



Parts Manual

Cummins **Onan**

Performance you rely on.™



Generator Set

MKY (Spec A-K)

MODEL IDENTIFICATION

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

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



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



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



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

PRODUCT SAFETY PRECAUTIONS



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



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



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



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

Introduction

This parts manual 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. 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

<u>Model</u>	<u>Hertz</u>	<u>Wiring Diagram</u>
3.6MKY-FR/*	50	611-1226 (Spec H) 611-1268-05 (Spec J)
4.0MKY-FA/*	60	611-1225 (Spec H) 611-1267 (Spec J)

* – 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 a standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

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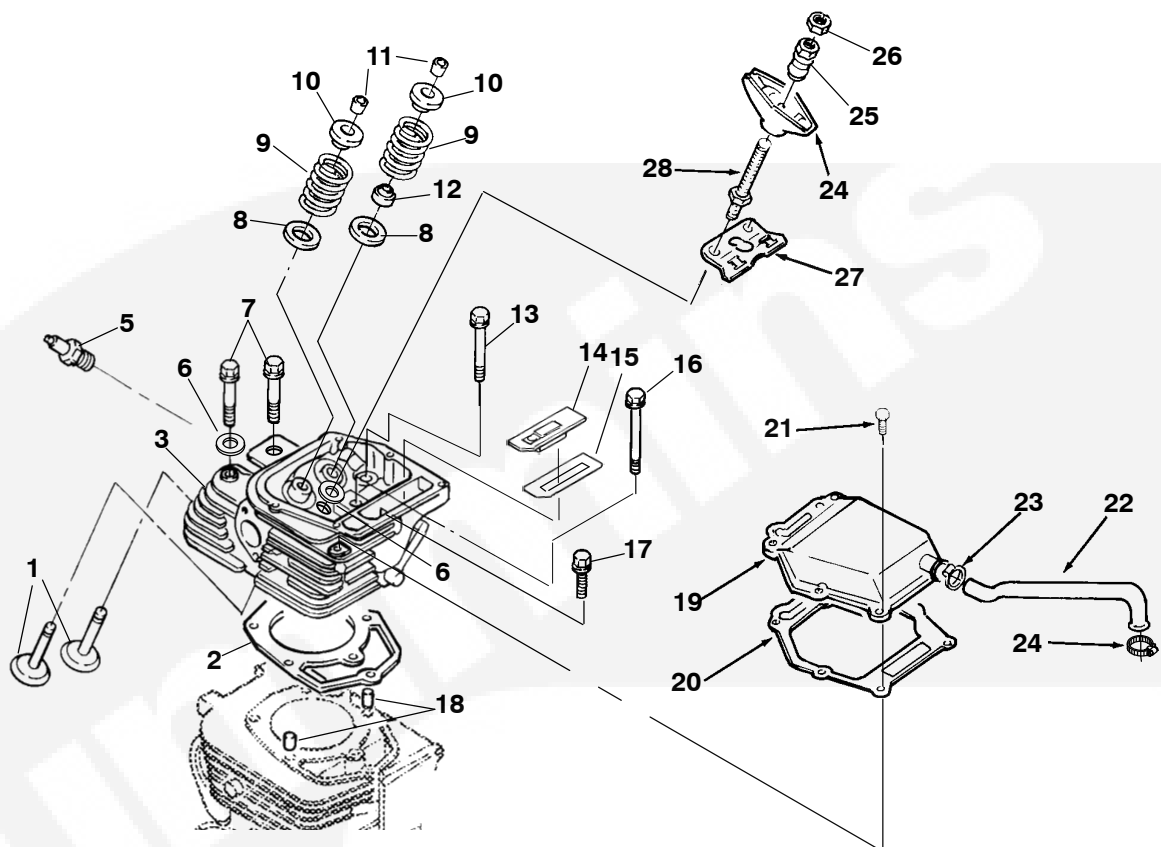
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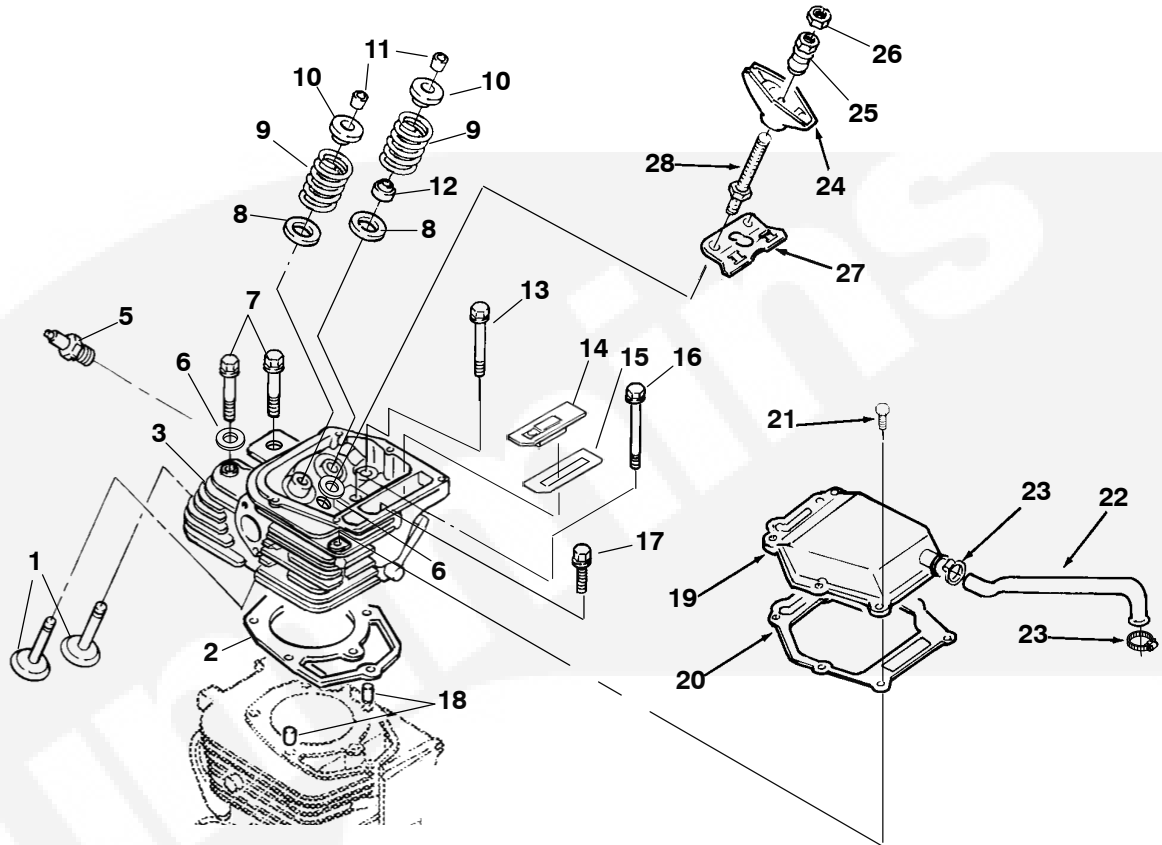
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Cylinder Head (Spec A-K)



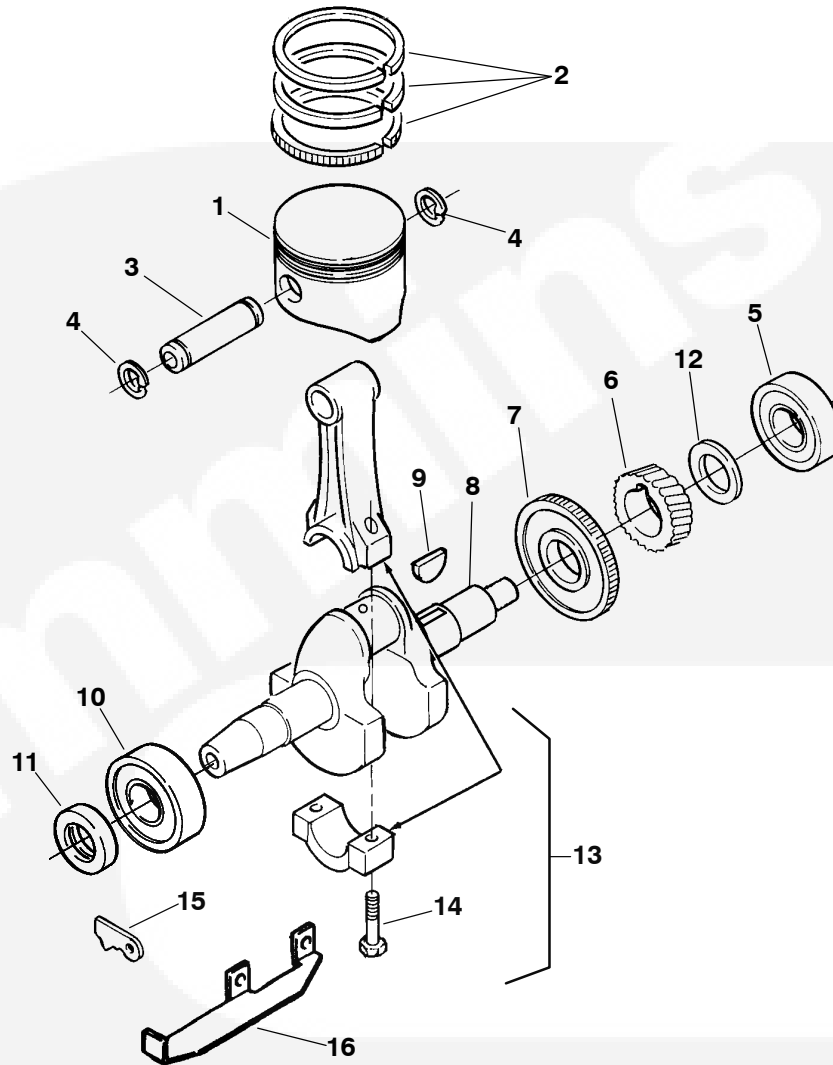
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	100-4152	1	Engine Valve	15			Shim, Breather Valve
	110-3887	1	Intake		110-3922-01	1	.010
	110-3888	1	Exhaust		110-3922-02	1	.020
2	110-3893	1	Gasket, Cylinder Head	16	110-3751-00	1	Bolt, Cylinder Head (M8 x 1.25 x 85mm)
3	110-3890	1	Head, Cylinder (Includes Guides, Seats and Valve Guide Rings)	17	110-3751-01	1	Bolt, Cylinder Head (M8 x 1.25 x 48mm)
4	110-3882	2	Rings, Valve Guide (Not Shown)	18	110-3892	2	Pin, Hollow Dowel
5			Plug, Spark	19	110-3743	1	Cover, Valve
	167-0275	1	60Hz	20	110-3861	1	Gasket, Valve Cover
	167-0305	1	50Hz	21	800-3026	7	Screw, Hex Flange Head (M6 x 1 x 25mm)
6	740-1008	2	Washer, Flat (M10)	22	123-1917	1	Tube, Breather
7	110-3750	2	Bolt, Cylinder Head (M10 x 1.25 x 66mm)	23	503-1851	2	Clamp, Hose
8	110-3698	2	Washer, Valve Spring	24	115-0465	2	Arm, Rocker
9	110-3701	2	Spring, Valve	25	115-0464	2	Nut, Rocker Arm Adjusting
10	110-3700	2	Retainer, Valve Spring	26	115-0496	2	Nut, Lock Adjusting
11	110-3914	2	Lock, Valve Spring	27	115-0472	1	Guide, Push Rod
12	509-0289	1	Seal, Valve Stem	28	115-0497	2	Stud, Rocker Arm
13	110-3750-03	2	Bolt, Flange (M10 x 1.5 x 115mm)				
14	123-1920	1	Valve, Breather				

Cylinder Head (Begin Spec L)



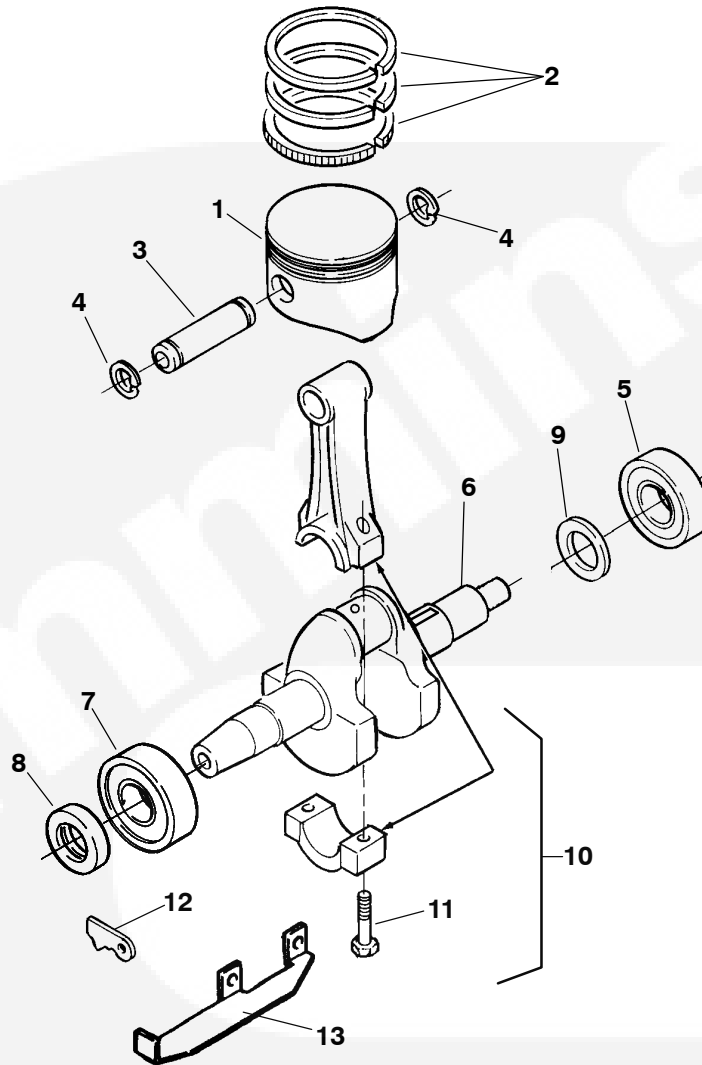
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	100-4152	1	Engine Valve	14	123-1920	1	Valve, Breather
	110-4035	1	Intake	15			Shim, Breather Valve
	110-4036	1	Exhaust		110-3922-01	1	.010
2	110-3893	1	Gasket, Cylinder Head		110-3922-02	1	.020
3	110-3890	1	Head, Cylinder (Includes Guides, Seats and Valve Guide Rings)	16	A028X518	1	Bolt, Cylinder Head (M10 x 1.25 x 85mm)
4	110-3882	2	Rings, Valve Guide (Not Shown)	17	A028X508	1	Bolt, Cylinder Head (M10 x 1.25 x 50mm)
5			Plug, Spark	18	110-3892	2	Pin, Hollow Dowel
	167-0275	1	60Hz	19	110-3743	1	Cover, Valve
	167-0305	1	50Hz	20	110-3861	1	Gasket, Valve Cover
6	A028V609	2	Washer, Flat (M10)	21	A028X500	7	Screw, Hex Flange Head (M6 x 1 x 25mm)
7	A028X507	2	Bolt, Cylinder Head	22	123-1917	1	Tube, Breather
8	110-3698	2	Washer, Valve Spring	23	503-1851	2	Clamp, Hose
9	110-3701	2	Spring, Valve	24	115-0465	2	Arm, Rocker
10	110-3700	2	Retainer, Valve Spring	25	115-0464	2	Nut, Rocker Arm Adjusting
11	110-3914	2	Lock, Valve Spring	26	115-0496	2	Nut, Lock Adjusting
12	A028V752	1	Seal, Valve Stem	27	115-0472	1	Guide, Push Rod
13	A028X512	2	Bolt, Flange (M13 x 1.5 x 115mm)	28	115-0497	2	Stud, Rocker Arm

