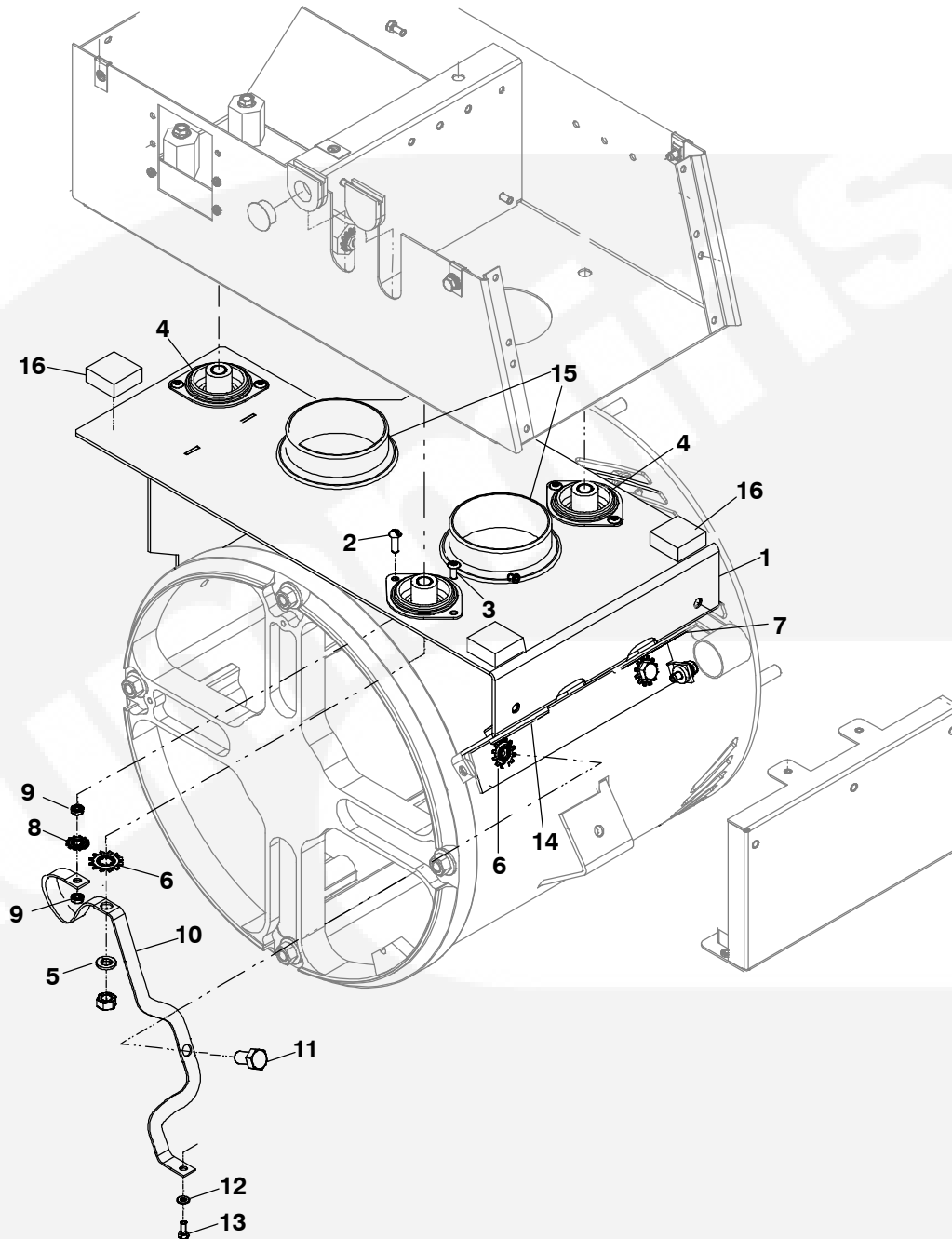


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	300-6396	1	PCB, Control (Preprogrammed)	5	800-3042	4	Screw, Hex Head (M4x 0.7 x 10mm)
2	319-4641-03	1	Cover, Control	6	526-2050	4	Washer, Flat (M4)
3	503-1137	1	Clamp, Hose	7	856-0002	2	Washer, Locking ET(#8)
4	821-6006-01	4	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)	8	508-0210	1	Edging (206mm)

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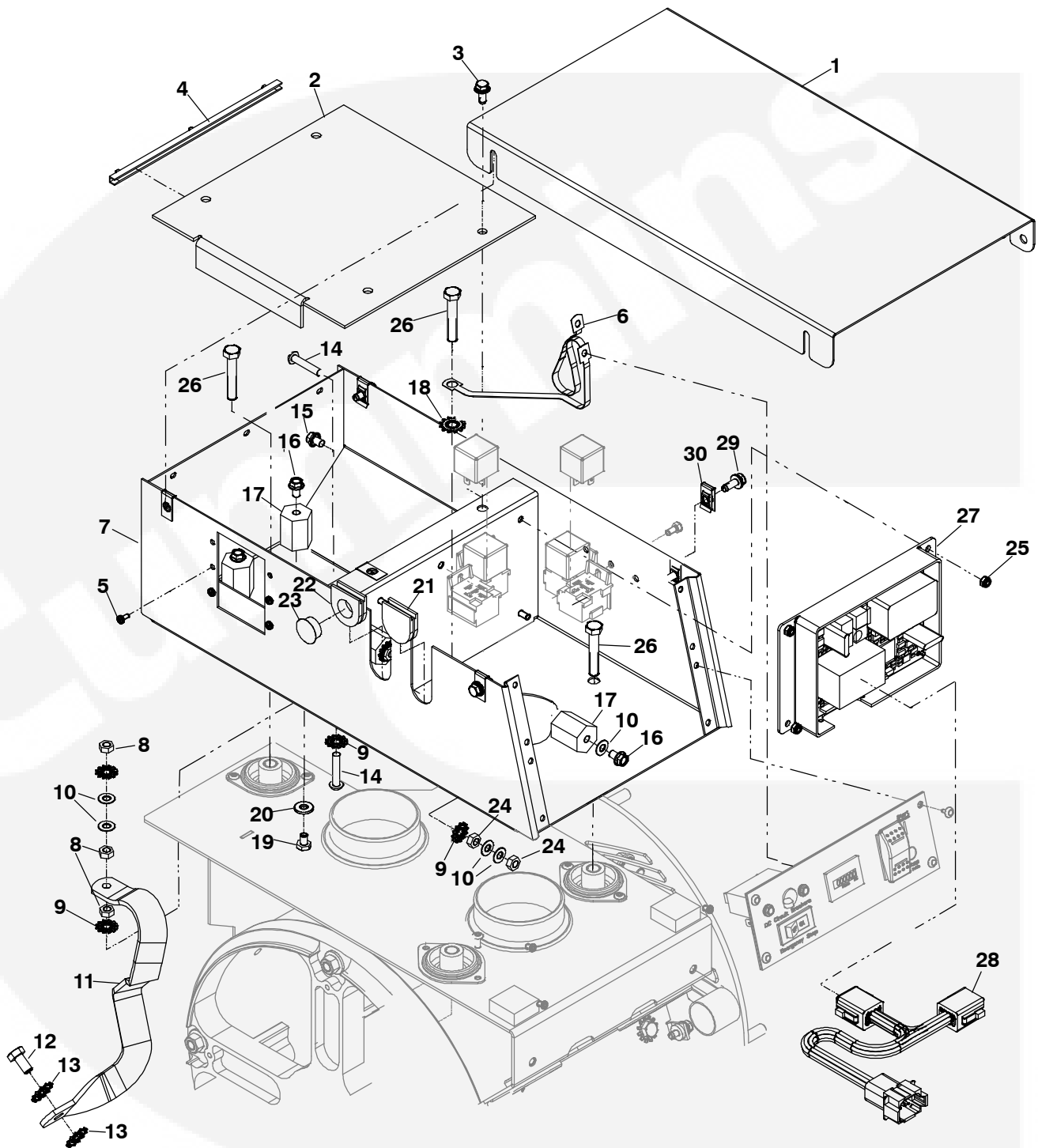


