



Parts Manual

Marine Generator Set

MDDCA (Spec A–C)

MDDCB (Spec A–C)

MDDCC (Spec A–C)

MDDCD (Spec A–C)

MDDCE (Spec A–C)

MDDCF (Spec A–C)

MDDCG (Spec A–C)

MDDCH (Spec A–C)

MDDCJ (Spec A–C)

MDDCK (Spec A–C)

MDDCL (Spec A)

MDDCM (Spec A)

MDDCN (Spec A)

MDDCP (Spec A)

MDDCR (Spec A)

Introduction

This manual applies to Onan Generator Models MDDC, as listed in the Generator Set Data Table. 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.

Engine parts that have been modified or added by Onan are identified in this catalog. All other engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturer's nameplate and supplying all available information. Contact your nearest engine parts dealer for assistance in ordering replacement parts.

Replacement Engine

Replacement engines cannot be ordered from Cummins Onan. To Order a replacement engine record the engine model and serial number from the engine nameplate and contact your nearest John Deere distributor.

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
40MDDCA*	40,000	#	60	4 or 12	1 or 3	12 or 24 VDC
55MDDCB*	55,000	#	60	4 or 12	1 or 3	12 or 24 VDC
65MDDCC*	65,000	#	60	4 or 12	1 or 3	12 or 24 VDC
80MDDCD*	80,000	#	60	4 or 12	1 or 3	12 or 24 VDC
99MDDCE*	99,000	#	60	4 or 12	1 or 3	12 or 24 VDC
40MDDCF*	40,000	#	50	4 or 12	1 or 3	12 or 24 VDC
50MDDCG*	50,000	#	50	4 or 12	1 or 3	12 or 24 VDC
65MDDCH*	65,000	#	50	4 or 12	1 or 3	12 or 24 VDC
80MDDCJ*	80,000	#	50	4 or 12	1 or 3	12 or 24 VDC
35MDDCK*	35,000	#	50	4 or 12	1 or 3	12 or 24 VDC
40MDDCL*	40,000	#	60	4 or 12	1 or 3	12 or 24 VDC
55MDDCM*	55,000	#	60	4 or 12	1 or 3	12 or 24 VDC
65MDDCN*	65,000	#	60	4 or 12	1 or 3	12 or 24 VDC
80MDDCP*	80,000	#	60	4 or 12	1 or 3	12 or 24 VDC
99MDDCR*	99,000	#	60	4 or 12	1 or 3	12 or 24 VDC

– Board range reconnectable.

* – The specification numbers denotes customer requested options or deviations from a standard model. The specification letter advances (D to E, E to F, etc.) with major manufacturing changes.

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Abbreviations

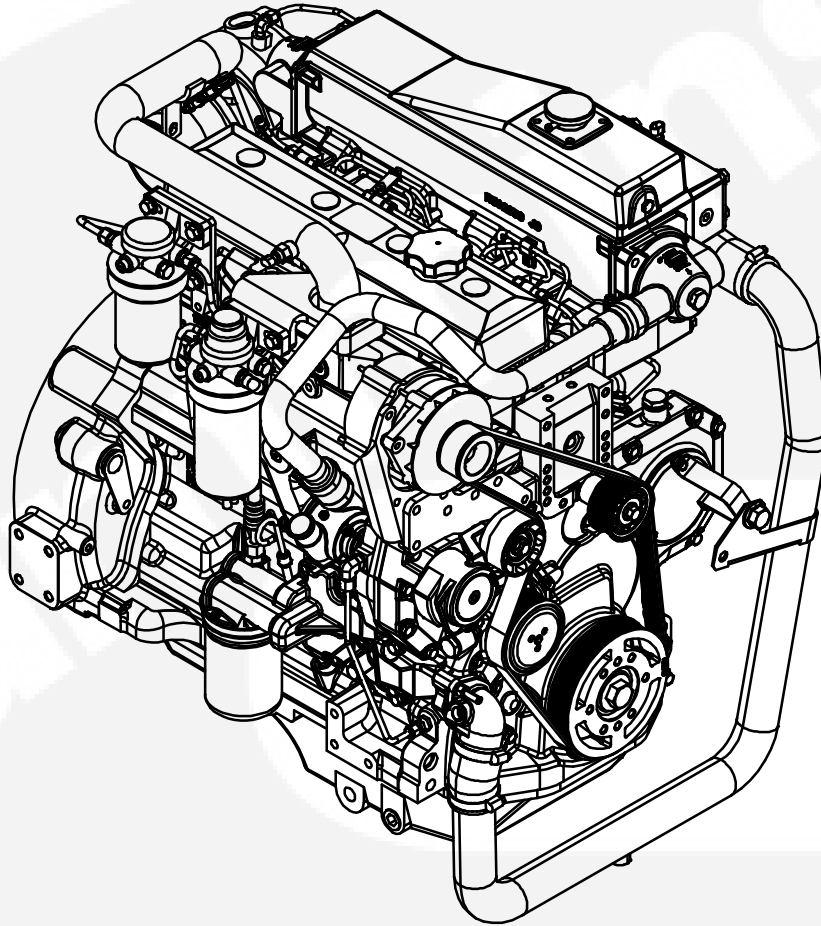
Some of the following abbreviations may be used throughout this Parts Catalog;

Alternating Current	AC	Millimeter	mm
Ampere	Amp	Not For Sale	NFS
As Required	A/R	Nominal Pipe Thread	NPT
Automatic Voltage Regulator	AVR	Outside Diameter	OD
American Wire Gauge	AWG	Ounce	oz.
Degree	Deg	Phase	Ph
Direct Current	DC	Printed Circuit	PC
External Tooth	ET	Right	RT
External/Internal Tooth	EIT	Specification	Spec
Ground Fault Interrupter	GFI	Thick	Thk
Inside Diameter	ID	Union National Coarse	UNC
Internal Tooth	IT	Union National Fine	UNF
Kilowatt	kW	Volts Alternating Current	VAC
Liquid Petroleum Gas	LPG	Volts Direct Current	VDC
Left	LT	With	W/(ET, IT, EIT)
Meter	M(Meter Number)		

Paint and Thread Sealant

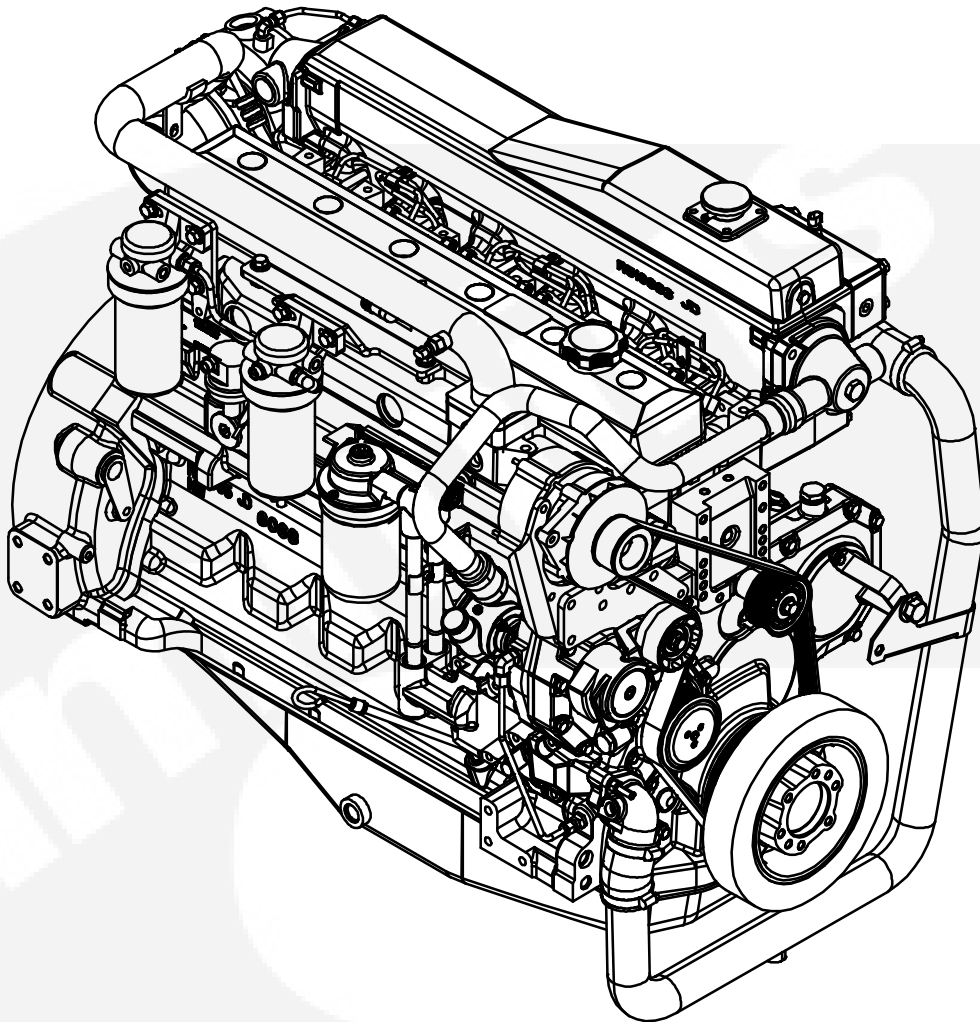
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	525-0700-02	-	Paint, Marine Brite-White (12 oz. Pressurized Spray Can)		518-0601	-	Sealant, Thread (6 ml Tube)

Engine w/starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Engine	100-3888-08	1		(24V_KEEL_CLG_60HZ Dry)
	100-3889-08	1	(24V_KEEL_CLG_60HZ Dry)	100-3888-07	1		(24V_KEEL_CLG_50HZ Dry)
	100-3889-07	1	(24V_KEEL_CLG_50HZ Dry)	100-3888-06	1		(24V_HT_EXCH_60HZ)
	100-3889-06	1	(24V_HT_EXCH_60HZ)	100-3888-05	1		(24V_HT_EXCH_50HZ)
	100-3889-05	1	(24V_HT_EXCH_50HZ)	100-3888-04	1		(12V_KEEL_CLG_60HZ Dry)
	100-3889-04	1	(12V_KEEL_CLG_60HZ Dry)	100-3888-03	1		(12V_KEEL_CLG_50HZ Dry)
	100-3889-03	1	(12V_KEEL_CLG_50HZ Dry)	100-3888-02	1		(12V_HT_EXCH_60HZ)
	100-3889-02	1	(12V_HT_EXCH_60HZ)	100-3888-01	1		(12V_HT_EXCH_50HZ)
	100-3889-01	1	(12V_HT_EXCH_50HZ)				

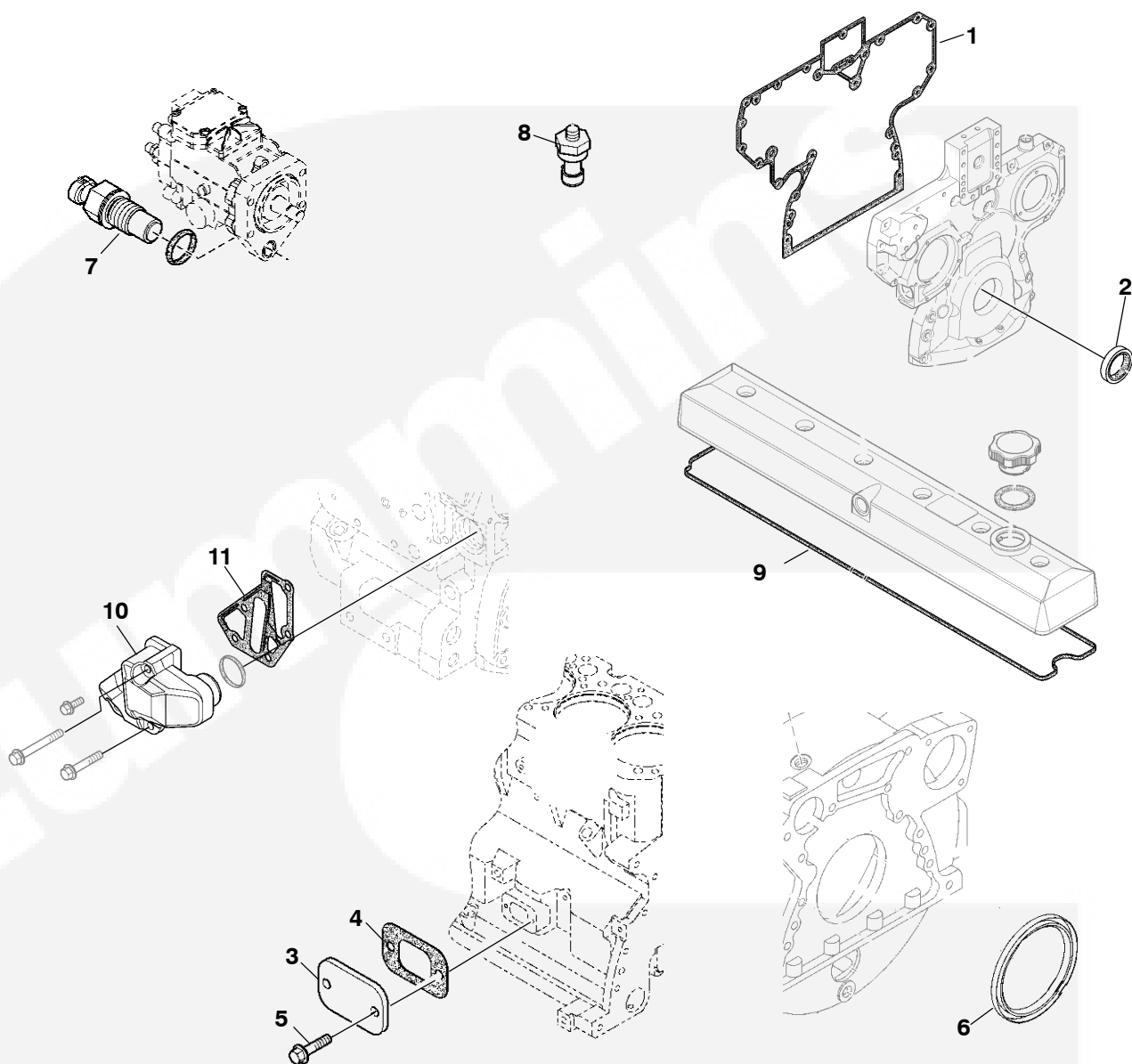
Engine w/o starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		1	Engine	A030N913	1	*	(24V_HT_EXCH_50HZ)
A030N938	1	*	(24V_KEEL_CLG_60HZ Dry) (MDDCD, MDDCE, MDDCH, MDDCJ)	A030N914	1	*	(24V_HT_EXCH_60HZ) (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK)
A030N937	1	*	(24V_KEEL_CLG_50HZ Dry) (MDDCD, MDDCE, MDDCH, MDDCJ)	A030N915	1	*	(24V_KEEL_CLG_50HZ Dry) (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK)
A030N934	1	*	(24V_HT_EXCH_60HZ) (MDDCD, MDDCE, MDDCH, MDDCJ)	A030N916	1	*	(24V_KEEL_CLG_60HZ Dry) (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK)
A030N933	1	*	(24V_HT_EXCH_50HZ) (MDDCD, MDDCE, MDDCH, MDDCJ)	A044D150	1	*	(24V_KEEL_CLG_60HZ Dry) (MDDCL, MDDCM, MDDCN)
A030N930	1	*	(12V_KEEL_CLG_60HZ Dry) (MDDCD, MDDCE, MDDCH, MDDCJ)	A044D151	1	*	(24V_HT_EXCH_60HZ) (MDDCL, MDDCM, MDDCN)
A030N929	1	*	(12V_KEEL_CLG_50HZ Dry) (MDDCD, MDDCE, MDDCH, MDDCJ)	A044D152	1	*	(12V_KEEL_CLG_60HZ Dry) (MDDCL, MDDCM, MDDCN)
A030N928	1	*	(12V_HT_EXCH_60HZ) (MDDCD, MDDCE, MDDCH, MDDCJ)	A044D153	1	*	(12V_HT_EXCH_60HZ) (MDDCL, MDDCM, MDDCN)
A030N926	1	*	(12V_HT_EXCH_50HZ) (MDDCD, MDDCE, MDDCH, MDDCJ)	A044D155	1	*	(24V_KEEL_CLG_60HZ Dry) (MDDCP, MDDCR)
A030N905	1	*	(12V_HT_EXCH_50HZ) (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK)	A044D156	1	*	(24V_HT_EXCH_60HZ) (MDDCP, MDDCR)
A030N909	1	*	(12V_HT_EXCH_60HZ) (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK)	A044D157	1	*	(12V_KEEL_CLG_60HZ Dry) (MDDCP, MDDCR)
A030N910	1	*	(12V_KEEL_CLG_50HZ Dry) (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK)	A044D158	1	*	(12V_HT_EXCH_60HZ) (MDDCP, MDDCR)
A030N912	1	*	(12V_KEEL_CLG_60HZ Dry) (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK)				

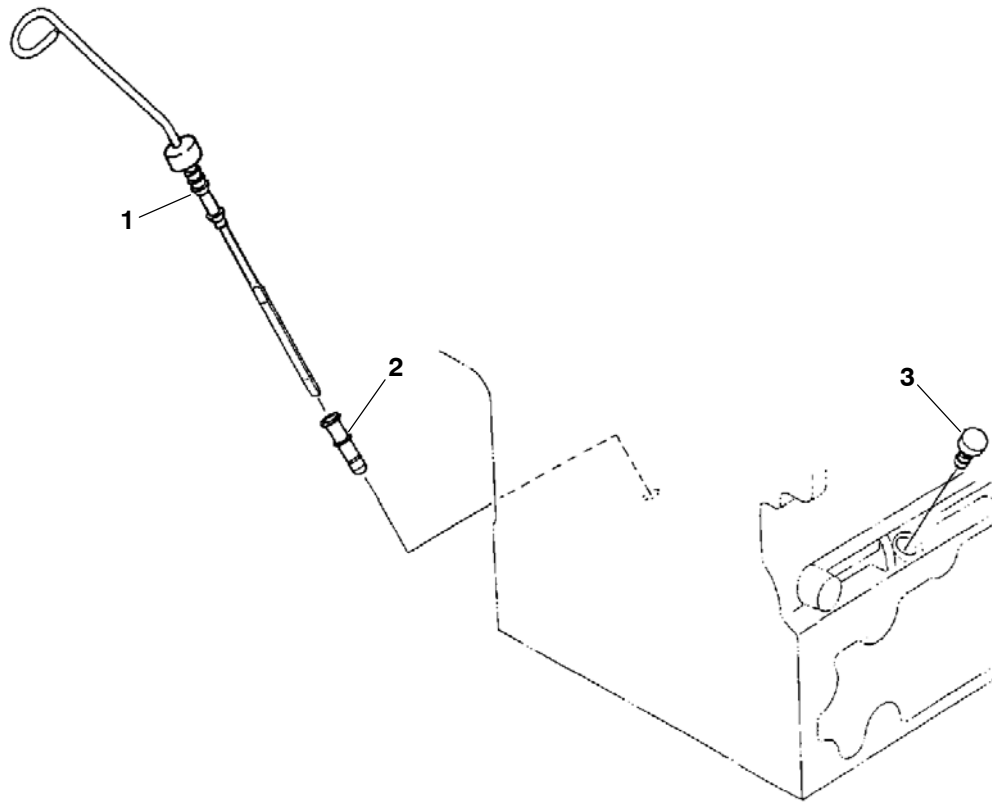
* – Engines sold without starters and starting installation hardware, see starter page for part numbers

External Engine Parts



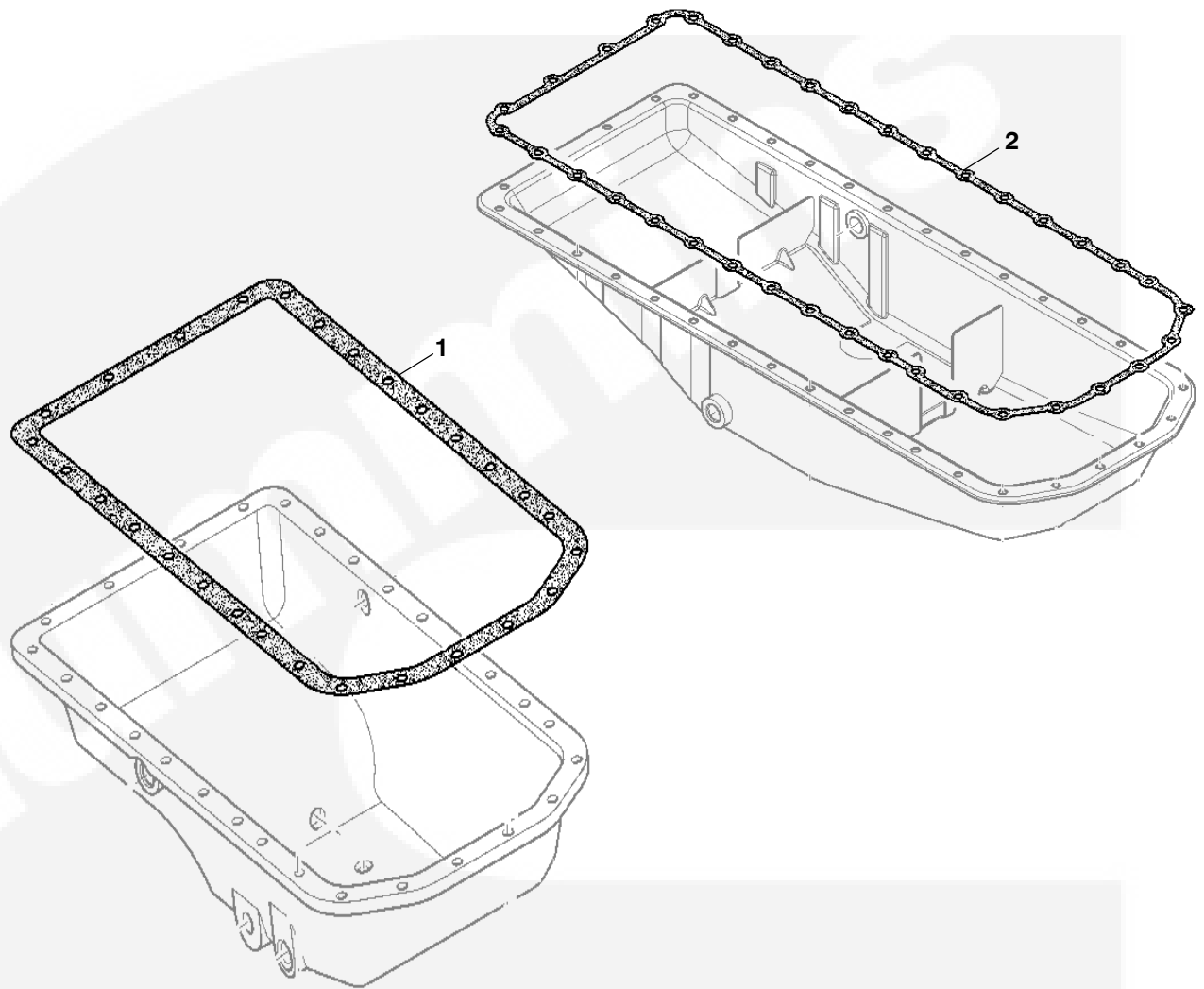
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	234-1029	1	Gasket, Timing Gear Cover	7	150-2829	1	Sensor, Magnetic Pick Up
2	541-1138	1	Kit, Unitized Seal	8	193-0574	1	Sensor, Oil Pressure
3	123-2255	1	Cover, Oil Fill	9	115-0507	1	Gasket, Rocker Arm Cover MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK MDDCL, MDDCM, and MDDCN
4	123-2249	1	Gasket, Oil Fill Cover		115-0508	1	MDDCD, MDDCE, MDDCH MDDCJ, MDDCP and MDDCR
5	800-6318	2	Screw, Cap w/ Pre-applied (M8 x 20mm)	10	102-1520	1	Housing, Oil Cooler
6	509-0398	1	Seal, Rear Oil MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK MDDCL, MDDCM, and MDDCN	11	234-1030	1	Gasket, Oil Cooler Adapter
	509-0407	1	MDDCD, MDDCE, MDDCH and MDDCJ, MDDCP, and MDDCR				

Oil Dipstick



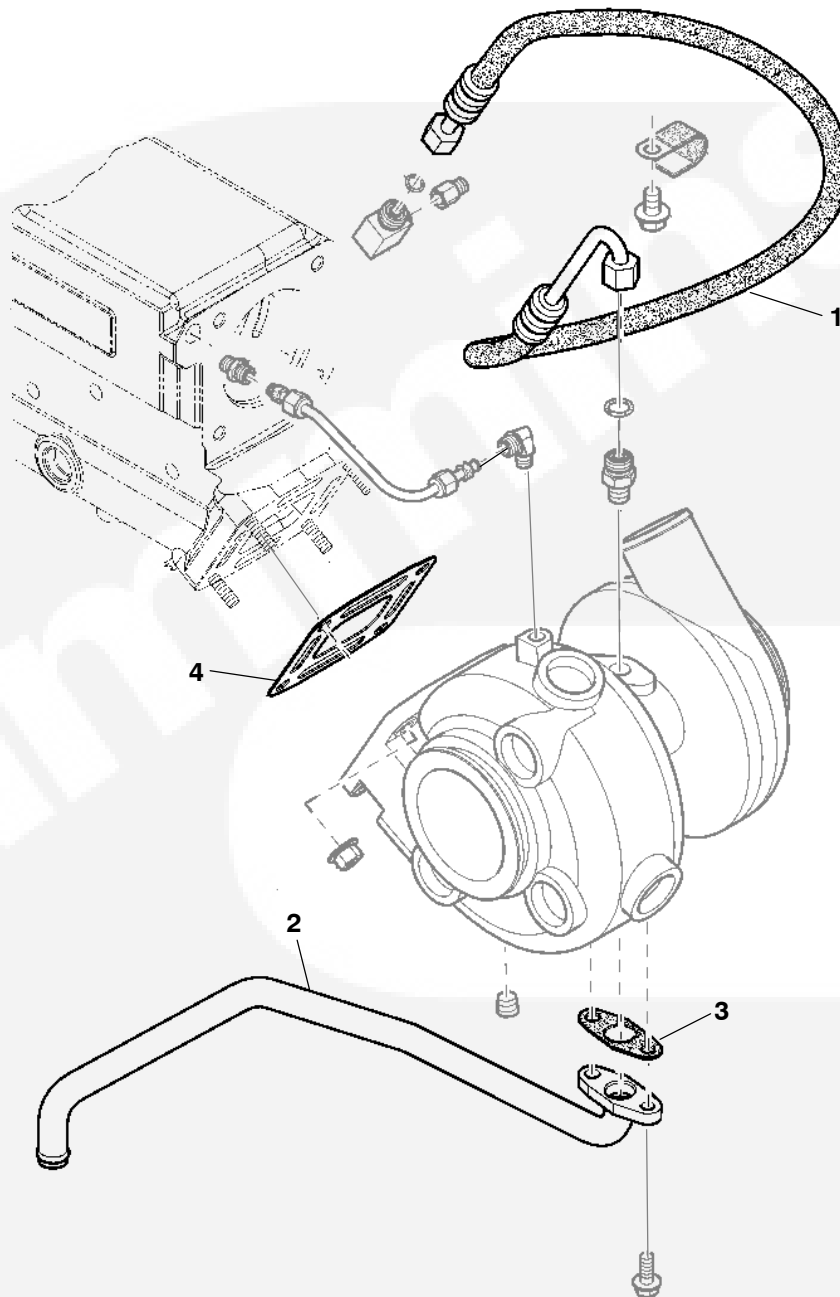
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2256	1	Gauge, Oil
2	123-2257	1	Guide, Oil Gauge
	123-2258	1	MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN
		1	MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR
3	323-2180	1	Plug, Oil Gauge

Oil Pan Gasket



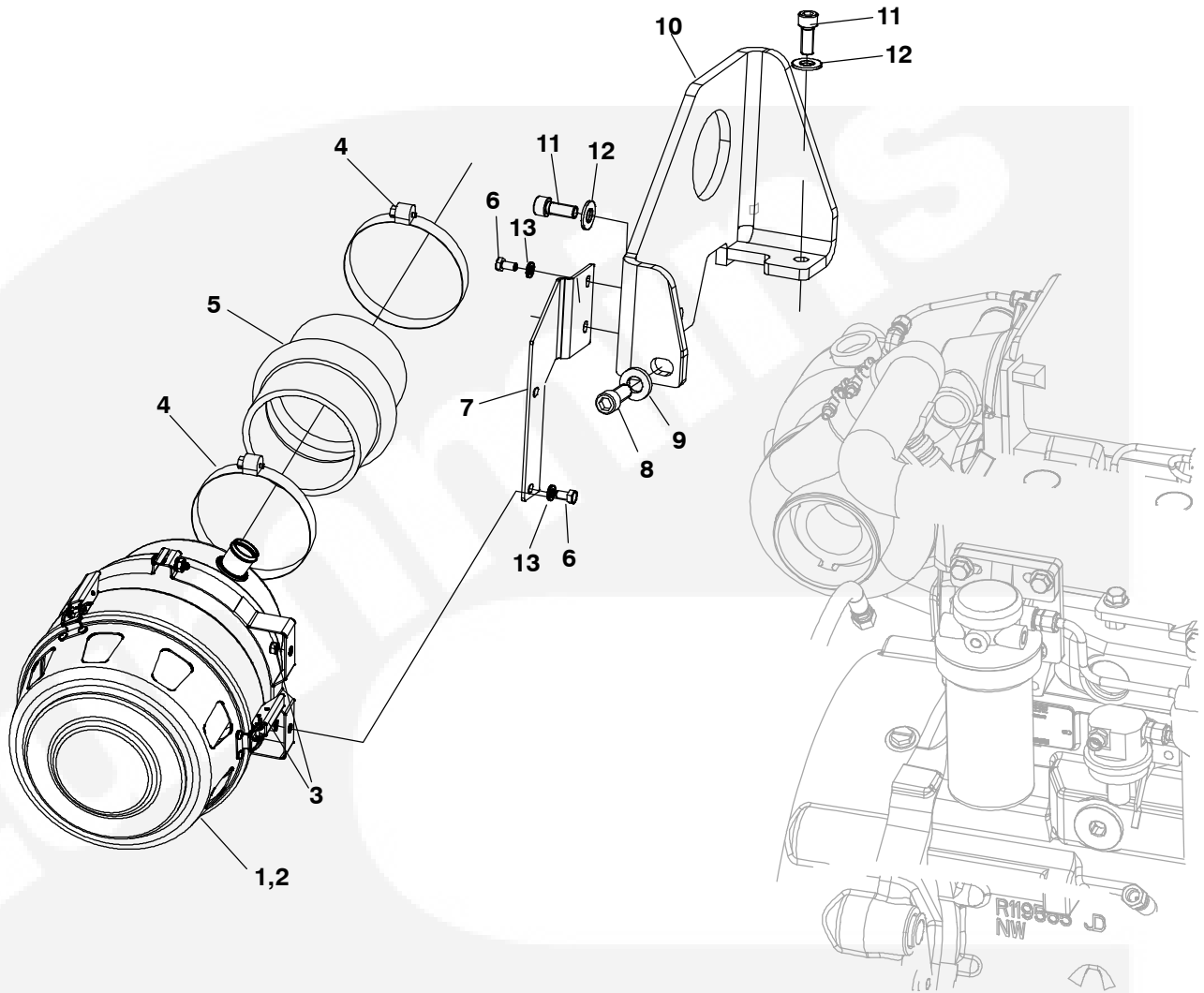
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1517	1	Gasket, Oil Pan (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN)
2	102-1521	1	Gasket, Oil Pan (MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR)

Turbocharger Lines



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0861	1	Line, Flexible Oil
2	501-0862	1	Line, Turbo Drain
3	127-0462	1	Gasket, Turbocharger
4	127-0461	1	Gasket, Turbocharger