Crankshaft (Spec A-K)



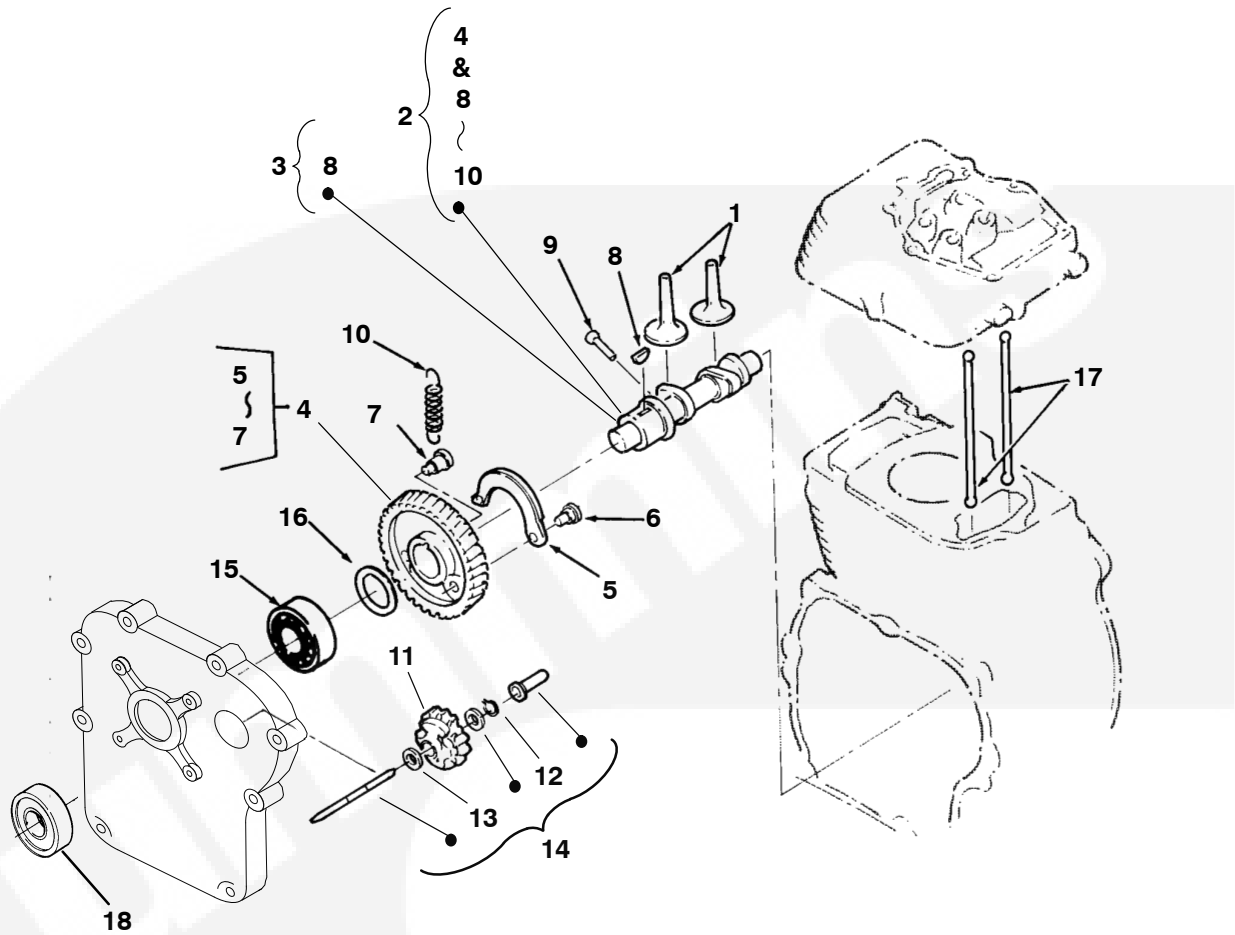
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	112-0291	1	Piston (Includes Pin & Clip)	12	104-1721-01	3	Shim (Use As Required)
	185-6828	1	Standard		104-1721-02	3	0.20mm
	185-6826	1	0.25 Oversize		104-1721-03	3	0.30mm
2	113-0353	1	Ring Set, Piston		104-1721-05	3	0.40mm
	185-6829	1	Standard		104-1721-07	3	0.50mm
	185-6827	1	0.25 Oversize		104-1721-08	3	0.60mm
3	112-0290	1	Pin, Piston				0.70mm
4	112-0255	2	Clip, Piston Pin	13			Rod Assy, Connecting
5	510-0160	1	Bearing, Block End		114-0373	1	(Includes Bolt)
6	104-1901	1	Gear, Crankshaft		No Replacement	1	Standard
7	104-1899	1	Gear, Balancer		No Replacement	1	0.25 Undersize
8	104-1780	1	Crankshaft	14	114-0367	2	0.50 Undersize
9	515-0293	1	Key, Woodruff	15	120-1264	1	Bolt, Connecting Rod
10	510-0161	1	Bearing	16	114-0366	1	Plate, Oil Shield
11	509-0258	1	Seal, Oil				Dipper, Oil

Crankshaft (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	112-0253	1	Piston	9			Shim (Use As Required)
2	A028X412		Kit, Piston Rings	104-1721-01	3		0.20mm
3	112-0290	1	Pin, Piston	104-1721-02	3		0.30mm
4	112-0255	2	Clip, Piston Pin	104-1721-03	3		0.40mm
5	510-0160	1	Bearing, Block End	104-1721-05	3		0.50mm
6	104-2133	1	Crankshaft	104-1721-07	3		0.60mm
7	510-0161	1	Bearing	104-1721-08	3		0.70mm
8	A028V757	1	Seal, Oil	10	A028X316		Kit Rod, Connecting (Includes Cap, Bolt, and Rod)
				11	A028V775	2	Bolt, Connecting Rod
				12	120-1264	1	Plate, Oil Shield
				13	A028X304	1	Dipper, Oil

Camshaft (Spec A-K)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	115-0463	2	Tappet
2	105-0682	1	Camshaft Assy (Spec A-D) (Includes Parts Marked +)
3	105-0724	1	Camshaft (Begin Spec E) (Includes Parts Marked °)
4	105-0681	1	+ Gear Assy, Camshaft (Spec A-D) (Includes Flyweight, Flyweight Shaft and Pin)
5	150-2464	1	Flyweight
6	150-2302	1	Shaft, Flyweight
7	150-2305	1	Pin, Decompression Spring
8	515-0305	1	° Key, Woodruff
9	150-2465	1	+ Pin, Decompression
10	150-2466	1	+ Spring, Decompression
11	150-2604	1	Gear, Governor
12	526-2077	1	* Washer, Flat
13	526-2078	1	* Washer, Flat

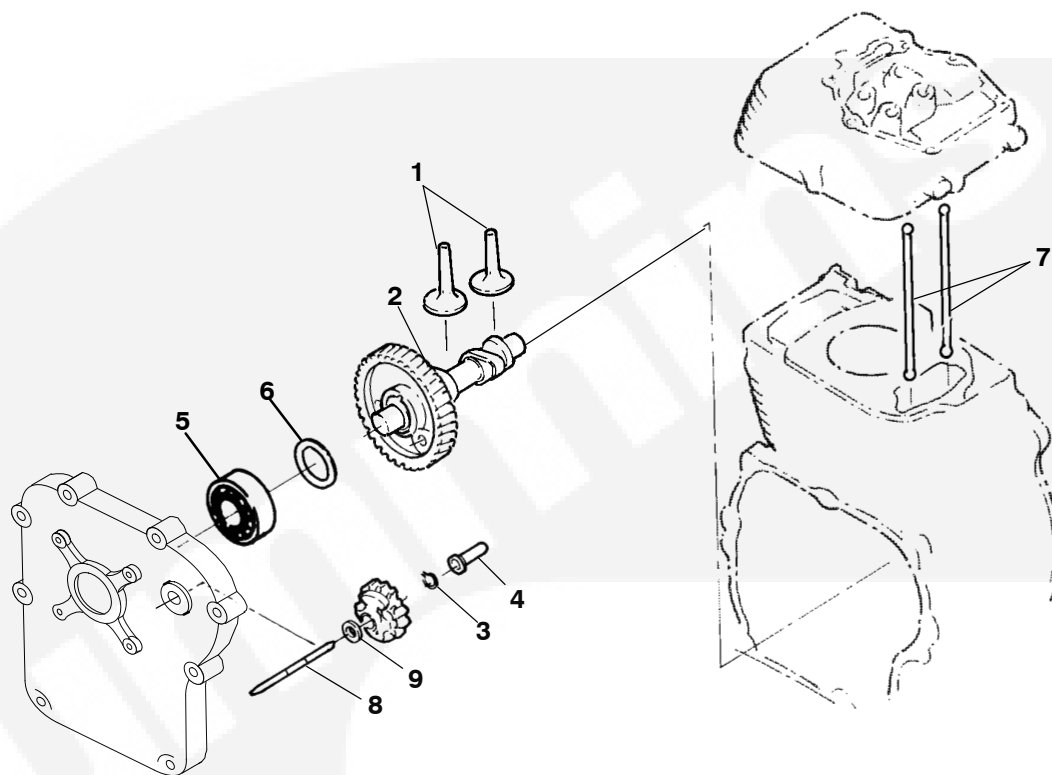
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	541-0508	1	Sleeve Kit, Governor (Includes Washers Marked *, Governor Stop, Governor Sleeve and Governor Shaft)
15	510-0163	1	Bearing, Ball
16			Shim (Use As Required)
	104-1896-01	3	.50mm
	104-1896-02	3	.60mm
	104-1896-03	3	.70mm
	104-1896-04	3	.80mm
	104-1896-05	3	.90mm
	104-1896-06	3	1.00mm
	104-1896-07	3	1.20mm
17	115-0471	2	Rod, Push
18	509-0258	1	Seal

+ - Parts Included in Camshaft Assy (Spec A-D)

° - Parts Included in Camshaft Assy (Begin Spec E)

* - Washers Included in Governor Sleeve Kit.

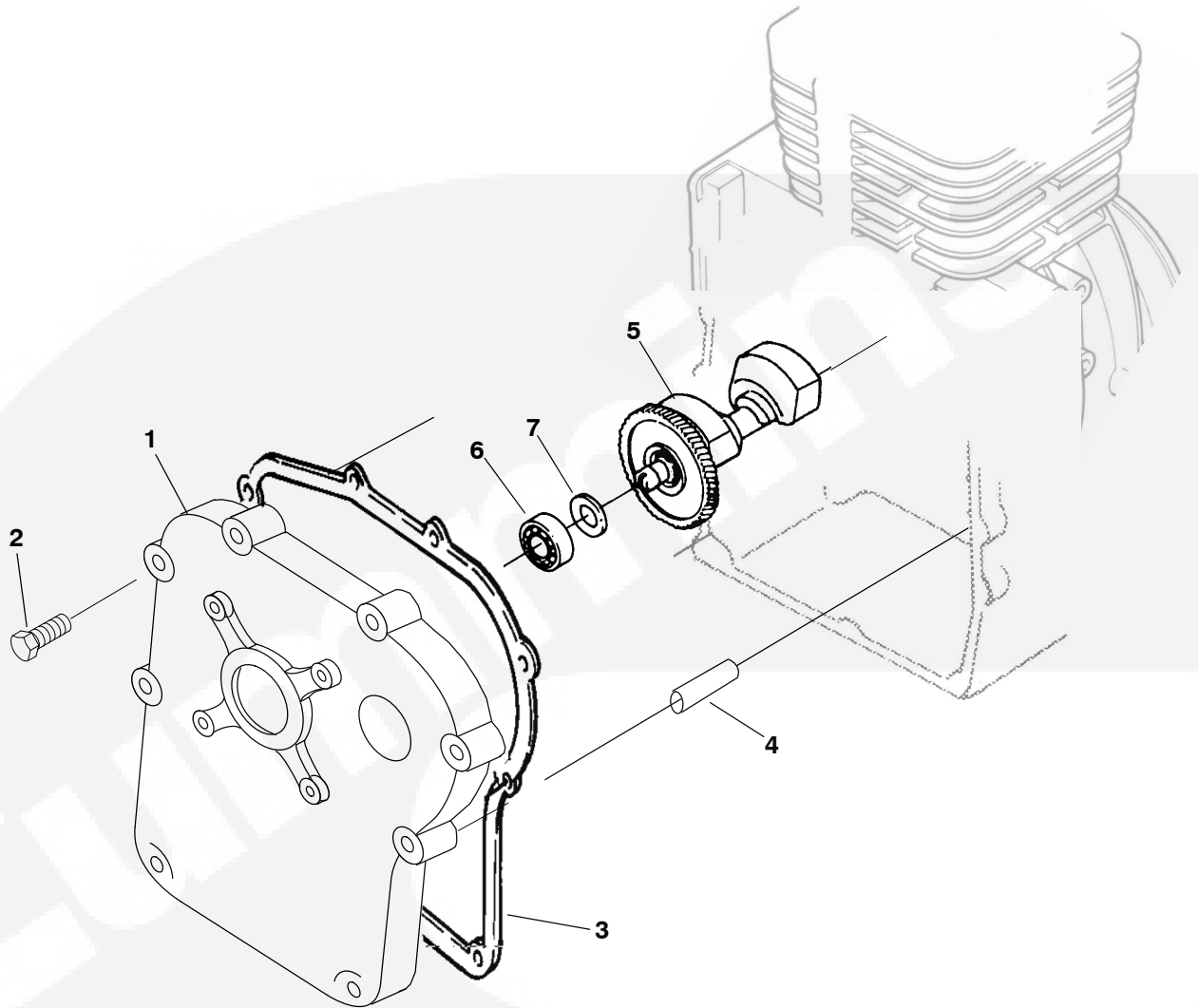
Camshaft (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	115-0542	2	Tappet
2	105-0754	1	Camshaft Assy
3	150-2547	1	Retainer, Governor Gear
4	150-2754	1	Sleeve, Governor
5	510-0163	1	Bearing, Balancer Shaft
6			Shim (Use As Required)
	104-1896-01	3	.50mm
	104-1896-02	3	.60mm
	104-1896-03	3	.70mm
	104-1896-04	3	.80mm
	104-1896-05	3	.90mm
	104-1896-06	3	1.00mm
	104-1896-07	3	1.20mm
7	115-0471	2	Rod, Push

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	150-2273	1	Shaft, Governor
9	A028X300	1	Washer, Governor Shaft