Control Box Mounting (Spec A-C)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	319-4643-03	1	Saddle, Control	10	337-3507	1	Strap, Bond
2	813-0102	1	Screw, Round Head (10-32 x .62")	11	815-0236	4	Screw, Hex Head (5/16-18 x 5/8")
3	818-0231-02	5	Rivet, Pop	12	526-2050	4	Washer, Flat (M4)
4	402-0681	3	Isolator, Vibration	13	800-3042	4	Screw, Hex Head (M4 x 0.7 x 10mm)
5	850-2058	3	Washer Locking Split (M8)	14	508-1102	1	Grommet, Rubber
6	856-0008	6	Washer, ETIT Locking (5/16")	15	508-1152	2	Grommet, Rubber
7	508-0115	1	Grommet, Rubber	16	508-1192	3	Bumper, Control
8	856-0003	1	Washer, ETIT Locking (#10)				
9	870-0131	2	Nut, Sems ET				

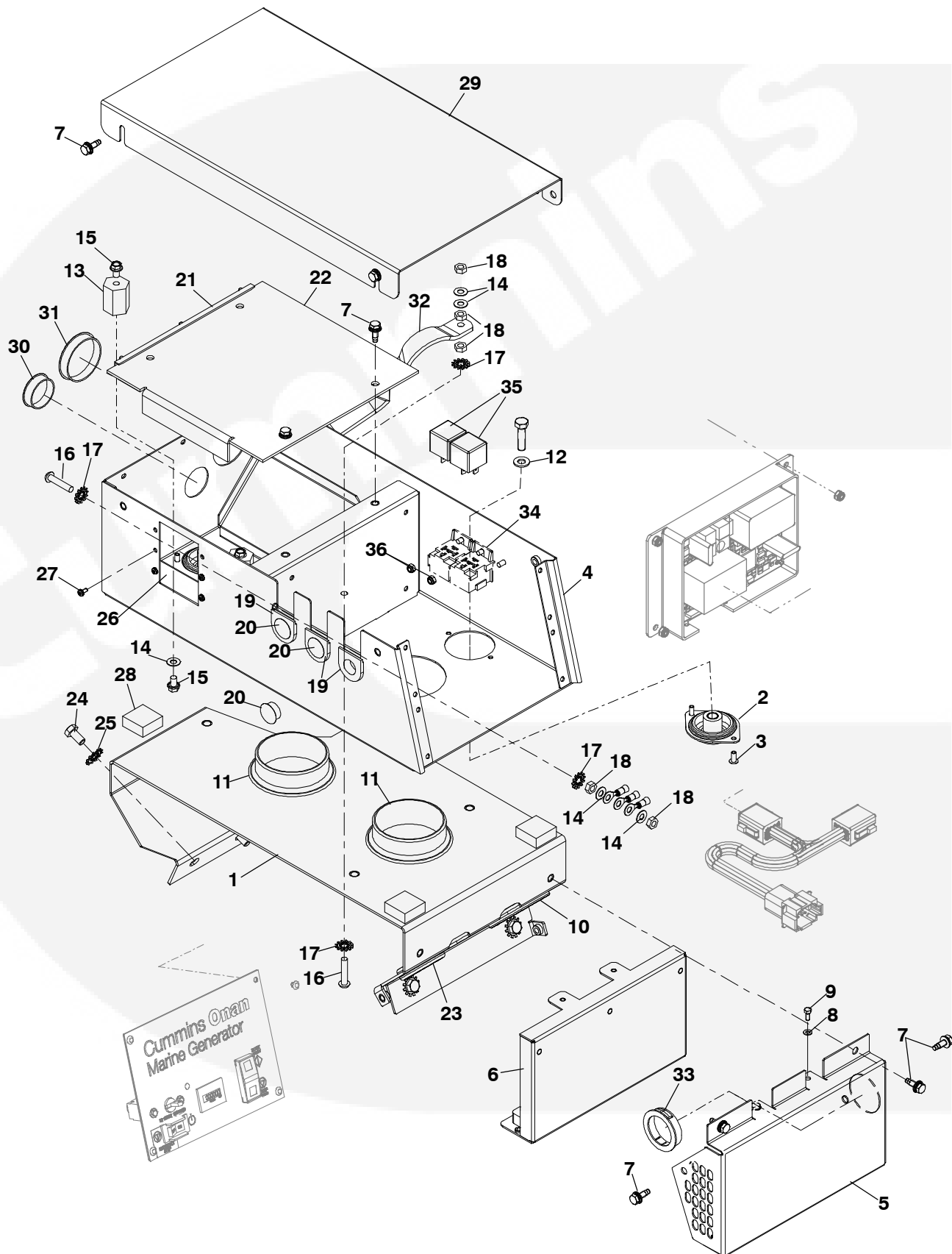
Control Box (Spec A-C)



Control Box (Spec A-C)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	319-4737-03	1	Cover, Control	17			Stand-Off
2	319-4738	1	Cover		332-2370	2	Neg Ground
3	821-6006-01	6	Screw, Hex Head Sems Stainless (M6 x 1.0 x 16mm)		332-2370	3	ISO Ground
4	332-3750	1	Guide, Card	18	856-0008	6	Washer, ET (5/16")
5	815-0550-01	4	Screw, Phillips Head XREC (#6-32 x .31")	19	800-0310-01	2	Screw, Hex Dac
6	337-3508	1	Strap, Bond	20	526-0399-13	2	Nut, Flat
7	319-5501-03	1	Box, Control	21	508-1105-01	1	Grommet, Rubber
8			Nut Hex (.25-20)	22	508-1105	1	Grommet, Rubber
	871-0016	5	Neg Ground	23	517-0136	1	Plug, Hole
	871-0016	3	ISO Ground	24			Nut, Hex Head (.25-20)
9			Washer, ETIT Lock (1/4")		871-0016	5	Neg Ground
	856-0006	6	Neg. Ground		871-0016	3	ISO Ground
	856-0006	5	ISO Ground	25	870-2062	4	Nut, Nylon (M5)
10			Washer, Flat (5/16")	26	800-6062	3	Screw, Hex Head Cap (M8 X 1.25 X 45MM)
	526-0052	4	Neg Ground	27			PCB (NIM)
	526-0052	3	ISO Ground		327-1659-01	1	J1939
11	337-2795	1	Strap, Bond		327-1659-02	1	* SmartCraft
12	800-3017-18	1	Screw, Hex Head Sems (M8 x 1.25 x 16mm)	28	338-4491	1	Harness, Accessory (NIM)
13	853-0016	2	Washer, ET (5/16)	29	821-6006-01	5	Screw, Hex Head Sems Stainless (M10 x 1.0 x 16mm)
14			Screw, Round Head (.25-20UMC x 1.25)	30	870-2228	6	Clip, Nut
	810-0155	2	Neg Ground	31	-	1	Kit, Control (See Controls Panel Components)
	810-0155	1	ISO Ground				
15	821-0008	1	Screw, Lock Head Iso Ground (1/4-20UMC x3/8)				
16			Screw, Lock Head (1/4-20UMC x3/8)				
	821-0009	2	Neg Ground				
	821-0009	3	ISO Ground				