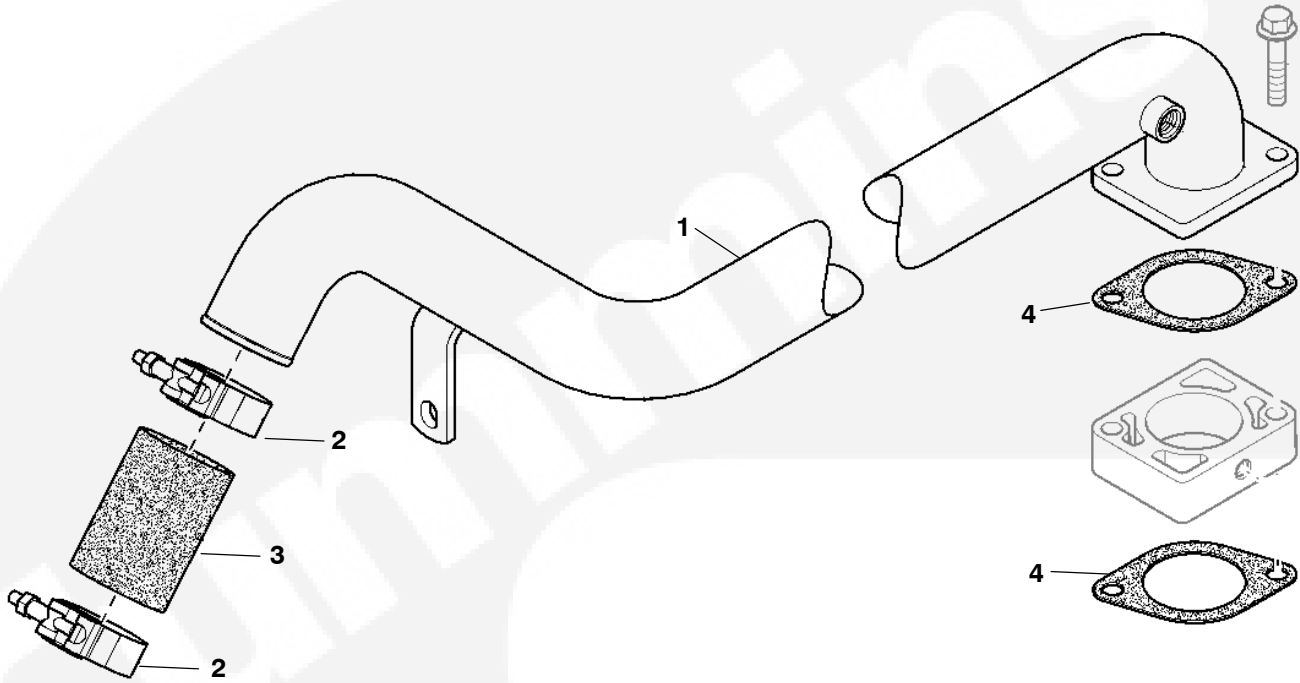
Air Cleaner



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-3589	1	Cleaner, Air
2	140-3752	1	Element, Air Cleaner (Not Shown)
3	862-0026-54	2	Nut, Hex (M6 x 1)
4			Clamp
			4 Cylinder
	503-1872-07	2	50, 60Hz
			6 Cylinder
	503-1872-07	2	50Hz
	503-1872-07	1	60Hz
	503-1872-05	1	60Hz
5			Hose, Intake
			4 Cylinder
	503-2476	1	50 and 60Hz
			6 Cylinder
	503-2476	1	50Hz

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	503-2477	1	60Hz
6	800-3017-02	4	Screw, Hex Head (M6 x 1 x 12mm)
7	140-3584-03	1	Bracket, Air Cleaner
8	725-1101	1	Screw, Socket Head (M12 x 1.75 x 30mm)
9	526-0399-73	1	Washer, Flat (M12)
10	403-5283-03	1	Bracket, Engine
11	725-1075	2	Screw, Socket Head (M10 x 1.50 x 25mm)
12	526-0399-43	2	Washer, Flat (.438")
13	526-0399-58	4	Washer, Flat (M6)

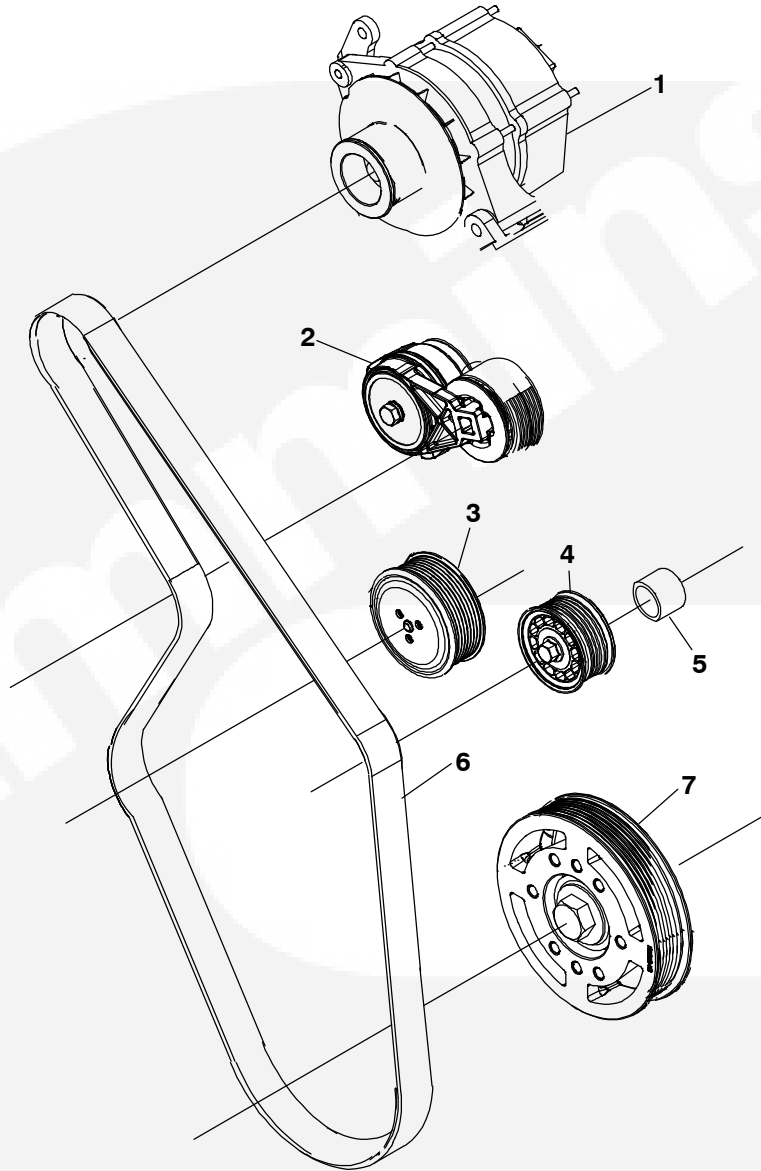
Intake Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6261	1	Tube, Air Inlet MDDCA, MDDCB, MDDCC MDDCF, MDDCG, MDDCK, MDDCL, MDDCM, and MDDCN
	130-6272	1	MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR
2	503-2520	2	Collier

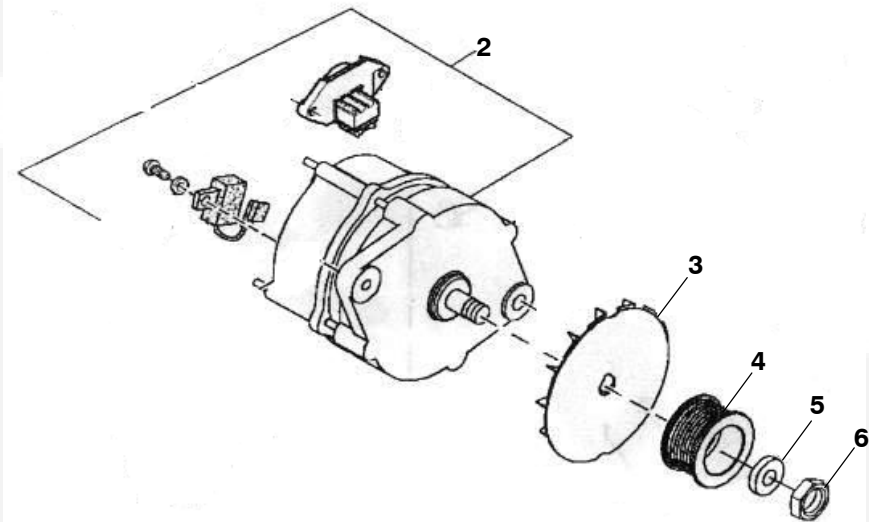
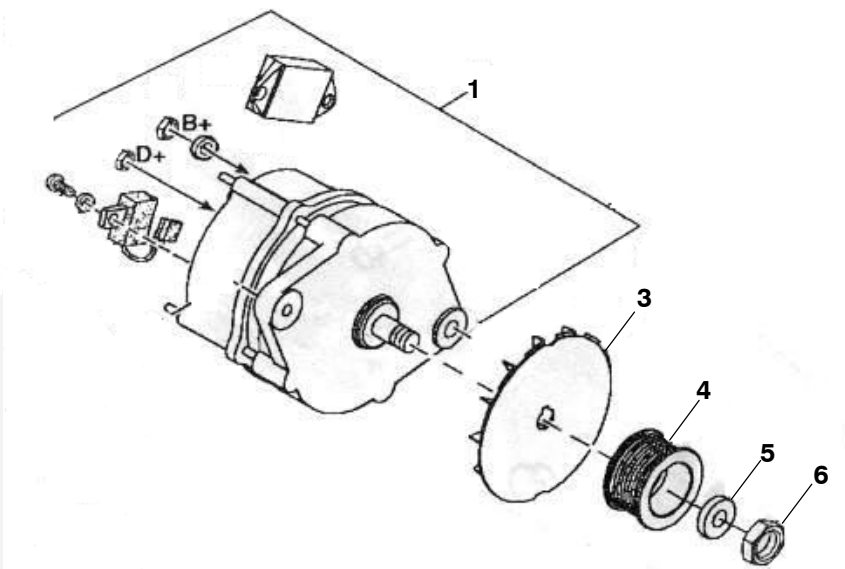
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	503-2521	1	Hose MDDCA, MDDCB, MDDCC MDDCF, MDDCG, MDDCK, MDDCL, MDDCM, and MDDCN
	503-2530	1	MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR
4	154-3186	2	Gasket, Air Inlet

Alternator



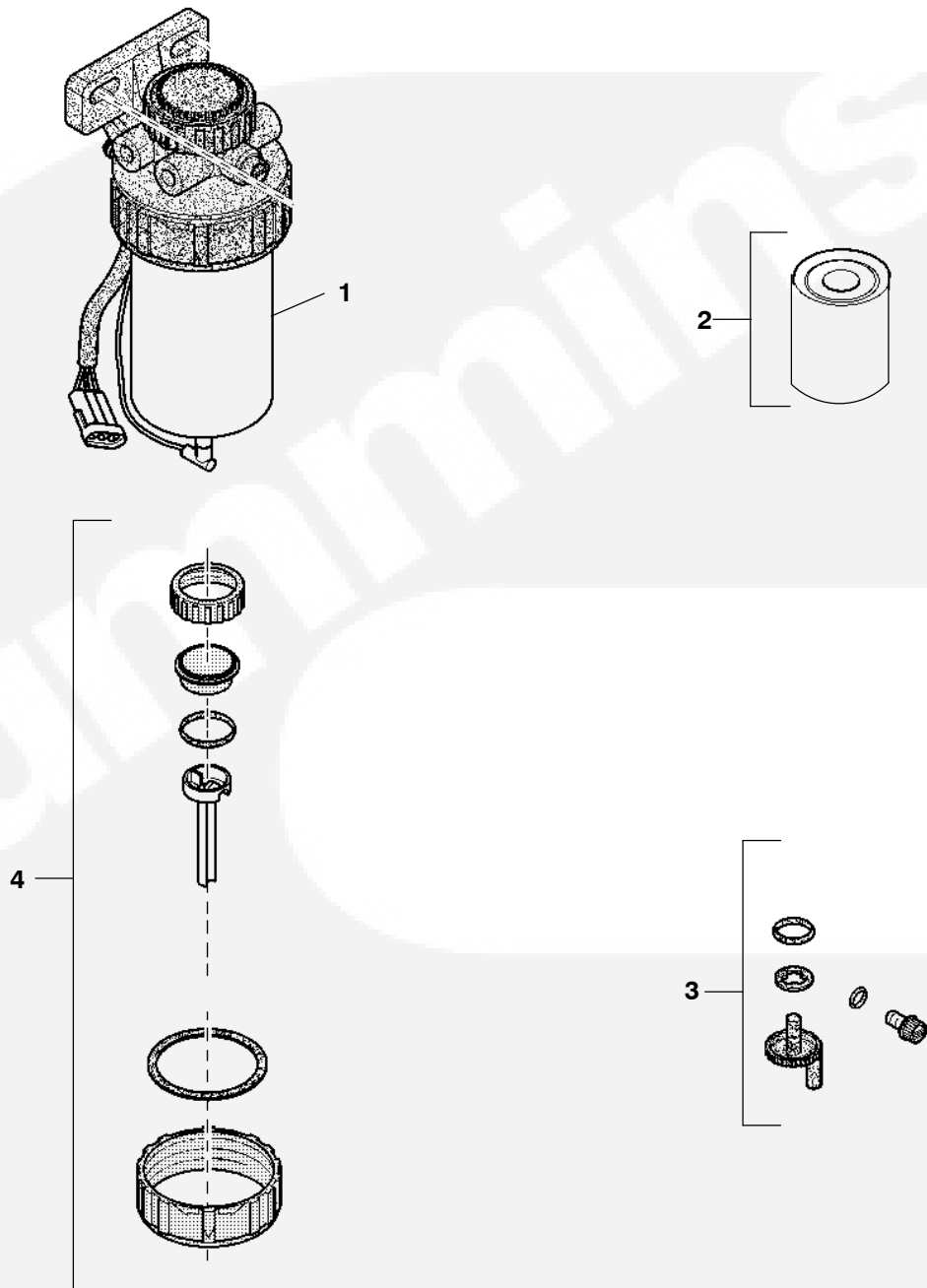
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator	4	512-0290	1	Pulley, Idler
	191-2361	1	12 Volt Iso Gnd	5	130-6265	1	Spacer, Idler Pulley
	191-2362	1	24 Volt Iso Gnd	6	511-0215	1	Belt, Poly Rib
2	512-0291	1	Pulley, Constant Tension Idler	7	512-0289	1	Pulley, Crankshaft
3	512-0292	1	Pulley, with Bearing				

Alternator Neg Ground



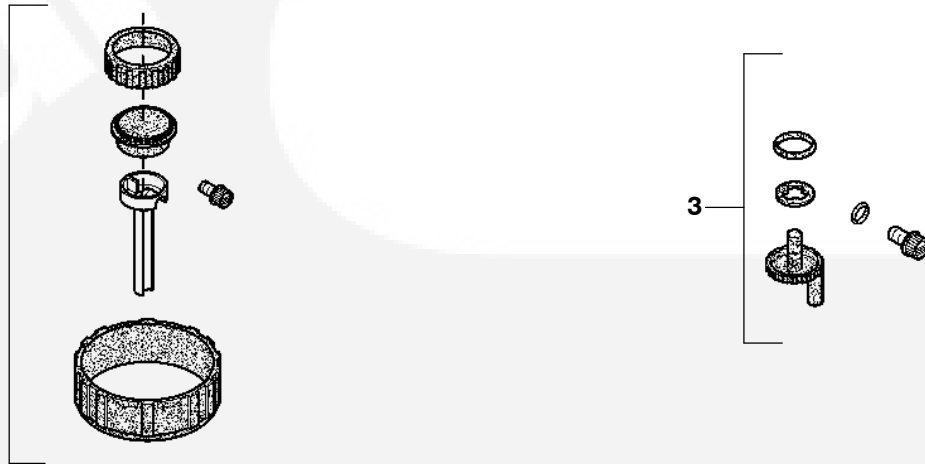
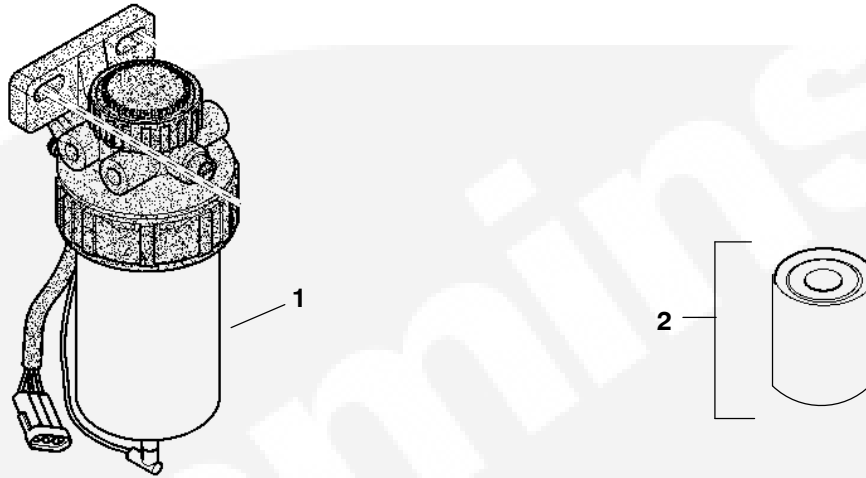
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	191-2357		Alternator, 12 Volt Neg Gnd	4	A029T483	1	Pulley, Alternator
2	191-2358	1	Alternator, 24 Volt Neg Gnd	5	A029T482	1	Washer
3	A029T484	1	Fan, Alternator	6	A029T480	1	Nut

Fuel Filter
(MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN)



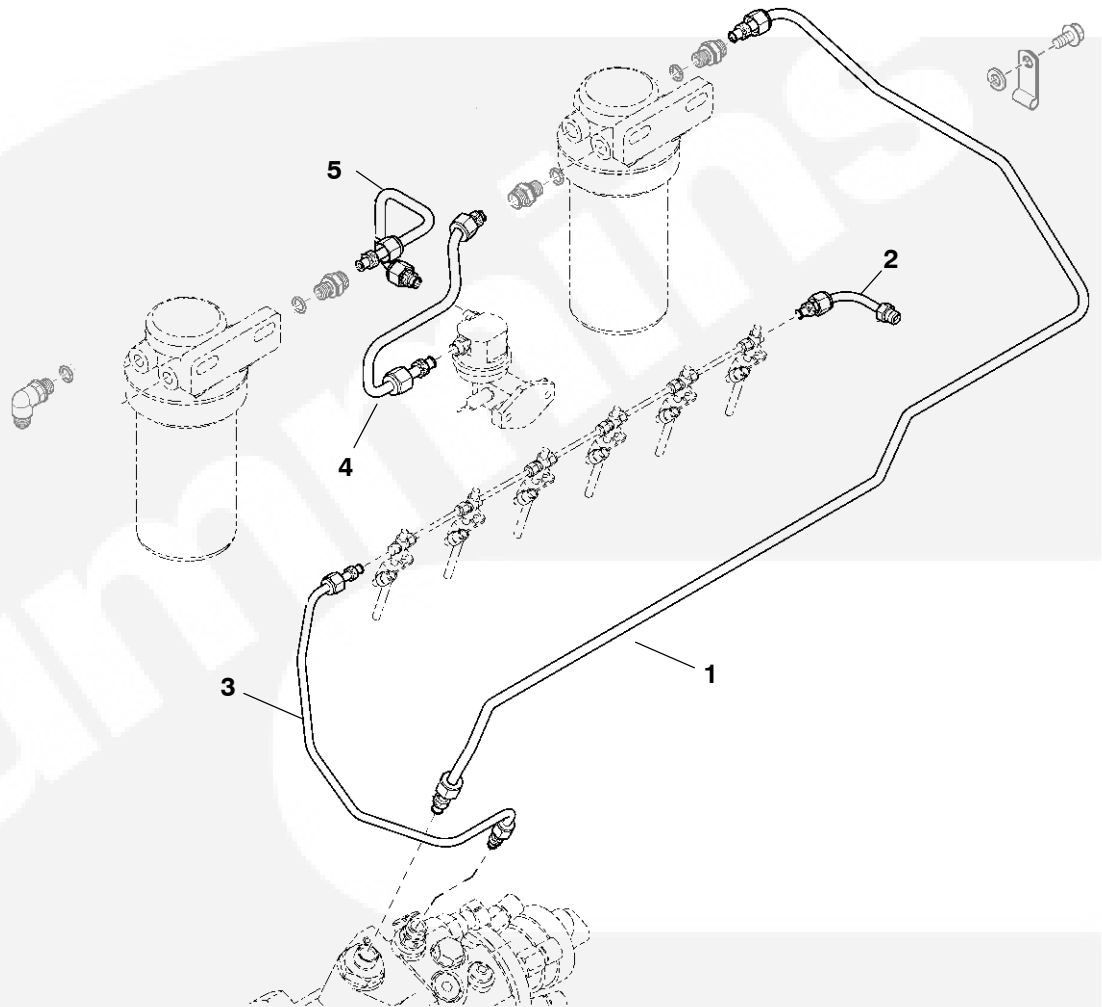
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Assy, Fuel Filter (Includes Header, Seal, O'Ring and Retainers	2			Element, Filter (Includes Drain Valve
	149-2728		Primary		149-2722	1	4.5" Primary"
	149-2729		Primary		149-2723	1	4.3" Secondary
				3	541-1144	1	Kit, Valve (Primary and Secondary)
				4	541-1145	1	Kit, Header Final Filter (Primary and Secondary)

Fuel Filter **(MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR)**



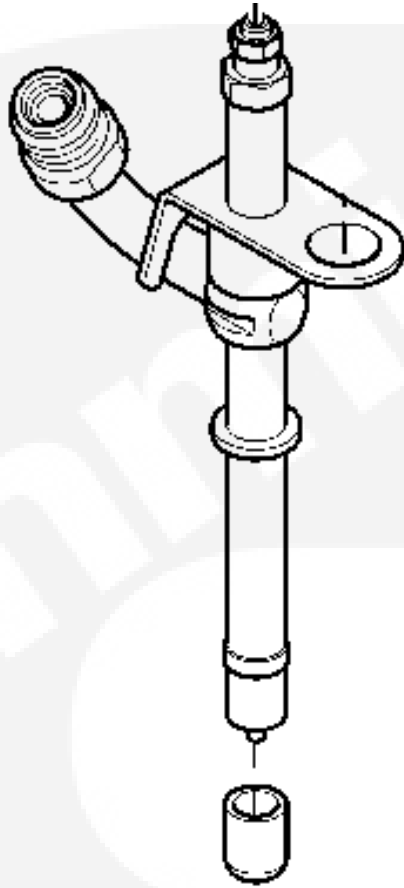
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Assy, Fuel Filter (Includes Header, Retainers, Seal and O'Ring)	149-2730	1		Secondary Element, Filter (Includes Element and Drain Vale)
	149-2731	1	Primary(Includes Harness)	149-2724	1		10Mic Primary
	149-2732	1	Secondary(Harness not Included)	149-2725	1		2 Mic Secondary
				3	541-1144	1	Kit, Valve

Fuel Lines



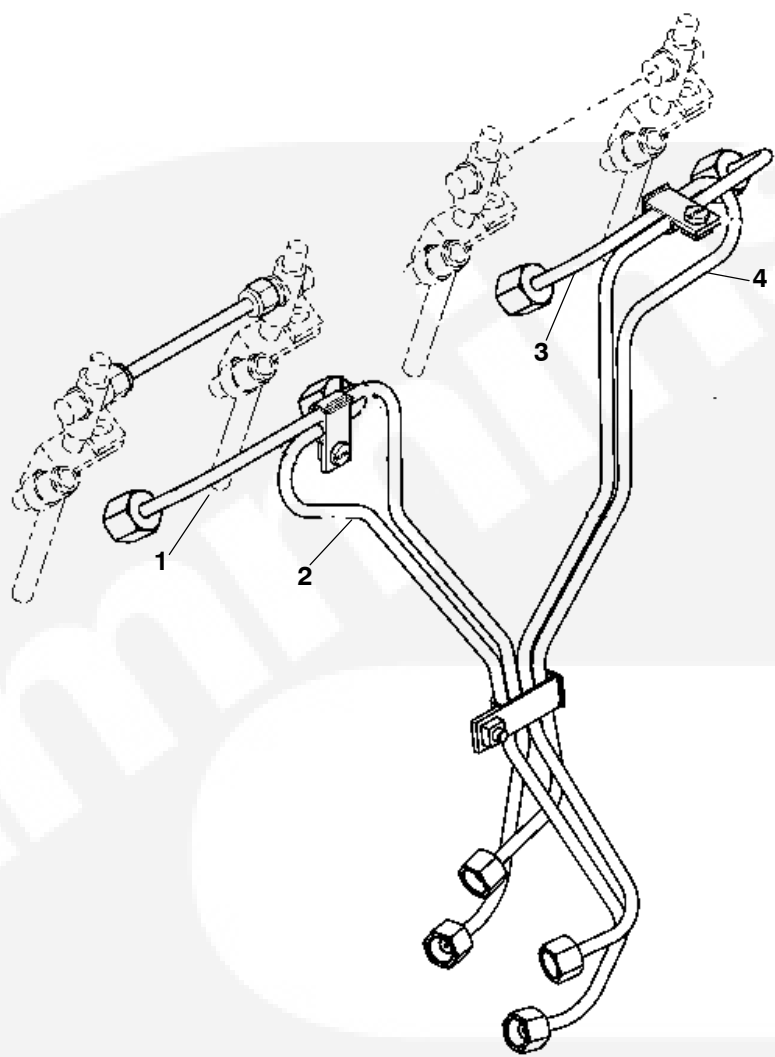
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0859	1	Line, Fuel MDDCA, MDDCB, MDDCC MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN	4	501-0858	1	Line, Fuel
	501-0869	1	MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR	5	501-0860	1	Line, Fuel MDDCA, MDDCB, MDDCC MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN
2	501-0871	1	Line, Fuel		501-0870	1	MDDCD, MDDCE, MDDCH MDDCJ, MDDCP and MDDCR
3	501-0857	1	Line, Fuel				

Fuel Injection System



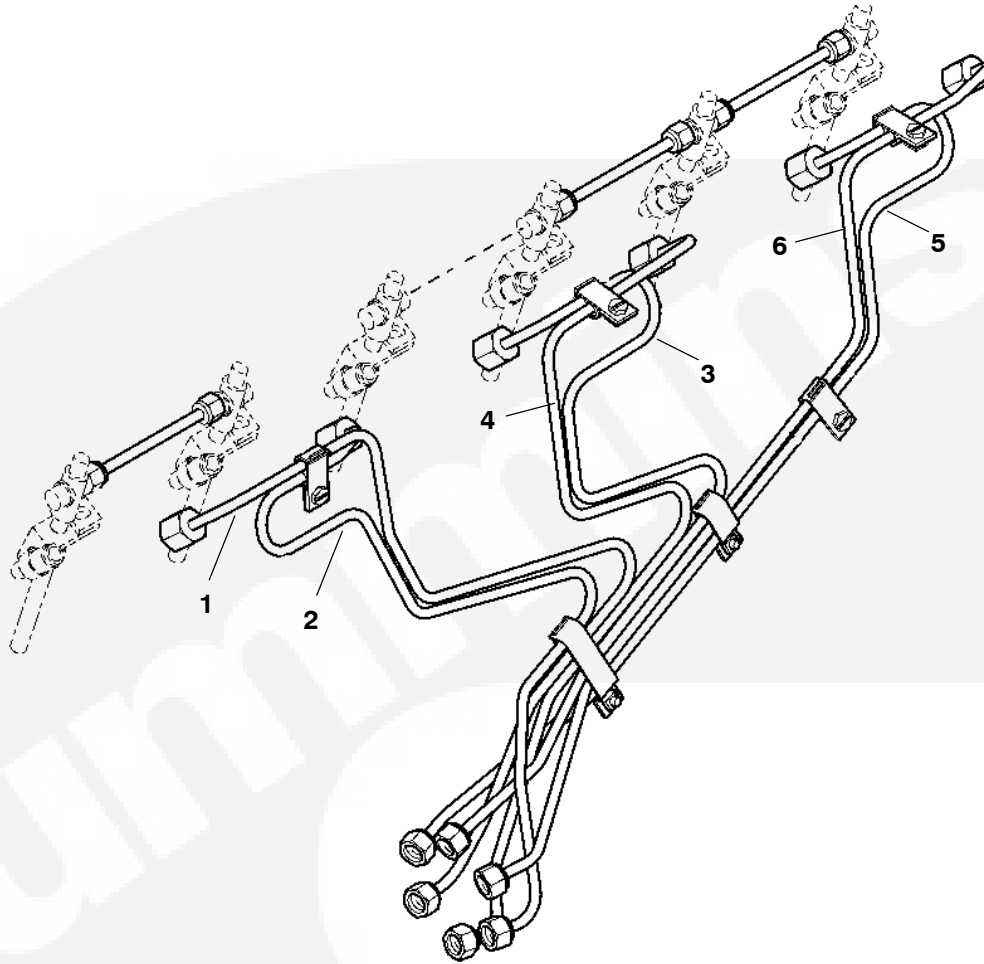
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	147-0887	1	Nozzle, Fuel Injection 4 Cylinder (1500RPM)
	147-0888	1	4 Cylinder (1800RPM)
	147-0889	1	6 Cylinder

Fuel Injection Lines 4 Cylinder
(MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN)



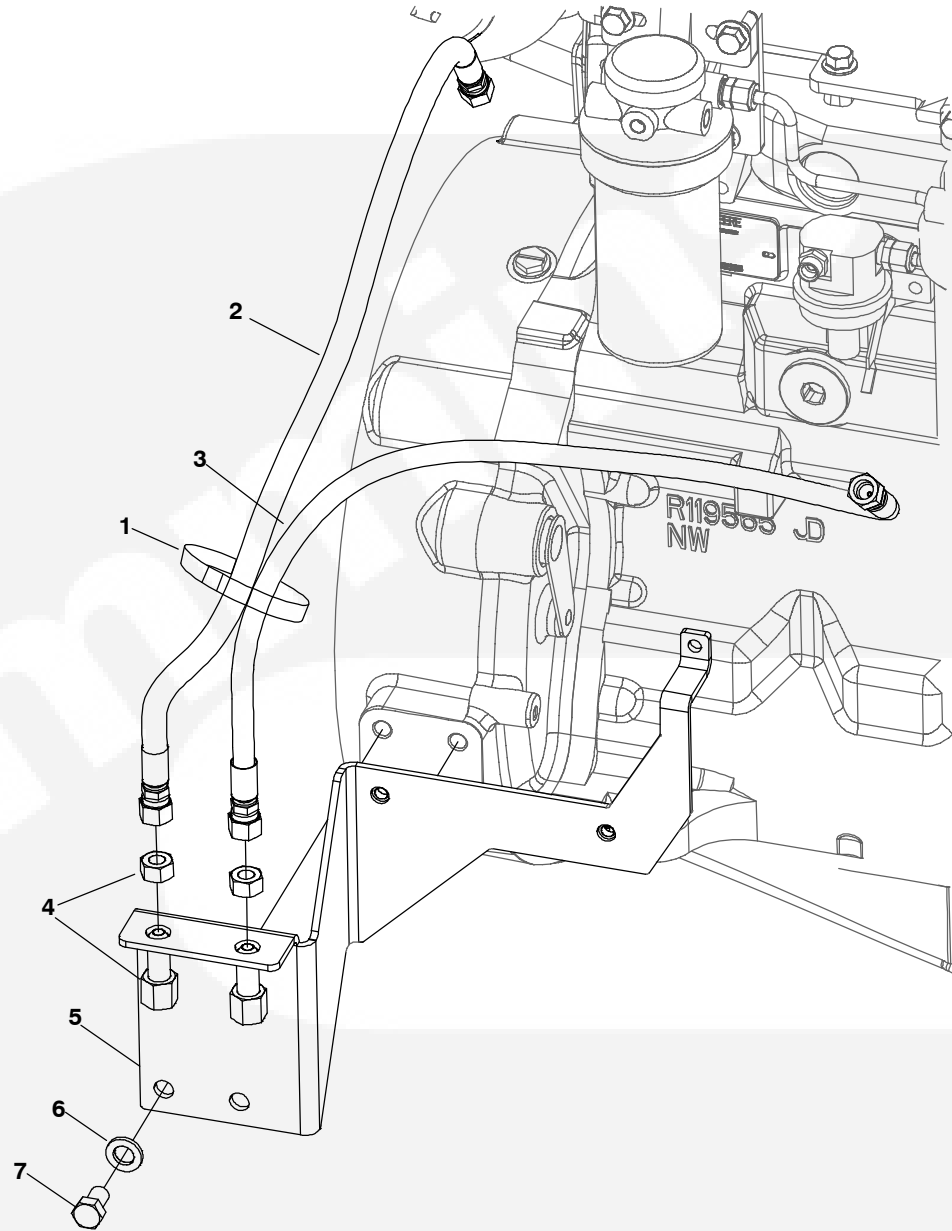
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0852	1	Injection, Line Fuel No.1
2	501-0853	1	Injection, Line Fuel No.2
3	501-0854	1	Injection, Line Fuel No.3
4	501-0855	1	Injection, Line Fuel No.4