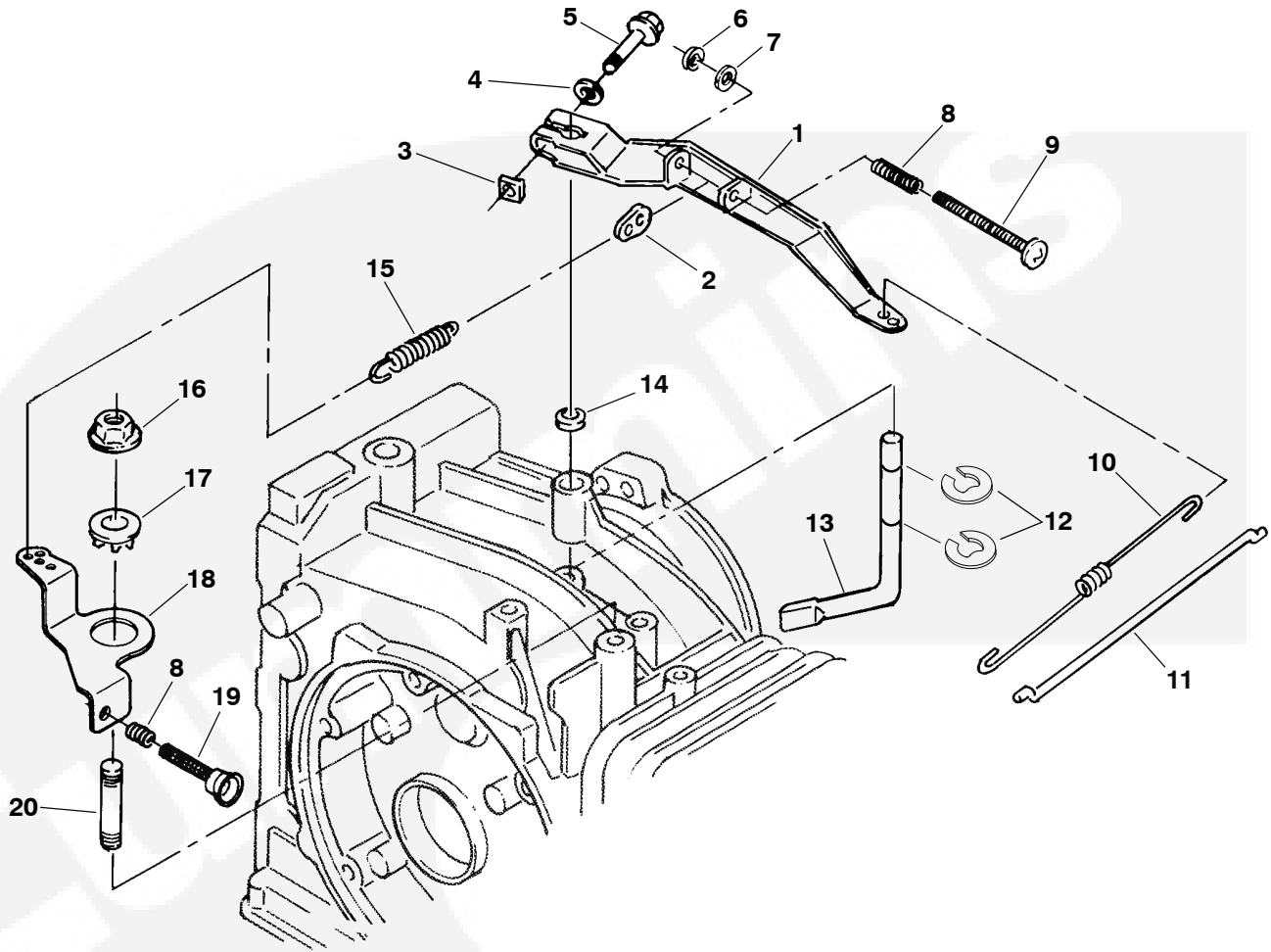
Crankcase Cover



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	101-0787	1	Cover, Crankcase
2	A028X528	9	Bolt, Crankcase Cover (M8 x 1.25 x 30mm)
3	101-0788	1	Gasket, Crankcase
4	775-0074	2	Pin, Parallel
5			Shaft, Balancer (Includes Shaft and Gear)
	104-1902	1	Spec A-L
	104-2130	1	Begin Spec M

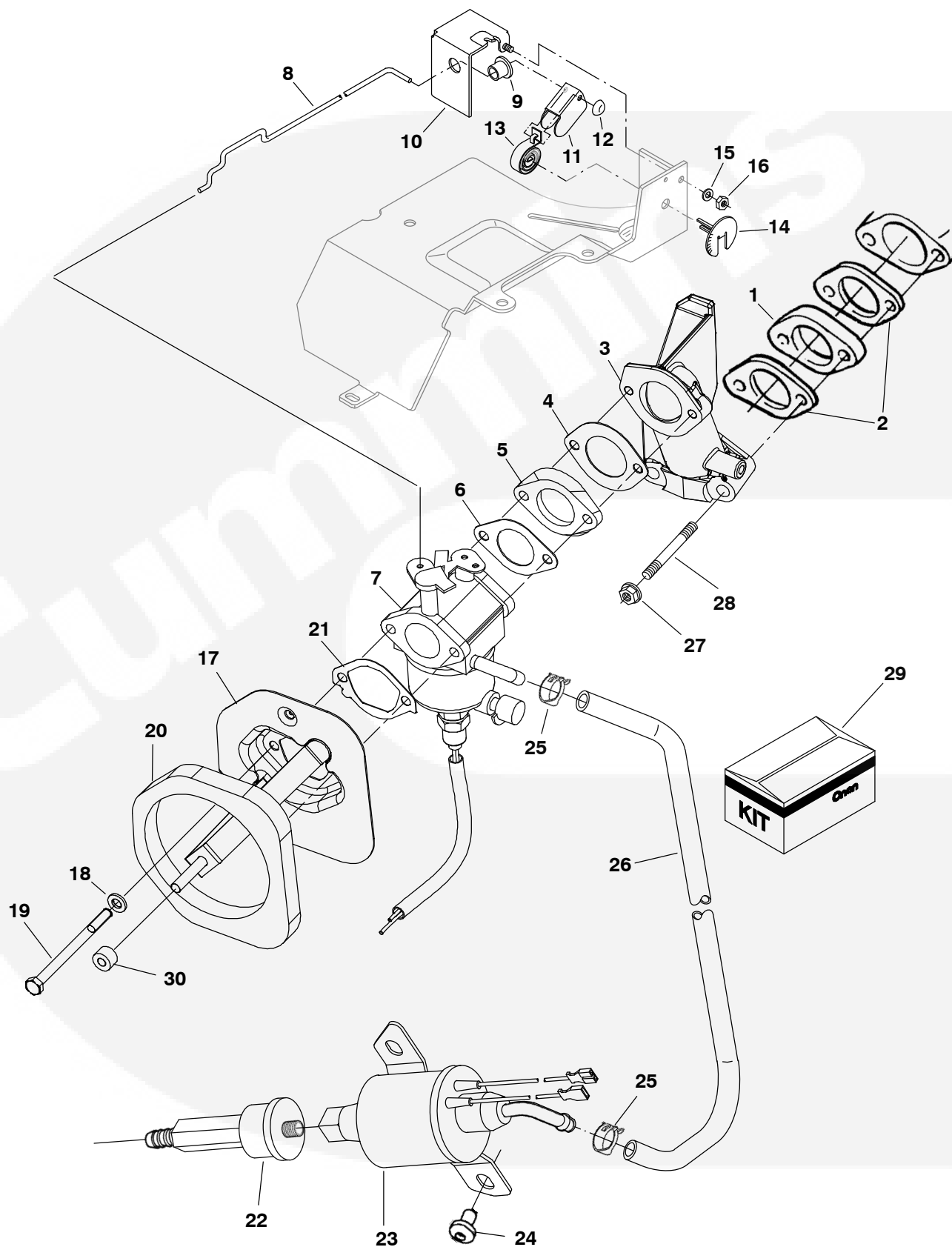
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	510-0163	1	Bearing, Ball
7			Shim, Balancer (Use as Required)
	104-1896-01	3	0.50mm
	104-1896-02	3	0.60mm
	104-1896-03	3	0.70mm
	104-1896-04	3	0.80mm
	104-1896-05	3	0.90mm
	104-1896-06	3	1.00mm
	104-1896-07	3	1.20mm

Governor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-2393	1	Lever, Governor	11	150-2392	1	Rod, Governor
2	150-2396	1	Holder, Governor Spring	12	518-0576	2	Clip, Retainer
3	870-0465	1	Nut, Square (M8 x 1.25mm)	13	150-2401	1	Shaft, Governor Lever
4	526-0122	1	Washer, Flat (5/16")	14	150-2448	1	Seal, Oil
5	718-1039	1	Screw, Hex Head Cap (M8 x 1.25 x 35mm)	15	150-2390	1	Spring, Governor
6	518-0617	1	Clip, Retainer	16	870-2159	1	Nut, Flanged (M8 x 1.25)
7	740-1002	1	Washer, Flat (M5)	17	150-2398	1	Pivot, Speed Adjusting
8	150-2394	1	Spring, Adjusting Screw	18	150-2549-02	1	Lever, Governor Control
9	150-2395	1	Screw, Special	19	150-2514	1	Screw, Governor Adjust
10	150-2391	1	Spring, Governor Rod	20	520-2215	1	Stud, Control Lever Mounting

Carburetor

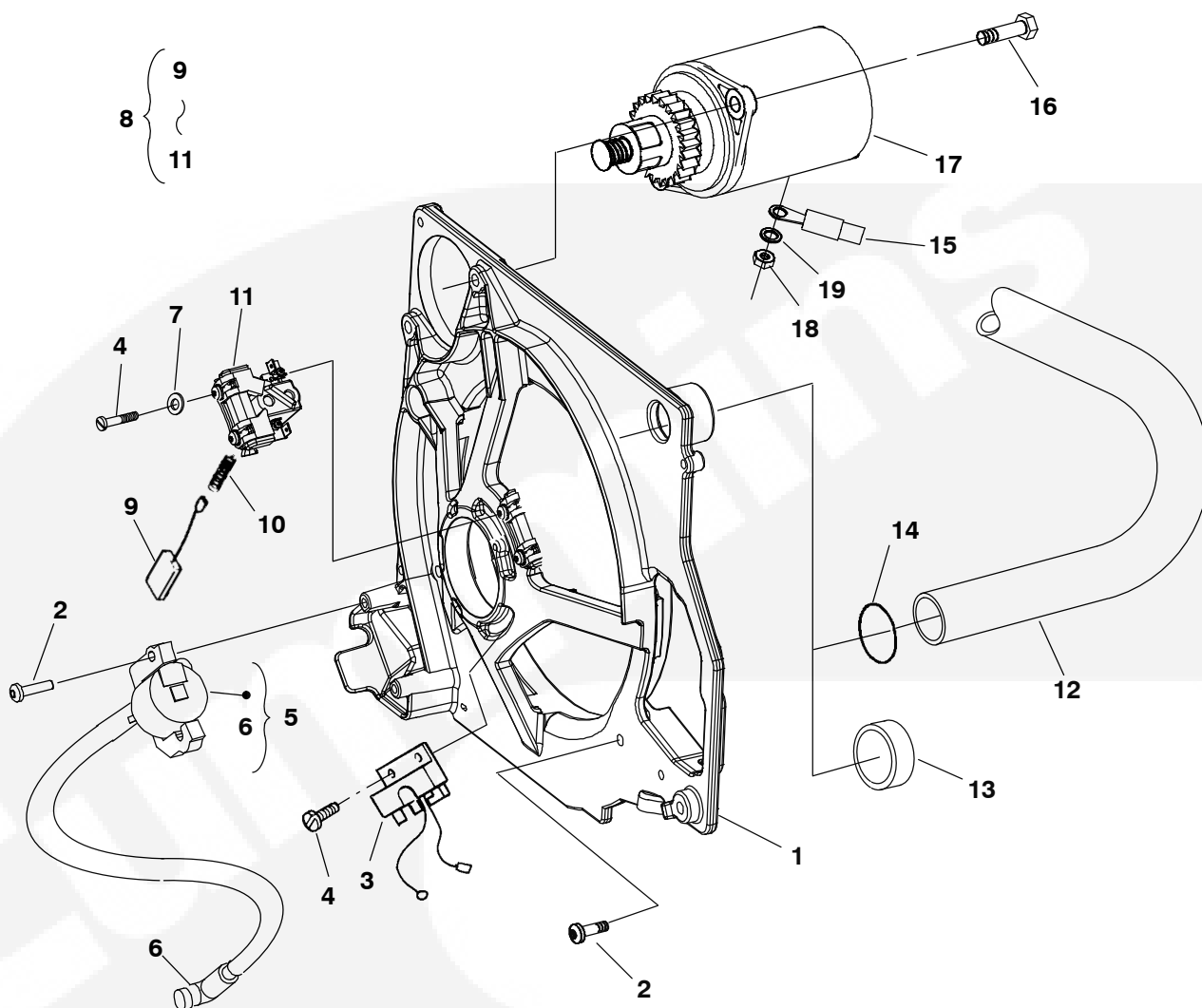


Carburetor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	146-0530	1	Insulator	20	145-0695	1	Gasket, Carburetor Flange
2	154-2821	2	Gasket, Intake Manifold	21	140-2771-01	1	*Gasket, Air Cleaner Adapter
3	154-2815	1	Manifold, Intake	22	149-2457	1	Filter, Fuel
4	146-0531	1	*Gasket, Manifold Insulator	23	149-2311-01	1	Pump, Fuel (E2)
5	146-0532	1	*Insulator	24	823-1002-03	1	Screw, Pan Head Torx (M6 x 1 x 10mm)
6	146-0533	1	*Gasket, Carburetor	25	503-0731	2	Clamp, Hose (.47")
7		1	Carburetor	26	503-1912-01	1	Hose, Fuel (546mm)
	146-0742		Spec A-J	27	870-2159	2	Nut, Flanged (M8 x 1.25mm)
	146-0803		Begin Spec K	28	154-2818	2	Stud
8	153-0639	1	Linkage, Choke	29			Kit
9	232-3720	1	Bearing, Flange		146-0758	1	Carburetor Repair (Includes Parts Marked *)
10	153-0638-01	1	Housing, Choke		146-0756	1	* Float and Gasket (Includes Float, Float Pin, Float Valve and Gaskets)
11	153-0659	1	Cover, Choke Element	30	140-2536-06	1	Seal, Air Cleaner Spacer
12	517-0305	1	Cap, Dome				
13	153-0640	1	Element, Choke Thermostat				
14	153-0651-02	1	Cover, Choke				
15	526-0003	1	Washer, Flat (#8)				
16	860-2005	1	Nut, Hex (M4 x .7mm)				
17	145-0705-02	1	Adapter, Air Cleaner				
18	740-1004	2	Washer, Flat (M6)				
19	800-2046	2	Screw, Hex Head Cap (M6 x 1 x 80mm)				

+ - Parts Included in Carburetor Repair Kit.