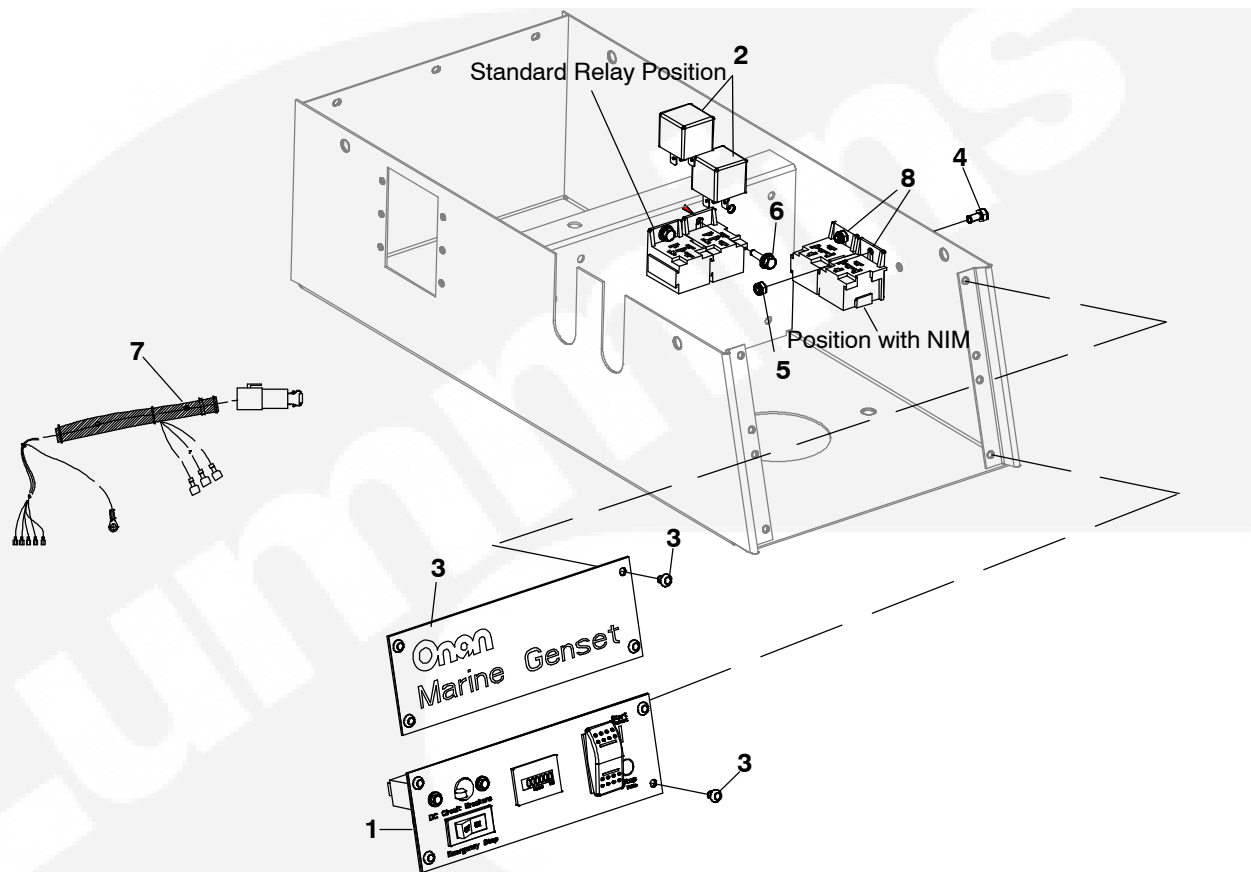
Control Box (Begin Spec D)



Control Box (Begin Spec D)

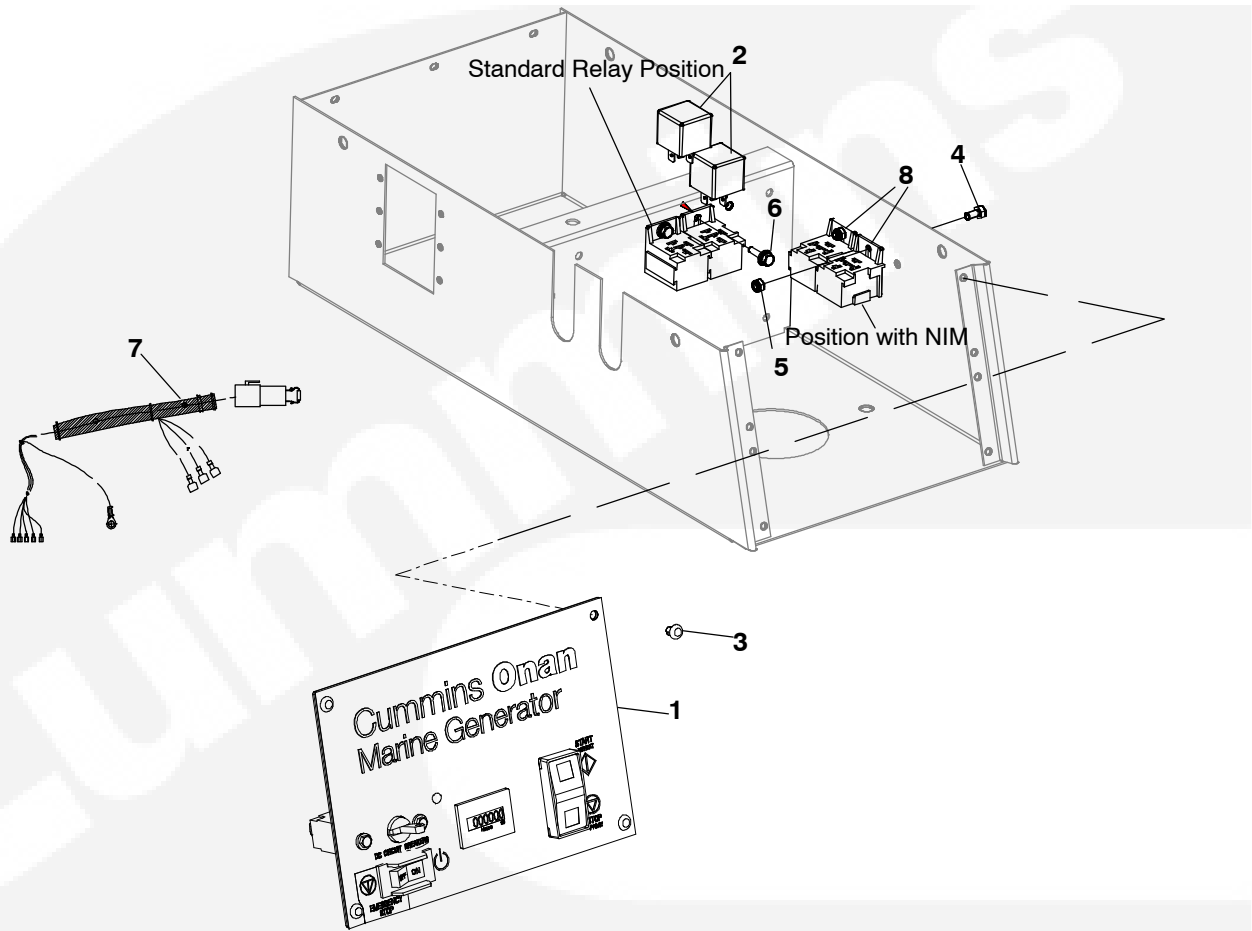
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	319-6795-03	1	Saddle, Control Box	17	856-0006	5	Washer, ET Locking (1/4")
2	402-0681	3	Isolator, Vibration	18	871-0016	5	Nut, Hex (.25-20UNC)
3	818-0231-02	6	Rivet, Pop	19	508-1105	3	Grommet, Remote
4	319-6792-03	1	Box, Control	20	517-0136	3	Plug, Hole
5	319-6793-03	1	Cover, Control	21	332-3750	1	Guide, Card
6	300-6396	1	PBC, Control	22	319-4738	1	Cover, Box
7	800-6395-01	10	Screw, Hex Head Sems (M6 x 1.0 x 16mm)	23	508-1126	1	Grommet
8	526-2050	4	Washer, Flat (M4)	24	815-0236	4	Screw, Hex Head Thread (5/16-18 x 5/8")
9	800-3042	4	Screw, Hex Head Cap (M4 x 0.7 x 10mm)	25	856-0008	4	Washer, ETIT Locking (5/16")
10	508-0115	1	Grommet, Rubber	26	320-1813-02	1	Plate, Cover
11	508-1152	2	Grommet, Rubber	27	815-0550-03	4	Screw, XREC Pan Head (#6-32 x .375)
12	526-2100	3	Washer, Flat (M8)	28	508-1192	3	Bumper
13			Standoff, Insulator	29	319-6794-03	1	Cover, Control
	332-2370	2	Neg Ground	30	517-0138-05	1	Plug, Hole
	332-2370	3	ISO Ground	31	517-0138-08	1	Plug, Hole
14			Washer, Flat (6.75ID x 14.30 x .8mm)	32	337-2795	1	Strap, Bond
	526-0052	6	Neg Ground	33	508-1290	4	Bushing (Nylon)
	526-0052	8	ISO Ground	34	323-1563	1	Contact, Relay (5 Pin)
15			Screw, Lock Head (1/4-20UMC x3/8)	35			Relay, SPDT
	821-0009	4	Neg Ground		307-2767	2	12V
	821-0009	6	ISO Ground		307-2819	2	24V
16	810-0155	2	Screw, Round Head (1/4-20UMC x3/8)	36	870-2062	2	Nut, Nylon Locking (M5)