**Fuel Injection Lines 6 Cylinder
(MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR)**



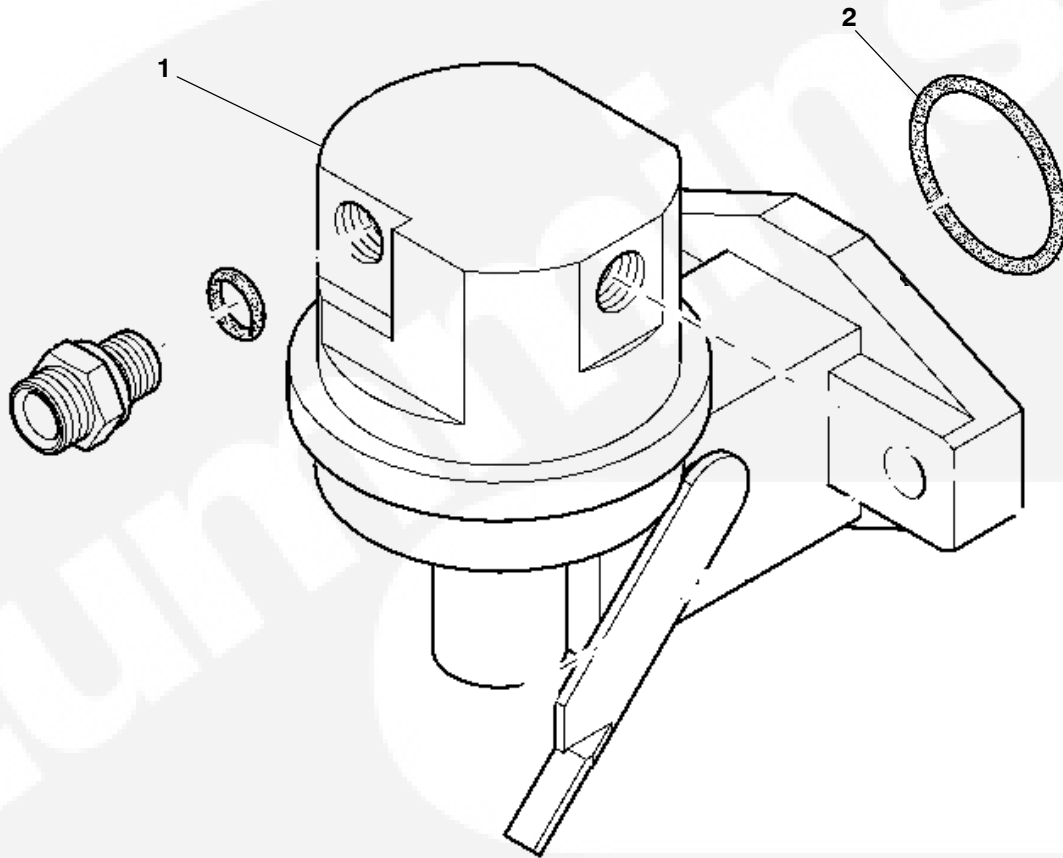
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0863	1	Injection, Line Fuel No. 1
2	501-0864	1	Injection, Line Fuel No. 2
3	501-0865	1	Injection, Line Fuel No. 3
4	501-0866	1	Injection, Line Fuel No. 4
5	501-0867	1	Injection, Line Fuel No. 5
6	501-0868	1	Injection, Line Fuel No. 6

Fuel Lines



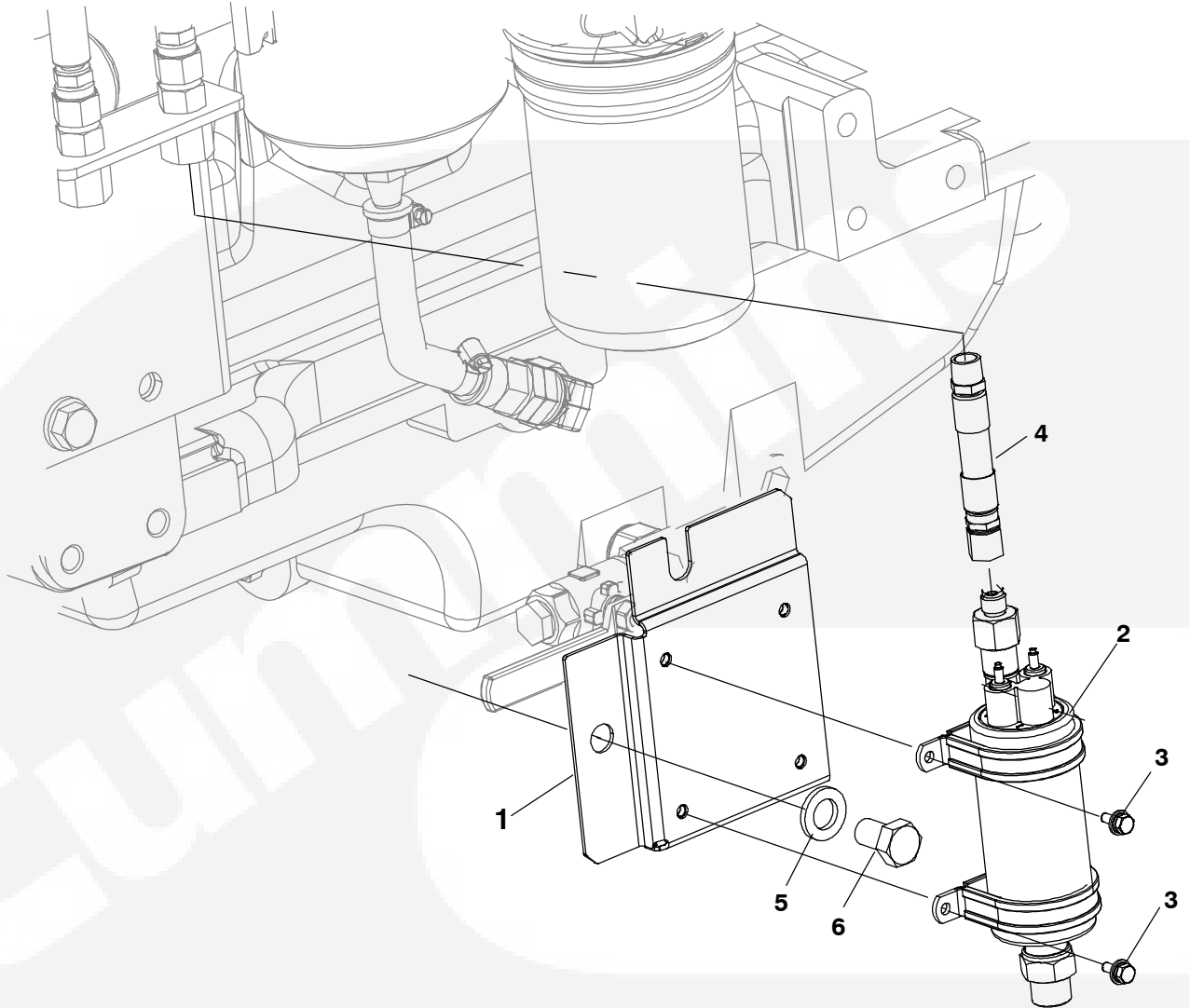
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-0941	1	Clamp, Tie	4	505-1489	2	Connector, Fem Bulkhead
2			Hose, Fuel	5	123-2243-03	1	Bracket, Crank Vent
	503-2495	1	(Spec A-B, MDDCA-K)	6	526-0399-64	2	Washer, Flat (M12)
	A035C429	1	(Spec C, MDDCA-K) (Spec A, MDDCL-R)	7	800-3017-52	2	Screw, Hex Head (M12 x 1.75 x 20mm)
3			Hose, Fuel				
	503-2494	1	(Spec A-B, MDDCA-K)				
	A035B223	1	(Spec C, MDDCA-K) (Spec A, MDDCL-R)				

Fuel Transfer Pump (Mechanical)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-2727	1	Pump, Fuel (Mechanical)
2	509-0401	1	Seal, Fuel Pump O'Ring

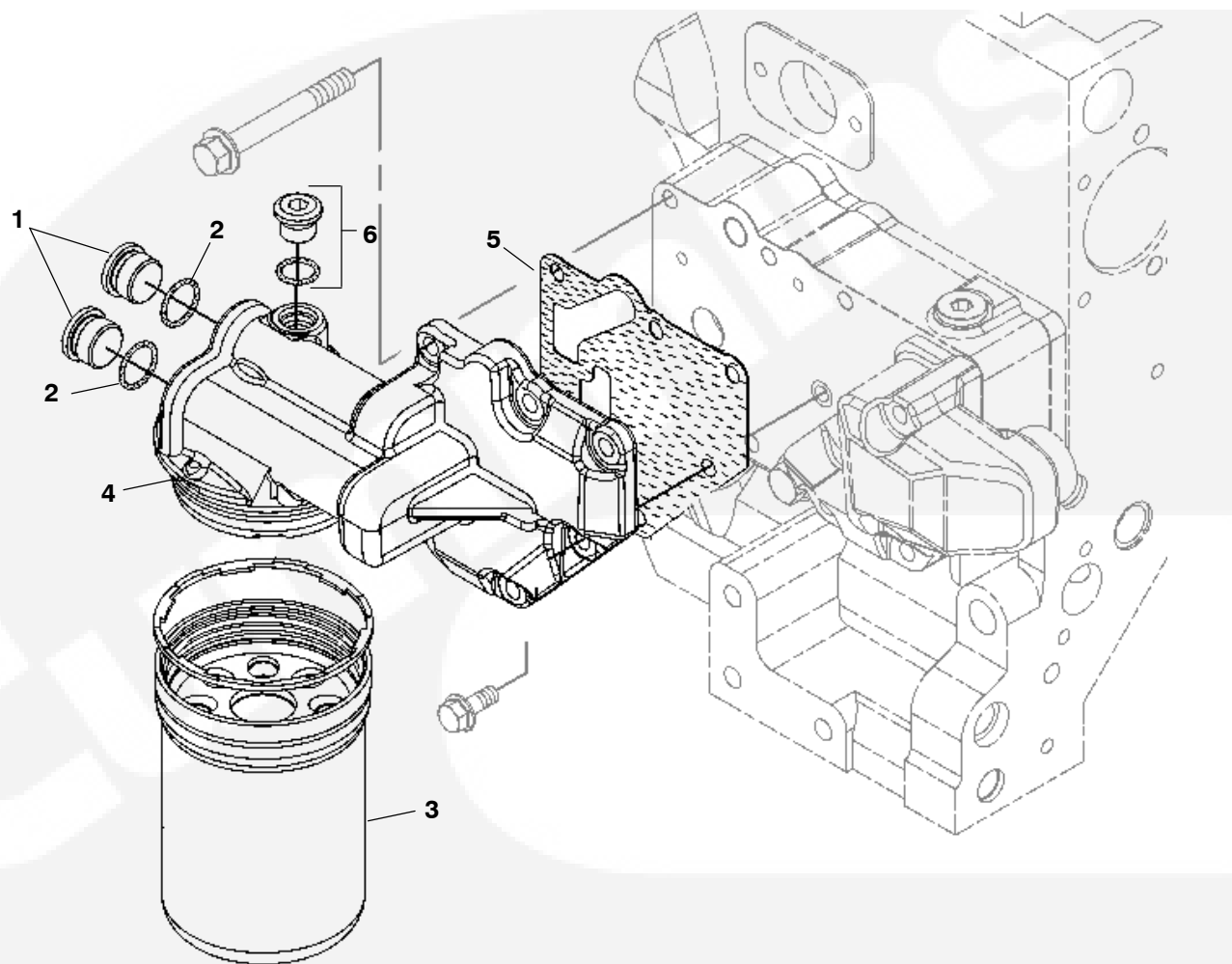
Fuel Transfer Pump (Electric)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1158-01	1	Kit, Fuel (Transfer Pump)	4	503-2534	1	*Hose, Fuel
	541-1158-02	1	12V	5	526-0399-64	1	*Washer, Flat (M12)
1	149-2735-03	1	*Bracket, Fuel	6	800-3017-52	1	*Screw, Hex Head Cap (M12 x 1.75 x 20mm)
2			*Pump, Fuel				
	149-2733-01	1	12V				
	149-2733-02	1	24V				
3	821-6001-01	4	*Screw, Hex Head Sems (M5 x .8 x 10mm)				

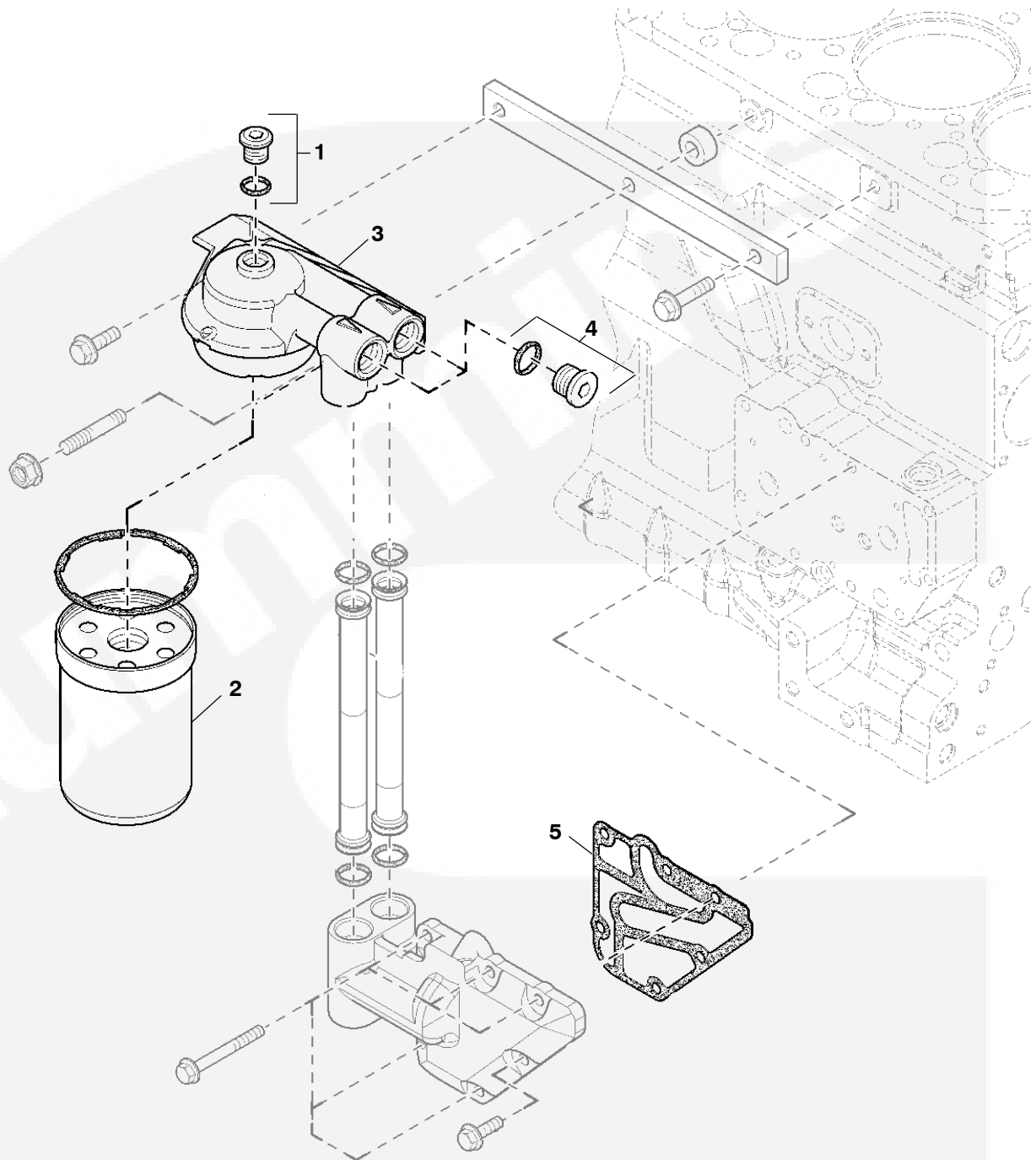
* - Parts included in Fuel Kit.

Oil Filter 4 Cylinder
(MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN)



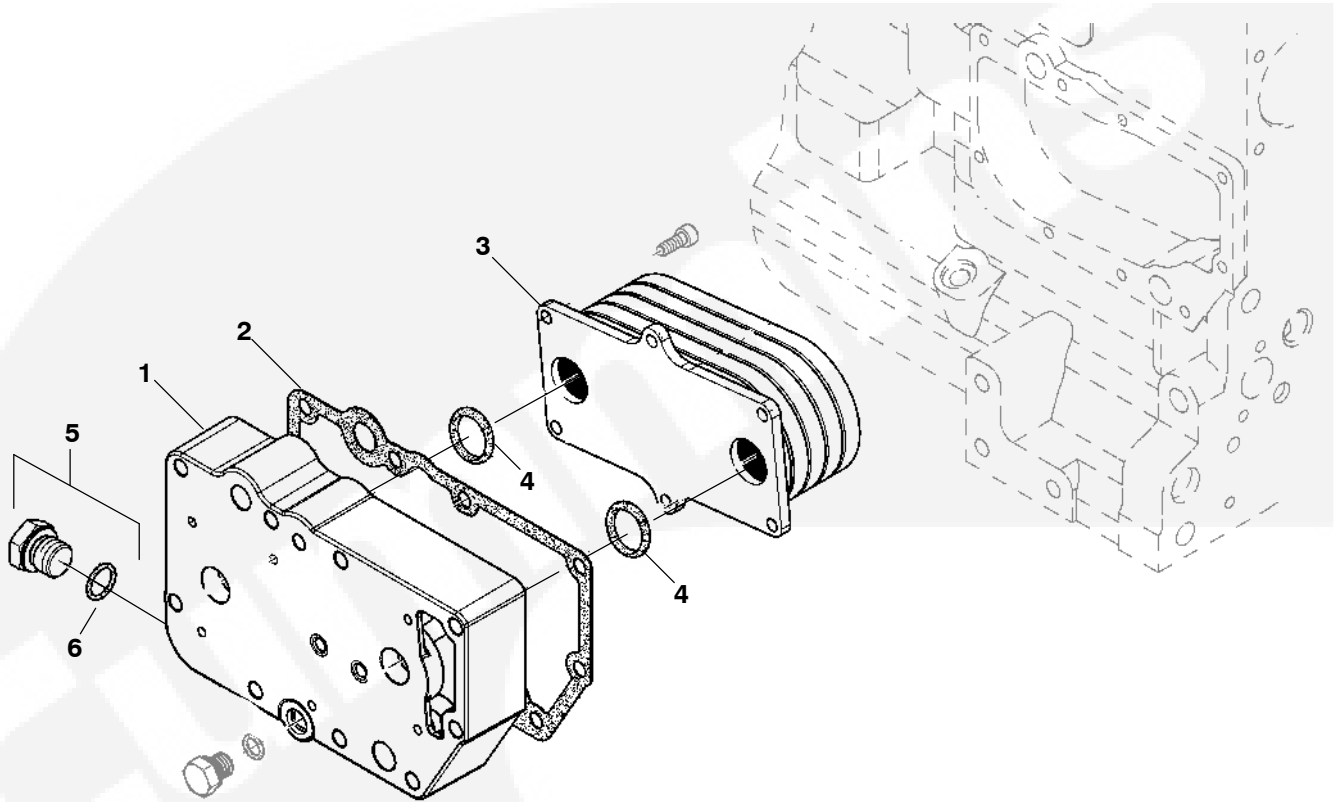
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	323-2183	1	Plug, with O'Ring	4	122-0888	1	Header, Oil Filter
2	509-0406	1	O'Ring	5	122-0889	1	Gasket, Oil Filter Adapter
3	122-0885	1	Filter, Oil	6	323-2186	1	Plug, Drain

**Oil Filter 6 Cylinder
(MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR)**



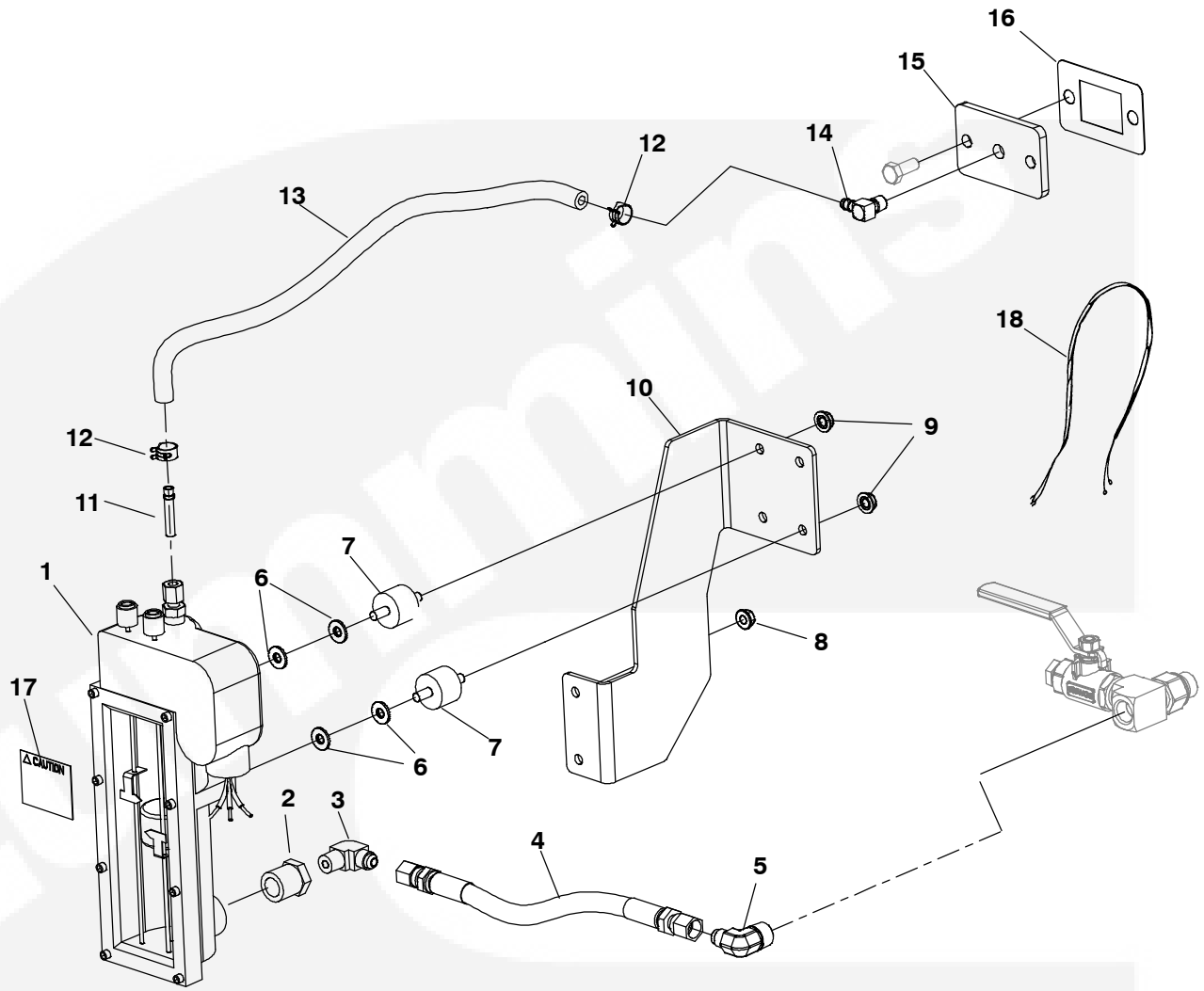
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	323-2186	1	Plug, with O'Ring	4	323-2185	1	Plug, Special (With O' Ring)
2	122-0885	1	Filter, Oil	5	122-0891	1	Gasket, Oil Filter Adapter
3	122-0890	1	Header, Oil Filter				

Oil Cooler



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-1519	1	Housing, Oil Cooler
2	234-1031	1	Gasket, Oil Cooler Housing
3	102-1518	1	Cooler, Oil MDDCA, MDDCB, MDDCC MDDCF, MDDCG, MDDCK MDDCL, MDDCM and MDDCN
	102-1522	1	MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR
4	509-0405	2	O'Ring, Packing
5	323-2182	1	Plug
6	509-0402	1	O' Ring

Oil Level

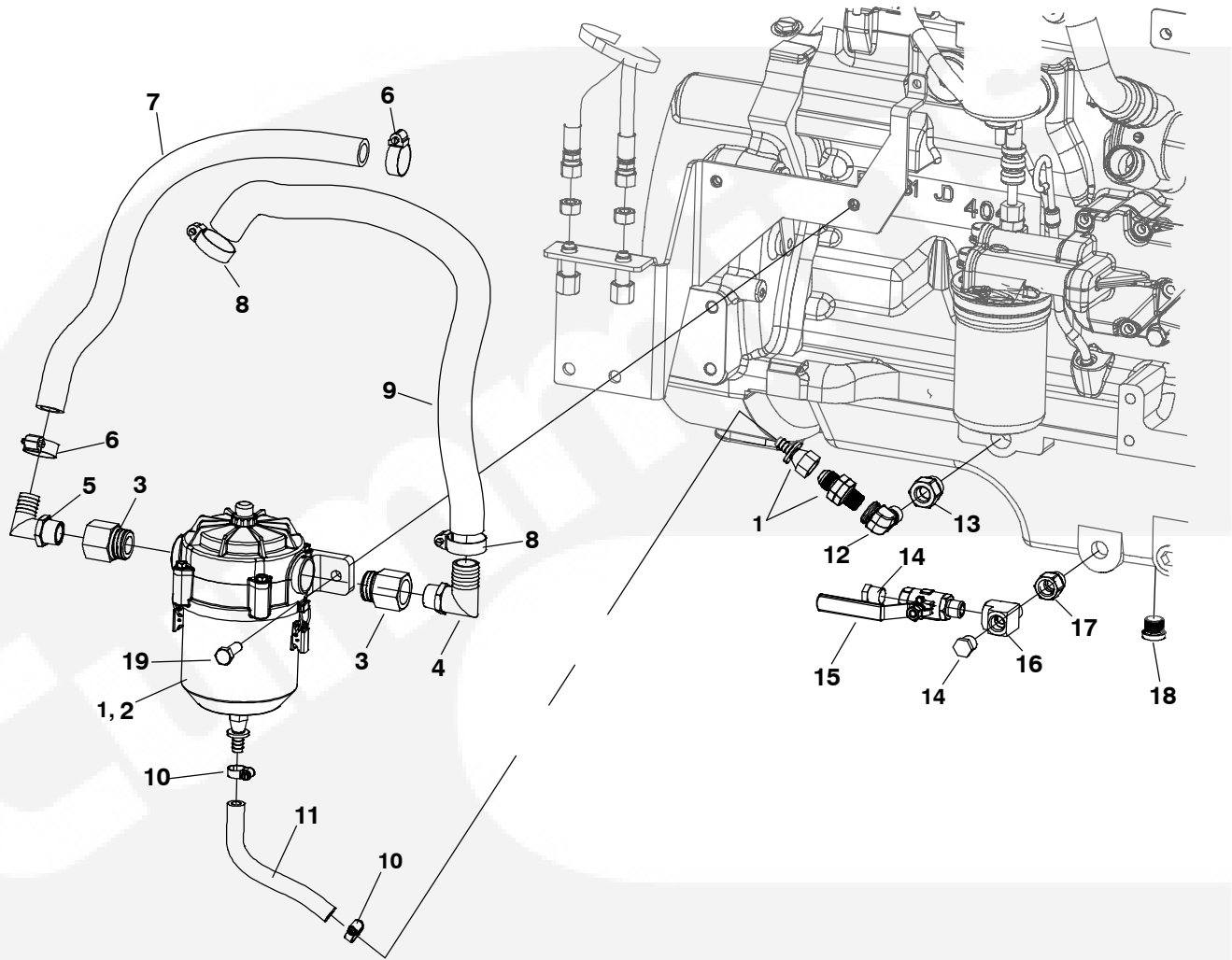


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	123-2252	1	Kit, Indicator Oil Level
1	309-0619	1	Switch, Oil Level
2	502-0029-04	1	Bushing
3	502-1043-03	1	Elbow, Male (Adaptor)
4	503-2496	1	Hose, Oil
5	505-2219	1	Elbow, Pipe (Adaptor)
6	526-0018	8	Washer, Flat (1/4")
7	402-0610	2	Isolator, Vibration
8	870-2054	2	Nut, locking Flanged (M6)
9	870-0212	4	Nut, Hex Head Whiz Lock (1/4-20)
10	193-0557-02	1	Bracket, Gauge
11	123-2250	1	Tube, Vent
12	503-0731	2	Clamp, Hose
13			Hose, Oil (Bulk)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	503-1418	1	1.2' (MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN)
	503-1418	1	.9' (MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR)
14	502-0313	1	Elbow, 90°
15	403-5448-03	1	Plate, Engine
16	123-2249	1	Gasket, Oil Fill
17	98-6398	1	Label, Caution
18	338-4574	1	Harness, Switch

* - All parts included in kit.