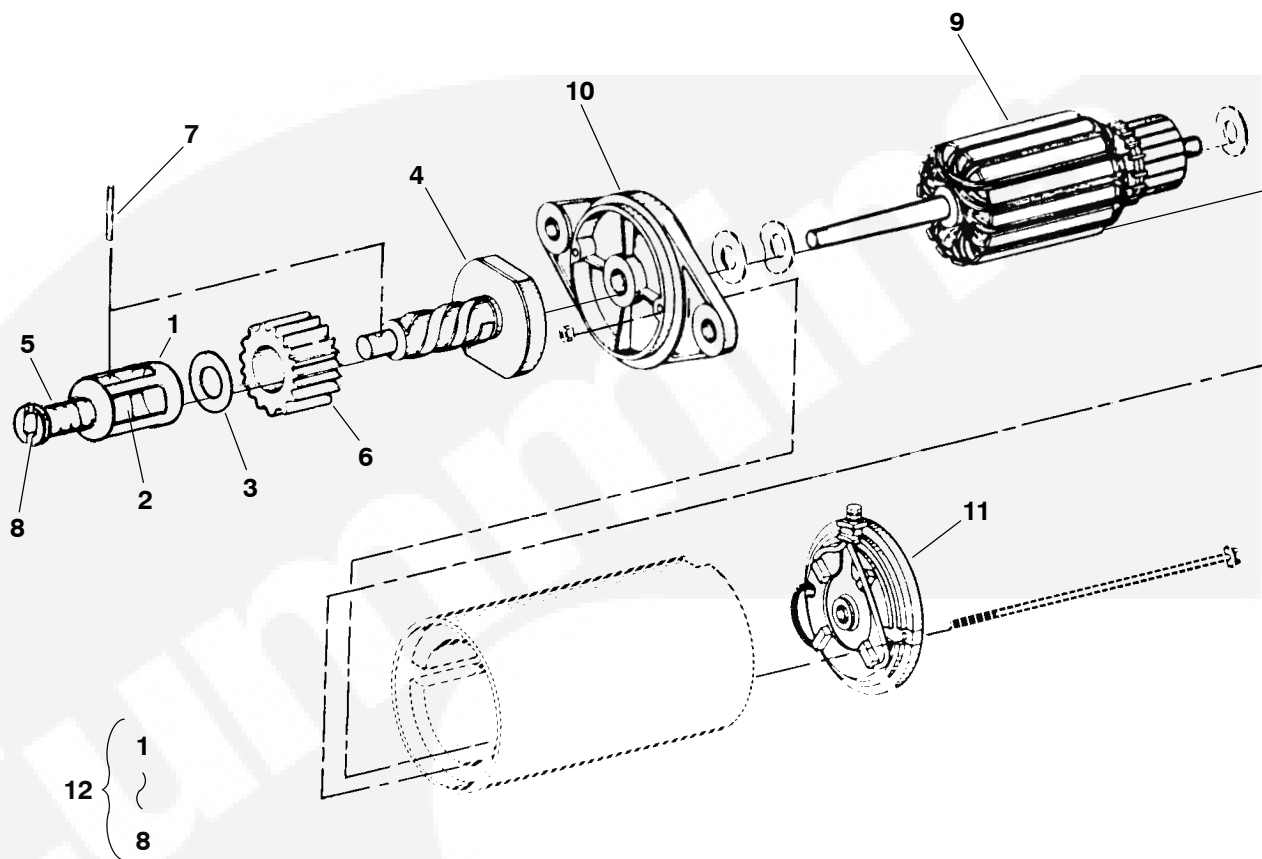
Endbell



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Endbell	9	214-0103	2	Brush, Generator
	211-0460	1	Spec H	10	212-1276-03	2	Spring, Generator Brush
	211-0497	1	Begin Spec J (Includes Parts Marked *)	11	212-1282	1	Block, Brush
2			Screw, Pan Head Torx Thread Forming (M6 x 25mm)	12	503-1351	1	Hose, Preheat (Gasoline Units)
	823-0003-04	4	Spec H	13	517-0103	1	Plug (LP Units)
	823-0003-04	6	Beginning Spec J	14	509-0313	1	O'Ring (Gasoline Units)
3	160-1358-S0	1	Magneto (G2) (Spec H)	15			Cable, Starter
4			Screw, Pan Head (M4 x 12mm)		226-4297	1	Spec H
	823-0002-04	4	Spec H		226-4795	1	Begin Spec J
	823-0002-04	2	* Begin Spec J	16	815-0781	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)
5	166-0866	1	Coil Ignition (Begin Spec J) Includes Boot and Terminal)	17	191-2313		Starter (See Separate Page for Components)
6	167-0267	1	Terminal, Spark Plug (Begin Spec J)	18	862-0001	1	Nut, Hex (1/4-20)
7	526-0003	2	*Washer, Flat (3/16")	19	850-0040	1	Washer, Lock-Spring (1/4")
8	212-1283	1	*Block Assy, Brush (Includes Brush, Spring and Block)				

* - Parts Included with Endbell Beginning Spec J.

Starter Components

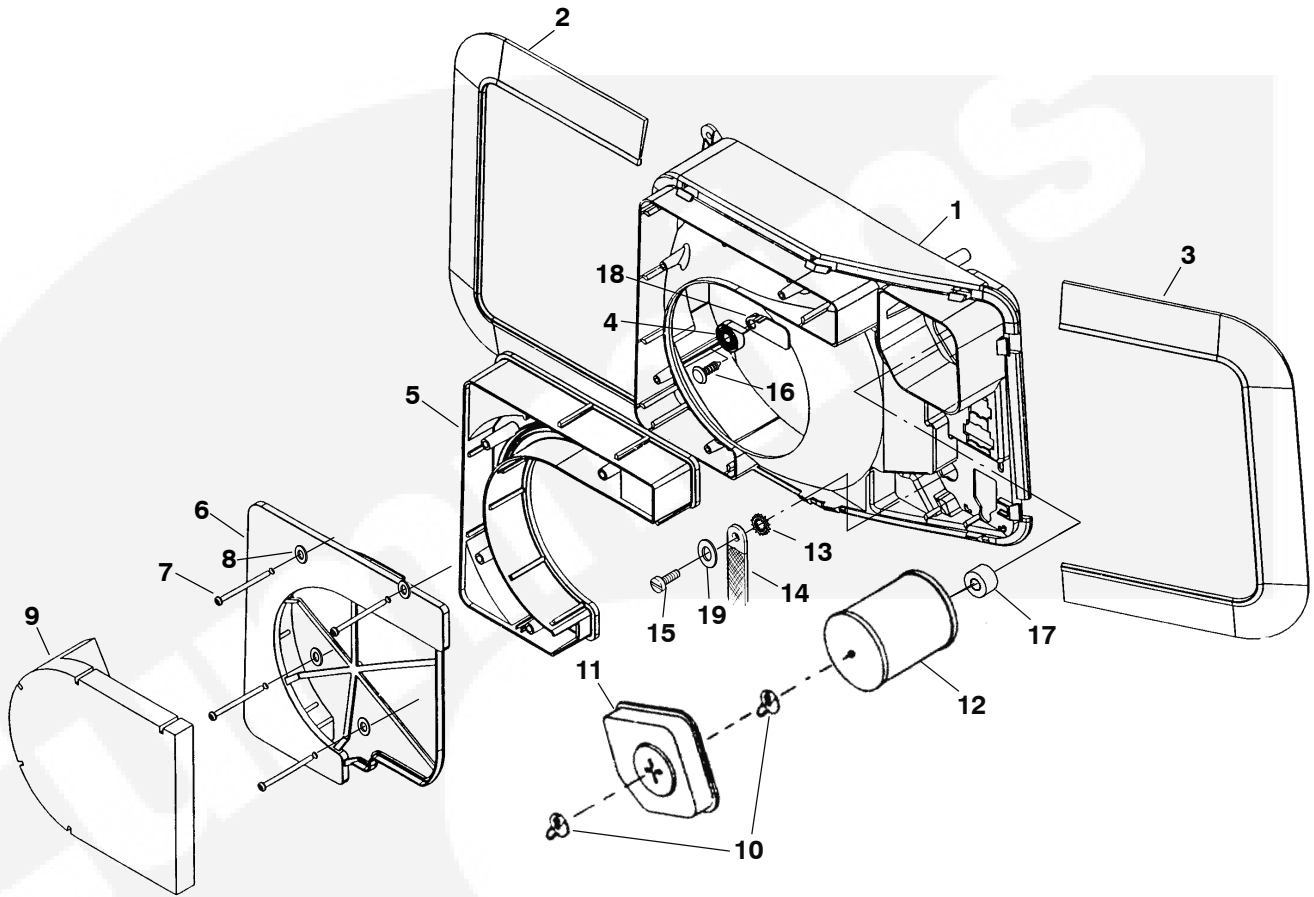


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-1798	1	Starter, Complete (B1)
1	191-1863	1	*Cover, Spring
2	191-1864	1	*Retainer, Clutch
3	191-1865	1	*Washer
4	191-1866	1	*Clutch and Spline
5	191-1870	1	*Spring, Pinion
6	191-1868	1	*Gear, Starter
7	191-1869	1	*Pin, Spiral Roll
8	191-1821	1	*Retainer, Spring

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	191-2155	1	Armature
10	191-2156	1	Commutator Cap
11	191-1867	1	Cap, End (Includes Brushes)
12	191-2157	1	Drive Kit (Includes Parts Marked *)

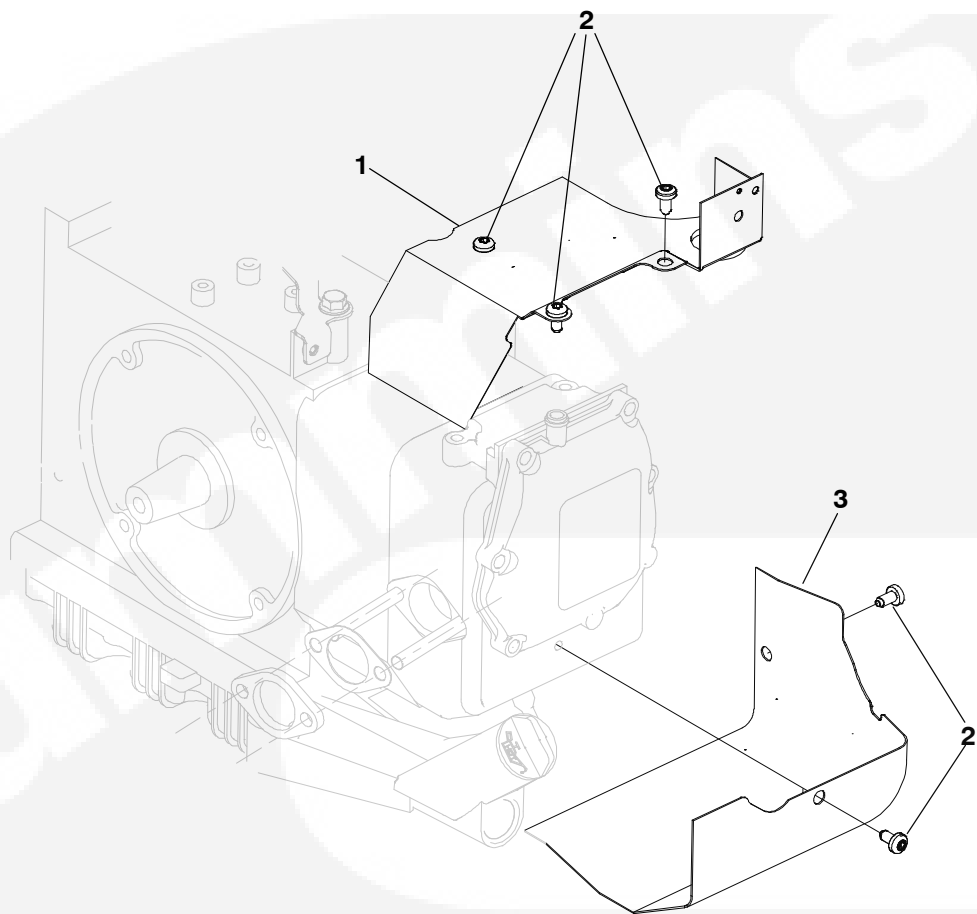
* - Parts Included in Drive Kit.

Air Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	134-5029	1	Housing, Air Spec H	11	140-2820-01	1	Cover, Air Filter
	134-5213	1	Begin Spec J	12	140-3280	1	Element, Air Cleaner
2	509-0305	1	Seal, Air (Left)	13	856-0008	1	Washer, EIT Lock (5/16")
3	509-0308	1	Seal, Air (Right)	14	337-2312	1	Strap, Bond Spec H
4	140-2855	1	Preheat Assy		337-3467	1	Begin Spec J
5	134-5031	1	Resonator, Intake	15	823-0007-02	1	Screw, Pan Head Thread Forming (M8 x 1.25 x 25mm)
6	134-5032	1	Cover, Resonator	16	518-0649	1	Clip, Push-On
7	815-0838-02	4	Screw, Torx Pan Head Thread Forming	17	140-2536-06	1	Seal, Air Cleaner Screw
8	526-0012	4	Washer, Flat (#10)	18	140-2854	1	Door, Preheat
9	405-4896	1	Insulation, Inlet	19	520-0115	1	Washer, Flat
10	865-0029	2	Nut, Wing				

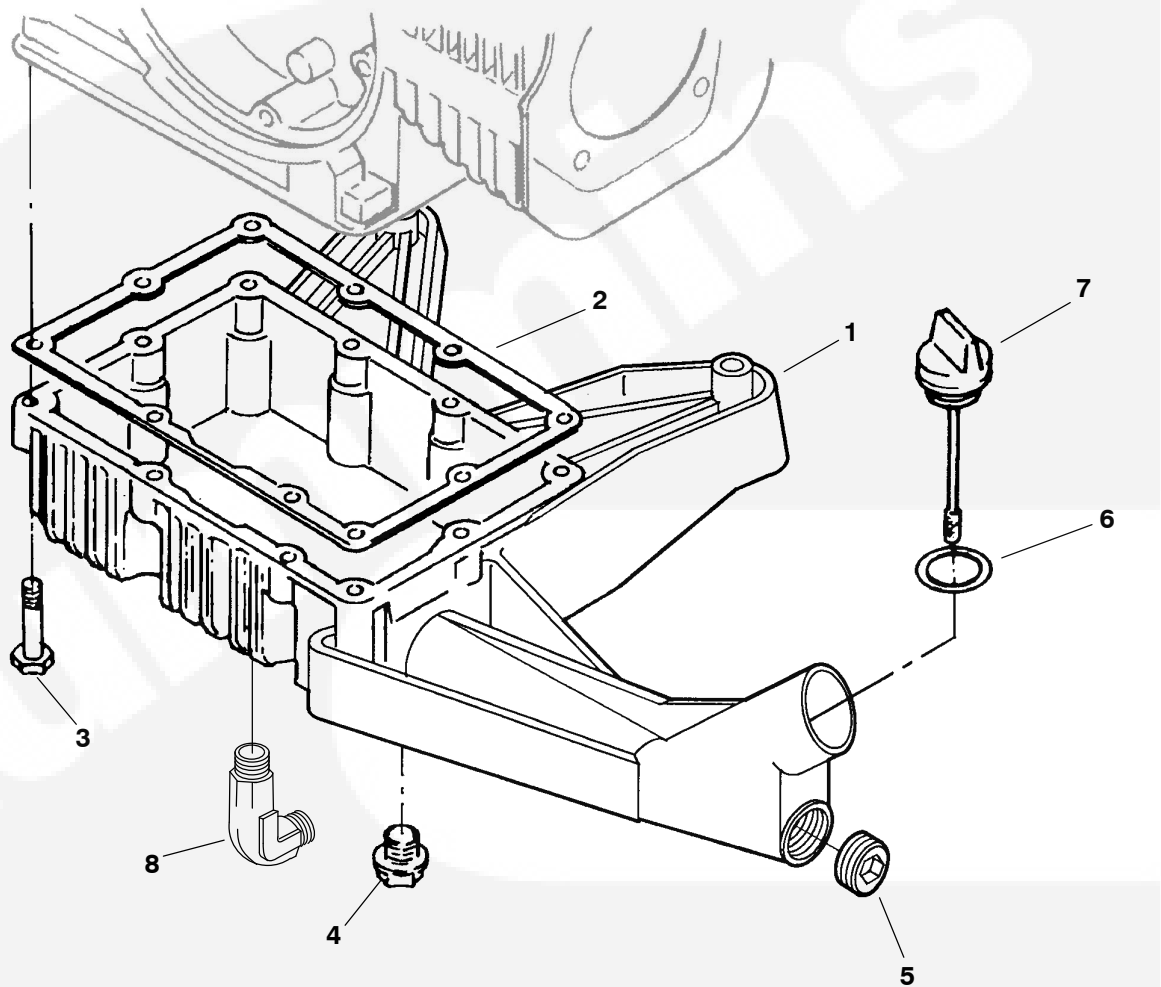
Air Cylinder



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	134-4919-01	1	Cover, Air Cylinder
2			Screw, Torx Pan Head Thread Forming (M6 x 1 x 12mm)
	815-0578	5	Gasoline
	815-0578	2	LP
3	134-5119	1	Wrapper, Air Cylinder