Control Panel Components (Spec A-C)



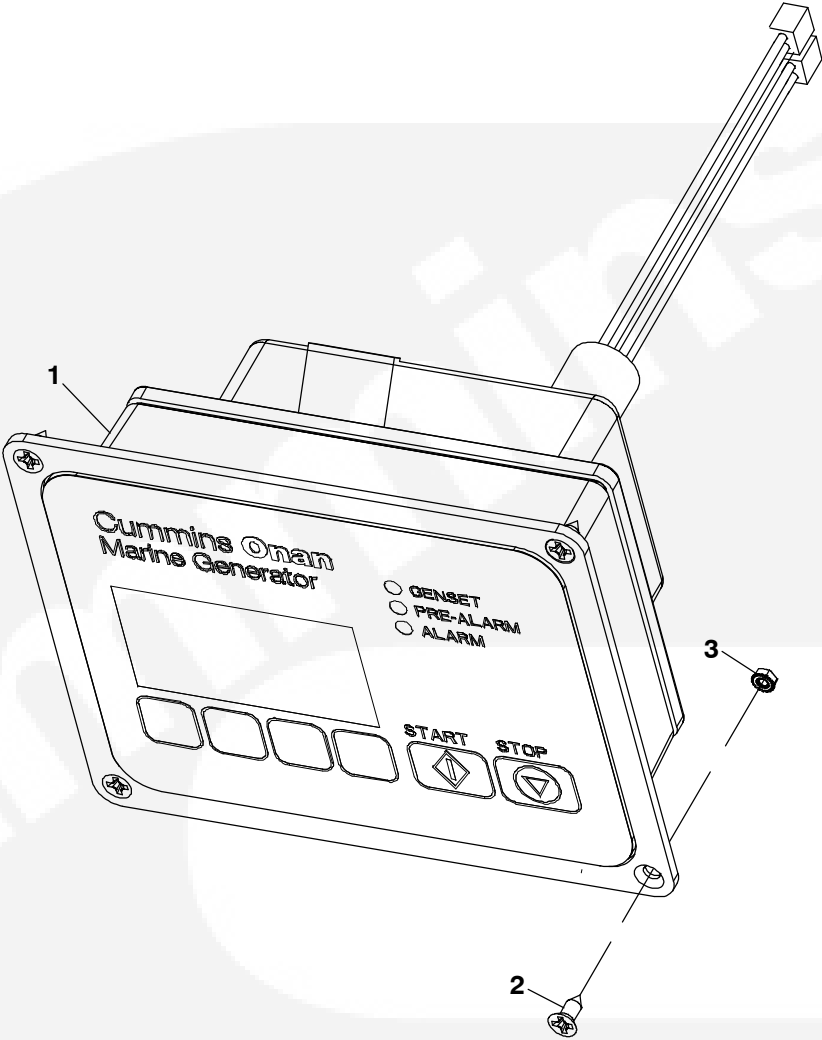
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Assy Panel, Engine (See Control Panel for Parts)	7	821-6001-03	4	Screw, Hex Head Sems (M5 x .8 x 16mm) (eSDD Non NIM Mounting)
	300-5476-05	1	12V	8	338-4414	1	Harness, Control NIM Mounting
	300-5476-06	1	24V		338-4213	1	Non-NIM Mounting
2			Relay, SPDT	9	-	2	Socket, Relay (See Control Harness)
	307-2767	2	12V	10			Breakers, Circuit
	307-2819	2	24V		320-1689-06	1	40Amp
3	300-5474-S0	1	Assy Panel, Blank (eSDD)		320-1690-12	1	75Amp
4	818-1150-03	8	Rivet, Drive Plastic (eSDD)				
5	800-6002	2	Screw, Hex Head Cap (M5 x .8 x 10mm) (NIM Mounting)				
6	870-2062	2	Nut, Nylon Lock (M5) (NIM Mounting)				

Control Panel Components (Begin Spec D)



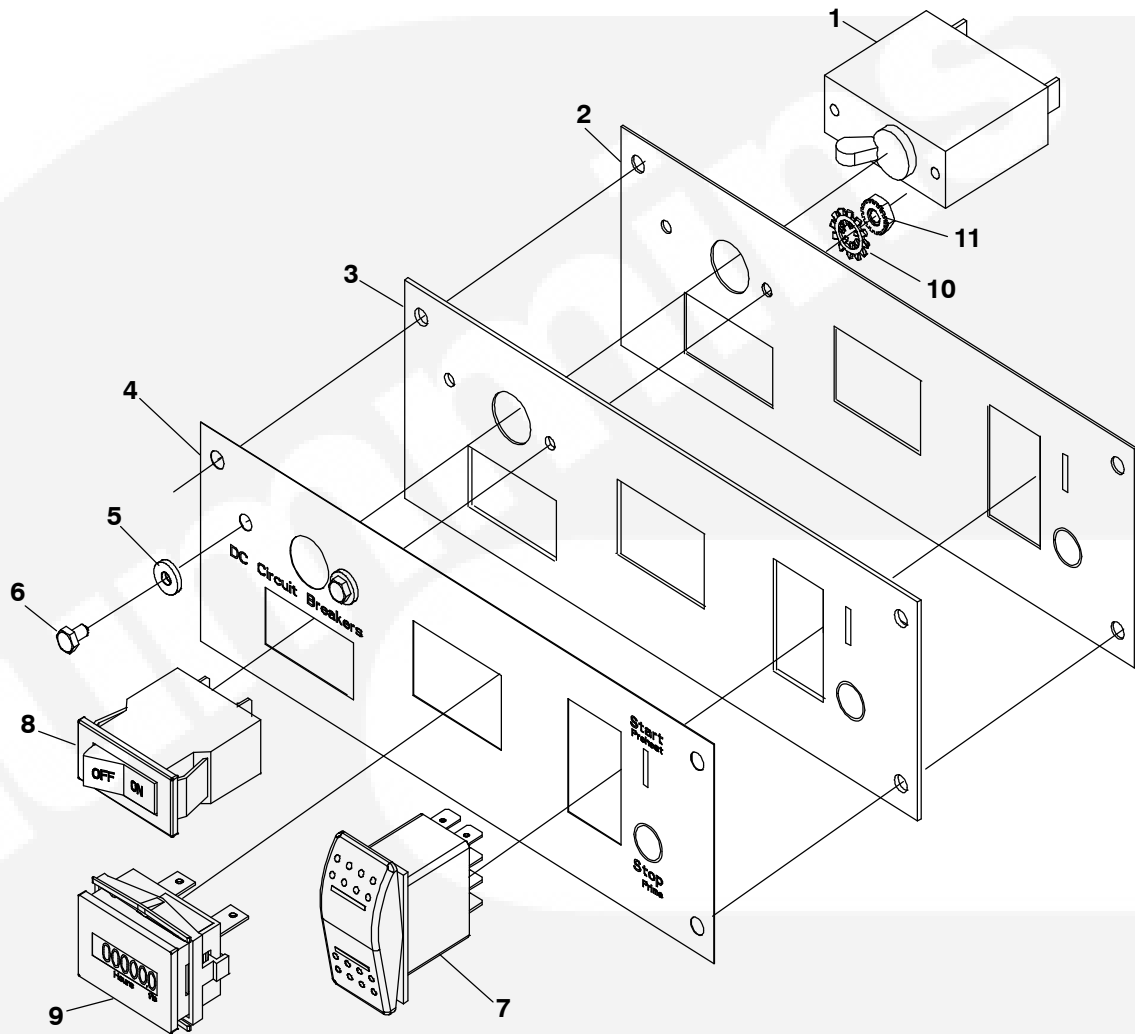
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Assy Panel, Engine (See Control Panel for Parts)	6	821-6001-03	4	Screw, Hex Head Sems (M5 x .8 x 16mm) (eSDD Non NIM Mounting)
	300-6362-01	1	12V	7			Harness, Control
	300-6362-02	1	24V		338-4414	1	NIM Mounting
2			Relay, SPDT		338-4213	1	Non-NIM Mounting
	307-2767	2	12V	8	-	2	Socket, Relay (See Control Harness)
	307-2819	2	24V	9			Breakers, Circuit (Not Shown)
3	818-1150-03	8	Rivet, Drive Plastic (eSDD)		320-1689-06	1	40Amp
4	800-6002	2	Screw, Hex Head Cap (M5 x .8 x 10mm) (NIM Mounting)		320-1690-12	1	75Amp
5	870-2062	2	Nut, Nylon Lock (M5) (NIM Mounting)				