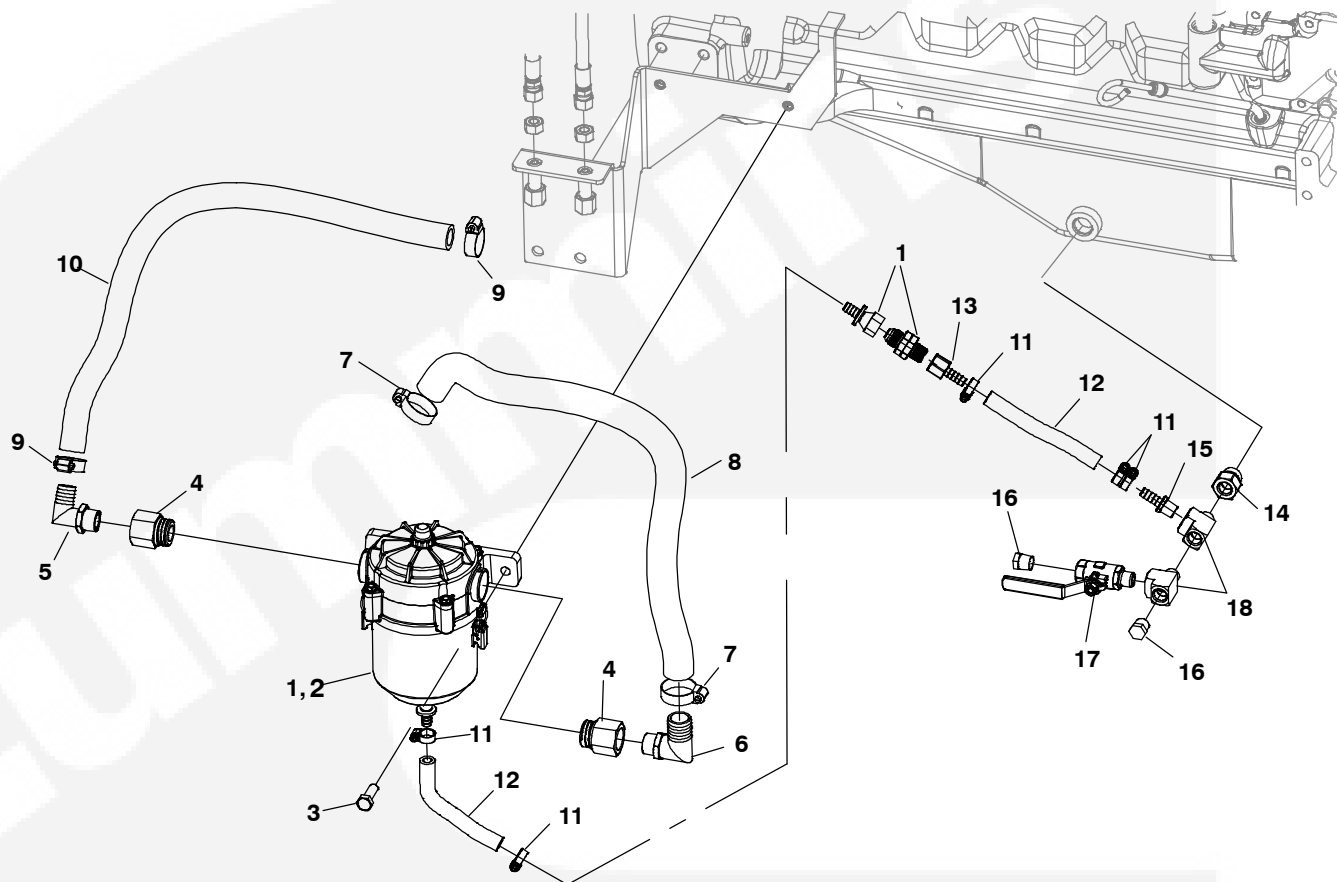
Crankcase Vent 4 Cylinder
(MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2246	1	Assy Vent, Crankcase
2	123-2259	1	Element, Breather
3	505-2220	2	Adapter, Pipe
4	502-1498	1	Elbow, Tube (3/4-NPT x 1"Hose)
5	502-1499	1	Elbow, Tube (3/4-NPT x 3/4"Hose)
6	503-1136	2	Screw, Hose Clap
7	503-2433-05	1	Hose, Breather (3/4"ID)
8	503-1137	2	Screw, Hose Clap
9	503-2842	1	Hose, Oil Filler (1"ID Spec B)
10	503-2309	2	Clamp, Hose

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	503-2504-02	1	Hose, Fuel
12	505-2218	1	Elbow, Pipe
13	505-2223	1	Adapter, Pipe
14	505-0266	2	Plug, Pipe Hex Head (3/8NPT)
15	504-0200	1	Valve, Ball
16	502-0401	1	Tee, Street
17	505-2226	1	Adapter, Pipe
18	505-2215	1	Plug, Pipe
19	800-3017-38	2	Screw, Hex Head Cap (M10 x 1.50 x 30mm)

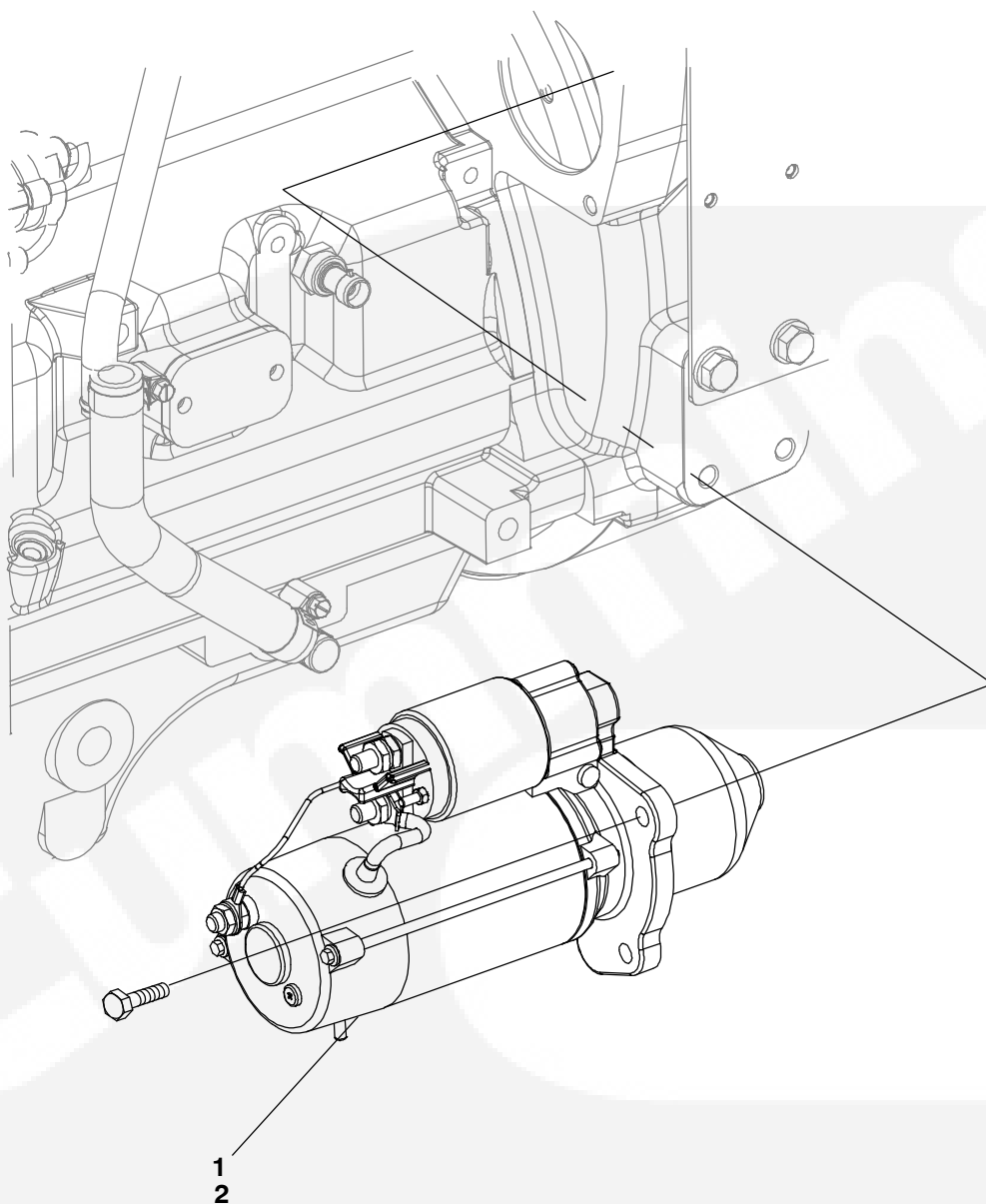
**Crankcase Vent, 6 Cylinder
(MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	123-2246	1	Assy Vent, Crankcase
2	123-2259	1	Element, Breather
3	800-3017-38	2	Screw, Hex Head Cap (M10 x 1.5 x 30mm)
4	505-2220	2	Adapter, Pipe
5	502-1499	1	Elbow, Tube (3/4NPT x 3/4 Hose)
6	502-1498	1	Elbow, Tube (3/4NPT x 1 Hose)
7	503-1137	2	Screw, Hose Clamp
8	503-2842	1	Hose, Oil Fill (1"OD Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	503-1136	2	Screw, Hose Clamp
10	503-2433-04	1	Hose, Breather (3/4" ID)
11	503-2309	5	Clamp, Hose
12	503-2504-01	2	Hose, Fuel
13	502-1502	1	Connector, Hose
14	505-2223	1	Adapter, Pipe
15	502-1367-04	1	Connector, Hose (3/4NPT x 3/8Hose)
16	505-0266	2	Plug, Pipe Hex Head (3/8 NPT)
17	504-0200	1	Valve, Ball
18	502-0401	2	Tee, Street

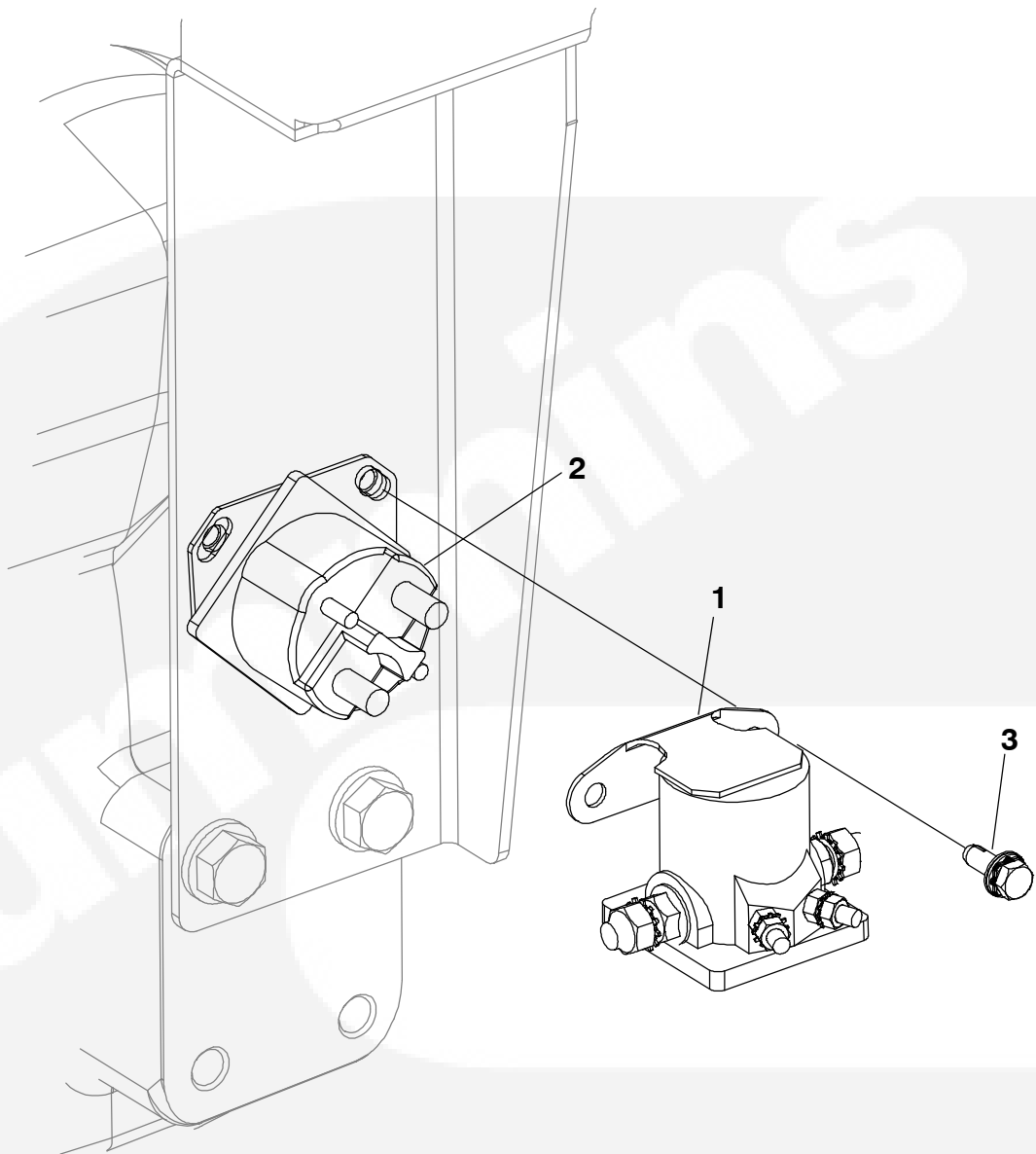
Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			*Motor, Starter
	191-2354	1	24V Iso Gnd
	191-2363	1	12V Iso Gnd
	191-2360	1	24V Neg Gnd
	191-2359	1	12V Neg Gnd
2	815-0859-03	3	*Screw, Hex Head

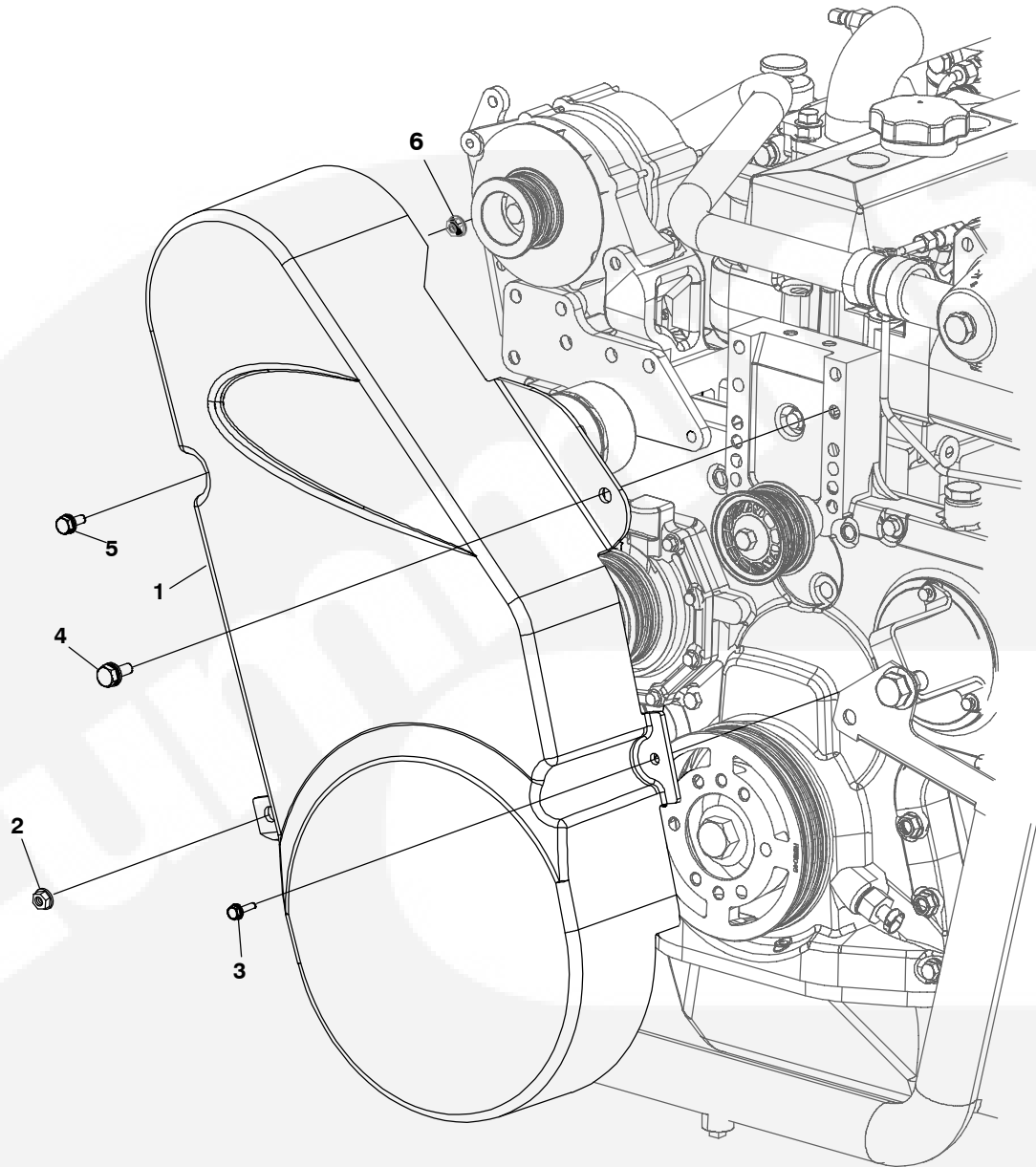
* - Required if ordering engine without starter

Starter Solenoid



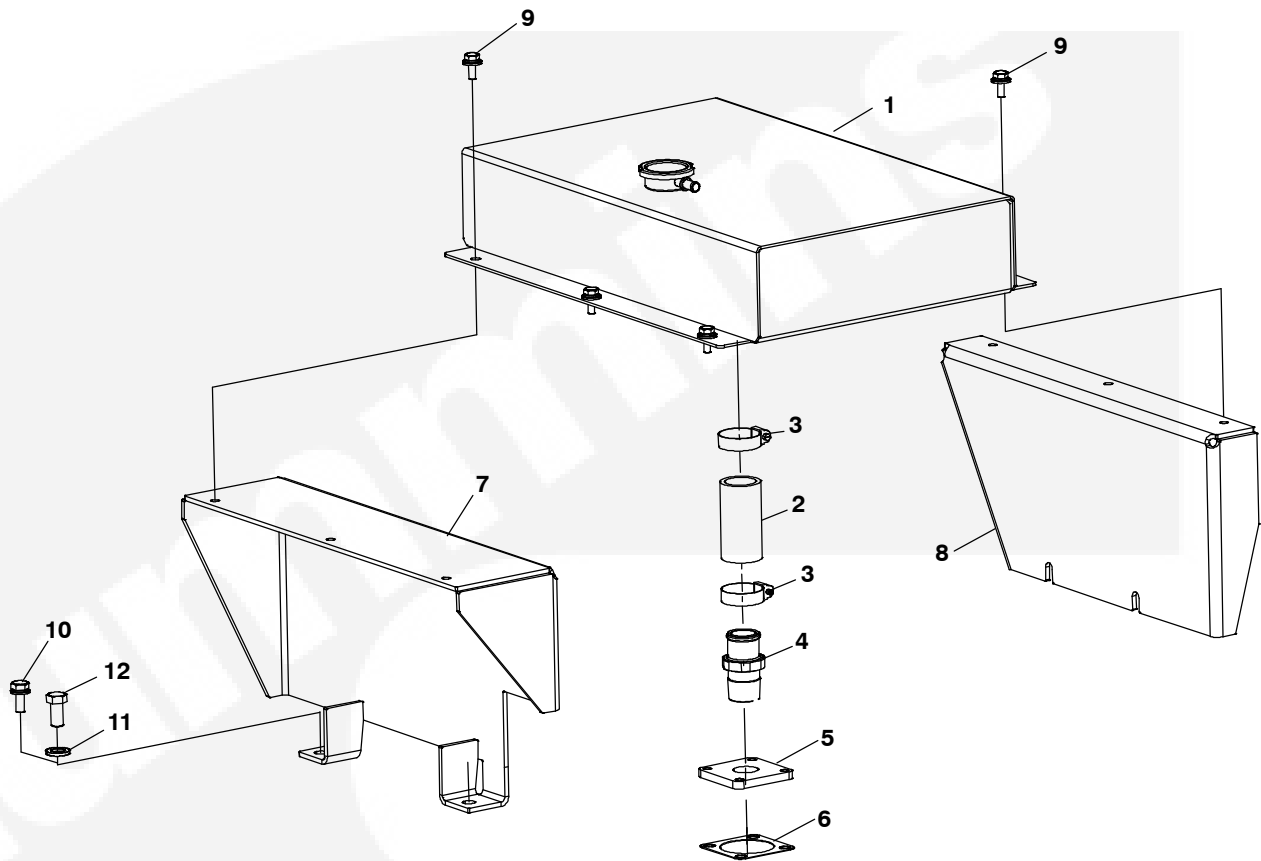
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1617	1	Relay, Starter Solenoid (12V)	3	821-6006-01	2	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)
2	307-2656	1	Relay, Starter Solenoid (24V)				

Belt Guard



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1128-01	1	Kit, Belt Guard Without PTO (Parts Included Marked*)	3	821-6002-04	1	*+ Screw, Hex Head Sems (M6 x 1 x 20mm)
	541-1128-02	1	Kit, Belt Guard With PTO (Parts Included Marked+)	4	821-6004-01	1	*+ Screw, Hex Head Sems (M10 x 1.5 x 20mm)
1			Guard, Belt	5	821-2097-06	1	Screw, Hex Head Sems (M10 x 1.5 x 40mm)
	130-6119-01	1	* Without PTO	6	862-0026-56	1	Nut Hex Head (M10)
	130-6119-02	1	+ With PTO				
2	870-2065-03	1	*+ Nut, Hex Flange (M8 x 1.25mm)				

Expansion Tank



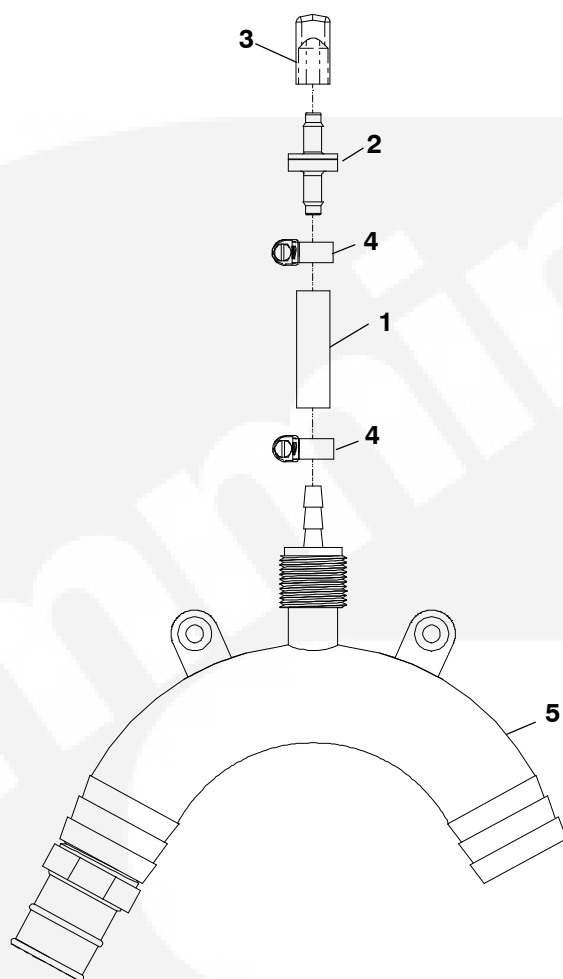
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1124	1	Kit, Expansion Tank
1	130-6209-03	1	Tank, Expansion
2	503-2511-03	1	Hose, Coolant
3	503-1138	2	Clamp, Hose
4	505-2232	1	Adapter, Pipe
5	154-3184	1	Flange, Manifold
6	154-3183	1	Gasket, Manifold
7	130-6210-03	1	Bracket, Expansion Tank
8	130-6215-03	1	Bracket, Expansion Tank

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	821-6003-01	6	Screw, Hex Head Sems (M8 x 1.25 x 16mm)
10	821-6004-01	3	Screw, Hex Head Sems (M10 x 1.5 x 20mm)
11	526-0399-64	2	Washer, Flat (M12)
12	800-3017-53	2	Screw, Hex Head Cap (M12 x 1.75 x 25mm)

* – All parts included in kit.



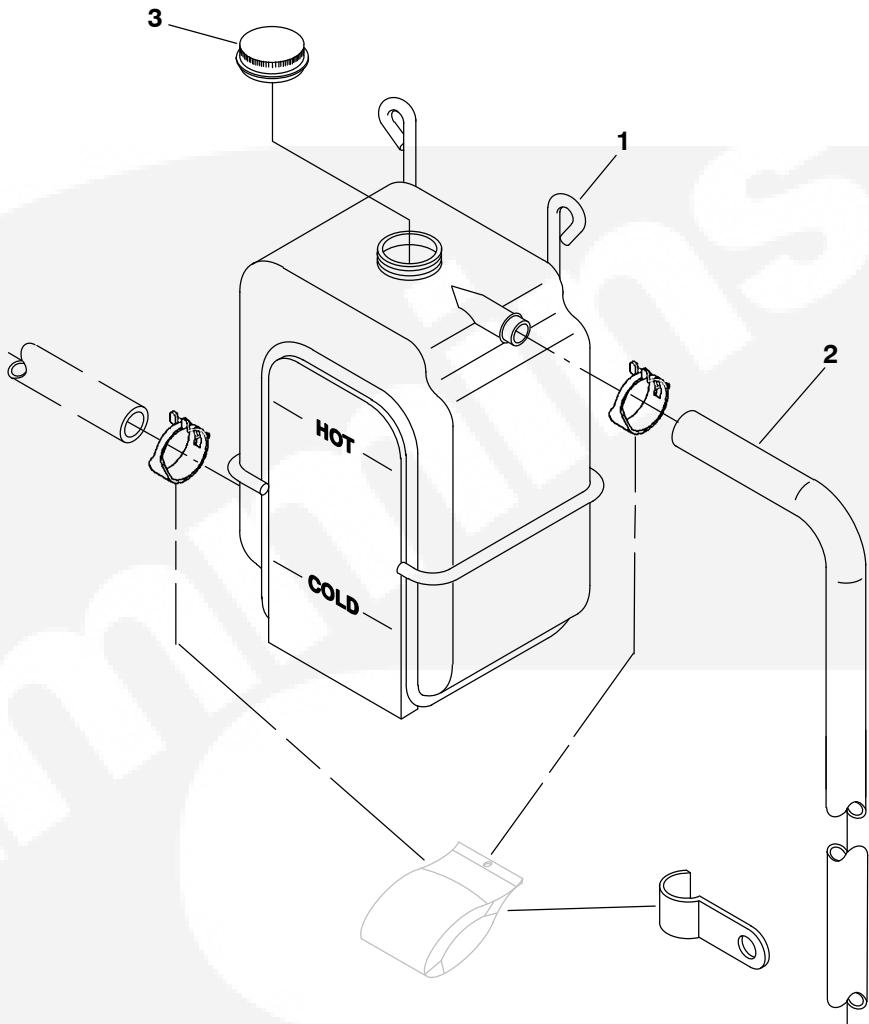
Siphon



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1152	1	Kit, Siphon Break	6	503-1872-02	2	Clamp, Hose
1	503-2352	1	Hose, Coolant	7	508-1203	1	Grommet, Boot
2	504-0223	1	Valve, Check				
3	502-1425-02	1	Cap, Tube				
4	503-2309	2	Clamp, Hose				
5	502-1516-01	1	Connector, Hose				

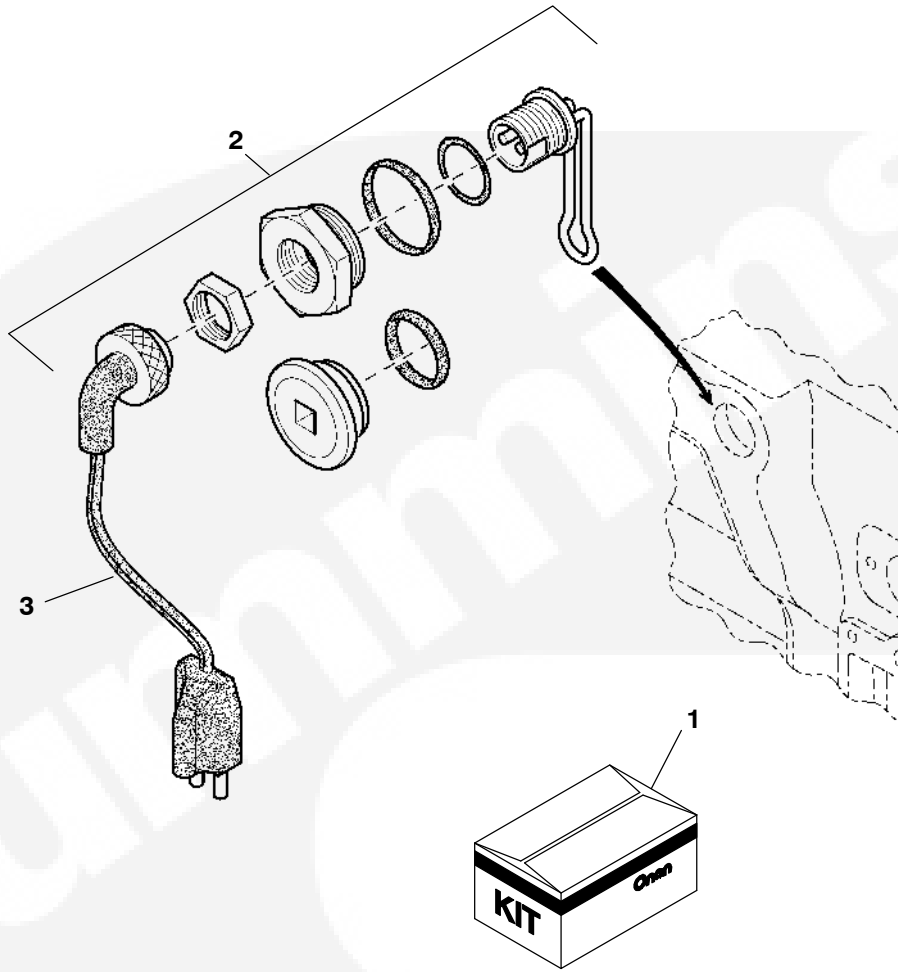
* - All parts included in kit. Items 6 and 7 not shown shipped separately.

Coolant Recovery



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

Engine Coolant Heater

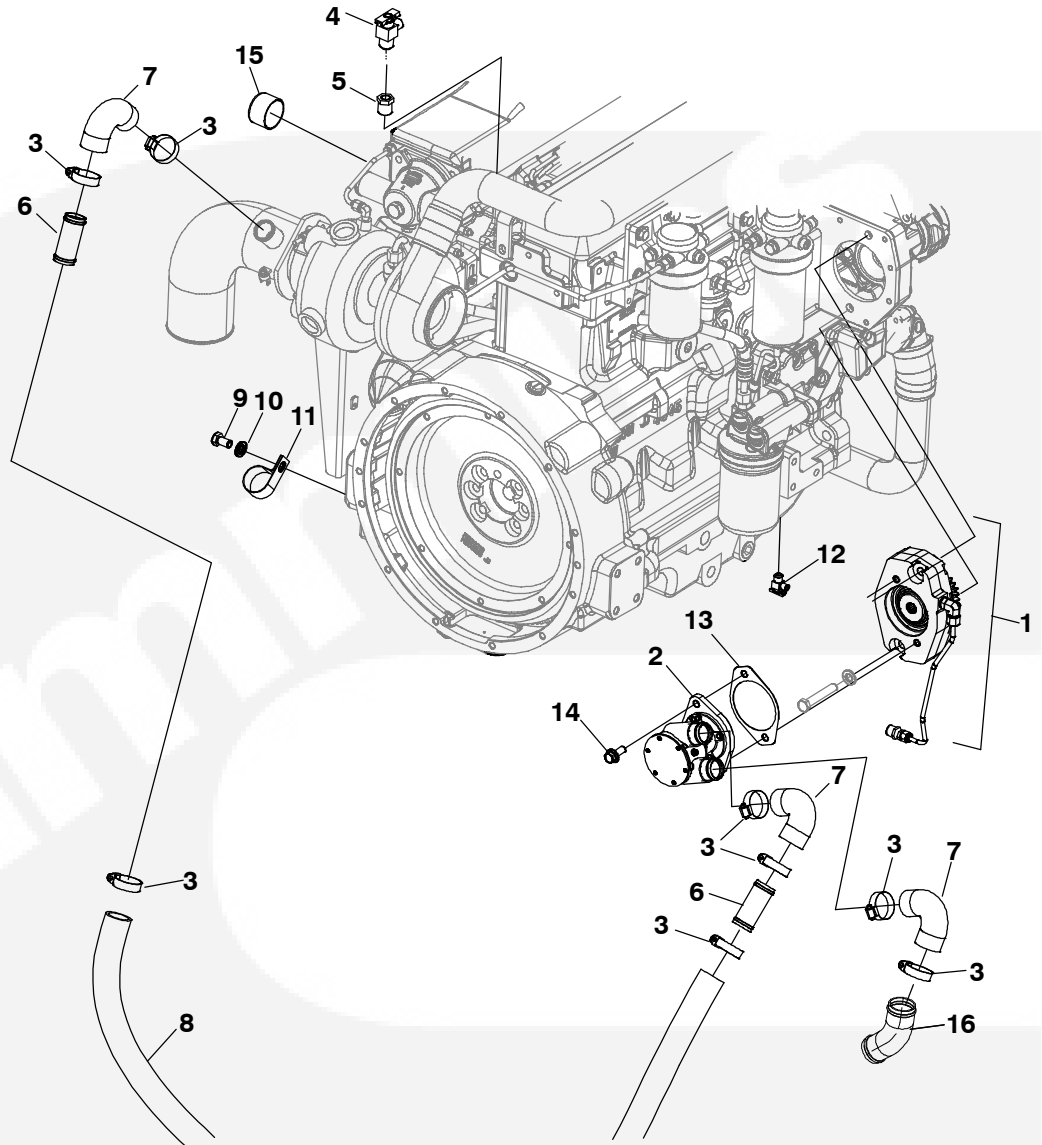


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Kit, Heater – Engine Coolant
	333-0702-01	1	120 Volt
	333-0702-02	1	240 Volt
2			Heater, Engine Coolant (1000W)
	333-0704-02	1	* 110 Volt (Includes Parts Marked *)
	333-0704-01	1	# 220 Volt (Includes Parts Marked #)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3			Harness, Power
	335-0240	1	* 120 Volt
	335-0241	1	# 240 Volt

* Parts Included in 333-0702-01 Engine Coolant Heater Kit?
Parts Included in 333-0702-02 Engine Coolant Heater Kit?