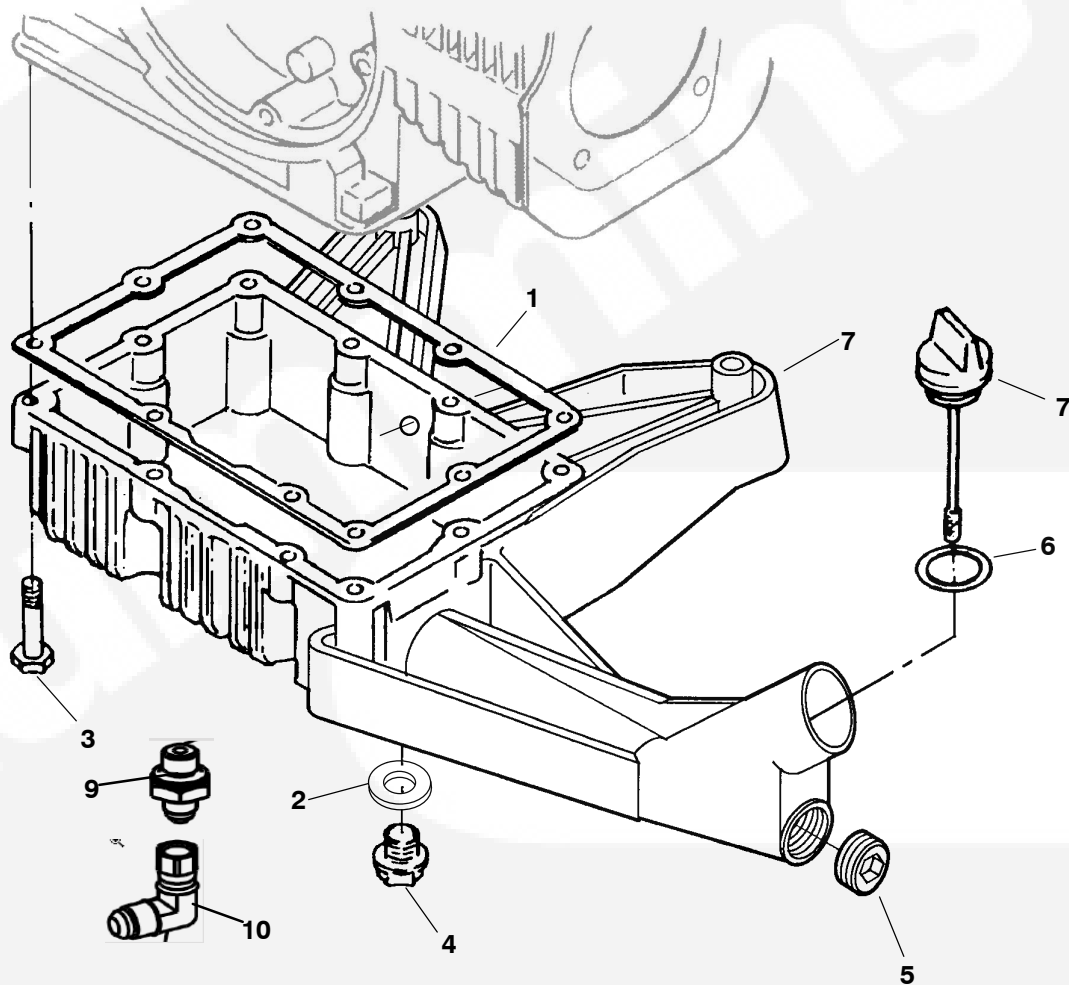


Oil Base



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1444	1	Base, Oil	5	505-1492-02	1	Plug, Drain
2	102-1412	1	Gasket, Oil Base	6	509-0307	1	O'Ring
3	815-0829-01	10	Screw, Hex Head Cap (M8 x 1.25 x 35mm)	7	123-2015	1	Indicator, Oil
4	502-0153	1	Plug, Drain (1/4-18 NPT)	8	502-0806	1	Elbow, Male (Spec 1, 98591 and 98708)

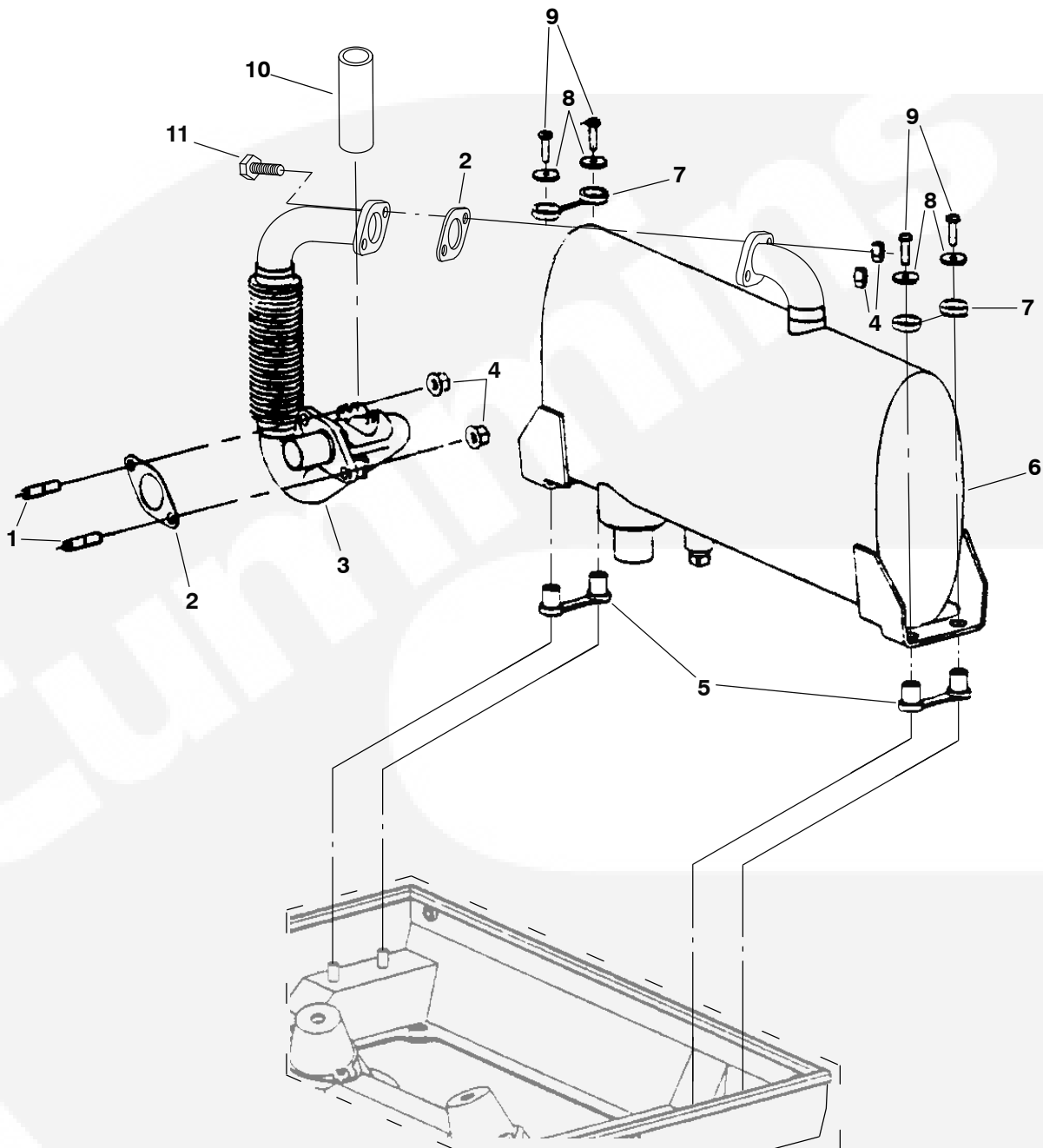
Oil Base (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	A028X564	10	Screw, Hex Head Cap (M8 x 1.25 x 35mm)
2	181-0490	1	Washer
3	181-0489	1	Plug, Drain
4	A028V611	1	Plug, Drain (3/4-14 NPT)
5	509-0307	1	O'Ring

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	123-2015	1	Indicator, Oil (Includes O'Ring)
7	102-1444	1	Base, Oil
8	102-1412	1	Gasket, Oil Base
9	A034J411	1	Adapter, Oil Drain
10	A034J414	1	Adapter, Elbow

Exhaust



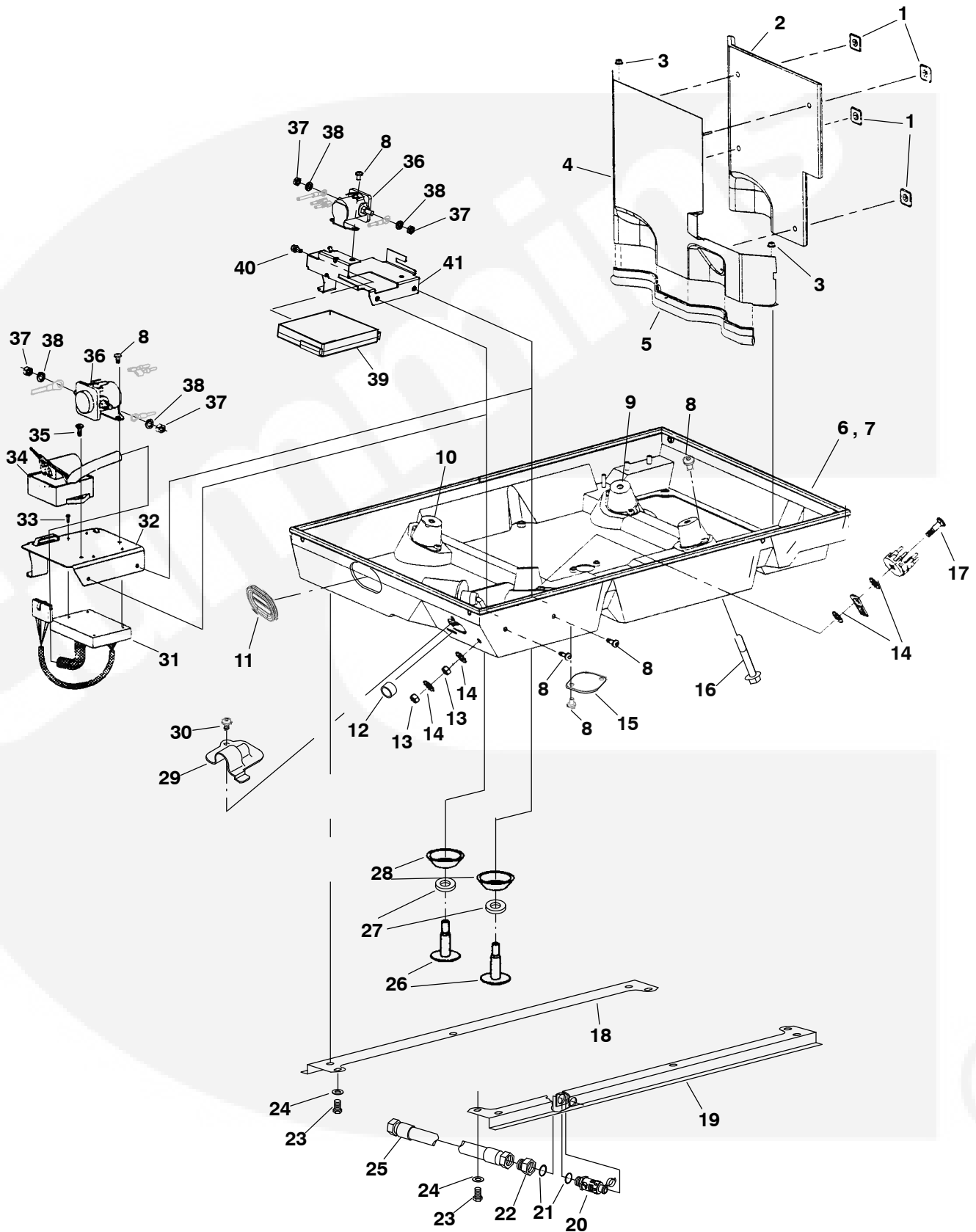
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	520-2216	2	Stud, Exhaust
2	154-2816	2	Gasket, Exhaust
3	154-2975	1	Manifold, Exhaust (Includes Tube)
4	870-2193-04	4	Nut, Torque Hex (M8 x 13)
5	402-0675	2	Isolator, Bottom Muffler
6	155-2783	1	Muffler

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	402-0678	2	Isolator, Top Muffler
8	526-0011	4	Washer, Flat (#10)
9	823-1006-06	4	Screw, Pan Head Machine (M5 x .8 x 20mm)
10	503-1533-03	1	Hose, PreHeat
11	718-1036	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)

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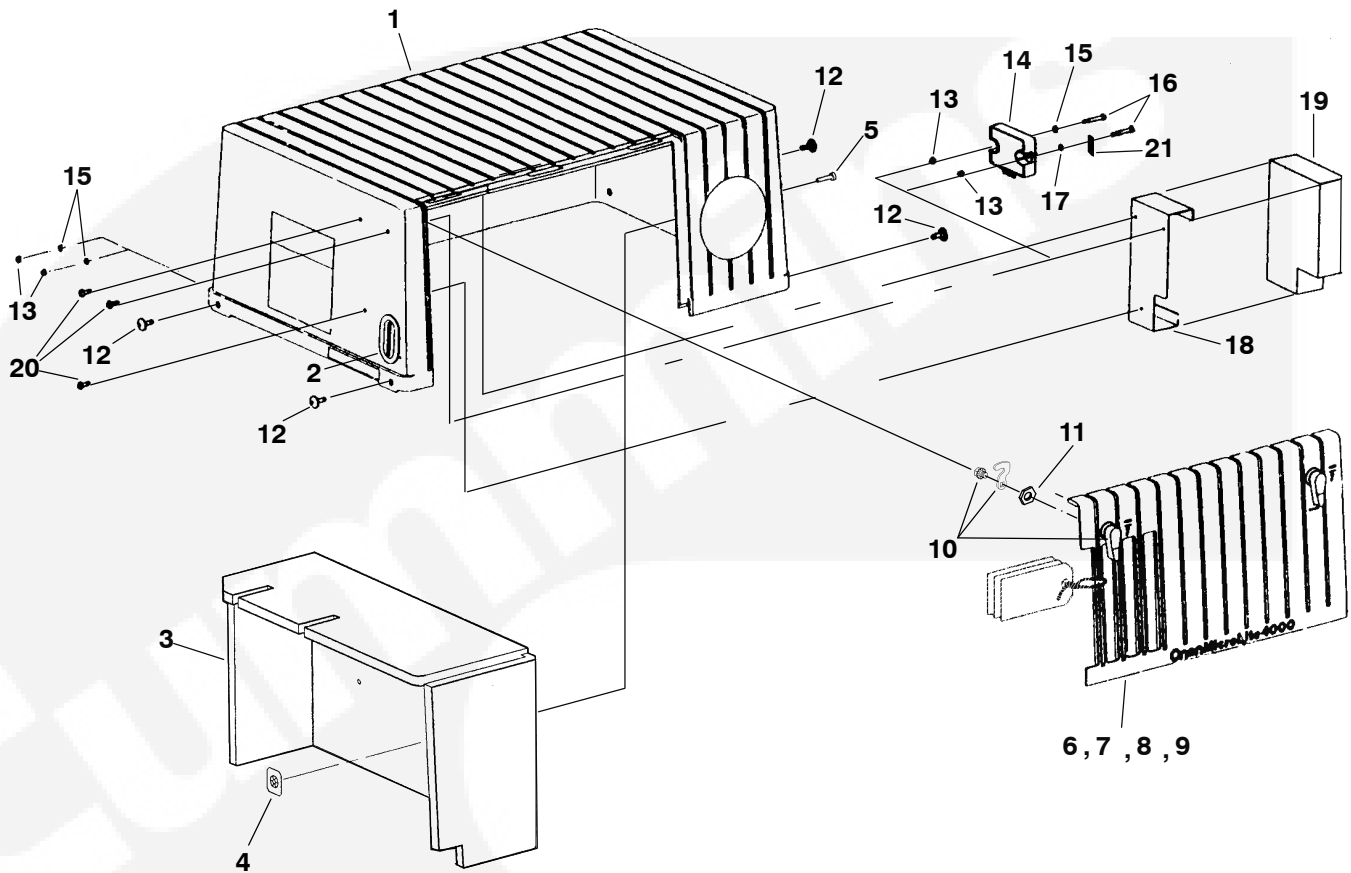
Enclosure Base