Control Panel Components



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	541-1130	1	Kit, Control (Includes Instructions)	3	860-2028	4	Nut, Hex (6-32 Low Proof Lock)
1	300-6393	1	Assy Control	* - All Parts Included in Control Kit.			
2	814-2152-01	4	Screw, Flat Head Xrec				

Control Panel (Spec A-C)

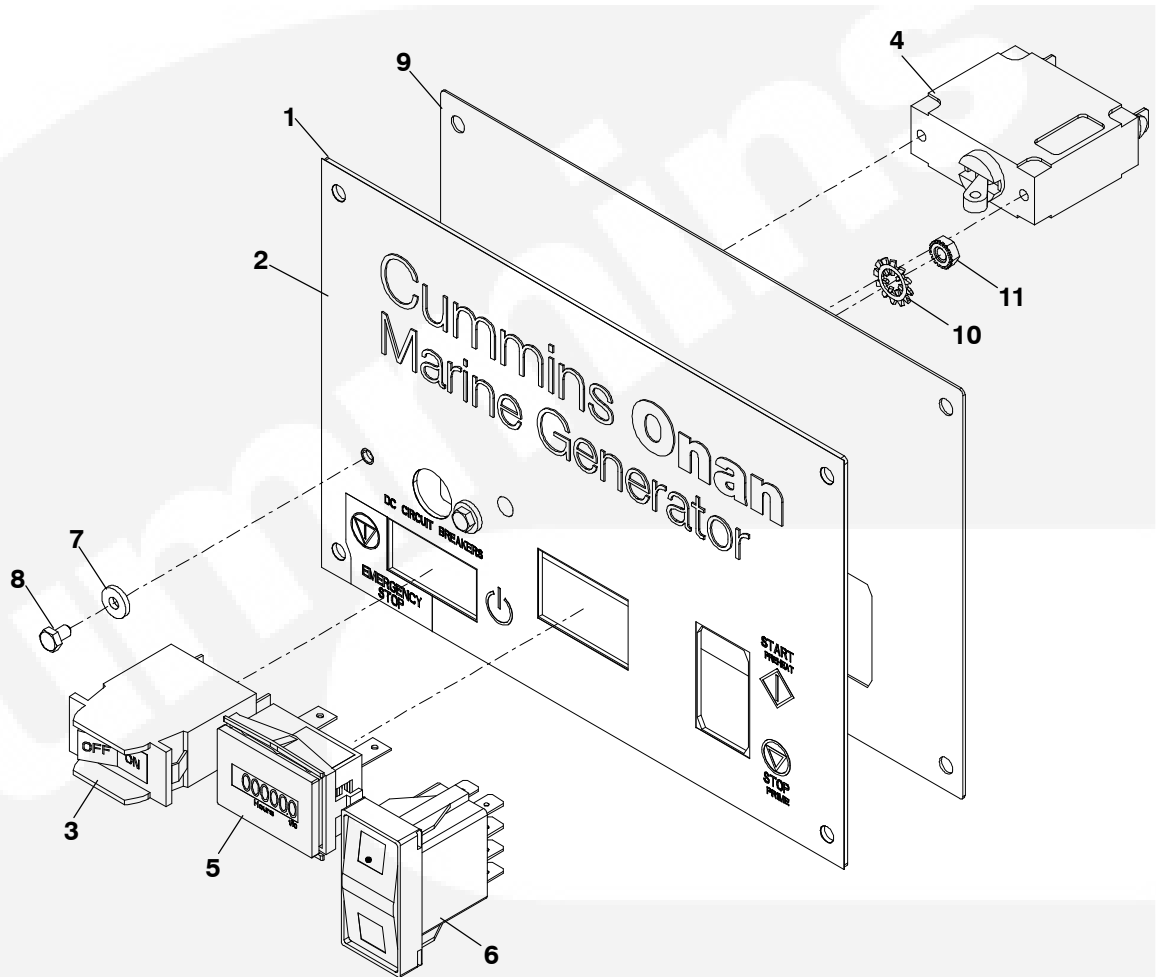


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Assy Panel, Engine (All Parts Included)
	300-5476-05	1	12V
	300-5476-06	1	24V
1	320-1862-01	1	Breaker, Circuit (50 Amp)
2	319-4467-02	1	Panel, Control (Ground)
3	319-4368-06	1	Panel, Control
4	98-7781	1	Label, Control
5	526-0399-05	2	Washer, Flat (#6)
6	800-0309-10	2	Screw, Hex Head (6-32 x 1/4")

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7			Switch, Rocker SPDT
	308-1102	1	24VDC
	308-1101	1	12VDC
8	320-1140	1	Breaker, Circuit (15 Amp)
9	302-2048	1	Meter, Hour
10	856-0003	1	Washer, EIT Lock (#10)
11	870-0131	1	Nut, Sems EIT

* - See Control Box for Location.

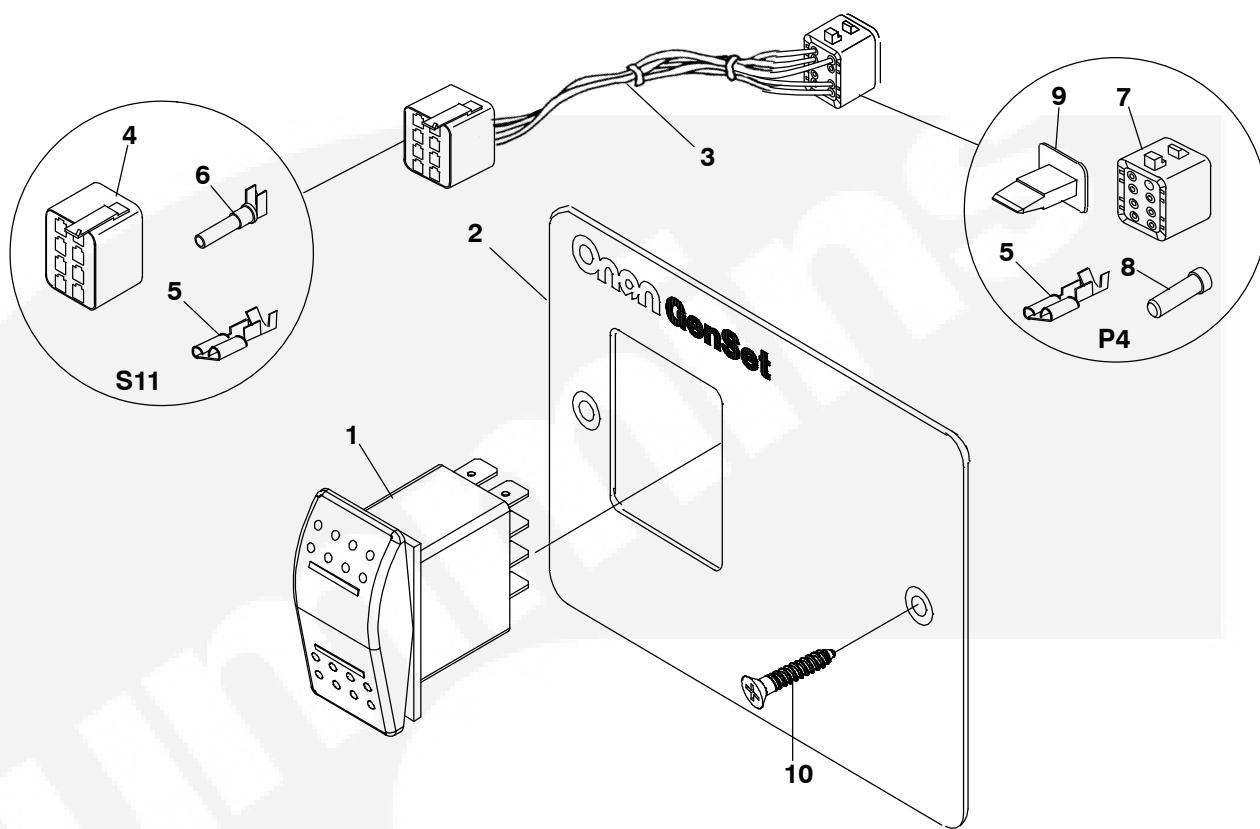
Control Panel (Begin Spec D)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Assy Panel, Engine (All Parts Included)	7	526-0399-05	2	Washer, Flat DAC IN
	300-6362-01	1	12V	8	800-0309-10	2	Screw, Hex Head Machine (6-32 x 1/4")
	300-6362-02	1	24V	9	319-6873	1	Panel, Control Box (GND)
1	319-6871-02	1	Panel, Control Box	10	853-0003	1	Washer, EIT Lock (#10)
2	98-8713	1	Label, Control	11	870-0131	1	Nut, Sems EIT
3	320-2361	1	Circuit, Breaker				
4	320-2362	1	Circuit, Breaker				
5	302-2048	1	Meter, Hour				
6			Switch, Rocker SPDT				
	308-1219	1	24VDC				
	308-1218	1	12VDC				

* - See Control Box for Location.