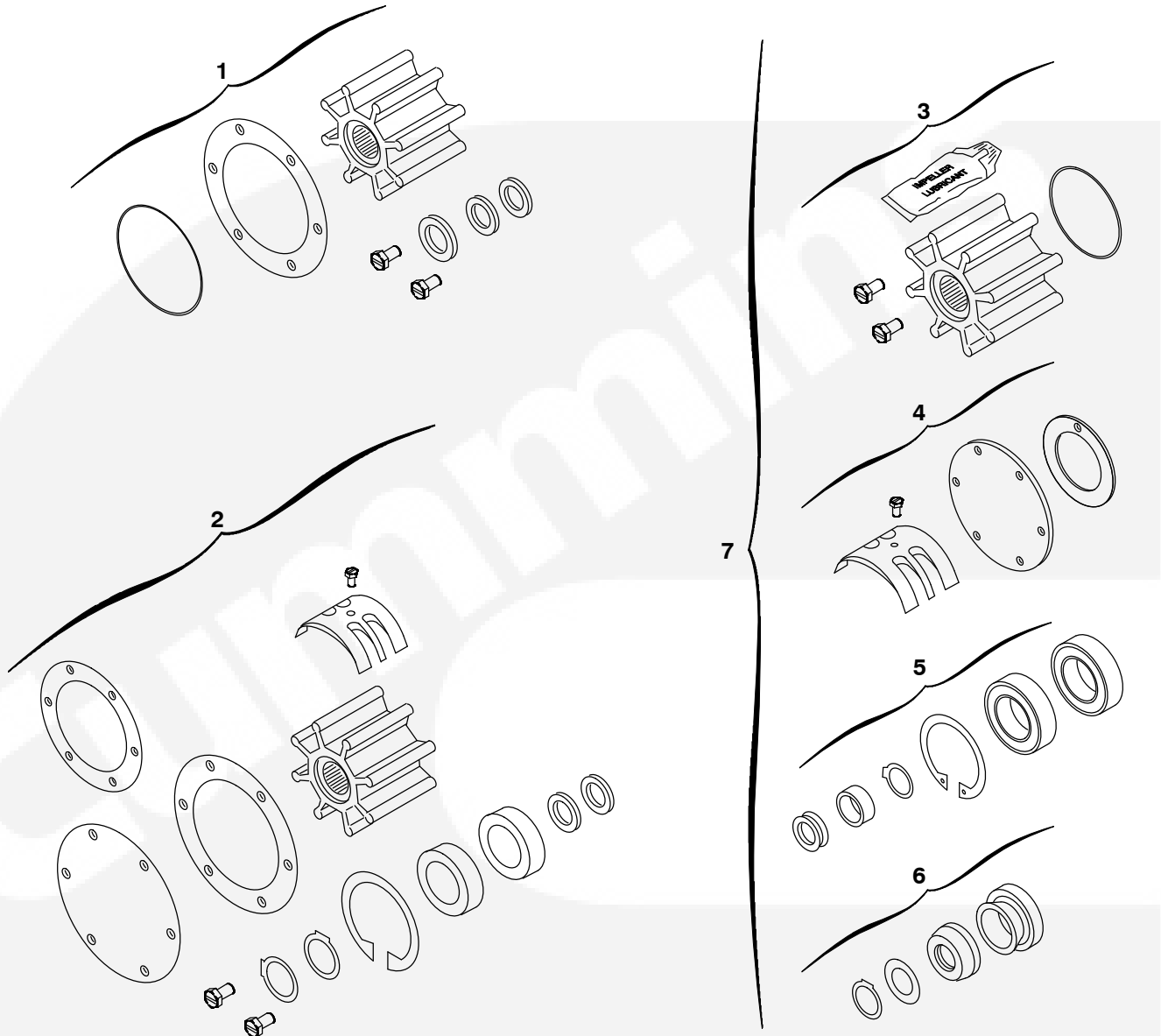
Keel Cooling (Wet Exhaust)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0433	1	Adapter, Water Pump (See Aux Drive)
2	132-0435	1	Pump, Water
3	503-1138	8	Clamp, Hose
4	504-0017	2	Cock, Drain (Wet and Dry) (1/4"NPT x 1/8"NPT)
5	502-0029-04	1	Bushing, Pipe (Wet and Dry) (1/2"NPT x 1/4"NPT)
6	130-6145-01	2	Tube, Water
7	503-2498	3	Hose, Coolant
8	503-2511-01	1	Hose, Coolant
	503-2511-02	1	4 Cylinder
		1	6 Cylinder

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	800-3017-52	2	Screw, Hex Head Cap (M12 x 1.75 x 20mm)
10	526-0399-64	2	Washer, Flat (M12)
11	518-0548-43	1	Clamp, Hose
12	504-0017	1	Cock, Drain (1/4"NPT x 3/8"Hose)
13	132-0434	1	Gasket
14	800-6324	2	Screw, Flanged Metric (M10 x 25mm)
15	517-0369	2	Plug, Cap
16	130-7249	2	Tube, Water 45 degree

Pump Repair Kits



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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Engine Model: 4045 (4 cyl) up to S/N 101250
Engine Model: 6068 (6 cyl) up to S/N 101314

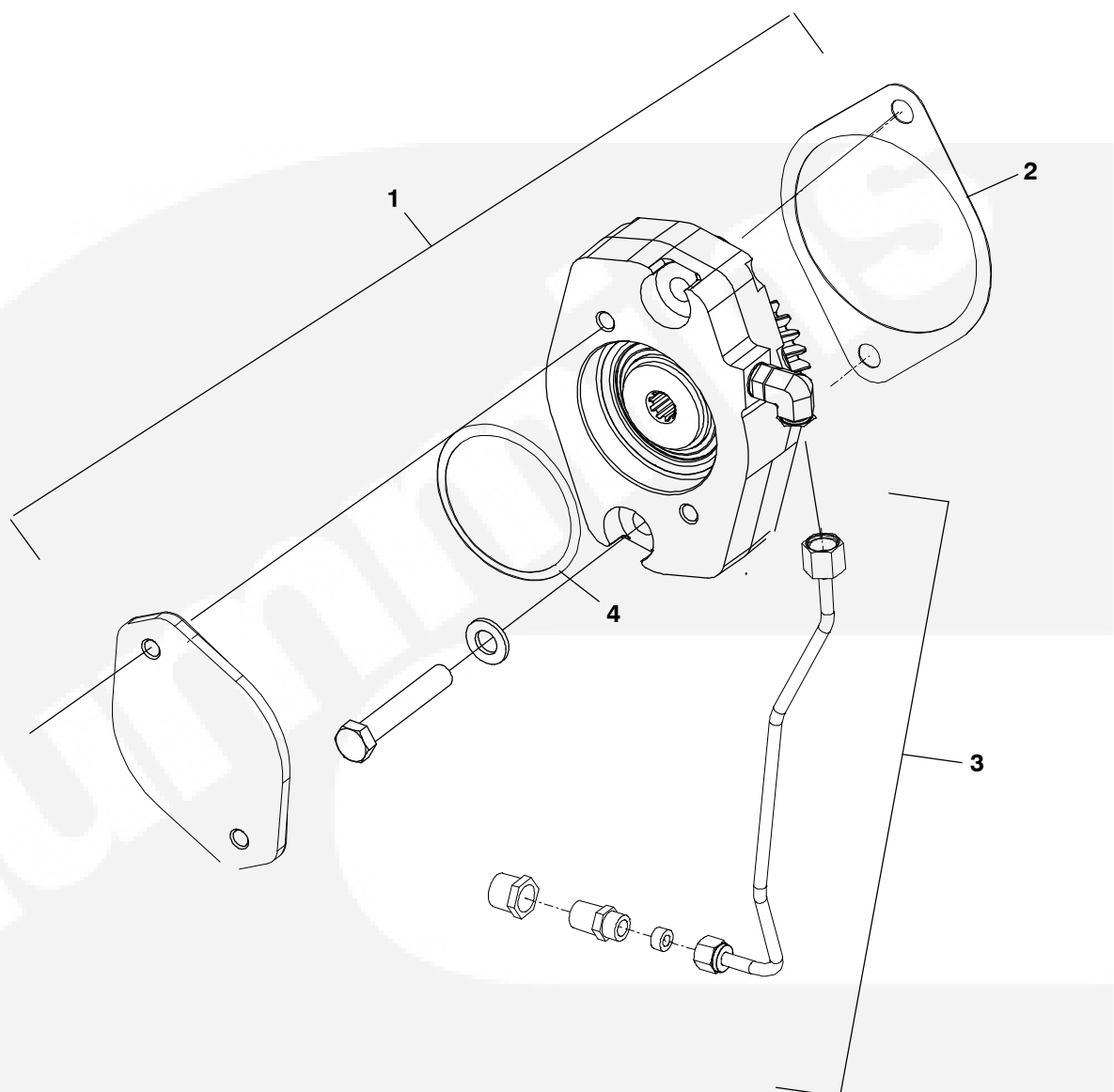
1	132-0436	1	Kit, Impeller
2	132-0437	1	Kit, Major Repair (Includes Item 1)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
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Engine Model: 4045 (4 cyl) S/N 101251 and up
Engine Model: 6068 (6 cyl) S/N 101315 and up

3	A028U566	1	Kit, Impeller
4	A029B826	1	Kit, Cam
5	A029B828	1	Kit, Bearing
6	A029B830	1	Kit, Water Seal
7	A029A690	1	Kit, Major Repair (Includes Items 3, 4, 5, & 6)

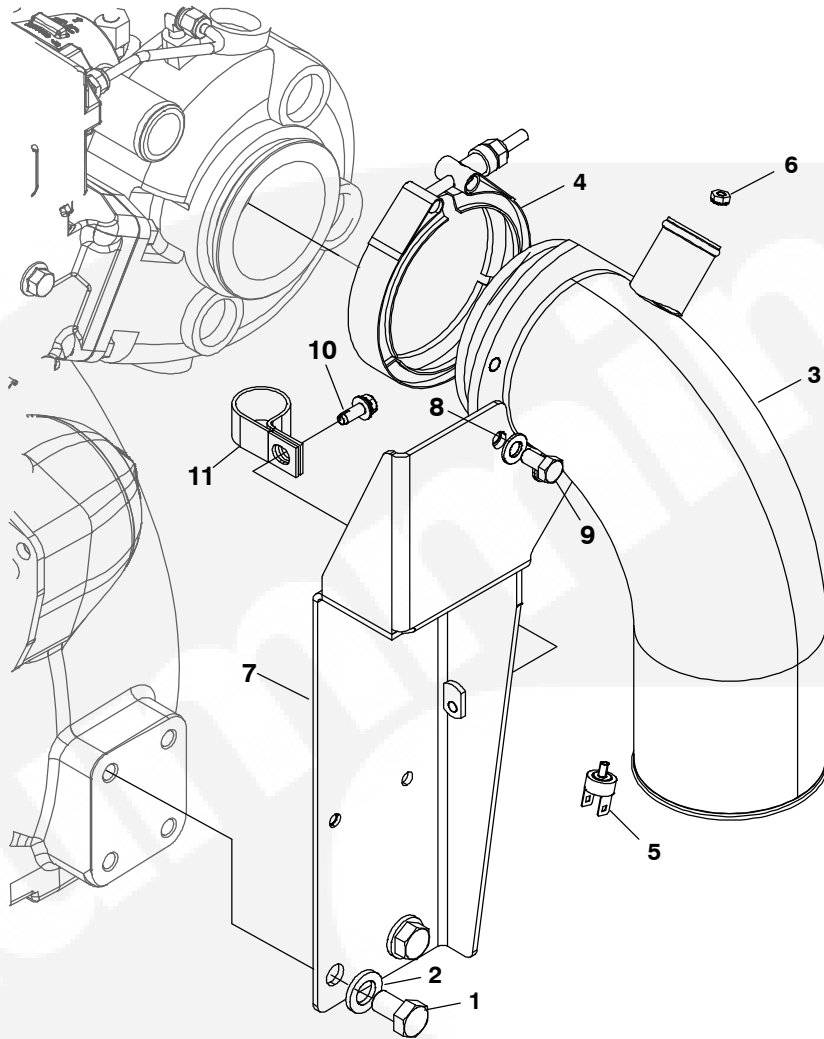
Aux Drive



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132-0433	1	Adapter, Water Pump
2	132-0440	1	Gasket
3	501-0856	1	Line, Oil
4	509-0403	1	Packing, O'Ring

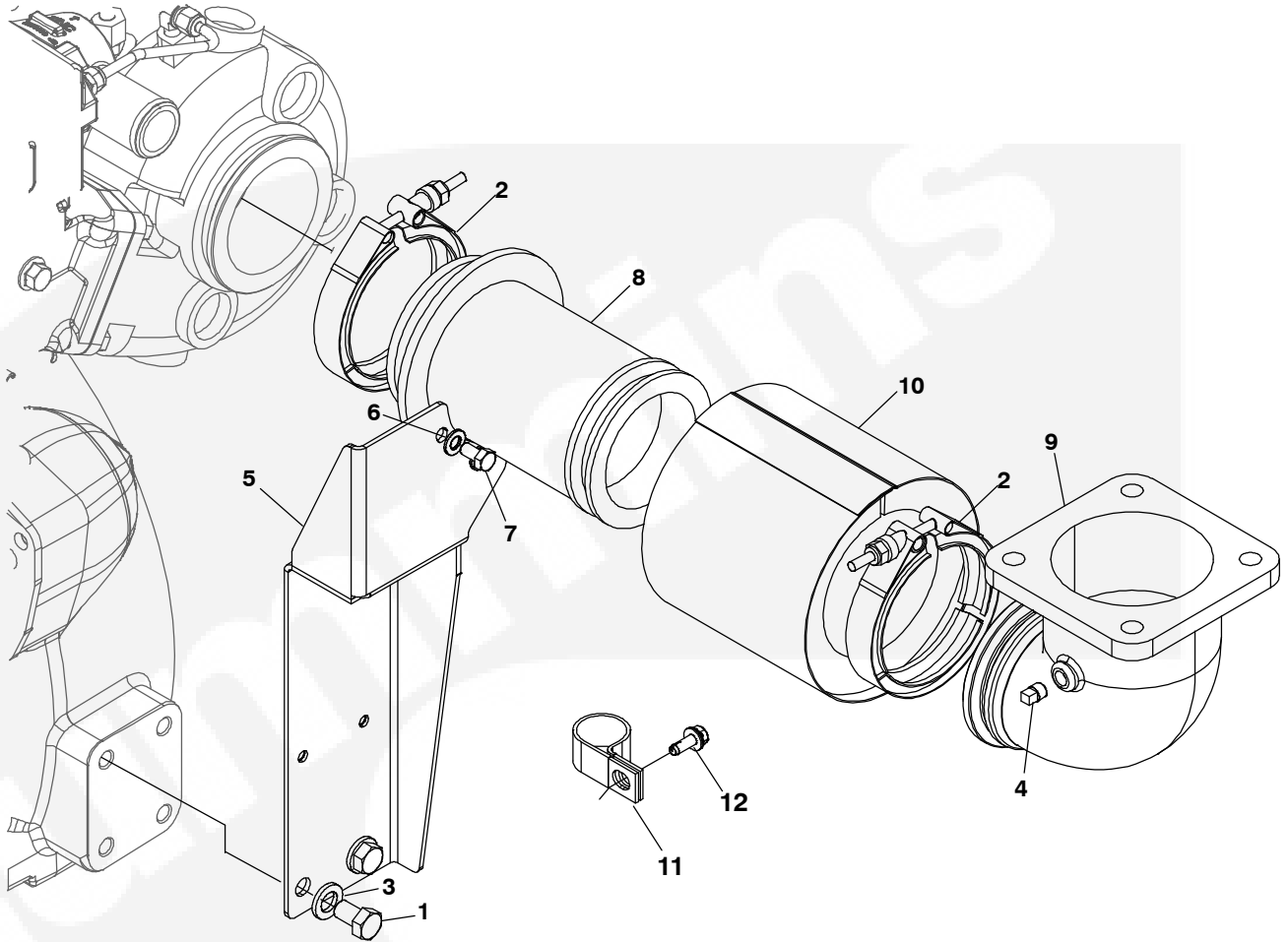


Wet Exhaust



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1134	1	Kit, Muffler (Water Lift)	6	870-0221	1	Nut, Hex (8-32)
	541-1136	1	Kit, Muffler (Water Separator)	7	155-4245-03	1	Bracket, Exhaust
	541-1137	1	Kit, Hose (Wet Exhaust)	8	526-0399-60	2	Washer, Flat (M8)
1	800-3017-52	2	Screw, Hex Head Cap (M12 x 1.75 x 20mm)	9	800-3017-18	2	Screw, Hex Head Cap (M8 x 1.25 x 16mm)
2	526-0399-64	2	Washer, Flat (M12)	10	821-6006-01	1	Screw, Hex Head Sems Stainless (M6 x 1 x 16mm)
3	155-4186-01	1	Elbow, Exhaust (Mixer) with Sound Shield	11	518-0548-29	1	Clamp, Hose
	155-4186-02	1	Elbow, Exhaust (Mixer) without Sound Shield				
4	155-4263	1	Clamp, Exhaust				
5			Switch, Hi Exhaust Temperature				
	309-0597-02	1	MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN (Green)				
	309-0597-03	1	MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR (Blue)				

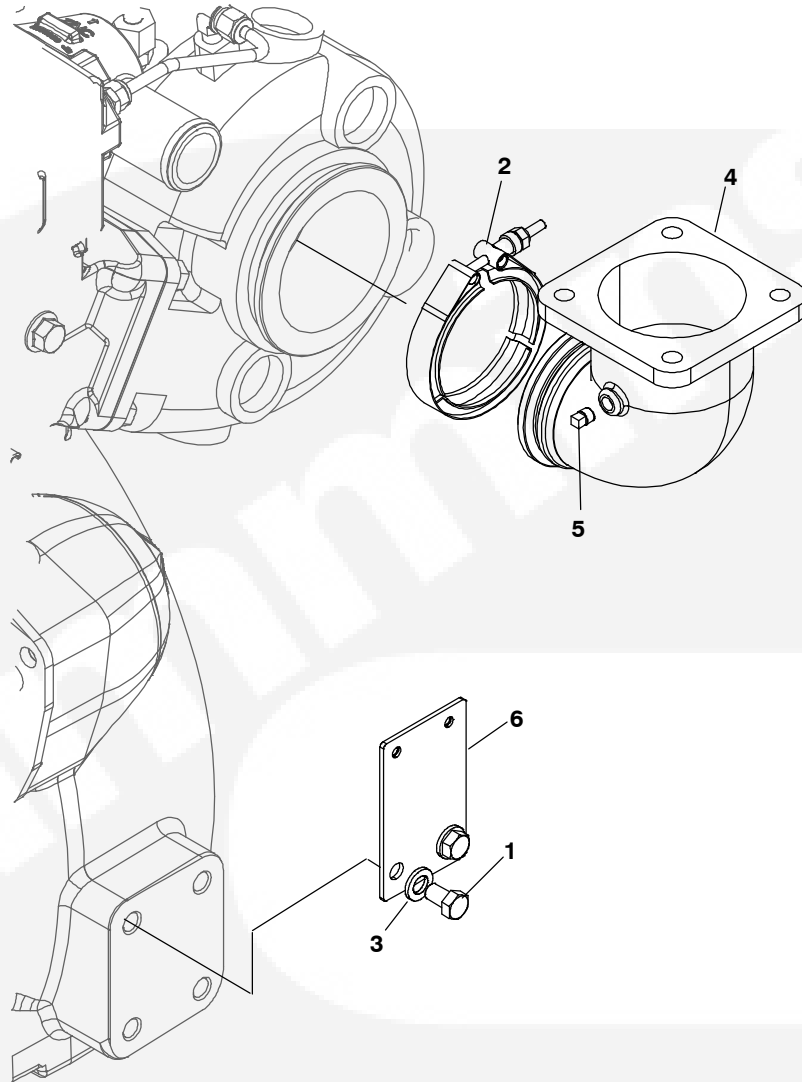
Dry Exhaust (With Sound Shield)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-3017-52	2	Screw, Hex Head Cap (M12 x 1.75 x 20mm)
2	155-4263	2	Clamp, Exhaust
3	526-0399-64	2	Washer, Flat (M12)
4	505-0057	1	Plug, Square Head
5	155-4245-03	1	Bracket, Exhaust
6	526-0399-60	2	Washer, Flat
7	800-3017-18	2	Screw, Hex Head Cap (M8 x 1.25 x 16mm)

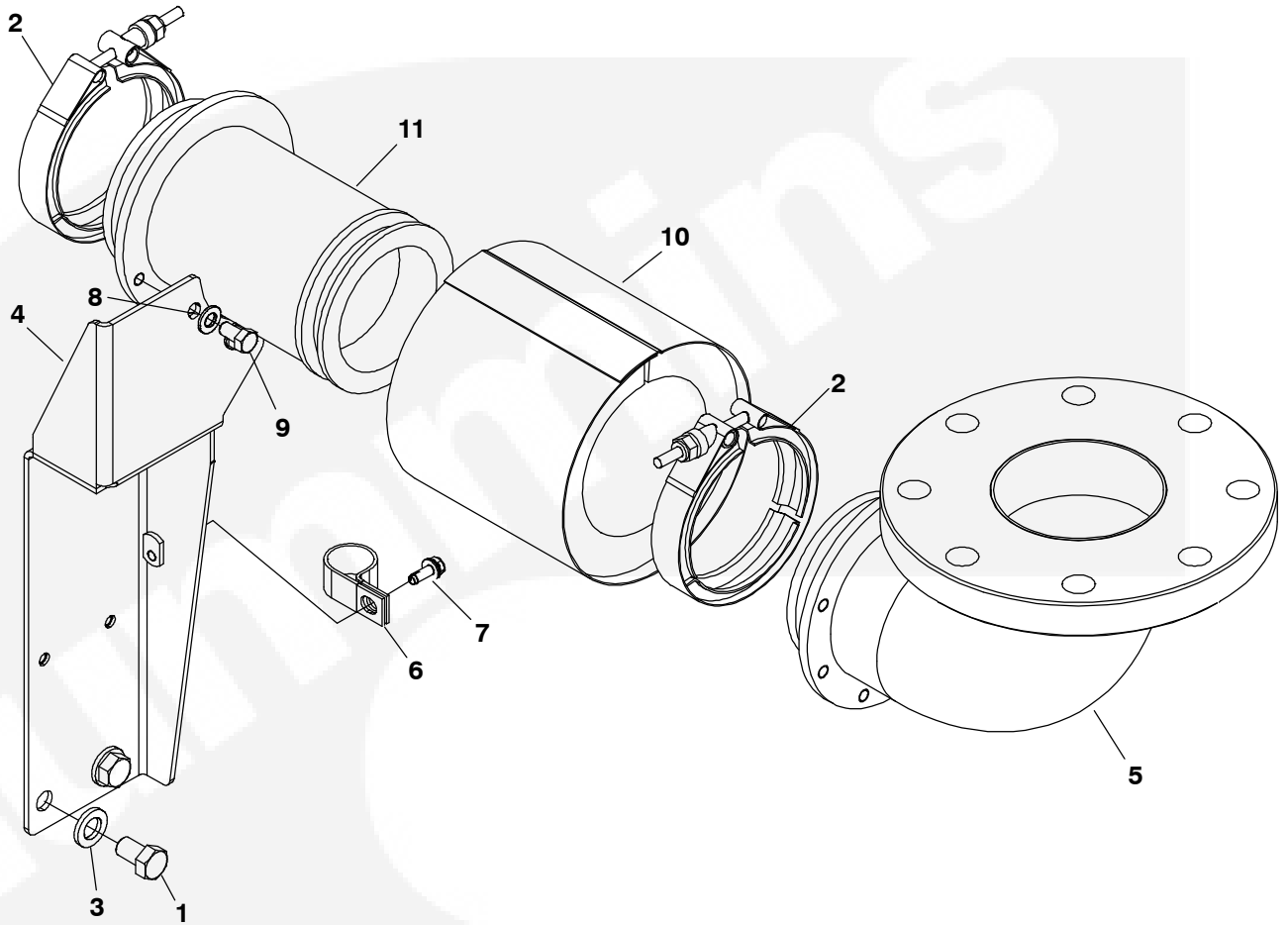
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	155-4222	1	Pipe, Exhaust
9	155-4266	1	Elbow, Exhaust
10	155-4283	1	Insulation, Exhaust
11	518-0548-29	1	Clamp, Hose
12	821-6006-01	1	Screw, Hex Head Stainless (M6 x 1 x 16mm)

Dry Exhaust (Without Sound Shield)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-3017-52	2	Screw, Hex Head Cap (M12 x 1.75 x 20mm)	4	155-4266	1	Elbow, Exhaust
2	155-4263	1	Clamp, Exhaust	5	505-0057	1	Plug, Square (1/8")
3	526-0399-64	2	Washer, Flat (M12)	6	403-5420-03	1	Bracket, Engine

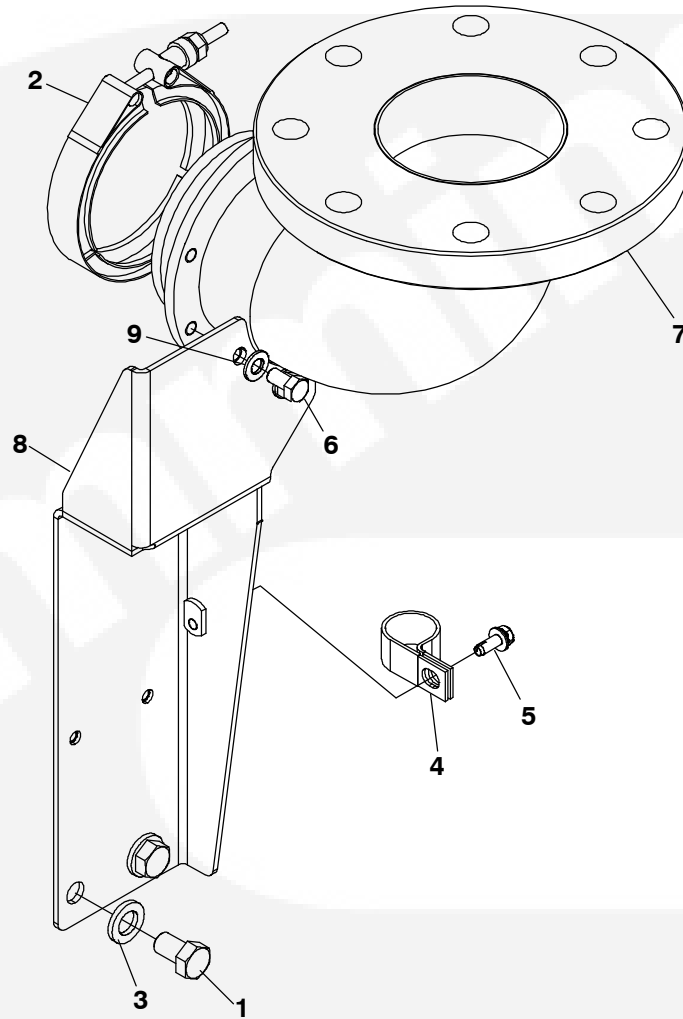
Dry Exhaust (With Sound Shield)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-3017-52	2	Screw, Hex Head Cap (M12 x 1.75 x 20mm)
2	155-4263	2	Clamp, Exhaust
3	526-0399-64	2	Washer, Flat (M12)
4	155-4245-03	1	Bracket, Exhaust
5	155-4299	1	Elbow, Exhaust
6	518-0548-29	1	Clamp, Hose
7	821-6006-01	1	Screw, Hex Head Stainless (M6 x 1.0 x 16mm)

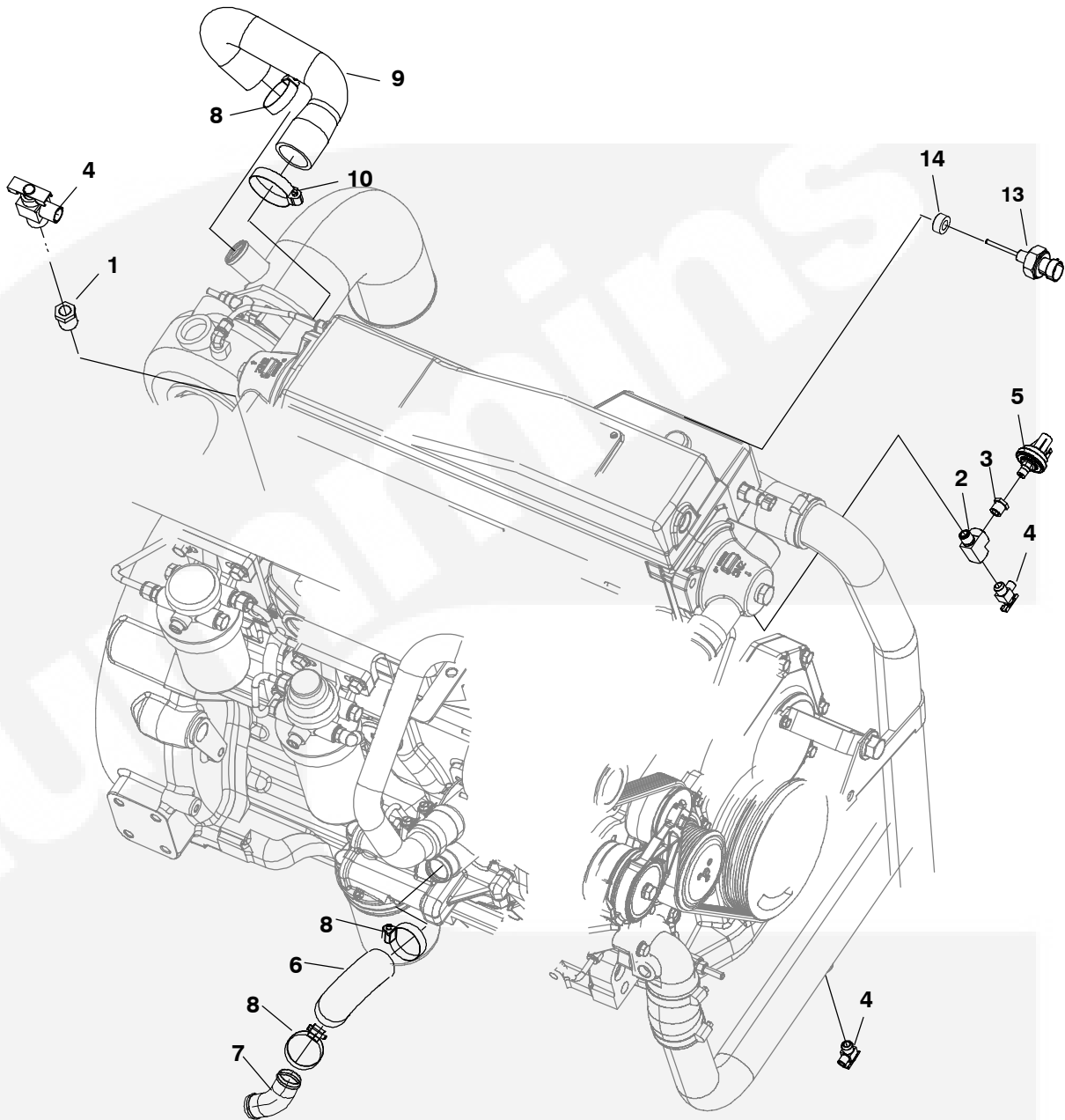
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	526-0399-60	2	Washer, Flat (M8)
9	800-3017-18	2	Screw, Hex Head (M8 x 1.25 x 16mm)
10	155-4283	1	Insulation, Exhaust
11	155-4222	1	Pipe, Exhaust (Mixer)

Dry Exhaust (Without Sound Shield)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-3017-52	2	Screw, Hex Head Cap (M12 x 1.75 x 20mm)	6	800-3017-18	2	Screw, Hex Head (M8 x 1.25 x 16mm)
2	155-4263	1	Clamp, Exhaust	7	155-4299	1	Elbow, Exhaust
3	526-0399-64	2	Washer, Flat (M12)	8	155-4245-03	1	Bracket, Exhaust
4	518-0548-29	1	Clamp, Hose	9	526-0399-60	2	Washer, Flat (M8)
5	821-6006-01	1	Screw, (M6 x 1 x 16mm)				

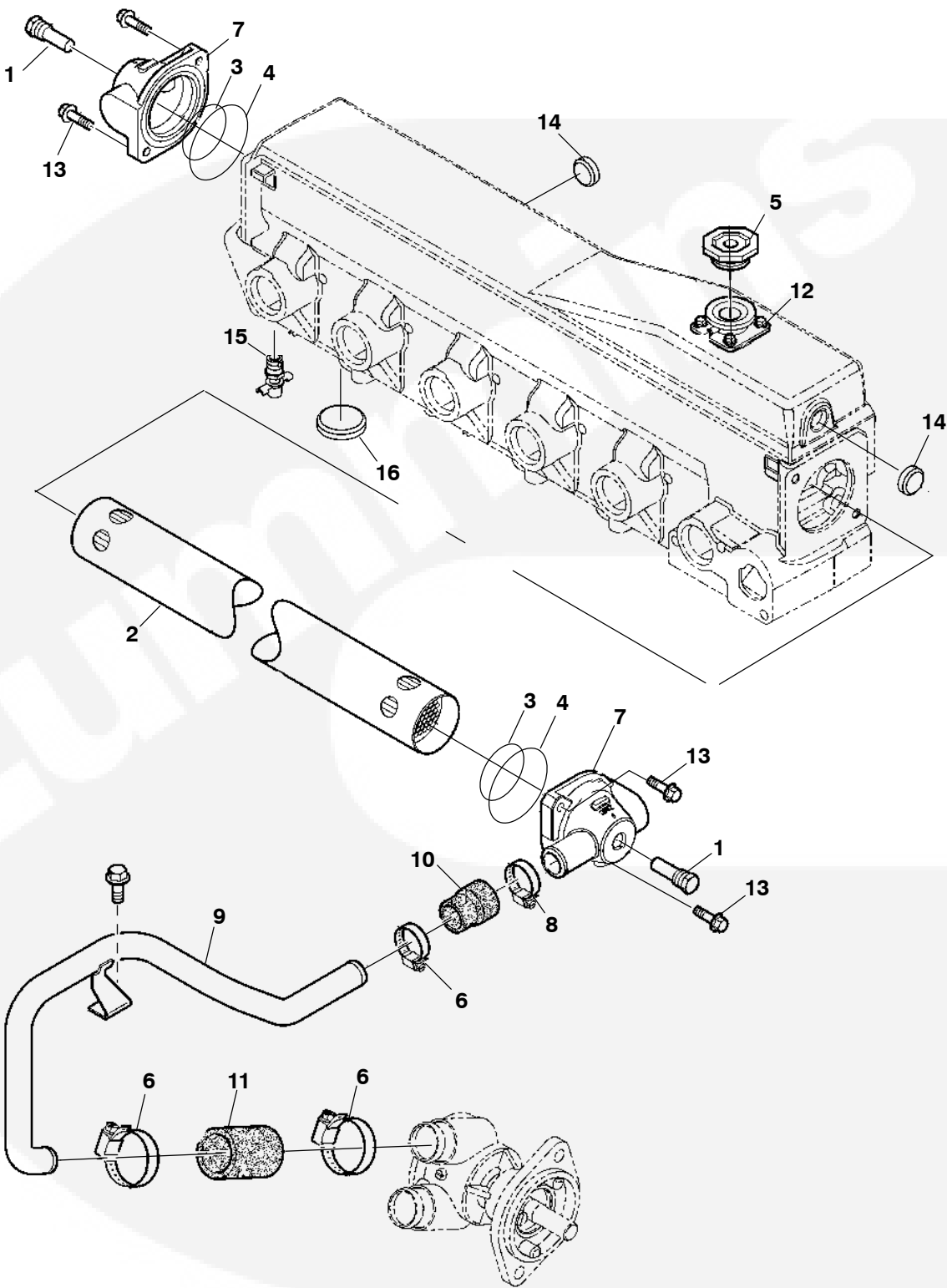
Heat Exchanger (Wet)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	132-0436	1	Kit, Seawater Pump Impeller Repair	6	503-2498	1	Hose, Coolant (Wet and Dry)
	132-0437	1	Kit, Seawater Pump Major Repair	7	130-7249	1	Tube, Water (Wet and Dry)
1	502-0029-04	1	Bushing, Pipe (Wet and Dry) (1/2"NPT x x 1/4"NPT)	8	503-1138	3	Clamp, Hose (Wet and Dry)
2	502-0164	1	Tee, Street (1/4"NPT)	9	503-2499	2	Hose, Coolant
3	502-0029	1	Bushing, Pipe (1/4"NPT x x 1/8"NPT)	10	503-1872-02	2	Clamp, Hose
4	504-0017	2	Cock, Drain (Wet and Dry) (1/4"NPT x 3/8"Hose)	11	503-2509	1	*Hose, Front Coolant
5	309-0667	1	Switch, Pressure	12	503-2510	1	*Hose, Rear Coolant
				13	193-0468	1	Sender, Low Coolant (Optional)
				14	505-2263	1	Spacer, Low Coolant (Optional)

* - Front and Rear Coolant Hoses shipped loose.