Enclosure Base

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	518-0581	4	Nut, Push-On				(5/16" x 3/4") (Spec 1 and 98708)
2	405-4895	1	Insulation, Exhaust Barrier				
3	870-2054	2	Nut, Flange Lock (M6 x 1)	24	526-0122	6	Washer, Flat (5/16") (Spec 1 and 98708)
4	405-4892-02	1	Barrier, Exhaust				
5	508-1091	1	Seal, Barrier Edge	25	501-0440	1	Hose (Spec 1, 98591 and 98708)
6	405-5811-02	1	Base, Enclosure				
7	508-1093-01	1	Seal, Edging (2388mm)	26	815-0785	2	Screw, Isolator Mount
8			Screw, Pan Head Torx Machine (M6 x 1 x 10mm)	27	526-0032	2	Washer, Flat
	823-1002-03	14	60 Hz	28	402-0641	2	Isolator, Snubber
	823-1002-03	15	50 Hz	29	331-0539-02	1	Clamp, Conduit (Not Included With Spec 11580 or 11320)
9	402-0664-02	2	Isolator, Mount – Engine End	30	823-1002-01	1	Screw, Pan Head Torx (M6 x 1 x 12mm)
10	402-0664-01	2	Isolator, Mount – Generator End				Board, PC (Spec H)
11	508-0315	1	Grommet, Enclosure Base	31			Spec H
12	508-0208	1	Bushing, Snap		300-4923	1	Begin Spec K
13	862-0015	2	Nut, Hex (5/16-18)		327-1413	1	Bracket, Control (Spec H)
14	856-0008	4	Washer, EIT Lock (5/16")	32	319-2152-03	1	Screw, Round Head Steel (#6 x 5/16") (Spec H)
15	102-1456-02	1	Cover, Drain	33	809-0017	4	Regulator, Voltage (VR1) (Spec H)
16	815-0874-01	4	Screw, Isolator Mounting Hex Head, Thread Forming (M10 x 1.5 x 70mm)	34			60 Hz
17	800-0030	1	Bolt, Carriage (5/16-18 x 1-1/4")		305-0851	1	50 Hz
18	403-3824-02	1	Rail (Spec 1 and 98708)		305-0866	1	Screw, Torx Pan Head (M6 x 14mm) (Spec H)
19	403-3824-03	1	Rail (Spec 1 and 98708)	35	823-1002-04	1	Relay, Start Solenoid (K1)
20	504-0186	1	Valve, Drain (Spec 1, 98591 and 98708)	36	307-2586	1	Nut, Hex (5/16-24)
21	509-0084	2	O'Ring (Spec 1, 98591 and 98708)	37	868-0002	2	Washer, Spring Lock (5/16")
22	332-3460	1	Connector, Female (Spec 1, 98591 and 98708)	38	850-0045	2	Board, PC (Begin Spec J)
23	800-0026	6	Screw, Hex Head Cap	39	300-5046	1	Screw, Torx Pan Head (Begin Spec J)
				40	815-0943-02	1	Bracket, Control (Begin Spec J)
				41	319-3811-02	1	

Enclosure



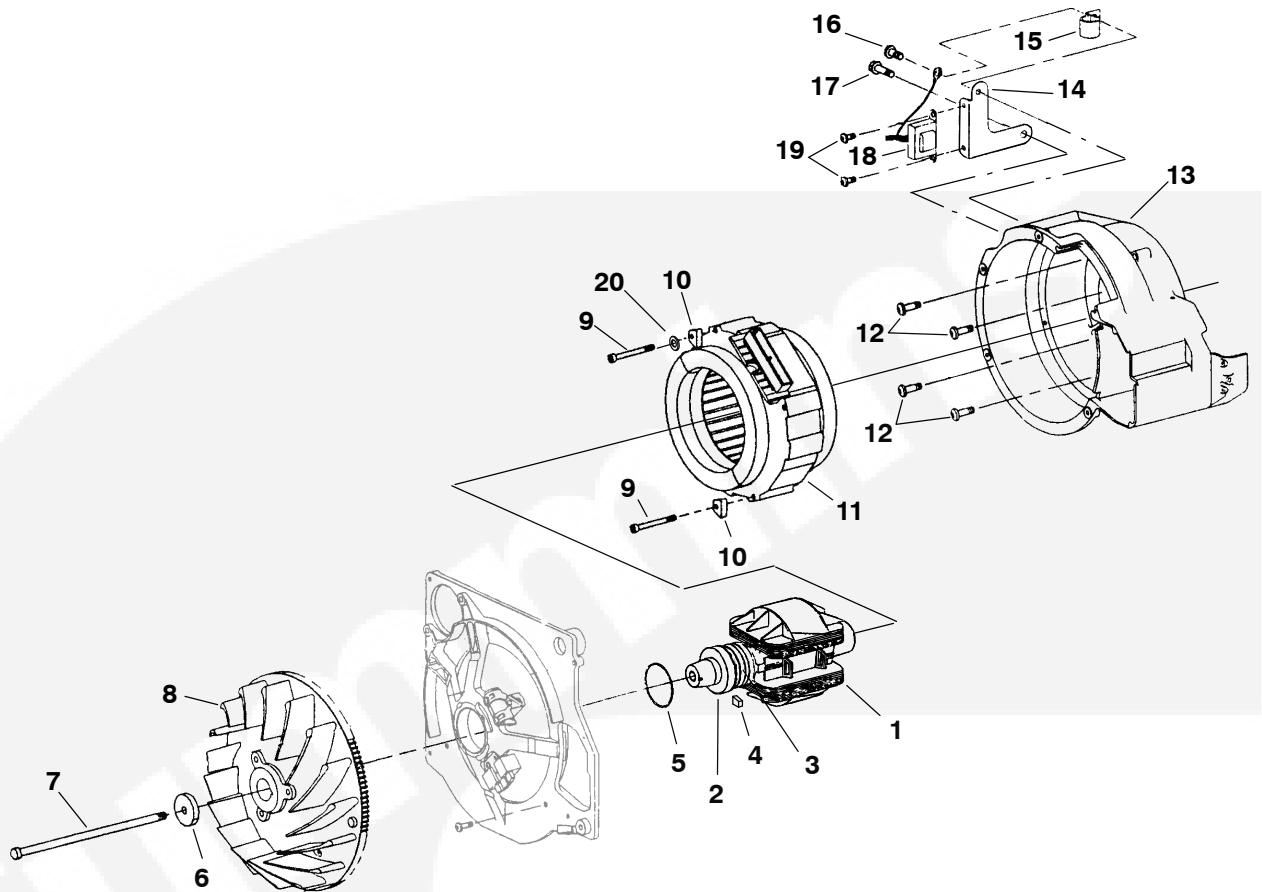
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover Assy, Enclosure (Includes Parts Marked *)
	405-5826-02	1	Spec H
	405-6386-03	1	Begin Spec J
2	508-1116	1	*Grommet
3	405-4894	1	*Insulation, Exhaust Baffle
4	518-0581	2	*Nut, Push-On
5	818-0226-01	2	*Rivet
6			*Panel Assy, Service (Includes Parts Marked +)
	405-4956-01	1	Spec H
	405-6384-02	1	Begin Spec J
7	405-4958	1	+ Insulation, Door
8	526-0394	4	+ Washer, Flat (Special)
9	405-4311-01	1	+ Gasket, Service Panel (250mm)
10	406-0779	1	+ Latch Assy, Service Panel (Includes Pawl and Latch)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	870-2198	1	+ Nut, Hex (M22 x 1.5)
12	823-0010-01	4	Screw, Torx Shoulder (M6)
13	870-2062	4	Nut, Lock (M5 x .8) (50Hz)
14	305-0784	1	Charger, Battery (50 Hz)
15	526-0009	3	Washer, Flat (M5) (50 Hz)
16	800-2012	2	Screw, Hex Head Cap (M5 x .8 x 30mm) (50 Hz)
17	856-0003	1	Washer, EIT (#10) (50Hz)
18	405-4967-03	1	Bracket, Inlet Insulation (60 Hz)
19	405-4966	1	Insulation, Inlet (60 Hz)
20	823-1002-03	3	Screw, Torx Pan Head (M6 x 1 x 10mm) (60 Hz)
21	332-3292	1	Terminal, Spade

* - Included in Enclosure Cover Assy.

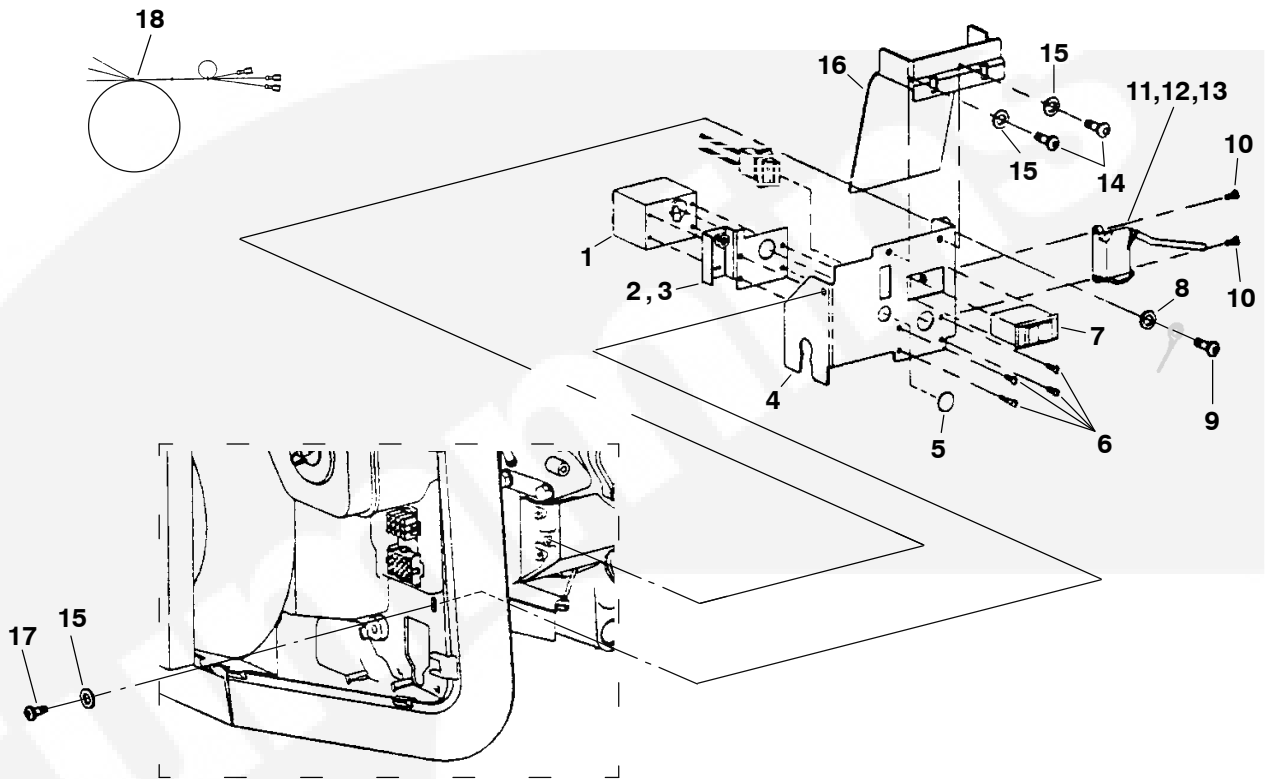
+ - Included in Service Panel Assy.

Generator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Rotor Assy, (Includes Bearing) Spec H	12	823-0007-02	4	Screw, Pan Head – Torx Thread Forming (M8 x 1.25 x 25mm)
	201-3539-01	1	60 Hz	13			Housing, Stator Spec H
	201-3539	1	50 Hz		220-4491-02	1	60 Hz
	201-3539-01	1	Begin Spec J (60Hz)		220-4489-02	1	50 Hz
2	510-0157	1	Bearing, Rotor				Begin Spec J
3	204-0141	1	Ring, Collector		220-4572-01	1	60Hz
4	515-0289	1	Key, Hub		220-4572-03	1	50Hz
5	509-0285	1	O'Ring	14	315-0735-03	1	Bracket, Transformer (50 Hz) (Spec H)
6	526-0392	1	Washer, Fan Hub	15	518-0533	1	Clip
7	815-0778	1	Bolt, Rotor Thru (3/8-24 x 9-1/2")	16	823-0003-06	1	Screw, Torx Pan Head Thread Forming (M6 x 1 x 12mm)
8			Wheel, Blower	17	815-0829-04	1	Screw, Thread Hex Flange Forming (M8 x 1.25 x 16mm) (Spec H) (50 Hz Only)
	205-0199-S0	1	Spec H	18	315-0736	1	Transformer, Voltage (T1) (Spec H) (50 Hz)
	205-0263	1	Begin Spec J	19	823-1002-03	2	Screw, Pan Head Torx Machine (M6 x 1 x 10mm) (Spec H) (50 Hz)
9			Screw, Torx Socket Head	20	526-0018	2	Washer, Flat (Begin Spec J)
	815-0787	2	60 Hz (M6 x 1 x 70mm)				
	815-0876	2	50 Hz (M6 x 1 x 100mm)				
10			Clamp, Angled (50Hz)				
	232-3881	2	Spec H				
	232-4030	2	Begin Spec J				
11			Stator, Generator Spec H				
	220-4485-S5	1	60 Hz				
	220-4490-S1	1	50 Hz				
			Begin Spec J				
	220-4586-01	1	60 Hz				
	220-4586-11	1	50 Hz				

Control (Spec H)