Remote Control Panel



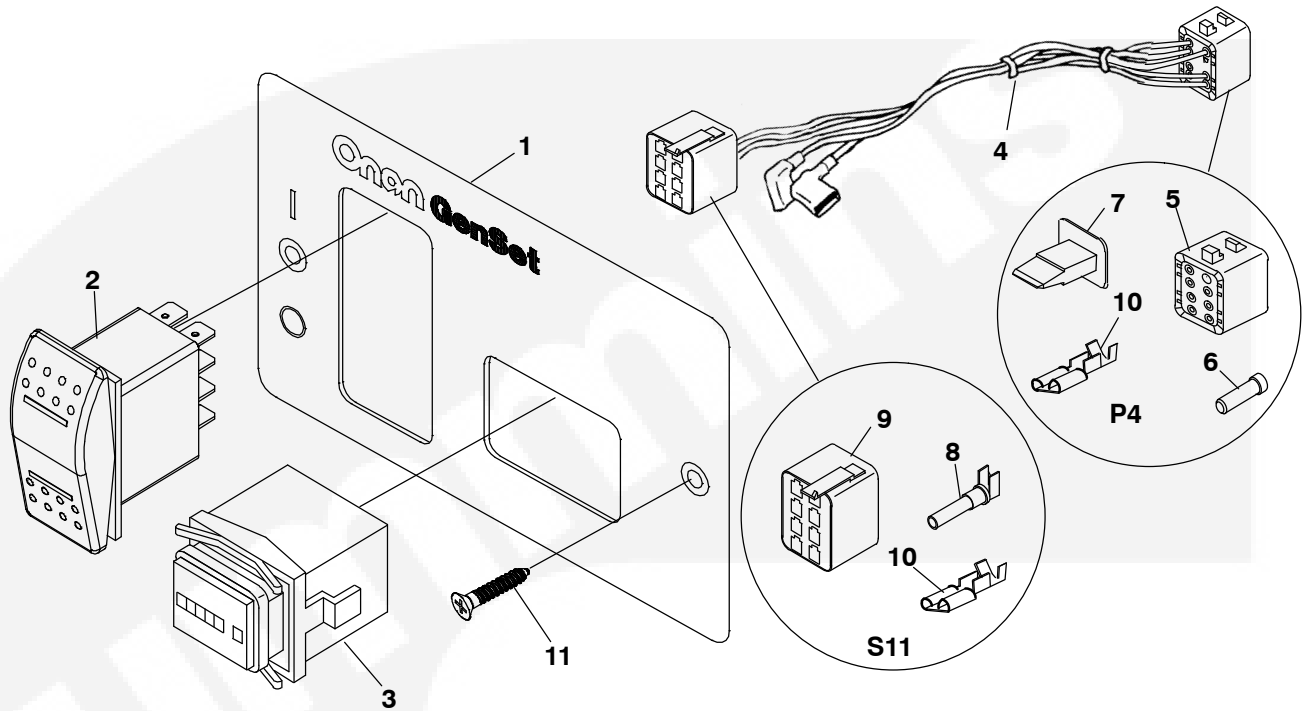
REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Remote Switch Harness (Includes Parts Marked +)
	541-0941-01	1	12V
	541-0941-02	1	24V
			Kit, Panel Remote (Includes Parts Marked #)
	300-5725-01	1	12V
	300-5725-02	1	24V
1			#+ Switch, Rocker (S11)
	308-1101	1	12V
	308-1102	1	24V
2	319-6990	1	# Panel, Remote (Includes Printing)
3	338-3988	1	#+ Harness, Remote Panel (Includes Parts Marked *)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
4	308-1019	1	*Connector, Switch (S11)
5	332-2890	6	*Terminal, Receptacle (.25")
6	323-1492	6	*Terminal, Socket
7	323-1541	1	*Plug, (8 Pin)
8	323-1491	3	*Plug, Seal
9	323-1543	1	*Wedge, Plug (8 Pin)
10	815-0910	2	#Screw, Wood (#6 x 1)
11	98-8092	1	+ Label, Instructions
12	98-8081	1	#+ Label, Warning

- Parts Included in Remote Panel.

+ - Parts Included in Remote Switch Harness. Instructions included in Kits only.