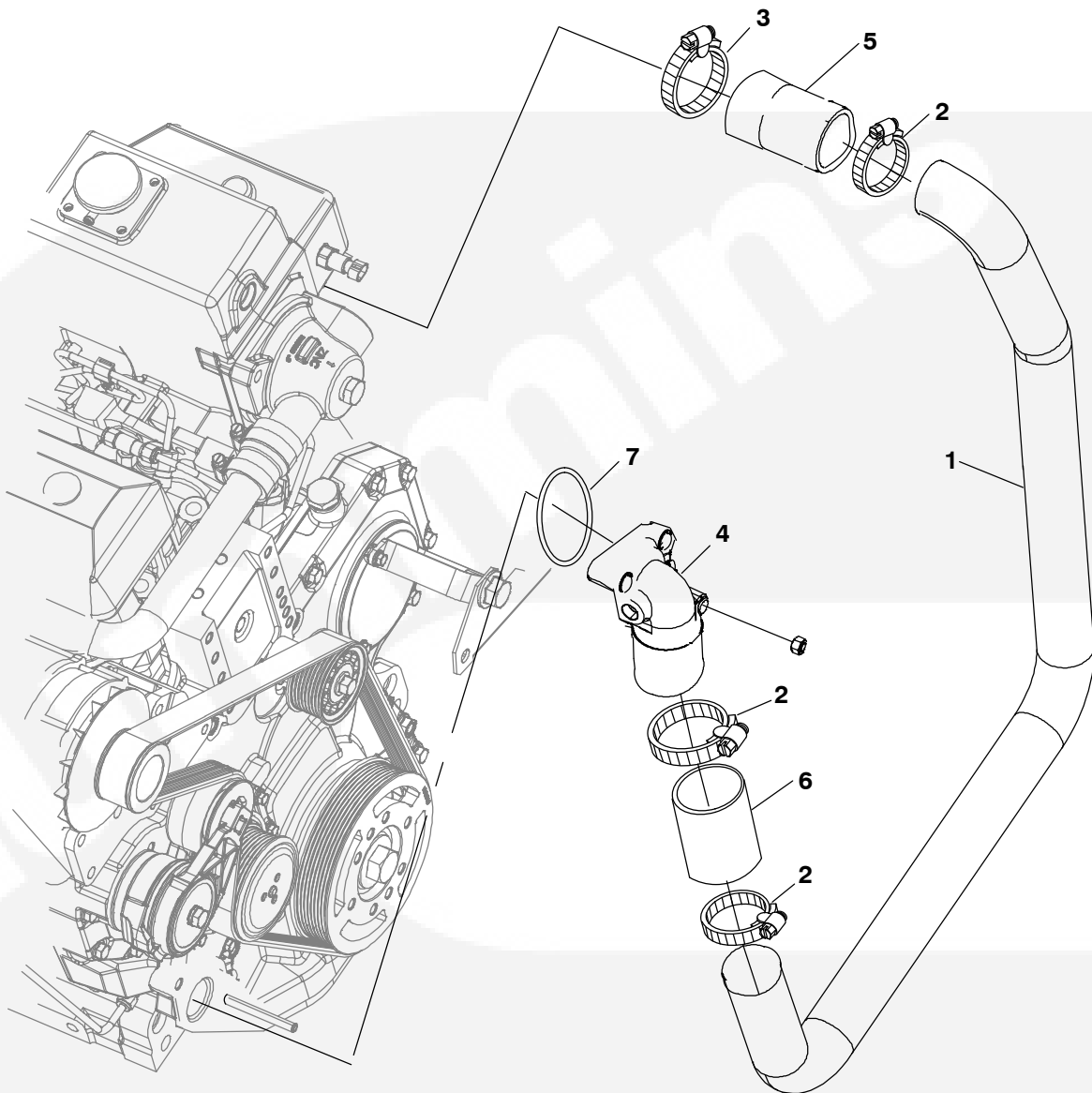
**Heat Exchanger
(Wet)**



Heat Exchanger (Wet)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6228	2	Plug, Anode	9	130-6269	1	Tube, Seawater
2	130-6267	1	Exchanger, Heat	10	503-2525	1	(Pump to Exchanger)
			MDDCA, MDDCB, MDDCC,	11	503-2526	1	Hose, Seawater
			MDDCF, MDDCG, MDDCK,				Hose, Seawater
			MDDCL, MDDCM and				MDDCA, MDDCB, MDDCC,
			MDDCN				MDDCF, MDDCG, MDDCK,
	130-6273	1	MDDCD, MDDCE, MDDCH,				MDDCL, MDDCM and
			MDDCJ, MDDCP and				MDDCN
			MDDCR		503-2522	1	MDDCD, MDDCE, MDDCH,
3	509-0399	2	Package, Heat Exchanger				MDDCJ, MDDCP and
			O'Ring				MDDCR
4	509-0400	2	Package, Heat Exchanger	12	800-6320	4	Screw, Flanged (M6 x 16mm)
5	130-6266	1	Cap, Radiator	13	800-6321	4	Screw, Flanged (M10 x 35mm)
6			Clamp, Hose	14	323-2178	1	Plug, Exhaust Manifold
	503-2524	3	MDDCA, MDDCB, MDDCC,	15	504-0269	1	Cock, Special Drain
			MDDCF, MDDCG, MDDCK,				MDDCA, MDDCB, MDDCC,
			MDDCL, MDDCM and				MDDCF, MDDCG, MDDCK,
			MDDCN				MDDCL, MDDCM and
	503-2532	3	MDDCD, MDDCE, MDDCH,				MDDCN
			MDDCJ, MDDCP and		504-0270	1	MDDCD, MDDCE, MDDCH,
			MDDCR				MDDCJ, MDDCP and
7	130-6268	2	Cover, Heat Exchanger				MDDCR
			O'Ring	16	323-2179	1	Plug, Exhaust Manifold
8			Clamp, Hose				
	503-2523	1	MDDCA, MDDCB, MDDCC,				
			MDDCF, MDDCG, MDDCK,				
			MDDCL, MDDCM and				
			MDDCN				

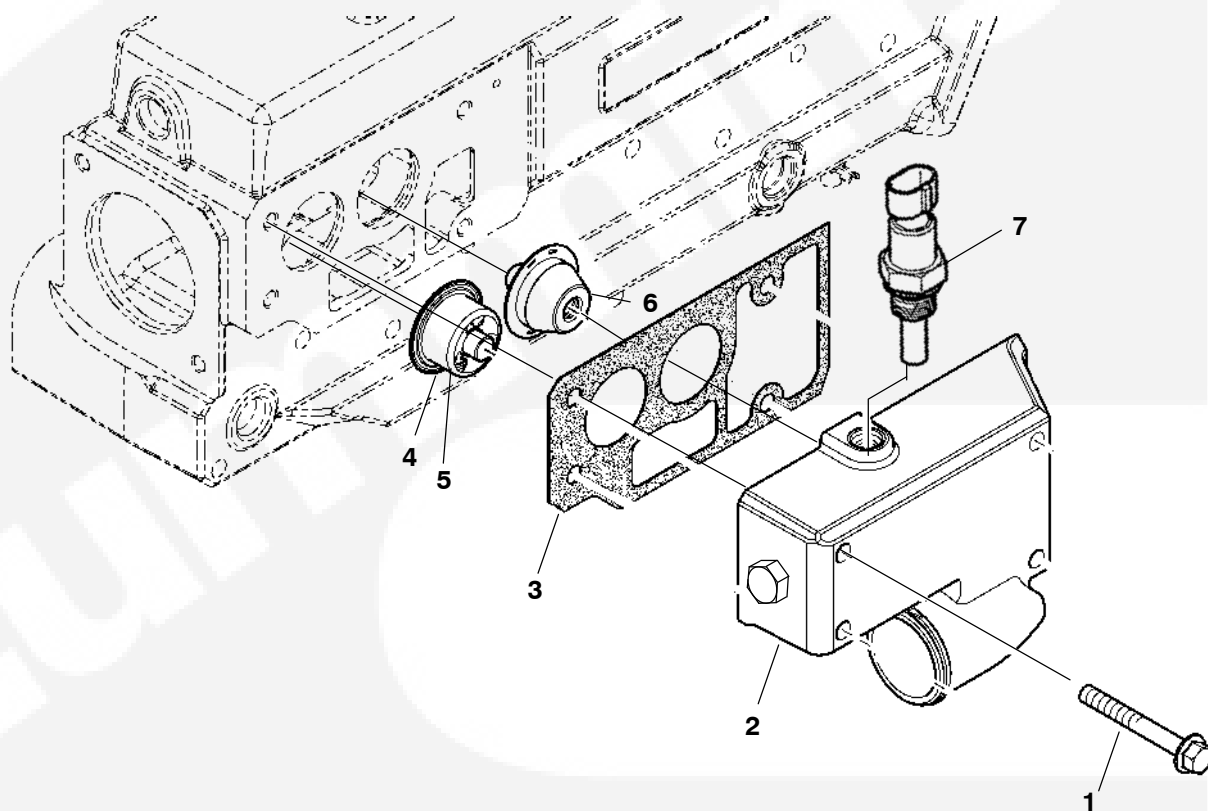
Coolant System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-6270	1	Tube, Water
2	503-2527	3	Clamp, Water Pump Hose
3	503-2528	1	Clamp, Water Pump Hose
4	132-0441	1	Inlet, Water Pump

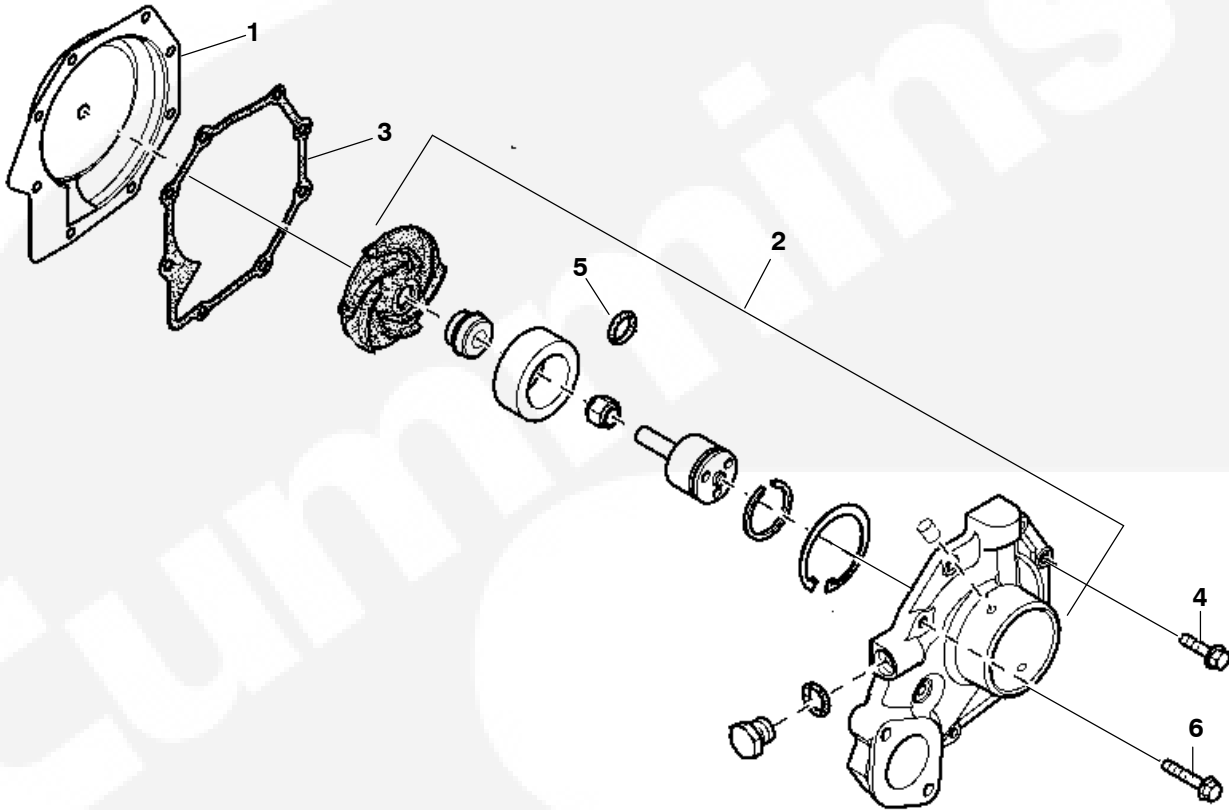
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	503-2529	1	Hose, Upper Radiator
6	503-2522	1	Hose, Lower Radiator
7	509-0404	1	Packing, O'Ring

Thermostat Housing



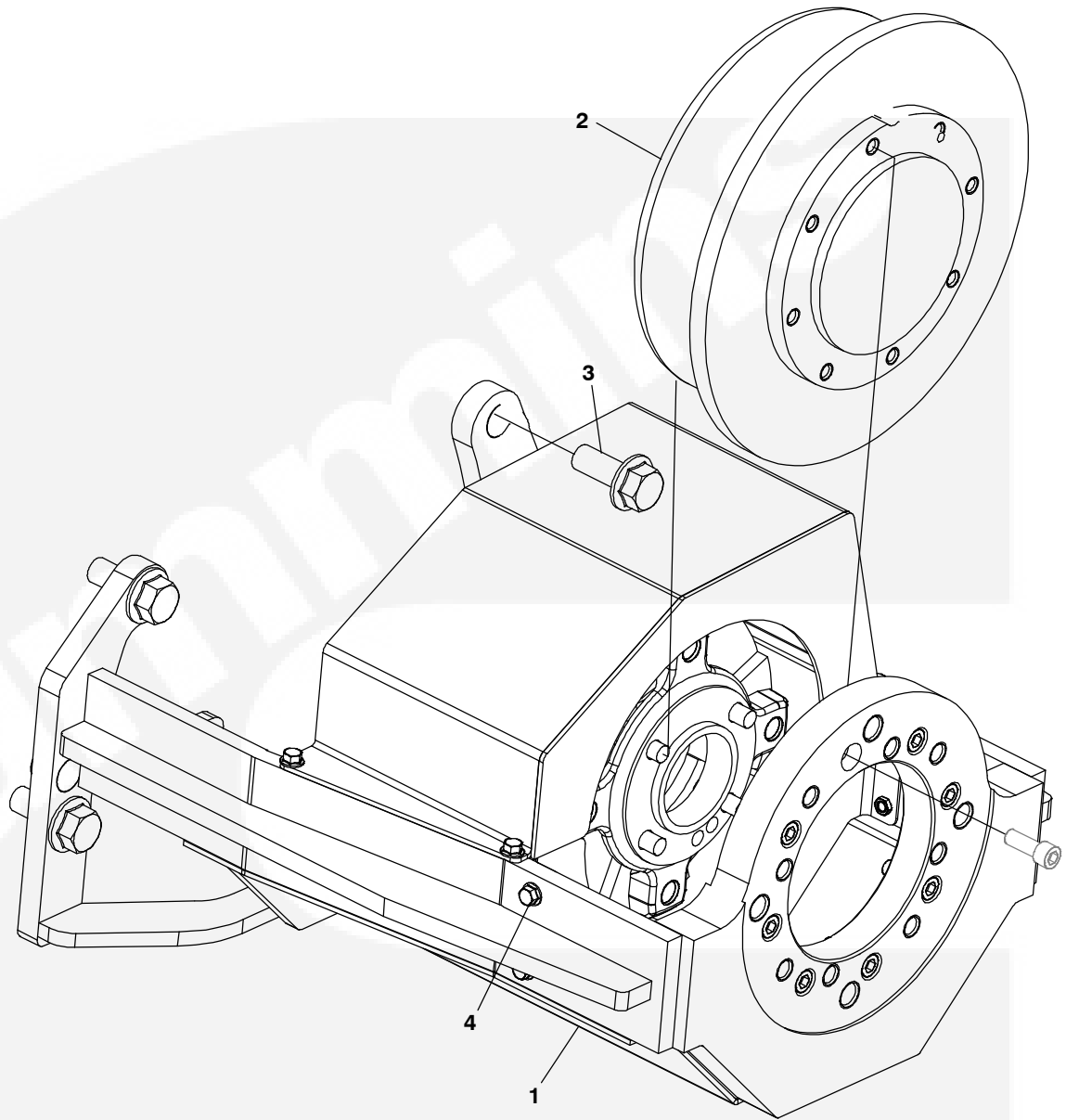
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-6319	4	Screw, Flange Metric (M10 x 80mm)	4	130-6226	2	Thermostat
2	130-6262	1	Cover, Thermostat	5	130-6263	1	Thermostat (4 Cylinder)
3	130-6227	1	Gasket, Thermostat Cover	6	130-6264	1	Thermostat 82° (4 Cylinder)
				7	193-0573	1	Senor, Temperature

Coolant Pump



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1146	1	Kit, Water Pump, High Flow	4	800-6323	7	Screw, Flanged (M6 x 25mm)
1	541-1147	1	Kit, Water Pump Insert Service	5	509-0402	1	Packing, O'Ring
2	132-0438	1	Assy, Water Pump	6	800-6322	3	Screw, Flanged (M6 x 30mm)
3	132-0439	1	Gasket, Water Pump				

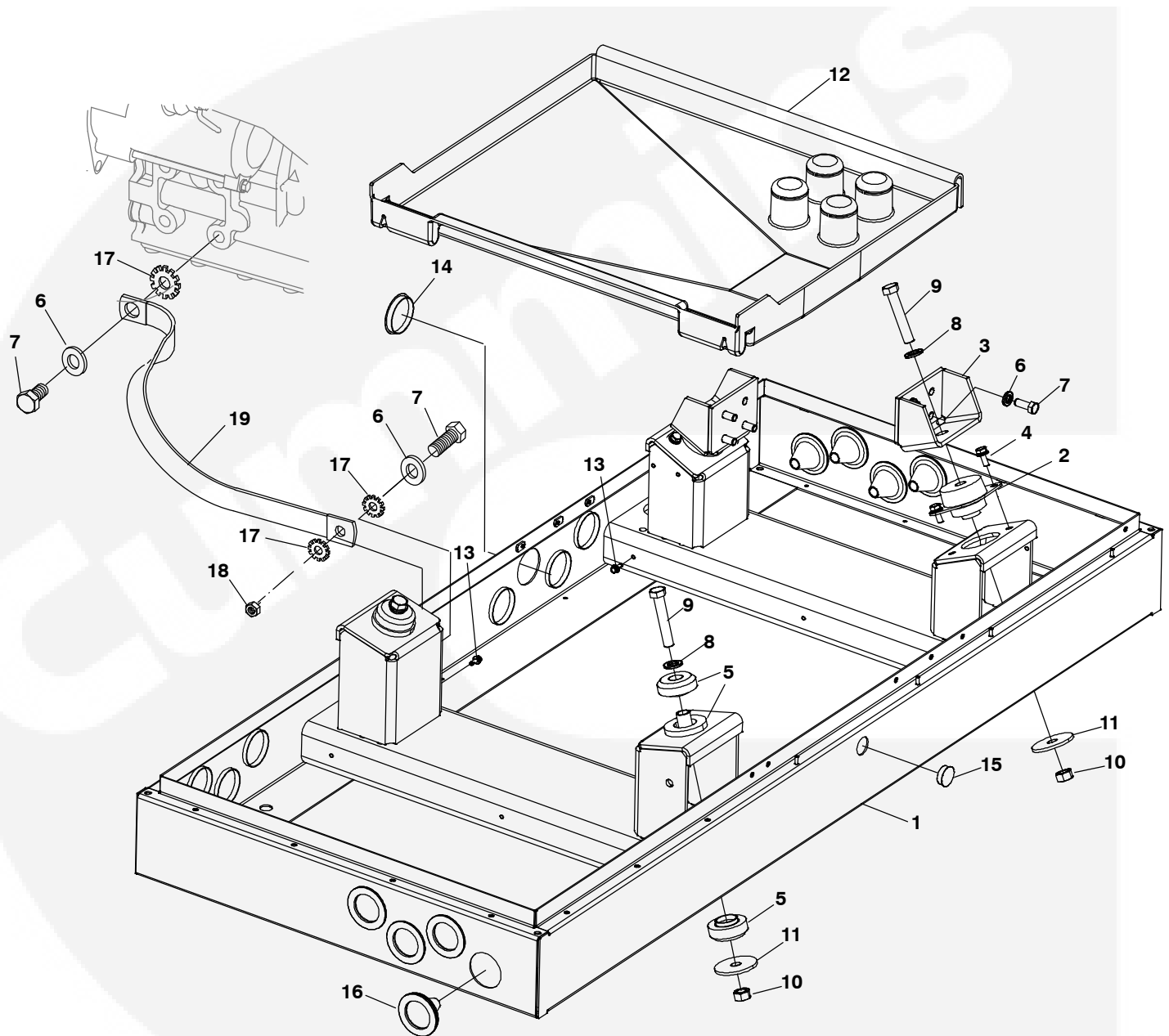
Power Takeoff



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1139-01	1	Kit, PTO MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN		190-0724-02	1	12V, 100Horsepower
	541-1139-02	1	Kit, PTO MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP and MDDCR		190-0724-01	1	24V, 100Horsepower
1	190-0819-01	1	Assy, PTO Adapter 4 Cylinder	3	800-3017-72	4	*Screw, Hex Head Flange (M16 x 2 x 40mm)
	190-0819-02	1	6 Cylinder	4	800-3017-04	2	*Screw, Hex Head Flange (M6 x 1 x 20mm)
2			Clutch				
	190-0719-01	1	12V, 70Horsepower				
	190-0719-02	1	24V, 70Horsepower				

* - All parts included in kit unless noted.

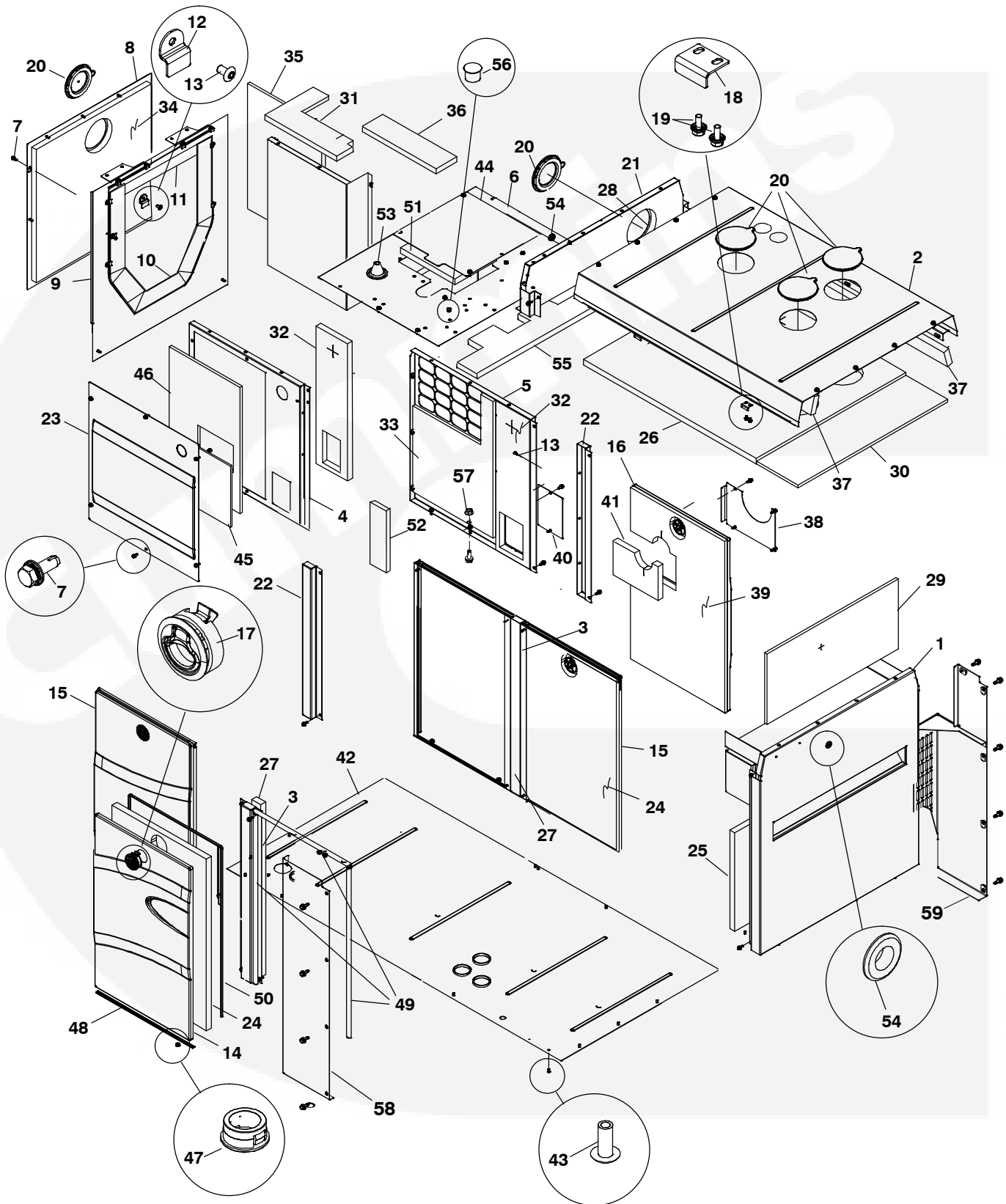
Skid



Skid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Assy, Skid				(MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP, MDDCR)
	403-5201-04	1	PTO and Non-PTO (MDDCA, MDDCF, MDDCK, MDDCL)	6	526-0399-64	8	Washer, Flat (M12)
	403-5201-05	1	PTO and Non-PTO (MDDCB, MDDCC, MDDCG, MDDCM, MDDCN)	7	800-3017-54	8	Screw, Hex Head Cap (M12 x 1.75 x 30mm)
	403-5201-06	1	PTO and Non-PTO (MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP, MDDCR)	8	526-0399-66	4	Washer, Flat (M16)
				9	800-3017-82	4	Screw, Hex Head Cap (M16 x 2 x 90mm)
2			Isolator, Vibration	10	862-0026-58	4	Nut, Hex (M16 x 2)
	402-0824-01	2	Non-PTO (MDDCA, MDDCF, MDDCB, MDDCC, MDDCG, MDDCK, MDDCL, MDDCM, MDDCN)	11	402-0835-02	4	Washer, Snubbing
	402-0824-02	2	PTO (MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP, MDDCR)	12			Pan, Drip
	402-0824-03	2	Non-PTO (MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP, MDDCR) and PTO (MDDCA, MDDCF, MDDCB, MDDCC, MDDCG, MDDCK, MDDCL, MDDCM, MDDCN)		403-5355-01	1	PTO and Non-PTO (MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP, MDDCR)
					403-5355-02	1	PTO and Non-PTO (MDDCB, MDDCC, MDDCG, MDDCM, MDDCN)
					403-5355-03	1	PTO and Non-PTO (MDDCA, MDDCF, MDDCK, MDDCL)
3	403-5202-03	3	Mount, Engine (Bracket)	13	800-6395-01	4	Screw, Hex Head (M6 1 x 16mm)
4	821-6004-01	4	Screw, Hex Head Sems (M10 x 1.5 x x20mm)	14	517-0138-09	12	Plug, Hole
5			Isolator, Vibration	15	517-0138-04	1	Plug, Hole
	402-0825-01	2	PTO and Non-PTO (MDDCA, MDDCF, MDDCB, MDDCC, MDDCG, MDDCK, MDDCL, MDDCM, MDDCN)	16	508-1203	4	Grommet
	402-0825-02	2	PTO and Non-PTO	17	856-0013	3	Washer, ETIT Locking (1/2")
				18	862-0026-57	1	Nut, Hex (M12 x1.75)
				19	337-0090	1	Strap, Bond