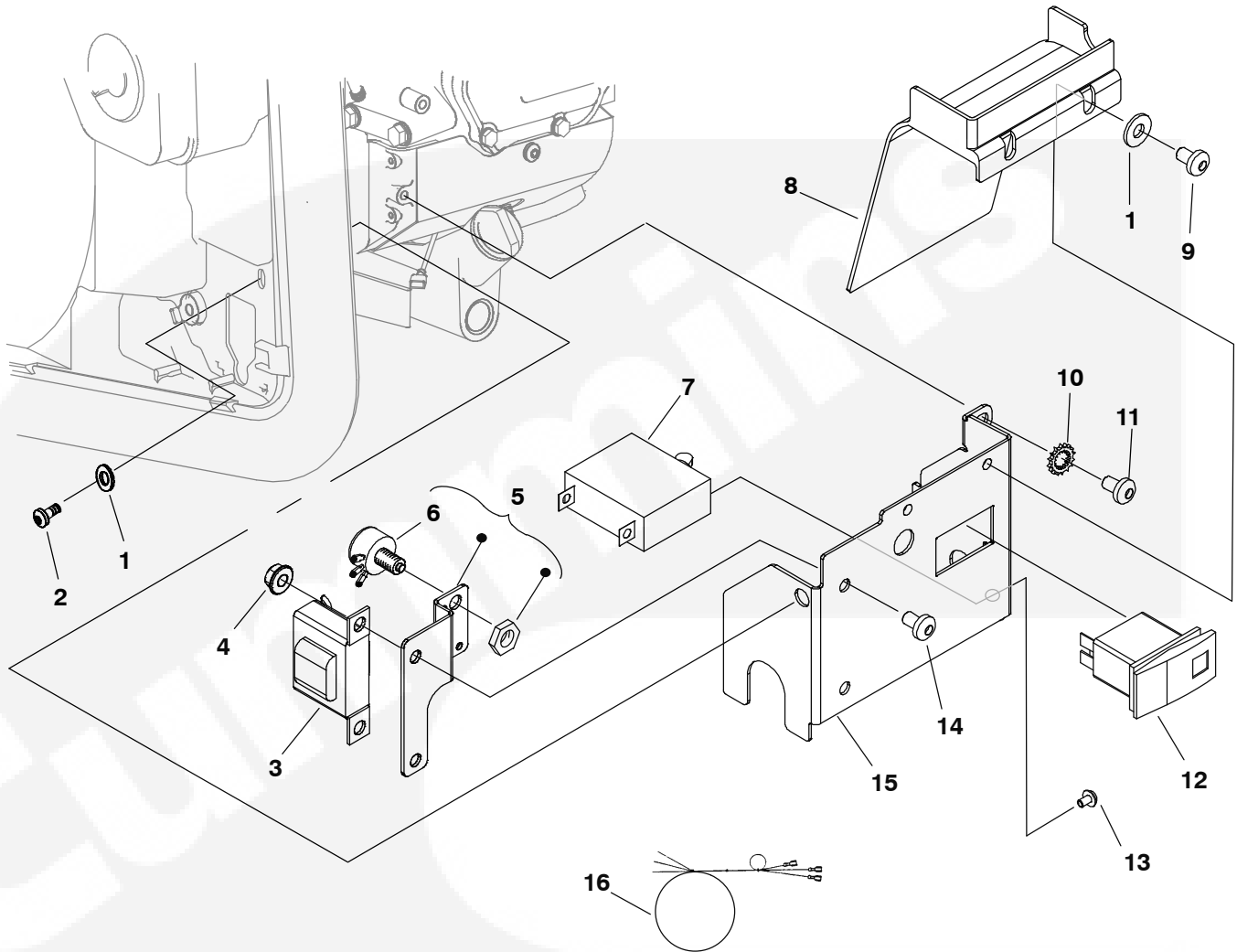


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit (CB1)
	320-1323	1	60 Hz 30A
	320-1780-02	1	20A 50 Hz
	320-1780-01	1	15A
	320-1780-03	1	17A
	320-1780-02	1	20A
2	303-0308	1	Potentiometer Assy (R5) (50 Hz) (Includes Lead, Bracket and Potentiometer)
3	303-0275	1	Potentiometer (R5) (50 Hz)
4			Panel, Control
	319-2176-03	1	60 Hz
	319-2213-03	1	50 Hz
5	517-0133	1	Plug, Hole (50 Hz Only)
6			Screw, Cross Pan Head Recessed w/ET (#6-32 x 1/4")
	815-0549	2	60 Hz
	815-0549	4	50 Hz
7	308-0852	1	Switch, Start/Stop (S1)
8	853-0013	1	Washer, ET Lock (1/4")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	823-0003-06	1	Screw, Torx Pan Head Thread Forming (60 Hz) (M6 x 1 x 12mm)
10	823-0002-04	2	Screw, Torx Pan Head (M4 x .7 x 12mm)
11	166-0818	1	*Coil Assy, Ignition (Includes Terminal and Boot)
12	167-0267	1	Terminal, Spark Plug
13	167-1627	1	Boot, Spark Plug
14	823-0003-01	2	Screw, Torx Pan Head (M6 x 1 x 10mm)
15	526-0018	3	Washer, Flat (1/4")
16	145-0689	1	Shield, Carburetor
17	823-1002-03	1	Screw, Pan Head Torx (M6 x 1 x 10mm)
18			Harness, AC
	338-2909	1	60 Hz
	338-3049	1	50 Hz

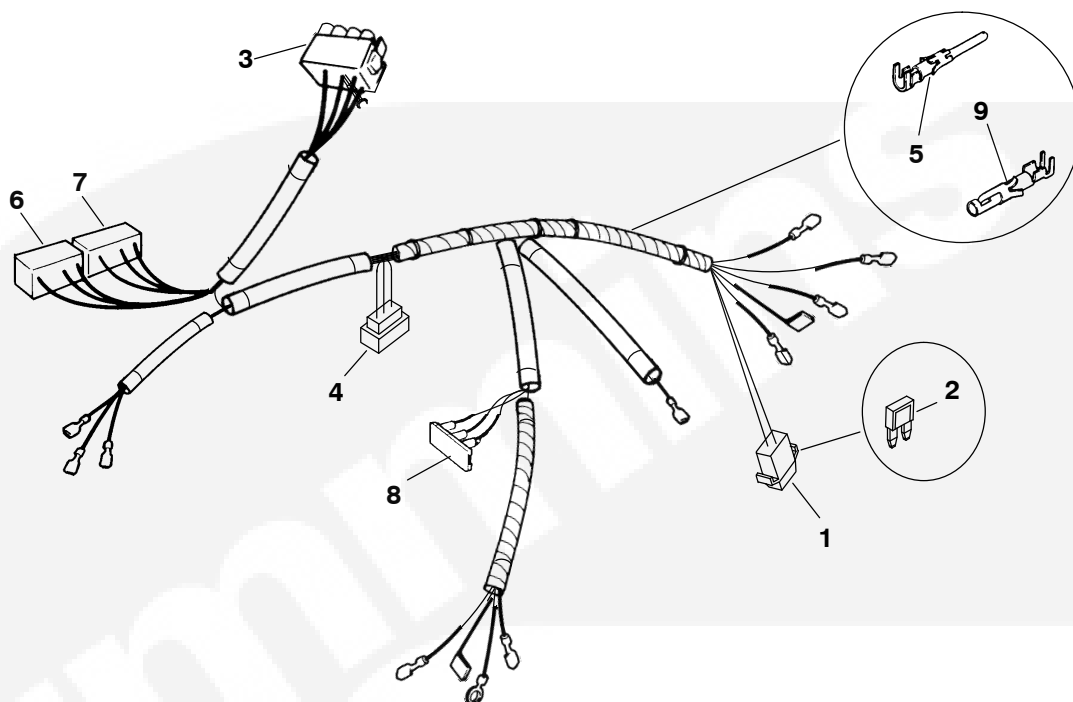
* - No Longer Sold as Assembly.

Control (Begin Spec J)



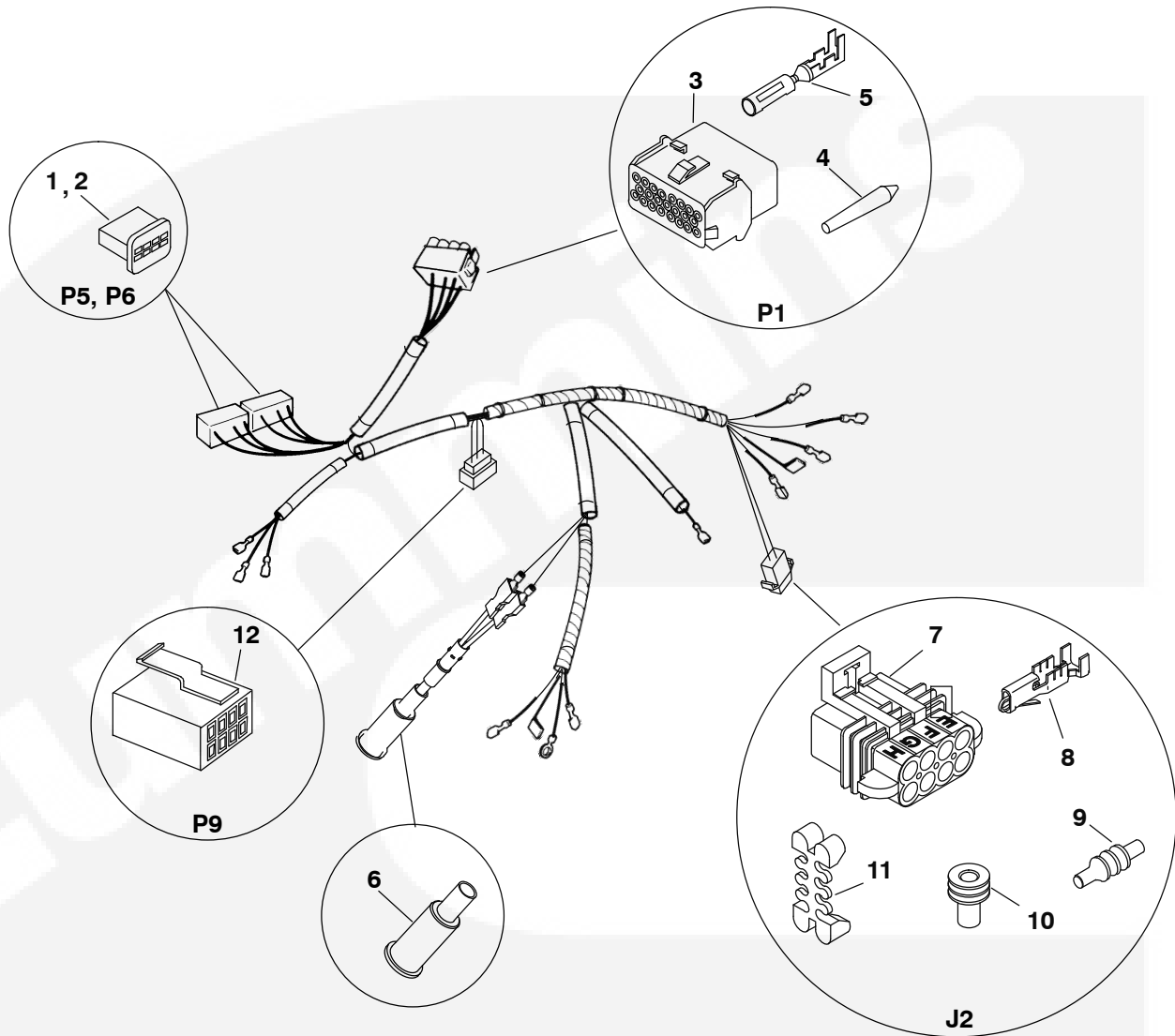
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	526-0018	2	Washer, Flat (1/4")	11	823-0003-06	1	Screw, Torx Pan Head Thread Forming (M6 x 1 x 12mm)
2	823-1002-03	1	Screw, Pan Head Torx (M6 x 1 x 10mm)	12	308-1038	1	Switch, Start/Stop (S1)
3	315-0736	1	Transformer, Voltage (T1) (50 Hz, 100V/60Hz)	13			Screw, Cross Pan Head Recessed w/ET (#6-32 x 1/4")
4	870-2054	2	Nut, Lock Flange		815-0549	2	120V
5	303-0332	1	Potentiometer Assy (R5) (50 Hz) (Includes Lead, Bracket and Potentiometer)		815-0549	4	100V
6	303-0331	1	Potentiometer (R5) (50 Hz)		815-0549	4	50 Hz
7			Breaker, Circuit (CB1) 60 Hz	14	823-1002-04	2	Screw, Torx Pan Head (M6 x 12mm) (50Hz and 100V/60Hz)
	320-1323	1	30A	15	319-3844-02	1	Panel, Control
	320-1780-02	1	20A	16			Harness, AC Output
			50 Hz		338-3814	1	120V
	320-1780-03	1	17A		338-3814	1	100V
	320-1780-02	1	20A		338-3815	1	Isolated Ground
8	145-0689	1	Shield, Carburetor		338-3815	1	Neutral Grounded
9	823-0003-01	2	Screw, Torx Pan Head (M6 x 1 x 10mm)				50 Hz
10	853-0013	1	Washer, ET Lock (1/4")				

Generator Harness (Spec H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338-3639-01	1	Harness, Generator Spec H	4	323-1253	1	Cap, Circuit (15 Pin)(J1)
	338-3812	1	Begin Spec J	5	323-1199	11	Pin,Contact
1	321-0312-02	1	Fuse Assy (F1) (Includes 5 Amp Fuse)	6	323-1527-01	1	Connector, Plug (P6)
2	321-0307-03	1	Fuse, 5 Amp (F1)	7	323-1527-02	1	Connector, Plug (P5)
3	323-1314	1	Connector, Plug (12 Pin)(P4)	8	332-3108	1	Terminal, Ground
				9	323-1200	9	Socket, Contact

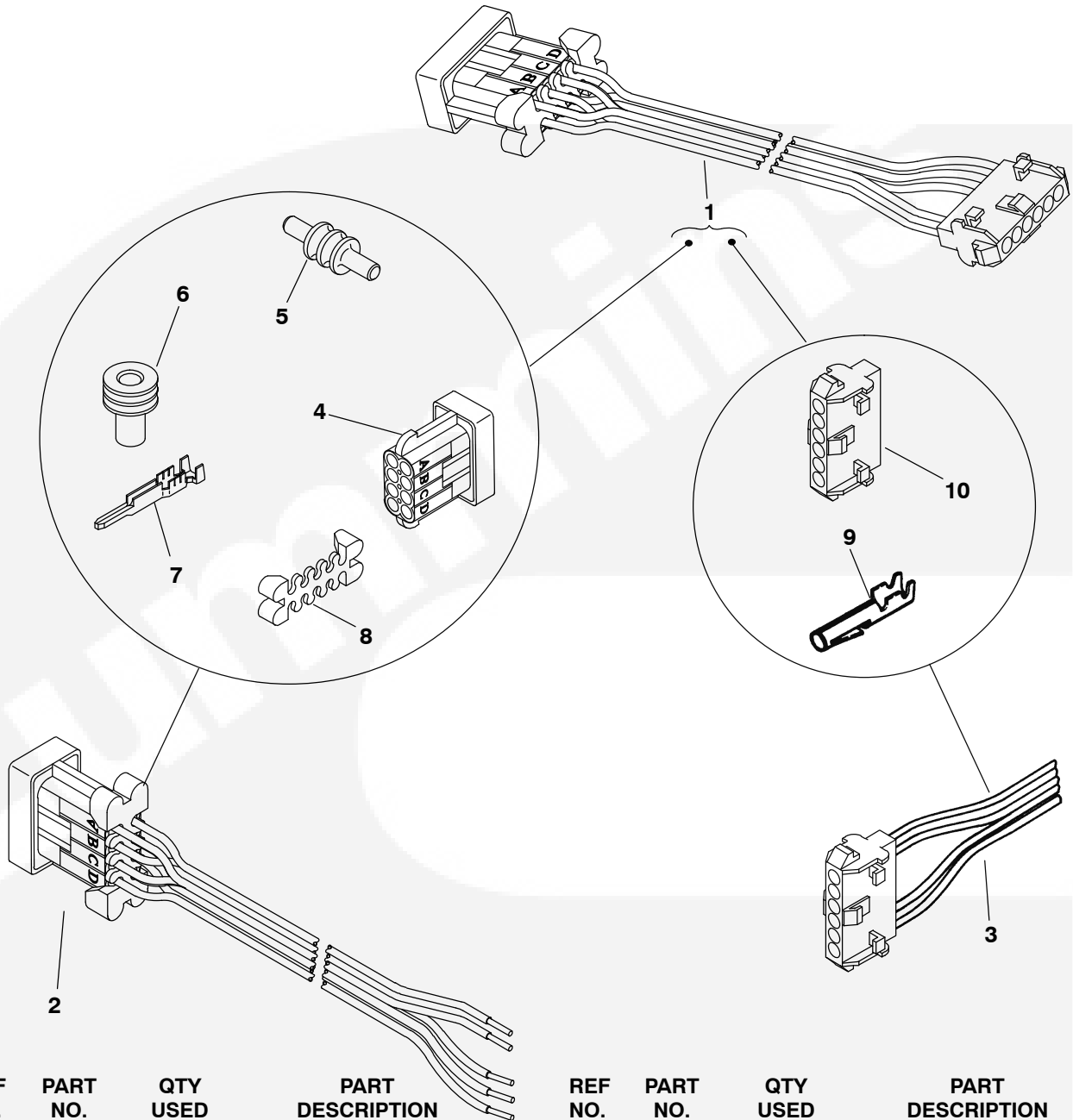
Generator Harness (Begin Spec J)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Harness, Generator 60 Hz Gasoline
	338-3813	1	100 Volt
	338-3812	1	120 Volt
	338-3812	1	LP
	338-3813	1	50 Hz
1	323-1527-01	1	Connector, Plug (P6)
2	323-1527-02	1	Connector, Plug (P5)
3	323-1605-01	1	Connector, Plug (P1) (23 Pin)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	323-1615	5	Plug, Cavity (P1)
5	323-1614-01	AR	Socket, Terminal (P1)
6	167-1636	1	Boot, Insulating (Not Used on 338-3812)
7	323-1743	1	Connector, Plug (J2)(8 Pin)
8	323-1709	7	Terminal, Socket (J2)
9	323-1712	1	Plug, Cavity (J2)
10	323-1708	7	Seal, Cable (J2)
11	323-1741	1	Housing, Lock (J2)
12	308-1019	1	Connector, Switch (P9)