Remote Switch Panel w/Hour Meter

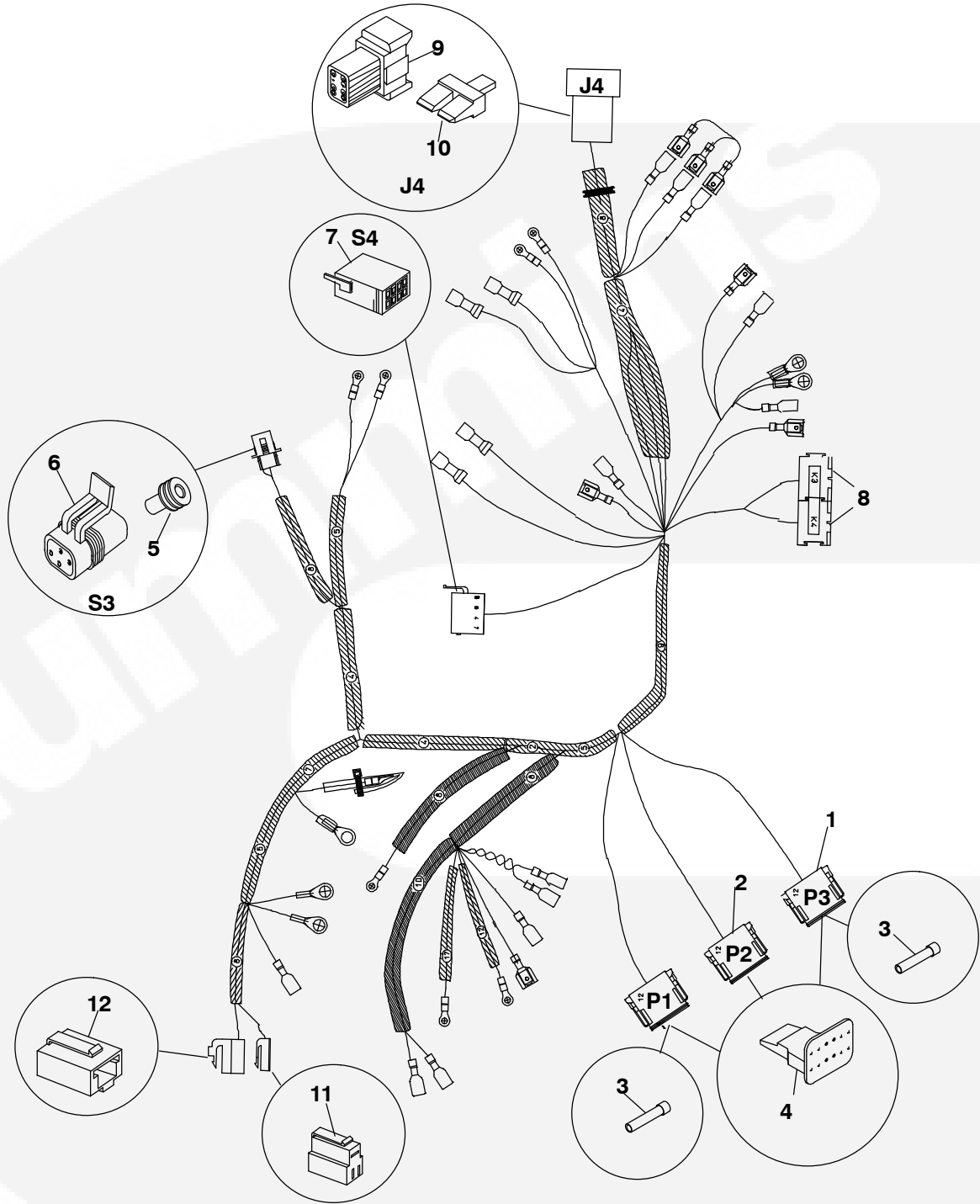


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
			Kit, Panel, Remote (Includes Instructions)
	300-5727-01	1	12V
	300-5727-02	1	24V
1	319-6992	1	Panel, Remote Printed
2			Switch, Rocker (S11)
	308-1101	1	12V
	308-1102	1	24V
3	302-2048	1	Meter, Hour (M11)
4	338-3990	1	Harness, Remote Panel (Includes Parts Marked *)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
5	323-1541	1	*Plug (8 Pin) (P4)
6	323-1591	2	*Plug, Seal
7	323-1543	1	*Wedge, Plug (8 Pin)
8	323-1492	6	*Pin, Contact
9	308-1019	1	*Connector, Switch (S11)
10	332-2890	6	*Terminal, Receptacle (.25")
11	815-0910	2	Screw, Wood (#6 x 1)
12	98-8081	1	Label, Panel (Remote)

* - Parts Included in Remote Panel Wiring Harness.

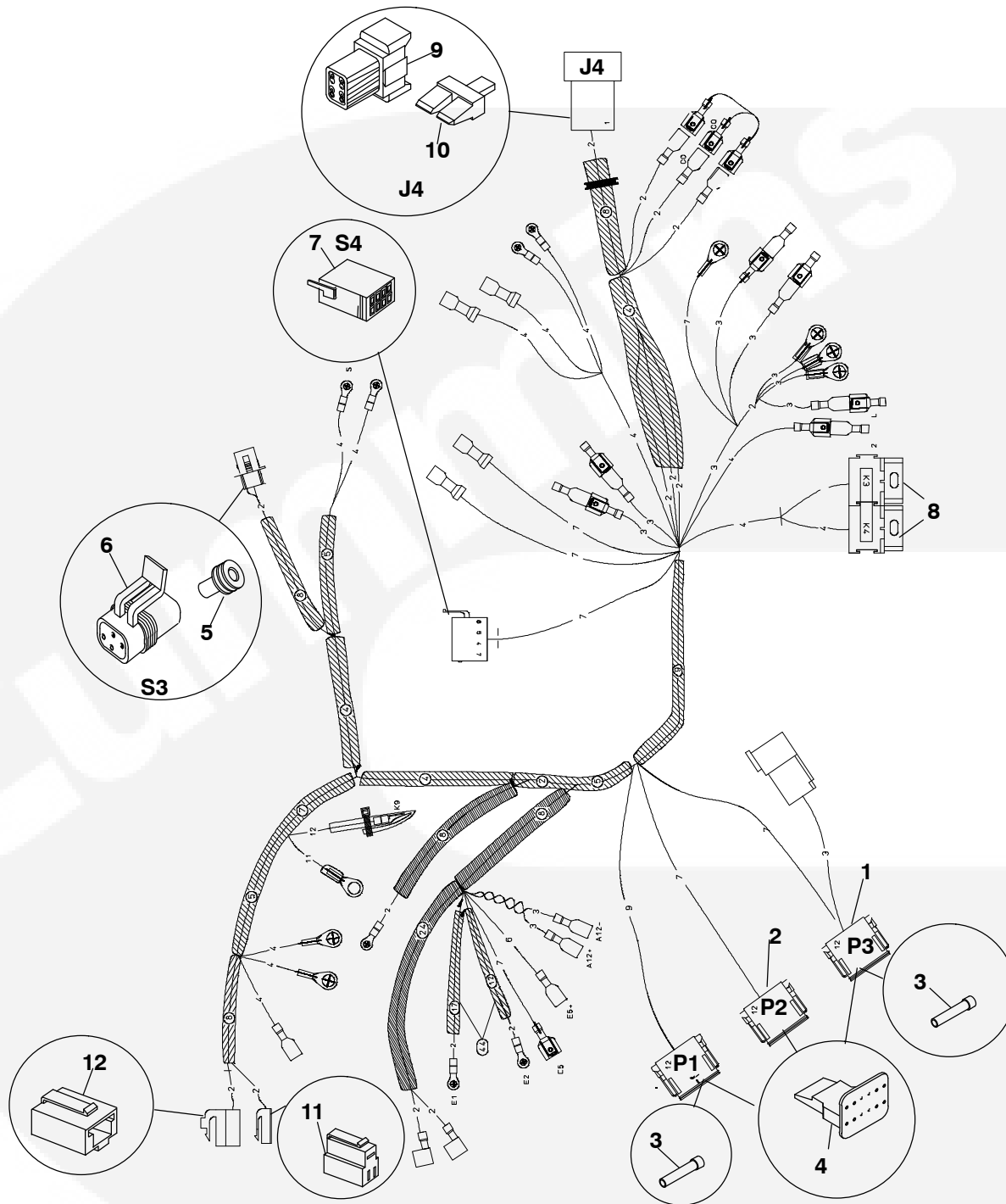
Control Harness (Spec A-C)



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	338-4396	1	Harness, Control
1	323-1582-05	1	Plug (12 Pin, Gray P2)
2	323-1582-07	1	Plug (12 Pin, Green P3)
3	323-1591	AR	Plug (P1, P3)
4	323-1583	3	Plug, Wedge 12 Pin
5	323-1708	AR	Seal,Cable(S3)
6	323-1765	1	Connector, Housing 4 Pin (S3)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
7	308-1019	1	Switch, Connector (S4)
8	323-1563	1	Socket, Relay
9	323-1542	1	Connector, Receptacle 8 Pin
10	323-1544	1	Receptacle, Wedge(J4)
11	323-1791	1	Connector, Plus 1 Pos
12	323-1792	1	Connector, Plus 3 Pos

Control Harness (Begin Spec D)