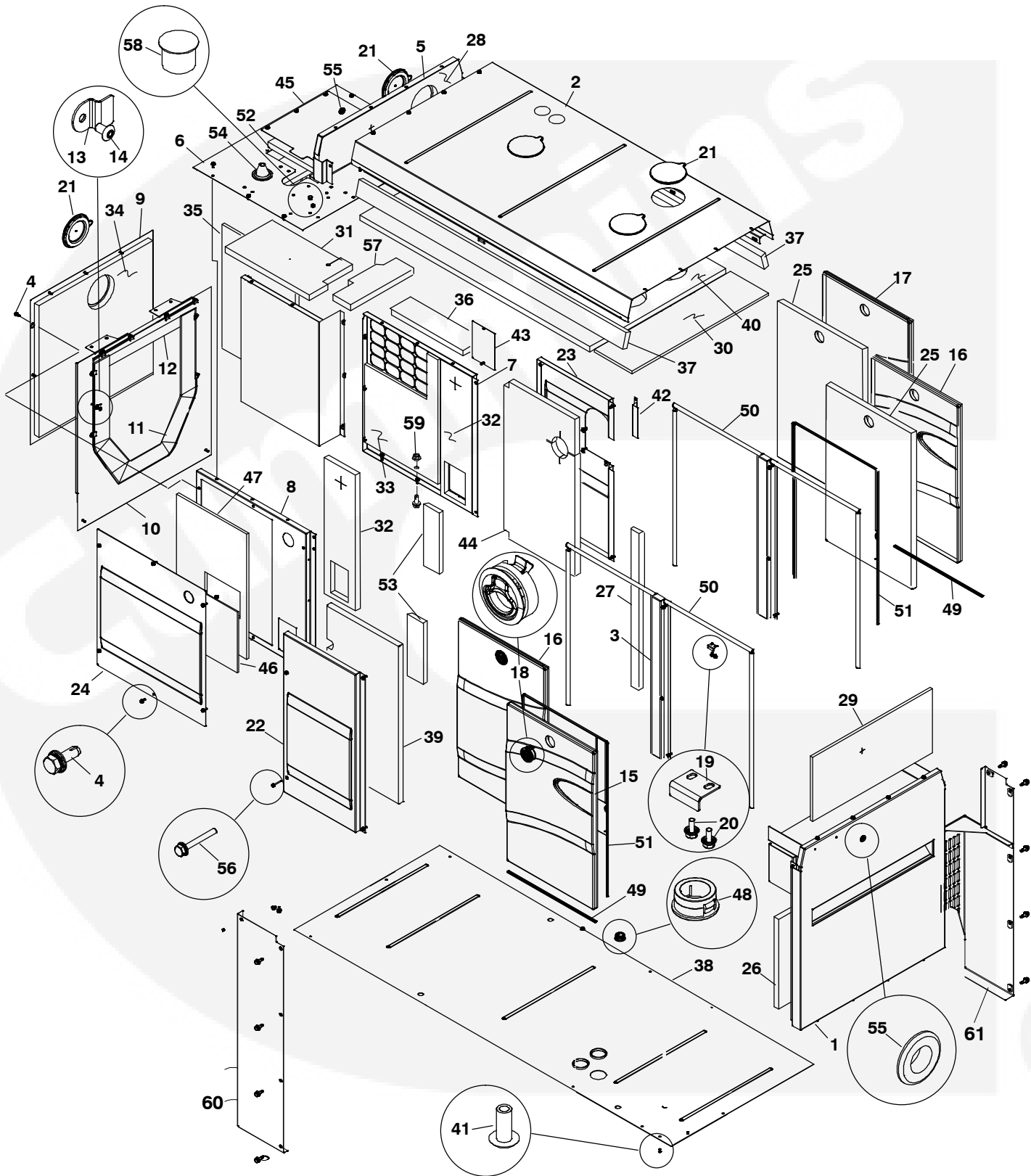
Housing
(MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN)



Housing
(MDDCA, MDDCB, MDDCC, MDDCF, MDDCG, MDDCK, MDDCL, MDDCM and MDDCN)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	541-1126-01	1	Kit, Sound Shield (40, 55, 65kW)	26	405-7815	1	Insulation, Roof
		1	Panel, Enclosure	27	405-7816	3	Insulation, Enclosure (Stiffener)
	405-7805-03		(Front Non-PTO)	28	405-7817	1	Insulation, Enclosure
	A030D681		(Front with PTO)	29	405-7819	1	Insulation, Baffle
2		1	Panel, Roof	30	405-7820	1	Insulation, Baffle
	405-7795-03		Panel, Roof	31	405-8281	1	Insulation, Enclosure
	A030D675		Panel, Roof	32	405-7858	2	Insulation, Enclosure
3	405-7796-03	2	Stiffener, Enclosure	33	405-7822	1	Insulation, Enclosure
4	405-8051-03	1	Panel, Enclosure	34	405-7823	1	Insulation, Cover
5	405-8052-03	1	Panel, Enclosure	35	405-7824	1	Insulation, Baffle
6	405-8053-03	1	Panel, Enclosure	36	405-7859	1	Insulation, Enclosure
7	800-6395-01	87	Screw, Hex Head	37	405-8097-01	2	Insulation, Roof
			(M6 x 1.0 x 16mm)	38	405-8042-03	1	Panel, Enclosure
8	405-7802-03	1	Cover, Enclosure	39	405-8064	1	Insulation, Enclosure
9	405-8015-02	1	Panel, Air Baffle	40	405-8024-03	1	Panel, Access
10	509-0392	1	Seal, Brush	41	405-8067	1	Insulation, Enclosure
11	509-0393	1	Seal, Brush	42			Pan, Skid
12	134-5299-02	13	Bracket, Fan		403-5331-02	1	MDDCA, MDDCF,
13			Rivet, Pop				MDDCK and MDDCL
	818-0231-01	13	PTO and Non-PTO		403-5260-02	1	MDDCB, MDDCC,
			(MDDCA, MDDCF,				MDDCG, MDDCM and
			MDDCK and MDDCL)				MDDCN
	818-0231-01	19	PTO and Non-PTO	43	818-0231-02	22	Rivet, Pop
			(MDDCB, MDDCC,	44	405-8094-03	1	Panel, Access
			MDDCG, MDDCH,	45	405-8096	1	Insulation, Enclosure
			MDDCM and MDDCN)	46	405-7860	1	Insulation, Enclosure
14	405-7781-09	1	Door, Access	47	508-1209	8	Bushing
15	405-7781-10	2	Door, Access	48	895-0395	1	Seal, Weather (996mm)
16	405-7781-11	1	Door, Access	49	895-0411	1	Seal, Enclosure (8024mm)
17	406-1055	4	Latch, Door (Flush Pull)	50	508-0333	1	Trim, Edge (8128mm)
18	406-1050	4	Catch, Door	51	405-8235	2	Insulation, Cover
19	821-6001-01	8	Screw, Hex Head Sems	52	405-8236	2	Insulation, Baffle
			(M5 x .8 x 10mm)	53	508-1203	1	Grommet
20	405-7257	5	Cover, Access	54	508-0021	2	Grommet
21	405-7797-03	1	Panel, Roof (End)	55	405-8277	1	Insulation, Enclosure
22	405-7914-03	2	Spacer, Panel (MDDCB,	56	517-0131-03	4	Plug, Hole
			MDDCC, MDDCG,	57	870-2065-02	1	Nut, Hex Flange (M6 x 1mm)
			MDDCM, MDDCN,	58	A030C264	1	Guard, Belt
			MDDCH PTO and	59	A030D304	1	Guard, Belt
			Non-PTO)				
23	405-8023-03	1	Panel, Access	* - All parts included with PTO and Non-PTO Housing unless noted. + - All parts included with Sound Shield Kit unless noted.			
24	405-7813	3	Insulation, Door				
25	405-7814	1	Insulation, Enclosure				
			(Front Non-PTO only)				

Housing (MDDCD, MDDCE, MDDCH and MDDCJ)



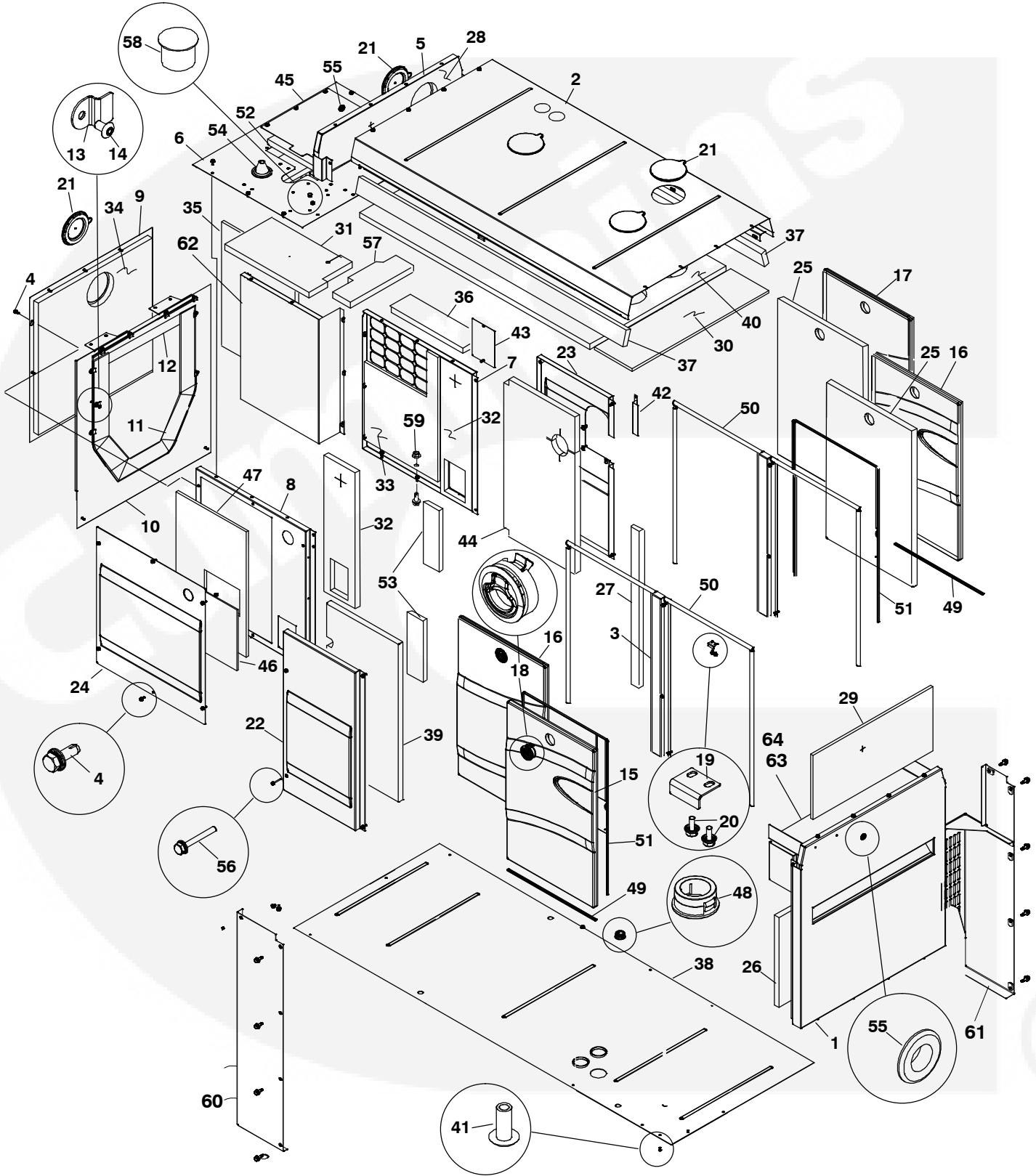
Housing (MDDCD, MDDCE, MDDCH and MDDCJ)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1127-01	1	Kit, Sound Shield (80, 99kW)	31	405-8281	1	Insulation, Enclosure
1	405-7805-03	1	Panel, Enclosure (Front Non-PTO)	32	405-7858	2	Insulation, Enclosure
2		1	Panel, Roof	33	405-7822	1	Insulation, Enclosure
	405-8031-03		Panel, Roof	34	405-7823	1	Insulation, Cover
	A030D679		Panel, Roof	35	405-7824	1	Insulation, Baffle
3	405-7796-03	2	Stiffener, Enclosure	36	405-7859	1	Insulation, Enclosure
4	800-6395-01	84	Screw, Hex Head (M6 x 1.0 x 16mm)	37	405-8097-02	2	Insulation, Roof
5	405-7797-03	1	Panel, Roof (End)	38	403-5332-02	1	Pan, Skid
6	405-8053-03	1	Panel, Enclosure	39	405-7818		Insulation, Enclosure
7	405-8052-03	1	Panel, Enclosure	40	405-8033	1	Insulation, Roof
8	405-8051-03	1	Panel, Enclosure	41	818-0231-02	22	Rivet, Pop
9	405-7802-03	1	Cover, Enclosure	42	405-8043-03	1	Panel, Enclosure
10	405-8015-02	1	Panel, Air Baffle	43	405-8024-03	1	Panel, Enclosure
11	509-0392	1	Seal, Brush	44	405-8065	1	Insulation, Enclosure
12	509-0393	1	Seal, Brush	45	405-8094-03	1	Panel, Access
13	134-5299-02	13	Bracket, Fan	46	405-8096	1	Insulation, Enclosure
14	818-0231-01	13	Rivet, Pop	47	405-7860	1	Insulation, Enclosure
15	405-7781-09	1	Door, Access	48	508-1209	8	Bushing
16	405-7781-10	2	Door, Access	49	895-0395	1	Seal, Weather (996mm)
17	405-7781-12	1	Door, Access	50	895-0411	1	Seal, Enclosure (8024mm)
18	406-1055	4	Latch, Door (Flush Pull)	51	508-0333	1	Trim, Edge (8128mm)
19	406-1050	4	Catch, Door	52	405-8235	1	Insulation, Cover
20	821-6001-01	8	Screw, Hex Head Sems (M5 x .8 x 10mm)	53	405-8236	2	Insulation, Baffle
21	405-7257	5	Cover, Access	54	508-1203	1	Grommet
22	405-7911-03	1	Panel, Access	55	508-0021	2	Grommet
23	405-7912-03	1	Panel, Access	56	800-3023	4	Screw, Hex Head Cres (M6 x 40mm)
24	405-8023-03	1	Panel, Access	57	405-8277	1	Insulation, Enclosure
25	405-7813	4	Insulation, Door	58	517-0131-03	4	Plug, Hole
26	405-7814	1	Insulation, Enclosure (Front Non-PTO)	59	870-2065-02	1	Nut, Hex Flange (M6 x 1mm)
27	405-7816	2	Insulation, Enclosure (Stiffener)	60	A030C264	1	Guard, Belt
28	405-7817	1	Insulation, Enclosure	61	A030D304	1	Guard, Belt
29	405-7819	1	Insulation, Baffle				
30	405-7820	1	Insulation, Baffle				

* - All parts included with PTO and Non-PTO Housing unless noted.

+ - All parts included with Sound Shield Kit unless noted.

Housing
(MDDCD, MDDCE, MDDCH and MDDCJ) (Spec C)
(MDDCP and MDDCR) (Spec A)



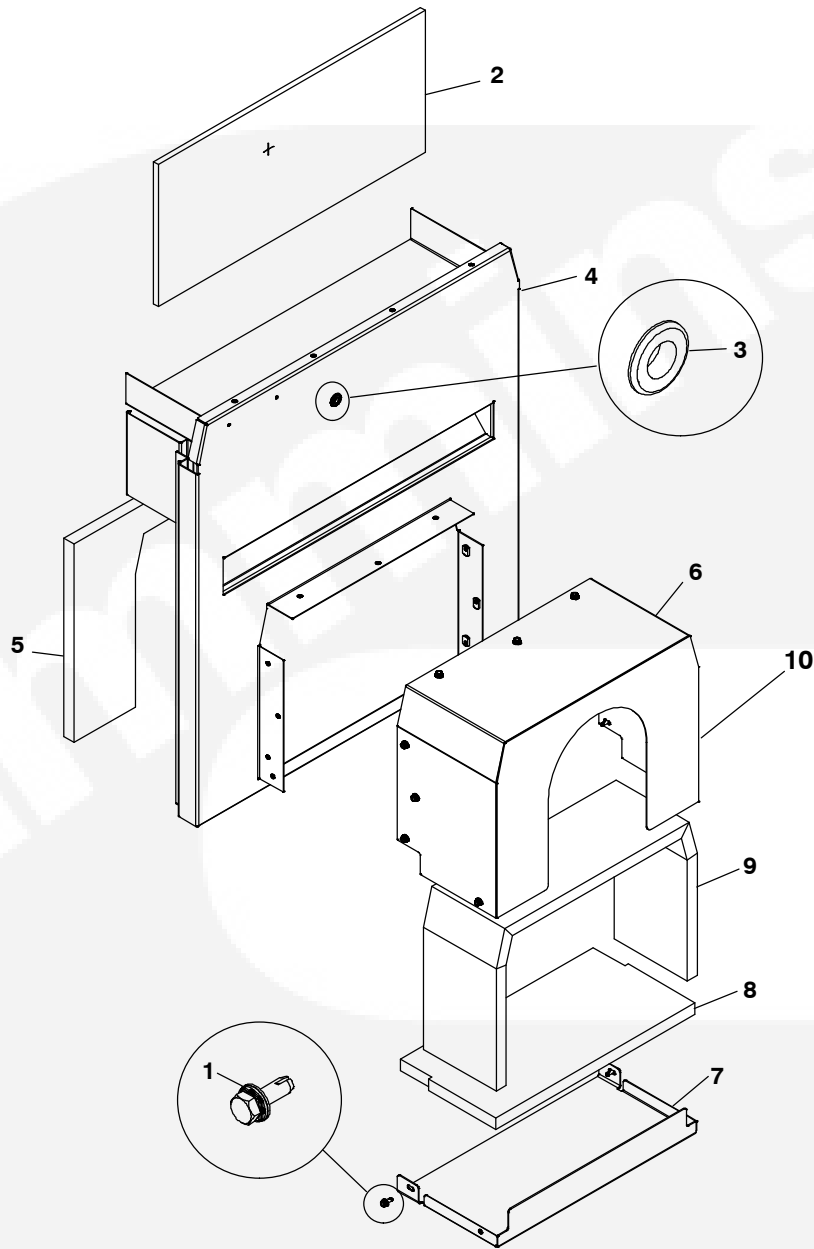
Housing
(MDDCD, MDDCE, MDDCH and MDDCJ) (Spec C)
(MDDCP and MDDCR) (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Enclosure	31	405-8281	1	Insulation, Enclosure
	A034X356	1	(40/55/65 kW),	32	405-7858	2	Insulation, Enclosure
	A034X358	1	(40/55/65 kW),	33	405-7822	1	Insulation, Enclosure
	A034X350	1	(PTO)	34	405-7823	1	Insulation, Cover
	A034X352	1	(80/99 kW)	35	405-7824	1	Insulation, Baffle
1	405-7805-03	1	Panel, Enclosure	36	405-7859	1	Insulation, Enclosure
			(Front Non-PTO)	37	405-8097-02	2	Insulation, Roof
2	A034M119	1	Panel, Roof	38	403-5332-02	1	Pan, Skid
3	A034G788	2	Stiffener, Enclosure	39	405-7818		Insulation, Enclosure
4	800-6395-01	84	Screw, Hex Head	40	405-8033	1	Insulation, Roof
			(M6 x 1.0 x 16mm)	41	818-0231-02	22	Rivet, Pop
5	A034G805	1	Panel, Roof (End)	42	A034H704	1	Panel, Enclosure
6	A034G868	1	Panel, Enclosure	43	A034H723	1	Panel, Enclosure
7	A034G934	1	Panel, Enclosure	44	405-8065	1	Insulation, Enclosure
8	A034H088	1	Panel, Enclosure	45	A034H733	1	Panel, Access
9	A034H324	1	Cover, Enclosure	46	405-8096	1	Insulation, Enclosure
10	A034H352	1	Panel, Air Baffle	47	405-7860	1	Insulation, Enclosure
11	509-0392	1	Seal, Brush	48	508-1209	8	Bushing
12	509-0393	1	Seal, Brush	49	895-0395	1	Seal, Weather (996mm)
13	134-5299-02	13	Bracket, Fan	50	895-0411	1	Seal, Enclosure (8024mm)
14	818-0231-01	13	Rivet, Pop	51	508-0333	1	Trim, Edge (8128mm)
15	A034H448	1	Door, Access	52	405-8235	1	Insulation, Cover
16	A034H485	2	Door, Access	53	405-8236	2	Insulation, Baffle
17	A034H490	1	Door, Access	54	508-1203	1	Grommet
18	406-1055	4	Latch, Door (Flush Pull)	55	508-0021	2	Grommet
19	406-1050	4	Catch, Door	56	800-3023	4	Screw, Hex Head Cres
20	821-6001-01	8	Screw, Hex Head Sems				(M6 x 40mm)
			(M5 x .8 x 10mm)	57	405-8277	1	Insulation, Enclosure
21	405-7257	5	Cover, Access	58	517-0131-03	4	Plug, Hole
22	A034M558	1	Panel, Access	59	870-2065-02	1	Nut, Hex Flange (M6 x 1mm)
23	A034H569	1	Panel, Access	60	A034H749	1	Guard, Belt
24	A034H687	1	Panel, Access	61	A030D304	1	Guard, Belt
25	405-7813	4	Insulation, Door	62	A034H336	1	Panel, Air Baffle
26	405-7814	1	Insulation, Enclosure	63	A034M554	1	Panel, Air Baffle
			(Front Non-PTO)	64	A034M556	1	Panel, Air Baffle
27	405-7816	2	Insulation, Enclosure (Stiffener)				
28	405-7817	1	Insulation, Enclosure				
29	405-7819	1	Insulation, Baffle				
30	405-7820	1	Insulation, Baffle				

* - All parts included with PTO and Non-PTO Housing unless noted.

+ - All parts included with Sound Shield Kit unless noted.

PTO Housing



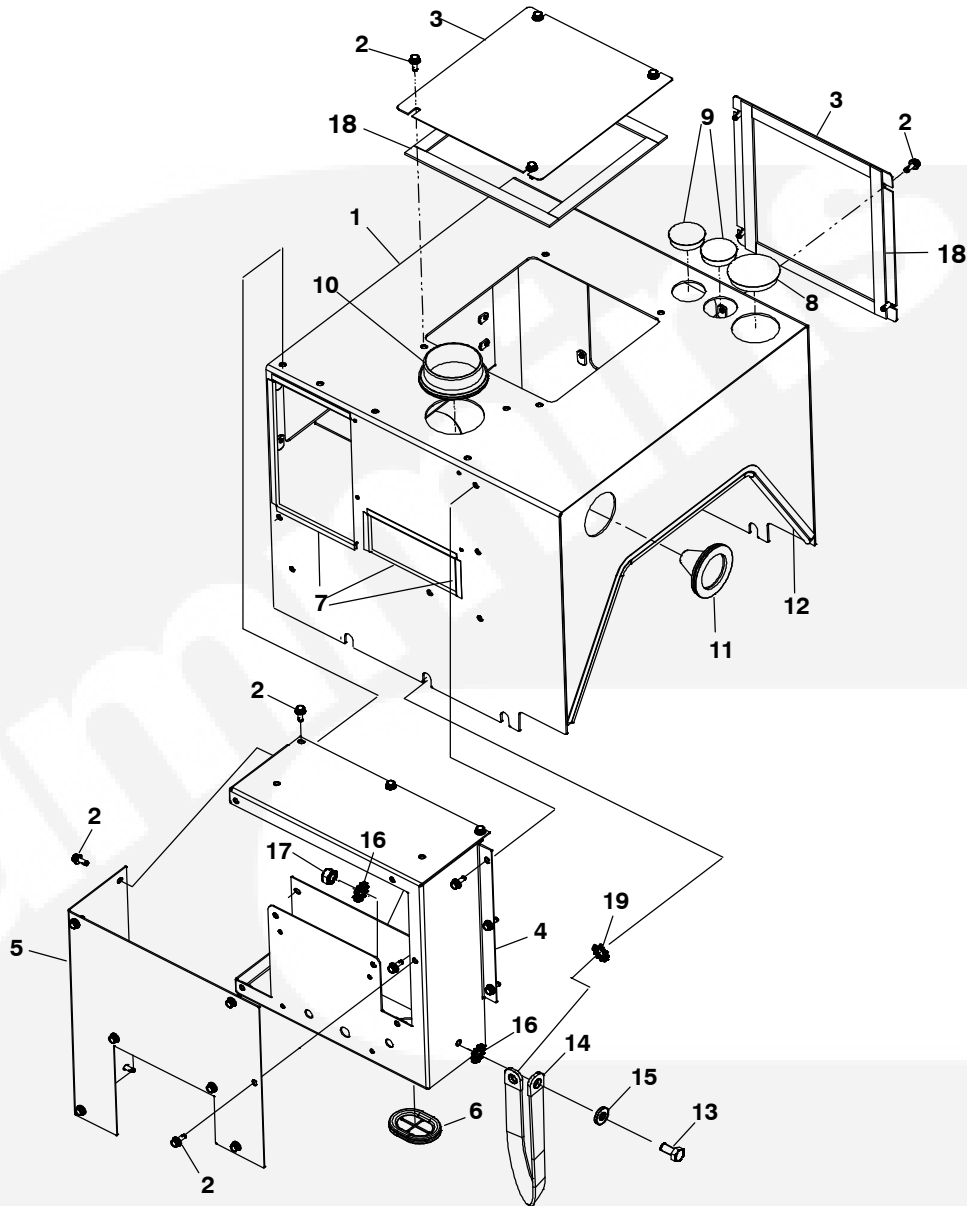
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1140		Kit, Sound Shield (PTO) (Includes Parts Marked*)	4		1	*Panel, Enclosure (Front)
1	821-6006-01	13	*Screw, Hex Head Sems Stainless (M6 x 1.0 x 16mm)		405-8099-03		(Front)
					A030D683		(Front)
2			Insulation, Baffle		A034M805	1	(Spec C, MDDCA-K) (Spec A, MDDCL-R)
	405-7858	1	* MDDCA, MDDCB, MDDCC MDDCF, MDDCG, MDDCK MDDCL, MDDCM, MDDCN	5	405-8200	1	*Insulation, Sound (Front)
				6	190-0822-03	1	*Guard, Coupling
	405-7819	1	MDDCD, MDDCE, MDDCH, MDDCJ, MDDCP, MDDCR	7		1	*Guard, Coupling
3	508-0021	2	*Grommet		190-0823-03	1	(Spec A-B)
					A034K784	1	(Spec C, MDDCA-K) (Spec A, MDDCL-R)
				8	405-8201	1	*Insulation, Sound
				9	405-8202	1	*Insulation, Sound

10 A034M564 1 Coupling, Guard

* – All Parts Included with PTO Housing Only

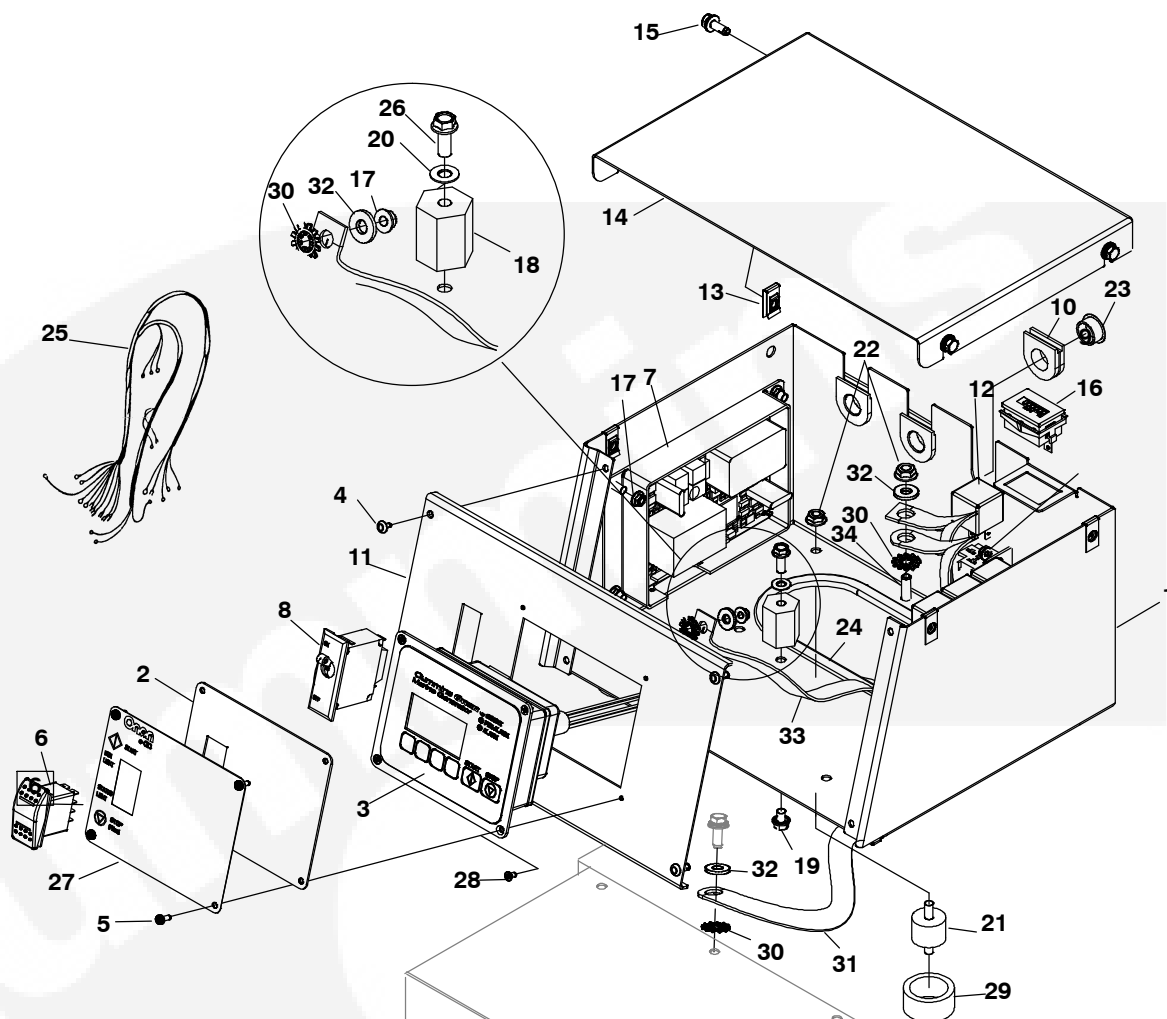


Control Housing



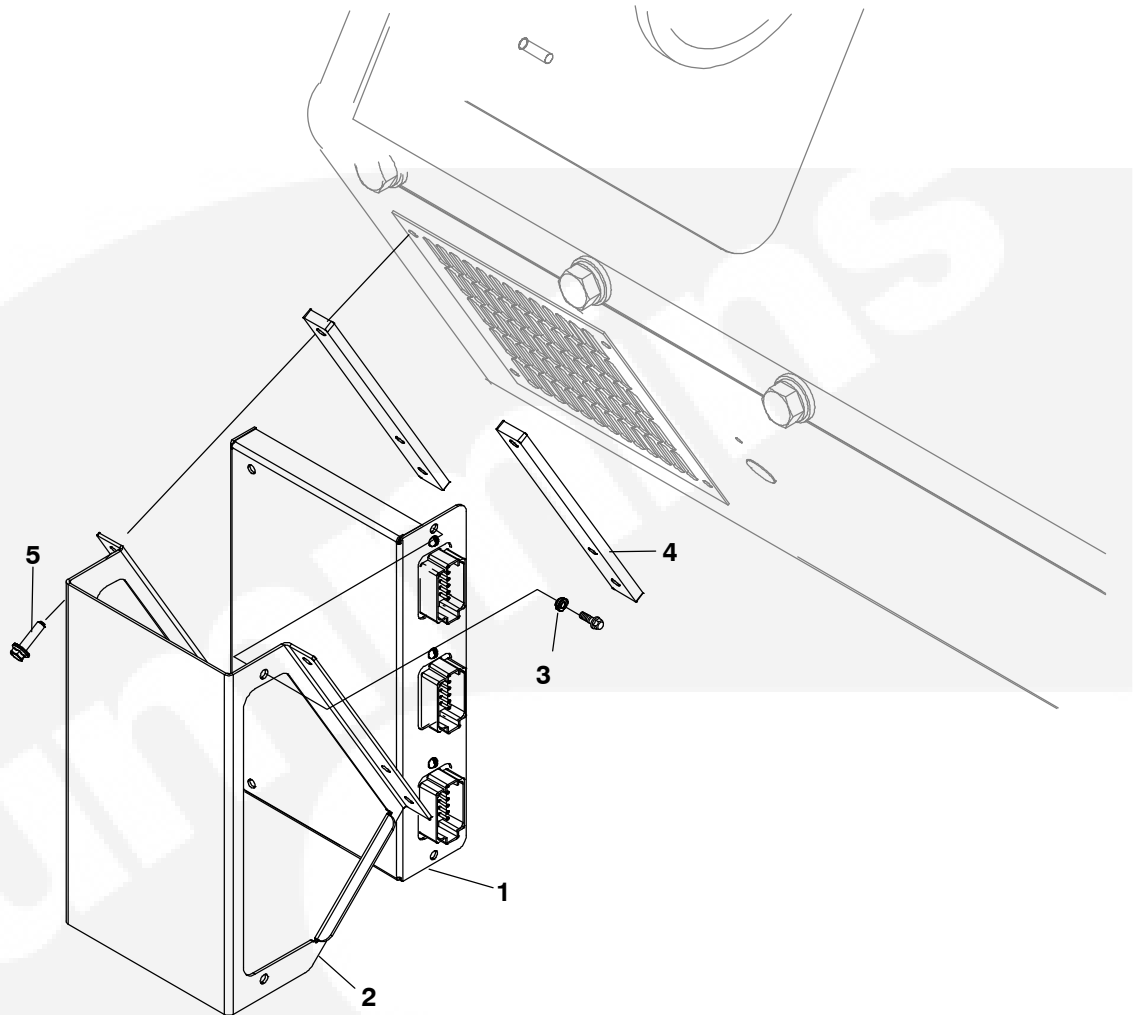
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-5350-03	1	Saddle, Control Box	10	508-1152	1	Grommet, Rubber
	319-5301-03	1	UCD22 Generator	11	508-1203	1	Grommet, Boot
2			Screw, Hex Head Sems	12	305-0837-01	1	Seal, Edge
	800-6395-01	25	Stainless(M6 x 1 x 16mm)	13	800-6085	1	UC27, UCD22 Generator
	800-6395-01	26	UCD22 Generator				Screw, Hex Head Cap
3	319-5307-03	2	UC27 Generator				(M10 x 1.5 x 20mm)
4	319-5310-03	1	Panel Saddle (Cover)	14	337-0090	1	Strap, Electrical
5	319-5311-03	1	Box, Output	15	526-0030	1	Washer, Flat
6	508-1116	1	Box, Output (Cover)	16	856-0010	2	Washer, Eit Lock
7	508-0333	1	Grommet, Remote	17	860-2059	1	Nut, Hex Head Machine
8	517-0138-09	1	Trim, Edge (3')				(M10 x 1.5mm)
9	517-0138-07	2	Plug, Hole	18	405-8549	1	Trim, Edge (5.9')
			Plug, Hole	19	856-0013	1	Washer, Eit Lock