Harnesses



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Extension (Reaches From Control Panel to Remote Panel Harness) (Includes Parts Marked +)
	338-3489-01	1	10'
	338-3489-02	1	30'
2	300-4946	1	Harness, Customer Interface Pigtail (Reaches from Control Panel to Customer Hookup) (Includes Parts Marked *)
3	338-3572	1	Harness, Remote Panel Pigtail (Reaches From Remote Panel to Customer Interface Pigtail Harness (Includes Parts Marked #))

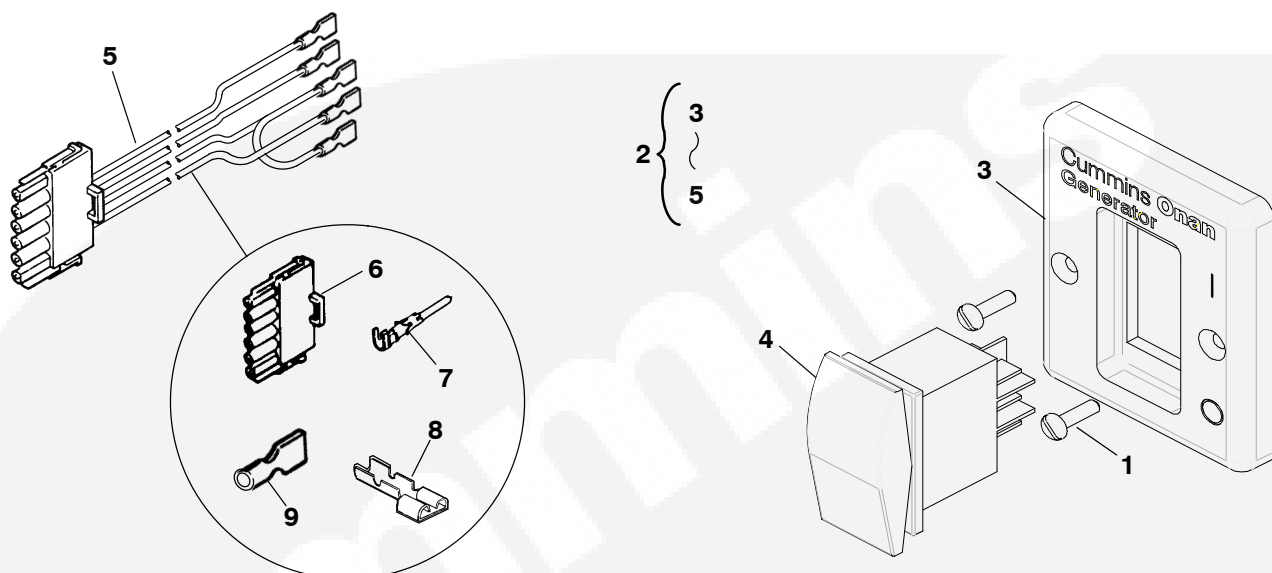
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	323-1744	1	+*Connector, Receptacle (8 Pin)
5	323-1712	3	+*Plug, Cavity
6	323-1708	5	+*Seal, Cable
7	323-1707	5	+*Pin, Contact
8	323-1741	1	+*Lock, Housing
9	323-1200	1	##Contact, Socket
10	323-1342	1	##Cap, Connector

+ - Parts Included in Extension Harness

* - Parts Included in Customer Interface Pigtail Harness

- Parts Included in Adapter Harness

Remote Control Panel (Switch Only) (Spec H)

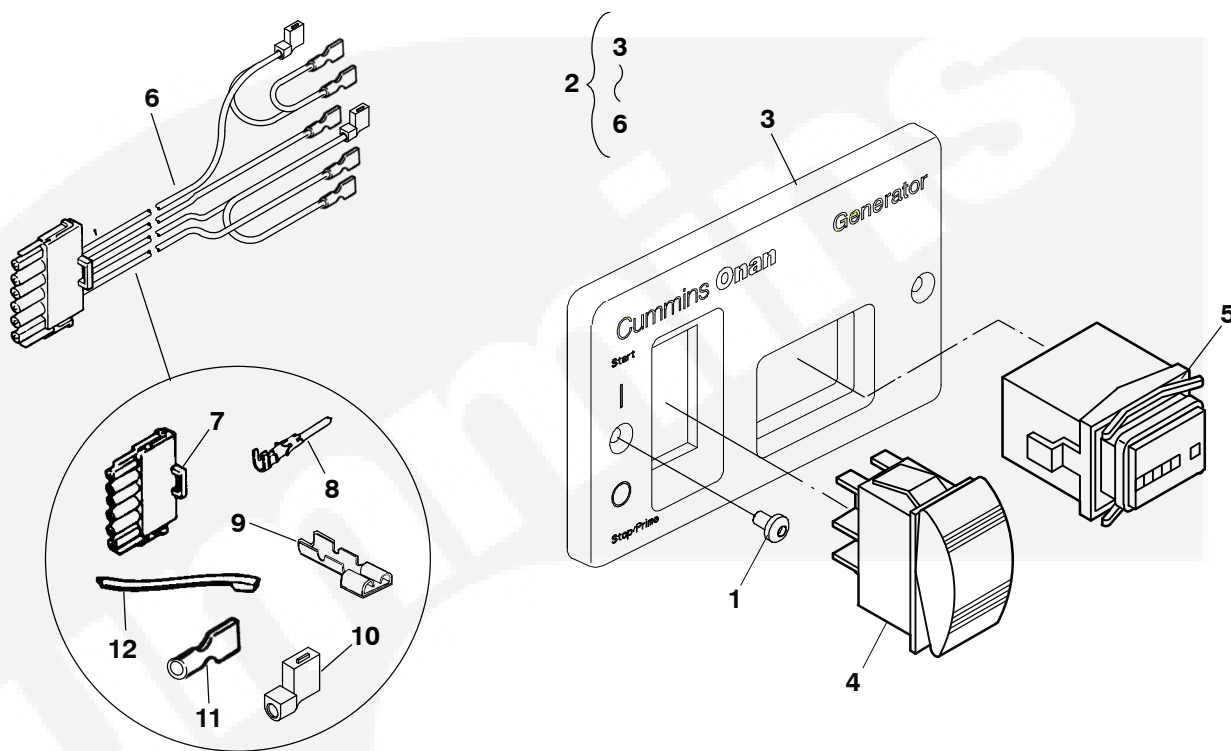


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4936	1	Kit, Remote Panel (Switch Only)
1	815-0910	2	Screw, Wood (#6 x 1")
2	300-4953-01	1	Panel Assy, Remote (Includes Parts Marked ^)
3	319-2339-01	1	^Panel, Printed
4	308-1062	1	^Switch, Start/Stop
5	338-3510	1	^Harness, Remote Panel (Reaches from Remote Panel to Extension Harness) (Includes Parts Marked #)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	323-1304	1	#Plug, 6-Pin
7	323-1199	4	#Pin, Contact
8	332-0529	3	#Terminal, Receptacle (.25)
9	332-2870-01	2	#Terminal, Receptacle (.25)

^ - Parts Included in Remote Panel Assy.
- Parts Included in Remote Panel Harness.

Remote Control Panel (Switch and Hourmeter) (Spec F-H)

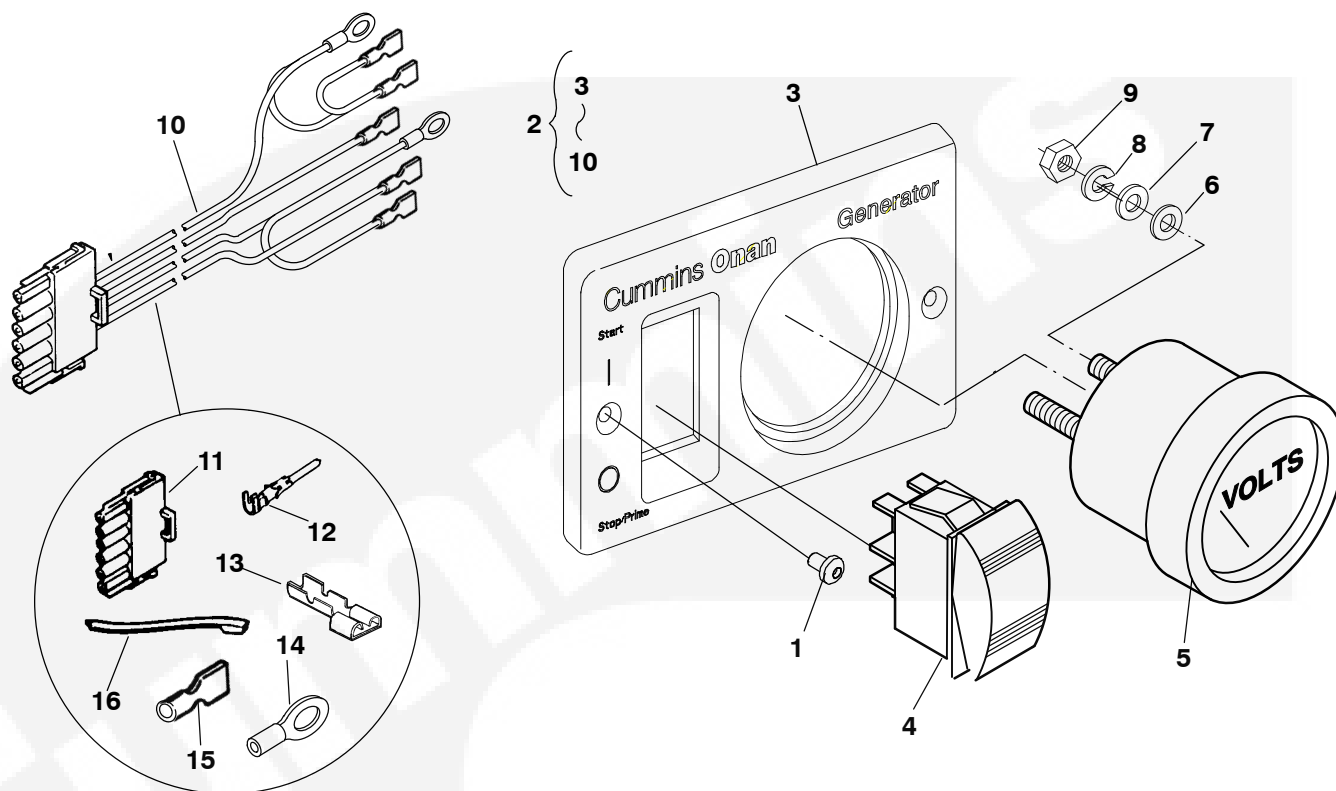


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4937	1	Kit, Remote Panel (Switch and Hourmeter)
1	815-0910	2	Screw, Wood (#6 x 1")
2	300-4951-01	1	Panel Assy, Remote (Includes Parts Marked ^)
3	319-2340-03	1	^Panel, Printed
4	308-1062	1	^Switch, Start/Stop
5	302-2002	1	^Meter, Hour
6	338-3466	1	^Harness, Remote Panel (Reaches from Remote Panel to Extension Harness) (Includes Parts Marked #)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	323-1304	1	#Plug, 6-Pin
8	323-1199	4	#Pin, Contact
9	332-0529	4	#Terminal, Receptacle (.25)
10	332-2572	2	#Terminal, Receptacle (90°)
11	332-2870-01	1	#Terminal, Receptacle (.25)
12	332-1445	AR	#Tie, Cable

^ - Parts Included in Remote Panel Assy.
- Parts Included in Remote Panel Harness.

Remote Control Panel (Switch and Voltmeter) (Spec F-H)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4938	1	Kit, Remote Panel (Switch and Voltmeter)
1	815-0910	2	Screw, Wood (#6 x 1")
2	300-4952-01	1	Panel Assy, Remote (Includes Parts Marked ^)
3	319-3132-02	1	^Panel, Printed
4	308-1062	1	^Switch, Start/Stop
5	302-1641	1	^Meter, Volt
6	526-0409	2	^Washer, Nylon Flat (#10)
7	526-0049	4	^Washer, Brass Flat (#10)
8	850-0030	2	^Washer, Lock (#10)
9	871-0010	4	^Nut, Hex Brass Machine (#10-32)
10	338-3507	1	^Harness, Remote Panel (Reaches from Remote Panel to Extension Harness) (Includes Parts Marked #)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	323-1304	1	#Plug, 6-Pin
12	323-1199	4	#Pin, Contact
13	332-0529	3	#Terminal, Receptacle (.25)
14	332-0807	2	#Terminal, Ring (#10)
15	332-2870-01	5	#Terminal, Receptacle (.25)
16	332-1445	AR	#Tie, Cable

^ - Parts Included in Remote Panel Assy.
- Parts Included in Remote Panel Harness.

Labels, Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-6762	1	Label, Important (Service Door)				
			Label, Model Ident				Label Pkg, Control (Begin Spec J)
	98-6288-01	1	Spec H				60Hz
	98-7620-01	1	Begin Spec J				
	98-6596-01	1	Label, Tracker Logo (Spec 98708)	98-7634-03	1		120V (Includes Labels Marked +)
	98-6526-01	1	Label, Warning (Clearance)	98-7634-01	1		100V (Includes Labels Marked ↓)
			Label Pkg (Includes Parts Marked *)	98-7634-02	1		50Hz (Includes Labels Marked >)
	98-7282-01	1	60 Hz				Label, Circuit Breaker
	98-7282-03	1	50 Hz	98-7639-01	1	↓	17A, 2 Pole
			*Label, Air Filter	98-7629-02	1	>	20A, 2 Pole
	98-6769	1	60 Hz	98-7629-03	1	+	30A, 1 Pole
	98-7282-03	1	50 Hz	98-7630	1	^>+	Label, Indicator Light
			*Label, Caution (Recirculating Hot Air)	98-7631	1	^>+	Label, Start/Stop/Prime
	98-6540-01	1	60 Hz				Label Pkg
	98-6817	1	50 Hz				60Hz
	98-6806	1	*Label, Charger (Disconnect (Obsolete)(Disconnect Leads)(50 Hz and 100V, 60 Hz)	168-0213	1		Kit, Gasket – Includes the Following:
				101-0788	1		Gasket, Bearing Plate
	98-6805	1	*Label, Charger Leads (Obsolete)(Disconnect Leads)(50 Hz and 100V, 60 Hz)	102-1412	1		Gasket, Oil Base
			*Label, Control	110-3893	1		Gasket, Cylinder Head
	98-7282-02	1	60Hz	110-3861	1		Gasket, Valve Cover
	98-6518-02	1	50 Hz, 15A	140-2586	1		Gasket, Air Cleaner
	98-6518-01	1	50 Hz, 5A	145-0695	1		Gasket, Carburetor Flange
			*Label, Ground	146-0531	1		Gasket, Insulator
	98-6476	1	60 Hz	146-0533	1		Gasket, Carburetor
	98-7282-03	1	50 Hz	154-2816	1		Gasket, Exhaust
			*Label, Warning (Hazardous Voltage)	154-2821	1		Gasket, Intake Elbow
	98-6434	1	60 Hz	155-2677-01	1		Gasket, Resonator
	98-7282-03	1	50 Hz				
			*Label, Warning (Rotating Fan)				
	98-7282	1	60 Hz				
	98-7282-03	1	50 Hz				

* – Labels Included in Label Pkg

+ – Labels Included in 120V/60Hz Control Labels Assy.

↓ – Labels Included in 100V/60Hz Control Labels Assy.

> – Labels Included in 50Hz Control Labels Assy.

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