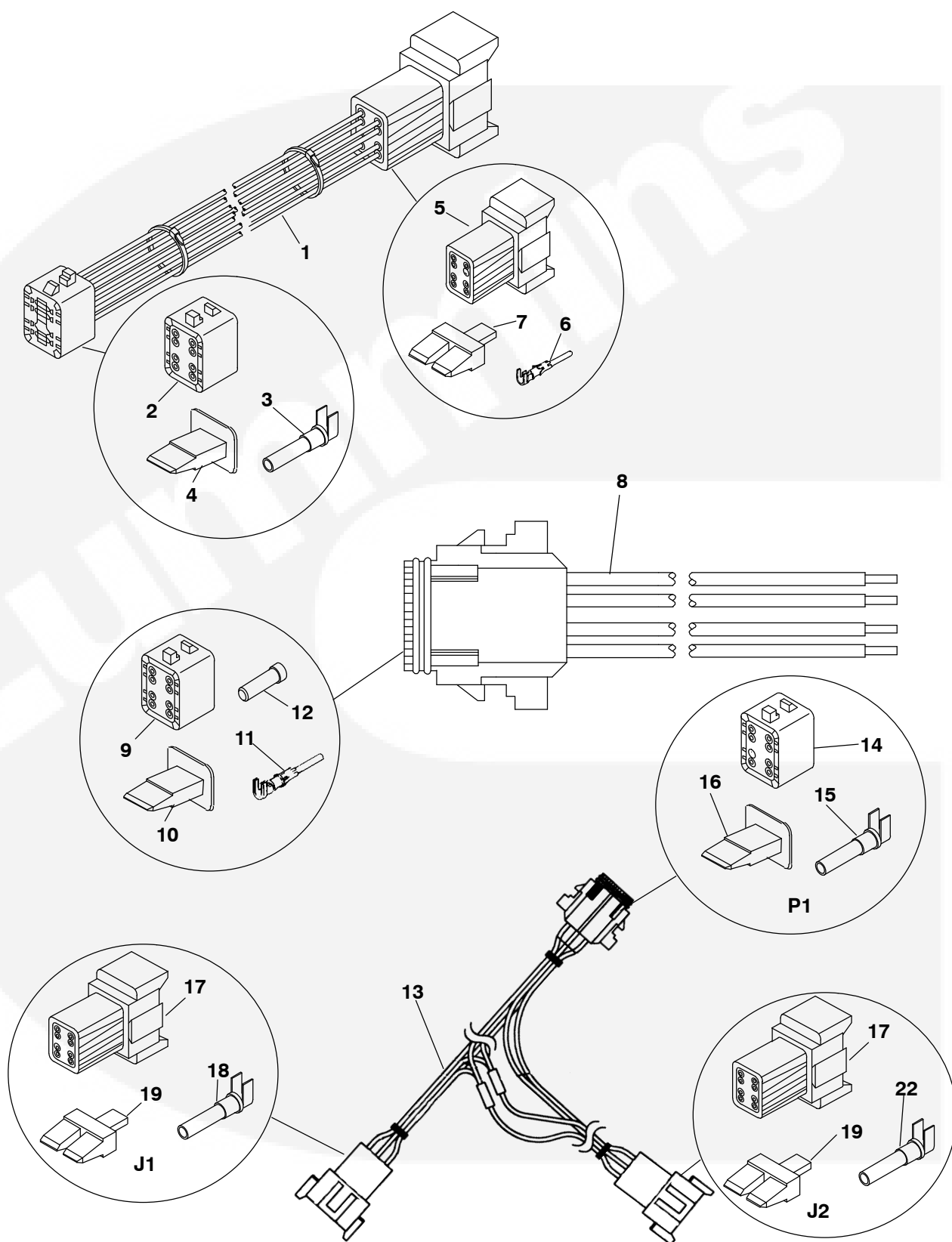


REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
	338-4953	1	Harness, Control	7	308-1019	1	Switch, Connector (S4)
1	323-1582-05	1	Plug (12 Pin, Gray P2)	8	323-1563	1	Socket, Relay
2	323-1582-07	1	Plug (12 Pin, Green P3)	9	323-1542	1	Connector, Receptacle 8 Pin
3	323-1591	AR	Plug (P1, P3)	10	323-1544	1	Receptacle, Wedge(J4)
4	323-1583	3	Plug, Wedge 12 Pin	11	323-1791	1	Connector, Plus 1 Pos
5	323-1708	AR	Seal,Cable(S3)	12	323-1792	1	Connector, Plus 3 Pos
6	323-1765	1	Connector, Housing 4 Pin (S3)				

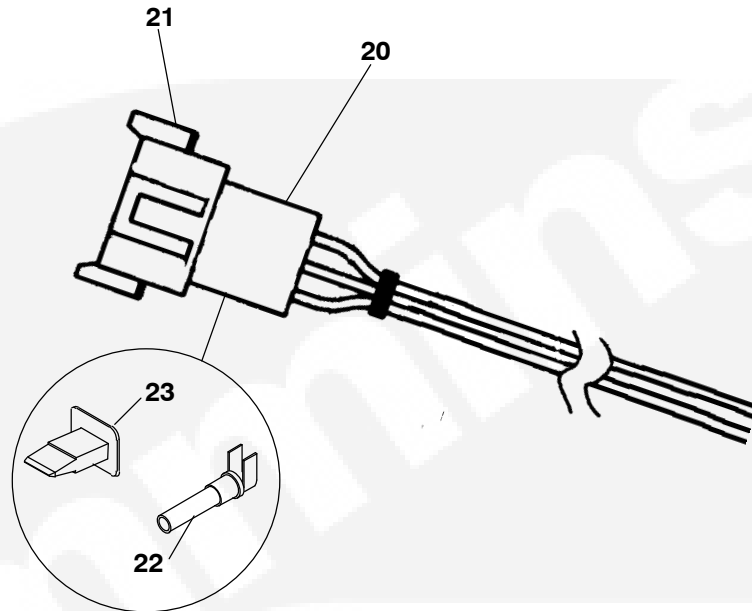
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Wiring Harnesses



Wiring Harnessers



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1			Harness, Remote Extension (Includes Parts Marked #)
	338-3167	1	15 feet
	338-3168	1	25 feet
	338-3169	1	45 feet
	338-3169-01	1	75 feet
	338-3169-02	1	100 feet
	338-3169-03	1	150 feet
2	323-1541	1	# Plug (8 Pin)
3	323-1492	8	# Terminal, Socket
4	323-1543	1	# Wedge, Plug (8 Pin)
5	323-1542	1	# Receptacle, (8 Pin)
6	323-1491	8	# Terminal, Pin
7	323-1544	1	# Wedge, Receptacle (8 Pin)
8	338-4223	1	Harness, Remote Panel
9	323-1541	1	Plug (8 Pin)
10	323-1543	1	Wedge, Plug (8Pin)
11	323-1492	AR	Terminal, Socket
12	323-1591	AR	Plug, Seal
13	338-4016	1	Harness, Junction (Includes Parts Marked +)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	323-1541	1	±° Plug, Connector (8 Pin)
15	323-1492	AR	±° Terminal, Socket
16	323-1543	1	±° Wedge, Plug (8 Pin)
17	323-1542	2	+ Connector, Receptacle (8 Pin)
18	323-1491	AR	@ Terminal, Pin
19	323-1544	2	+ Wedge, Lock, Receptacle (8 Pin)
20	338-4017	1	Harness, Pigtail (Includes Parts Marked @)
21	323-1542	1	@ Connector, Receptacle (8 Pin)
22	323-1491	AR	+ Terminal, Pin
23	323-1544	2	@ Wedge, Lock (8 Pin)

- Parts Included in Remote Extension Harness.
 * - Parts Included in Custom Pigtail Harness.
 ° - Parts Included in Adapter Harness.
 .+ - Parts Included in Junction Harness.
 .@ - Parts Included in Pigtail Harness.

Labels, Gasket, Kits

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
98-8715	2		Label, Logo (Cummins C)	185-5337	4		Gasket, Nozzle Holder
98-8717	1		Label, Logo (Cummins Onan C)	185-5478	1		Gasket, Oil Pan
98-7476	1		Label, Fuel (Attachment)	185-5641	4		Gasket, Delivery Valve
98-8687	1		Label, Information (Included on Sheet only Marked *)	185-5643	4		Seal, O'Ring
98-8603	1		*Label, Information	185-5646	8		Seal, O'Ring
98-8688	1		*Label, Information				Gasket, Cylinder Head
98-8599	1		*Label, Warning	185-5661	2		Gasket
98-8594	1		*Label, Warning	185-5663	1		Gasket
98-8590	1		*Label, Danger	185-5691	1		Seal, O'Ring
98-8567	1		*Label, Warning (Coolant)	185-5743	1		Seal, O'Ring
98-8597	1		*Label, Information(Ground)	185-5869	2		Seal, O'Ring
100-3478-02	1		Kit, Cruise Includes All Items Marked +	185-6004	1		Gasket, Thermostat
130-4434	2		+Pencil, Zinc	185-6494	1		Seal, Oil
541-1519	2		+Kit, Impeller	185-6498	2		Gasket, Valve Cover
A026K278	2		+Filter, Fuel	185-6510	1		Seal, Oil
185-6934	1		+Belt	185-6511	1		Gasket, Bearing Case Cover
185-5835	2		+Filter, Oil	185-6545	1		Seal, O'Ring
417-0223	1		Box, Cruise Kits	185-6579	1		Gasket, Pump Cover
185-2095	1		Seal, O'Ring	185-6580	1		Gasket, Fuel Pump
185-2284	5		Seal, O'Ring	185-6603	1		Gasket, Shaft Cover
185-2291	4		Gasket	185-6701	1		Gasket, Intake Manifold
185-2338	1		Seal, O'Ring	185-6853	1		Gasket, Exhaust
185-2349	2		Gasket, Oil Fill Plug	185-6854	2		Gasket, Exhaust Manifold
185-2461	1		Seal, Oil	185-6863	1		Gasket, Gearcase
185-3078	1		Seal, O'Ring	185-6869	1		Gasket, Bearing Case
185-3080	2		Seal, O'Ring	185-6894	1		Gasket, Control Plate
				185-6922	11		Gasket, Water Flange
				185-7299	1		Gasket, Water Pump

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