Control Housing (DC)



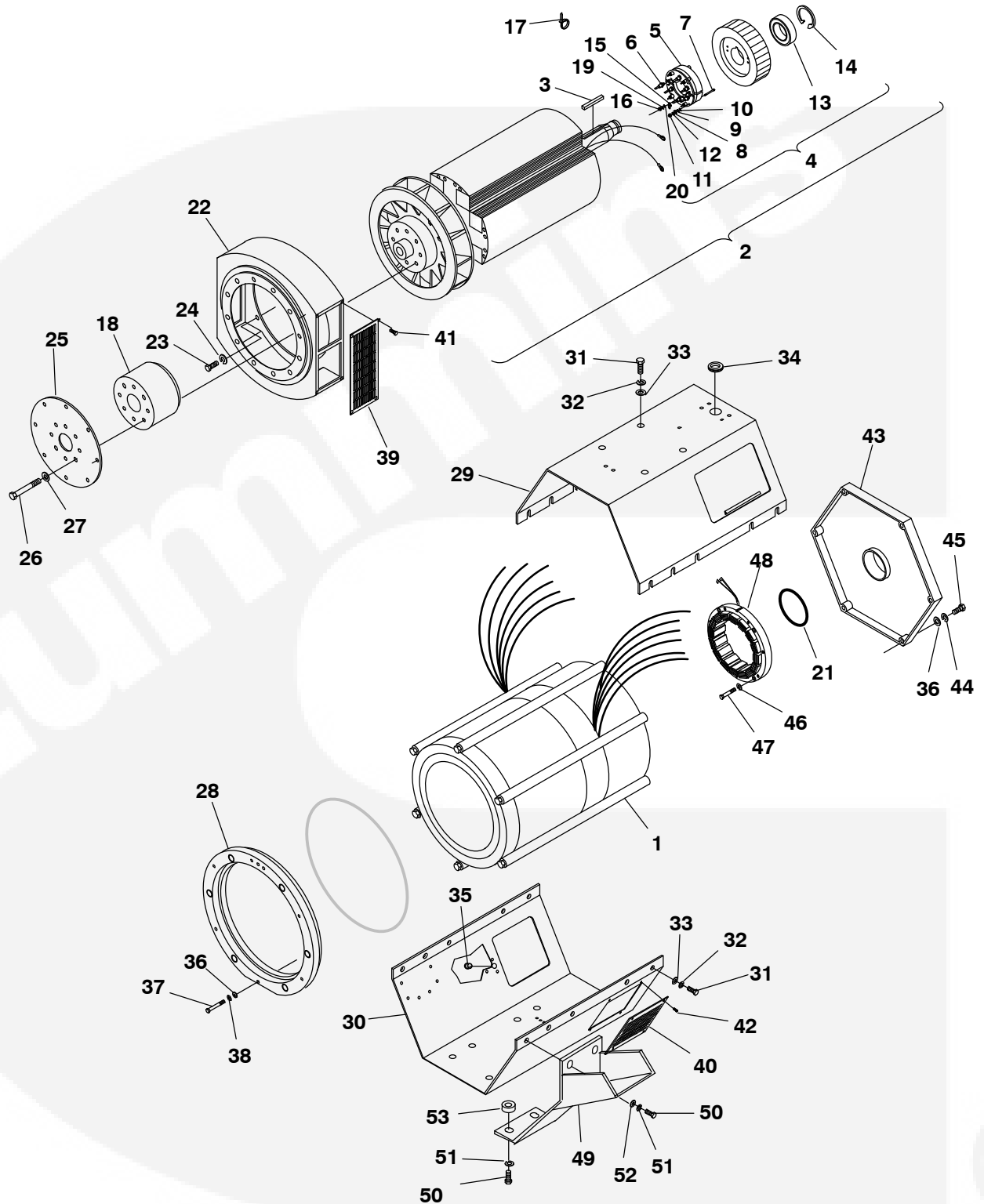
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1130	1	Kit, Control Display (Includes Display Assembly, Instructions)	16	166-0770	4	Nut, Hex Flange (M4 x .7)
1	319-5382-03	1	Box, Control (DC)	17	870-2065-01	4	Nut, Hex Flange (M5 x .7)
2	319-5426-02	1	Panel, Control (Non-ESDD)	18	332-2370	1	Standoff, Insulator
3	300-6393	1	Assy, Control Display (Face only (ESDD))	19	821-0008	1	Screw, Locking Flange Head (1/4-20 x .31")
4	818-1150-03	4	Rivet, Drive	20	526-0052	1	Washer, Flat
5	815-0845	4	Screw, Pan Head Xrec (Non-ESDD #6-32 x .38")	21	402-0610	4	Isolator, Vibration
6			Switch, Rocker SPDT (Non-ESDD)	22	870-0550-05	4	Nut, Hex Flange (1/4-20")
	308-1101	1	(12V)	23	517-0136	3	Plug, Hole
	308-1102	1	(24V)	24	508-0333	1	Trim, Edge (571mm)
7	327-1686-01	1	Assy, PCB	25	338-4439	1	Harness, Engine (See Harness Details)
8	320-2219	1	Circuit, Breaker	26	821-0010	1	Screw, Locking Flange (1/4-20 x .50)
9	302-2048	1	Hourmeter	27	98-8254	1	Label, Information (Control)
10	508-1105	3	Grommet, Remote	28	814-2155-01	4	Screw, Flange Head Xrec (ESDD M3 x 5 x 9.5mm)
11	319-5383-02	1	Panel, Control Box	29	402-0858	4	Snubber, Ring
12			Relay, SPDT	30	856-0006	3	Washer, EIT Locker (1/4")
	307-2767	4	(12V)	31	337-3466-01	1	Strap, Bond
	307-2819	4	(24V)	32	526-0399-13	3	Washer, Flat (1/4")
13	870-2228	4	Clip, Nut	33	337-2785	1	Strap, Bond
14	319-5381-03	1	Cover, Control	34	800-0310-04	1	Screw, Hex Head Cap (1/4")
15	800-6395-01	4	Screw, Hex Head (M6 x 1 x 16mm)				

PCB Mounting



REF NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	300-6396	1	PCB, Control	4	332-4112-03	2	Stiffener, PCB
2	319-5296-03	1	Bracket, PCB	5	821-2023	4	Screw, Locking Flange (M5 x .8 x 20mm)
3	526-2050	4	Washer, Flat (M4)				

Generator



Generator

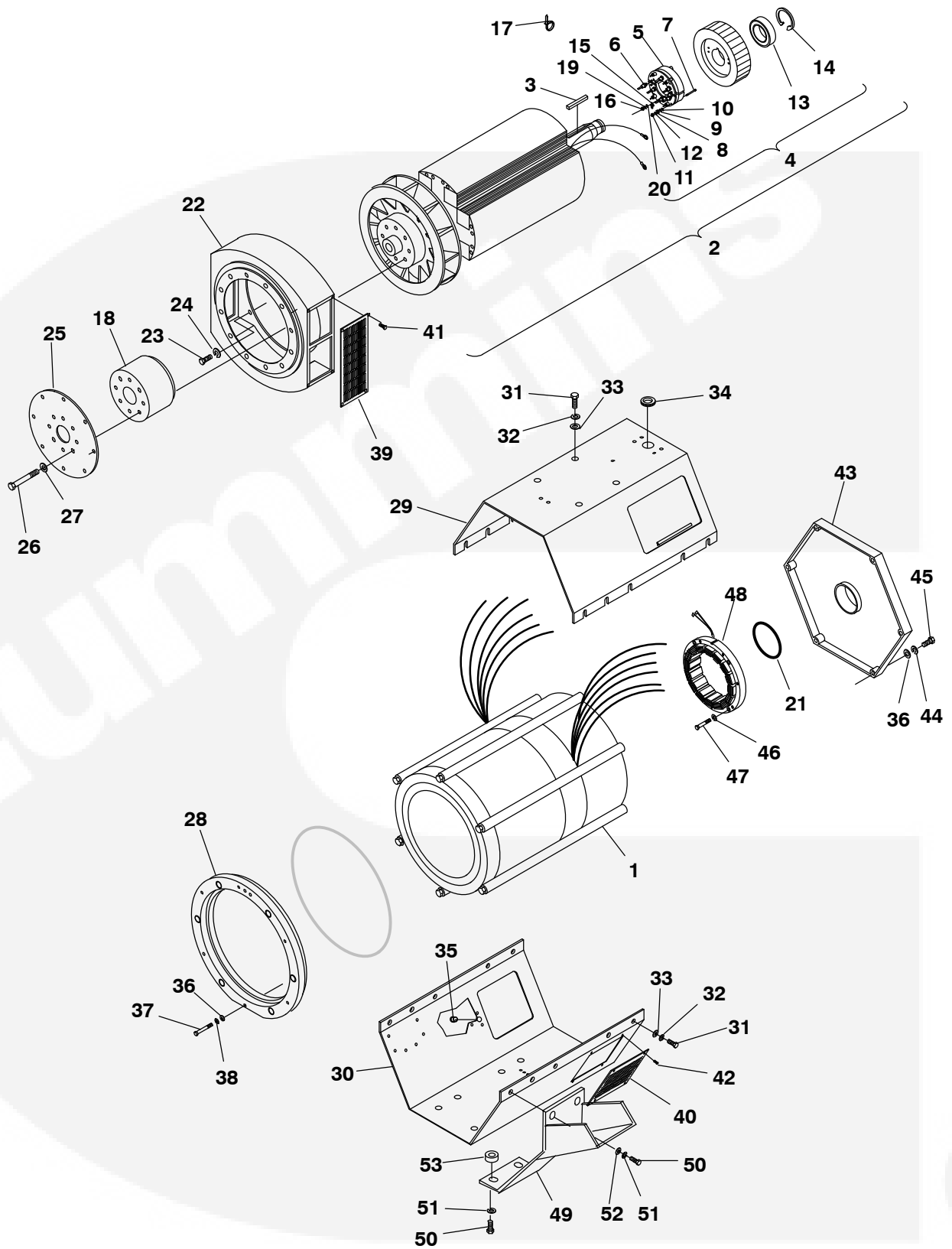
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator	10	526-2050	3	*##Washer, Flat (M4)
			UC22 Generator No.	11	870-2064-01	6	*♦Nut, Locking – Nylon (M4)
	220-4628-03	1	3096-03	12	526-2050	6	*♦Washer, Flat (M4)
	220-4628-04	1	3096-04	13			*Bearing, Ball
	220-4628-08	1	3096-08		510-0165	1	UC22 Generator
	220-4628-09	1	3096-09		510-0164	1	UC27 Generator
			UC27 Generator No.	14			*Ring, Exciter Retaining
	220-4629-02	1	3097-02		518-0122	1	UC22 Generator
	220-4629-03	1	3097-03		518-0083	1	UC27 Generator
	220-4629-04	1	3097-04	15	304-0807	1	*Varistor
	220-4629-07	1	3097-07	16	860-2006	2	*Nut, Hex (M5)
	220-4629-09	1	3097-09	17	332-3227	1	*Tie, Cable (Use As Required)
2			Rotor Assembly, Generator	18			*Hub, Generator Drive
			(Includes Parts Marked*)		232-3438	1	UC22 Generator
			UC22 Generator No.		232-3695	1	UC27 Generator
	201-3557-03	1	3096-08	19	850-2005	2	*Washer, Lock – Spring (M5)
	201-3557-04	1	3096-03, 3096-04, and 3096-09	20	526-2060	2	*Washer, Flat (M5)
			UC27 Generator No.	21			O-Ring
	201-3497-01	1	3097-07		509-0266-01	1	UC22 Generator
	201-3497-02	1	3097-02		509-0266-02	1	UC27 Generator
	201-3497-03	1	3097-03 and 3097-09	22			Adapter, Generator
	201-3497-04	1	3097-04		231-0316	1	UC22 Generator
					231-0317	1	UC27 Generator
3			*Key, Exciter Rotor	23			Screw, Cap – Hex Head
			UC22 Generator No.		800-3017-41	6	UC22 Generator (M10 x 45mm)
	515-0298-02	1	3096-03, 3096-04, 3096-08, and 3096-09				UC27
			UC27 Generator No.		800-3017-42	5	M10 x 50mm
	515-0298-02	1	3097-02, 3097-04 and 3097-07		800-3017-44	1	M10 x 60mm (12 O'clock Position)
	515-0298-03	1	3097-03 and 3097-09	24	850-0114-55	6	Washer, Lock – Spring (M10)
4			*Rotor Assembly, Exciter	25			Disc, Generator Drive
			(Includes Parts Marked ♦)		232-3699	2	UC22 Generator
			UC22 Generator No.		232-3699	3	UC27 Generator
	201-3434-02	1	3096-03, 3096-04, 3096-08, and 3096-09	26	720-1119	8	Screw, Cap – Hex Head (M16 x 40mm)
			UC27 Generator No.	27	526-0259	8	Washer, Flat (5/8")
	201-3434-02	1	3097-02, 3097-04 and 3097-07	28			Adapter, Generator Stator
	201-3434-03	1	3097-03 and 3097-09		231-0318	1	UC22 Generator
					231-0319	1	UC27 Generator
5			*♦Rectifier Assembly (Includes Parts Marked #)	29			Cover, Stator – Top
	357-0091	1	Forward (With Positive Diode)		234-0936-02	1	UC22 Generator No. 3096-03, 3096-04, 3096-08, and 3096-09
	357-0092	1	Reverse (With Negative Diode)				UC27 Generator No.
					234-0937-01	1	3097-02, 3097-04 and 3097-07
6			*♦#Diode		234-0937-02	1	3097-03 and 3097-09
	358-0135-01	3	Positive				
	358-0135-02	3	Negative				
7	800-3009	3	*##Screw, Cap – Hex Head (M4 x 35mm) (CR1,2,3,4,5,6)				
8	860-2005	3	*♦#Nut, Hex (M4)				
9	850-2004	3	*♦#Washer, Lock – Spring (M4)				

* Parts Included in Generator Rotor Assemblies

Parts Included in Rectifier Assemblies

♦ Parts Included in Exciter Rotor Assemblies

Generator



Generator

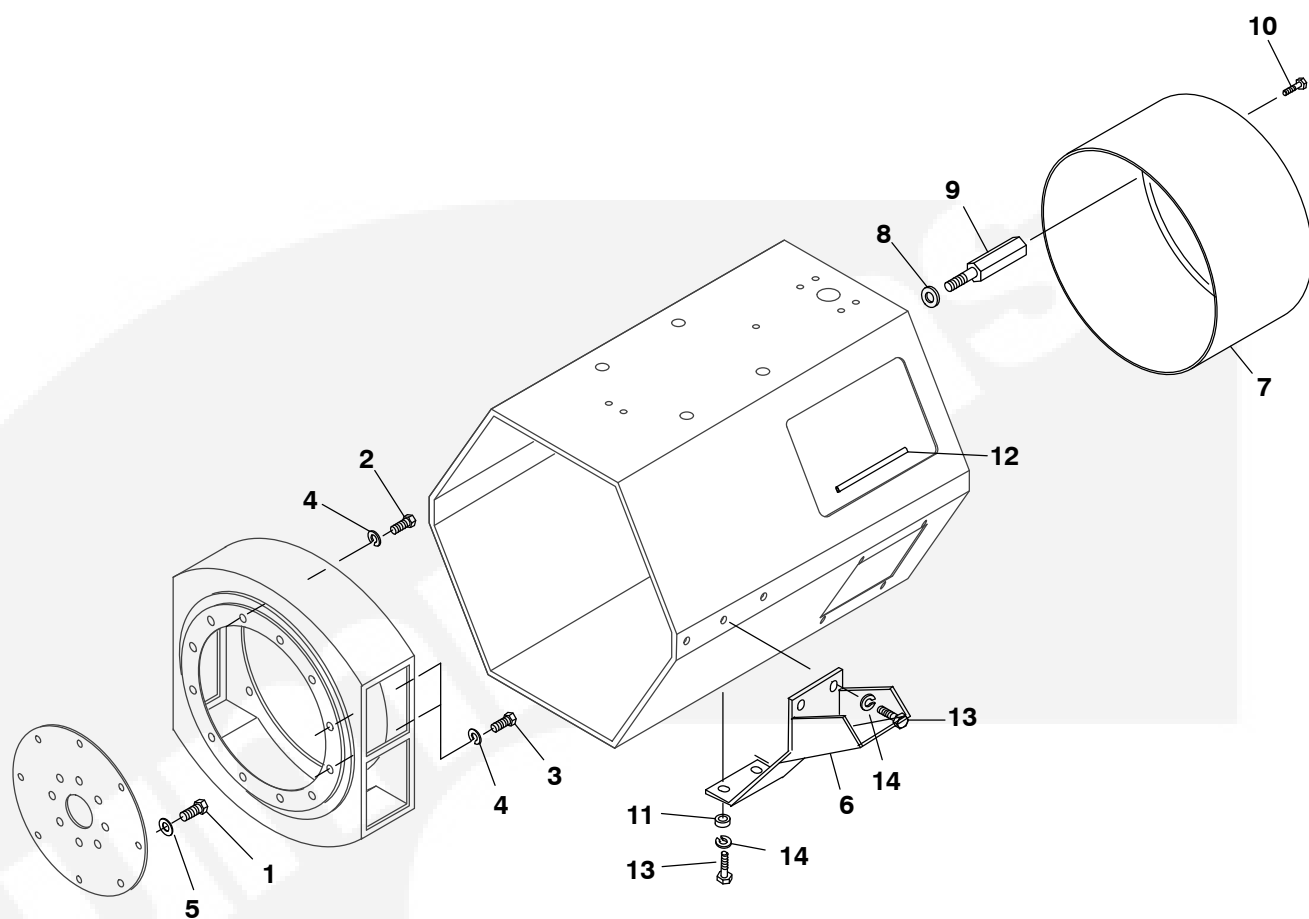
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
30			Cover, Stator – Bottom				Washer Head (See Page 66)
			UC22 Generator No.	43			Bell, End
	232-3819-02	1	3096-03, 3096-04,	211-0422	1		UC22 Generator
			3096-08, and 3096-09	211-0423	1		UC27 Generator
	232-3819-03	1	300mm Stack Length	44			Washer, Lock – Spring
			UC27 Generator No.	850-0114-54	6		M8 (UC22 Generator)
	232-3820-01	1	3097-02, 3097-04	850-0114-55	6		M10 (UC27 Generator)
			and 3097-07	45			Screw, Cap – Hex Head
	232-3820-02	1	3097-03 and 3097-09	800-3017-20	6		M8 x 25mm, UC22
31			Screw, Cap – Hex Head				Generator)
			M10 x 25mm	800-3017-38	6		M10 x 30mm UC27
			UC22 Generator No.				Generator)
	800-3017-37	10	3096-03, 3096-04,	46	850-2006	4	Washer, Lock – Spring (M6)
			3096-08, and 3096-09	47			Screw, Cap – Hex Head (M6)
			UC27 Generator				UC22 Generator No.
	800-3017-54	10	M12 x 30mm	800-2042	4		3096-03, 3096-04,
32			Washer, Lock – Spring				3096-08 and 3096-09
			M10				UC27 Generator No.
			UC22 Generator	800-2042	4		3097-02, 3097-04
	850-0114-55	10	3096-03, 3096-04,				and 3097-07
			3096-08, and 3096-09	800-2046	4		3097-03 and 3097-09
			UC27 Generator	48			Stator, Exciter
	850-0114-54	10	M12				UC22 Generator No.
33			Washer, Flat M10	220-4293-08	1		3096-03, 3096-04,
			UC22 Generator				3096-08, and 3096-08
	526-0399-62	10	3096-03, 3096-04,				and 3096-09
			3096-08, and 3096-09				UC27 Generator No.
			UC27 Generator	220-4293-08	1		3097-02, 3097-04
	526-0399-64	10	M12				and 3097-07
34	508-1057	1	Grommet	220-4293-09	1		3097-03 and 3097-09
35	517-0135	1	Plug, Hole	49			Bracket, Generator Mounting
36			Washer, Flat	232-3452	2		UC22 Generator
			UC22 Generator	232-3454	2		UC27 Generator
	232-3441	12	M8	50			Screw, Cap – Hex head
			UC27 Generator	800-3017-38	8		M10 UC22 Generator
	526-0077	12	M10	800-3017-55	8		M12 UC27 Generator
37			Screw, Cap – Hex Head	51			Washer, Lock – Spring
			UC22 Generator	850-0114-55	8		M10 UC22 Generator
	800-3017-20	6	M8 x 25mm	850-0114-56	8		M12 UC27 Generator
			UC27 Generator	52			Washer, Flat
	800-3017-38	6	M10 x 30mm	526-0399-62	4		M10 UC22 Generator
38			Washer, Lock – Spring	526-0399-64	4		M12 UC27 Generator
			UC22 Generator	53			Spacer, Mounting Foot
	850-0114-54	6	M8	232-3730-03	4		UC22 Generator
			UC27 Generator	232-3730-04	4		UC27 Generator
	850-0114-55	6	M10				
39	–	2	Guard, Fan – Generator				
			(See Page 66)				
40	–	2	Screen, Air Inlet (See Page 66)				
41	–	8	Screw, Self-Locking – Hex				
			Washer Head (See Page 66)				
42	–	8	Screw, Self-Locking – Hex				

* Parts Included in Generator Rotor Assemblies

◆ Parts Included in Exciter Rotor Assemblies

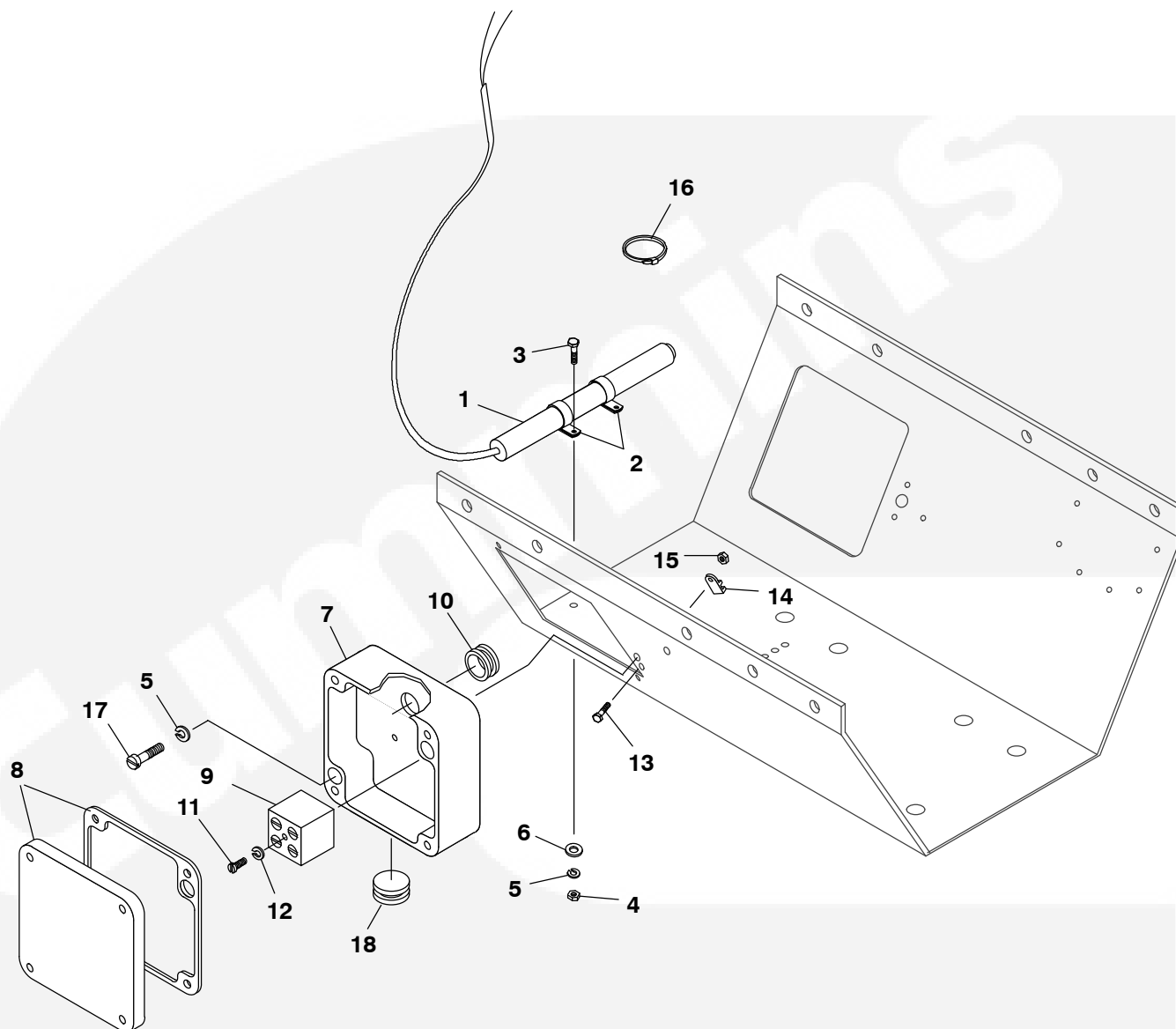
Parts Included in Rectifier Assemblies.

Generator Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	805-0018	8	Bolt, Place (3/8-16 x 1")	8	526-2080	8	Washer, Flat (M6)
2			Screw, Cap - Hex Head	9	232-3462-01	4	Spacer, Cover
	800-2088	8	M10 x 35mm - UC22 Generator	10	821-2020	4	Screw, Lock (M5 x 10mm)
	800-2088	12	M10 x 35mm - UC27 Generator	11			Spacer, Mounting Foot
					232-3730-03	4	UC22 Generator
					232-3730-04	4	UC27 Generator
3	800-2090	4	Screw, Cap - Hex Head (M10 x 45mm) (UC22 Generator)	12	508-0305-02	-	Edging - Bulk (Order by the Foot - 5 Feet Required)
4	850-2010	12	Washer, Lock - Spring (M10)	13			Screw, Cap - Hex Head
5	526-0174	8	Washer, Flat (3/8")		800-2088	8	M10 x 35mm - UC22
6			Bracket, Generator Mounting		800-2113	8	M12 x 30mm - UC27
	403-5256-02	2	UC22 Generator	14			Washer, Lock - Split
	403-5255-02	2	UC27 Generator		850-2010	8	M10 - UC22 Generator
7	234-0875-01	1	Cover, End Bell		850-2012	8	M12 - UC27 Generator

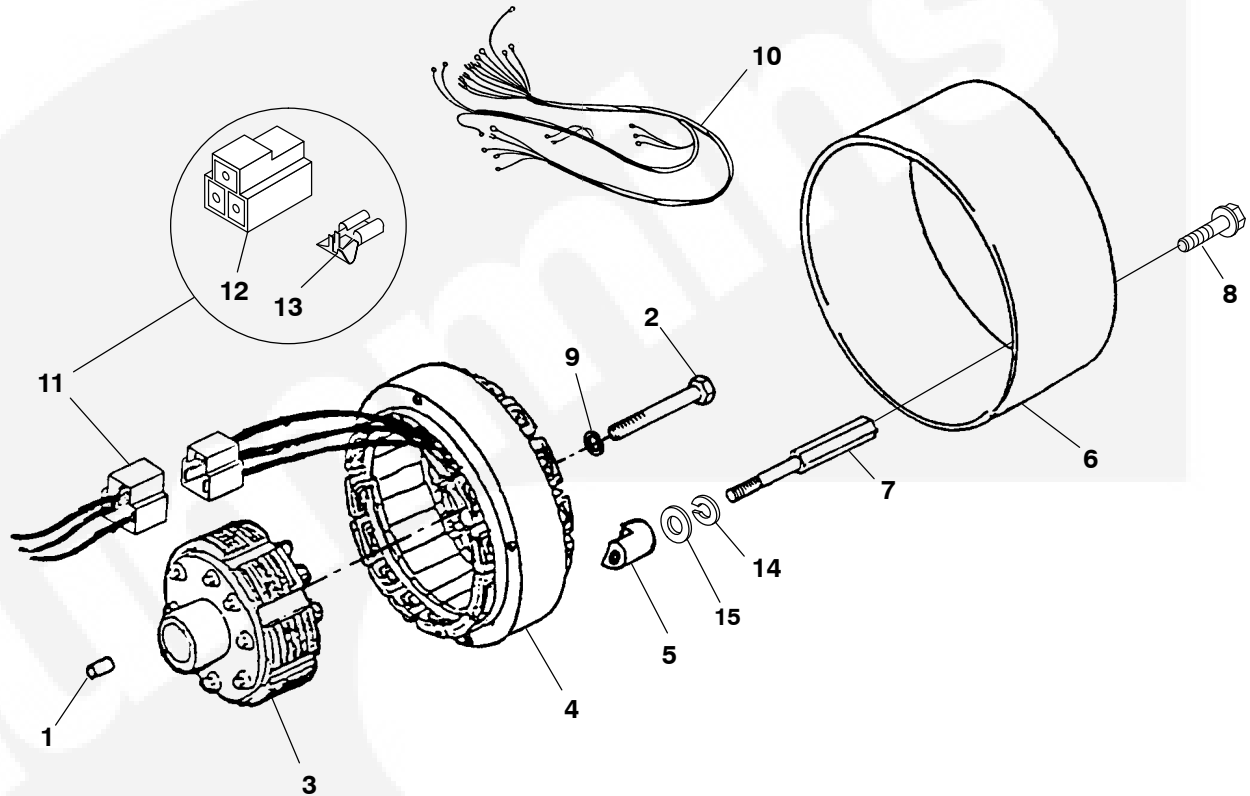
Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	333-0445	1	Kit, Heater (110-125V)	9	332-3023	1	*Block, Terminal
	333-0446	1	Kit, Heater (220-260V)	10	508-0228	1	*Grommet
1			Cartridge, Heater	11	822-3047	1	*Screw, Pan Head (M3 x 20)
	333-0438-07	1	* 110-125 Volts	12	850-2003	1	*Washer, Lock (M3)
	333-0438-08	1	220-260 Volts	13	800-3034	1	*Screw, Cap - Hex Head (M4 x 12mm)
2	332-3024-11	2	*Clamp, Loop	14	332-3228	1	*Mount, Cable Tie
3	822-3075	6	*Screw, Pan Head (M4 x 16)	15	870-2064-01	1	*Nut, Nylon
4	860-2005	2	*Nut, Hex - Steel Machine (M4)	16	332-1389	1	*Tie, Cable
5	850-2004	4	*Washer, Lock - Spring (M4)	17	815-0792-04	2	*Screw, Pan - Crescent Head (M4 x 12mm)
6	526-2050	2	*Washer, Flat (M4)	18	517-0021	1	*Plug, Dot Button
7	330-0142	1	*Box, Terminal - Heater (Includes Cover and Gasket [Ref. No. 8])	19	98-7281	1	*Label, Heater Warning
8	330-0141-01	1	Box Assembly				

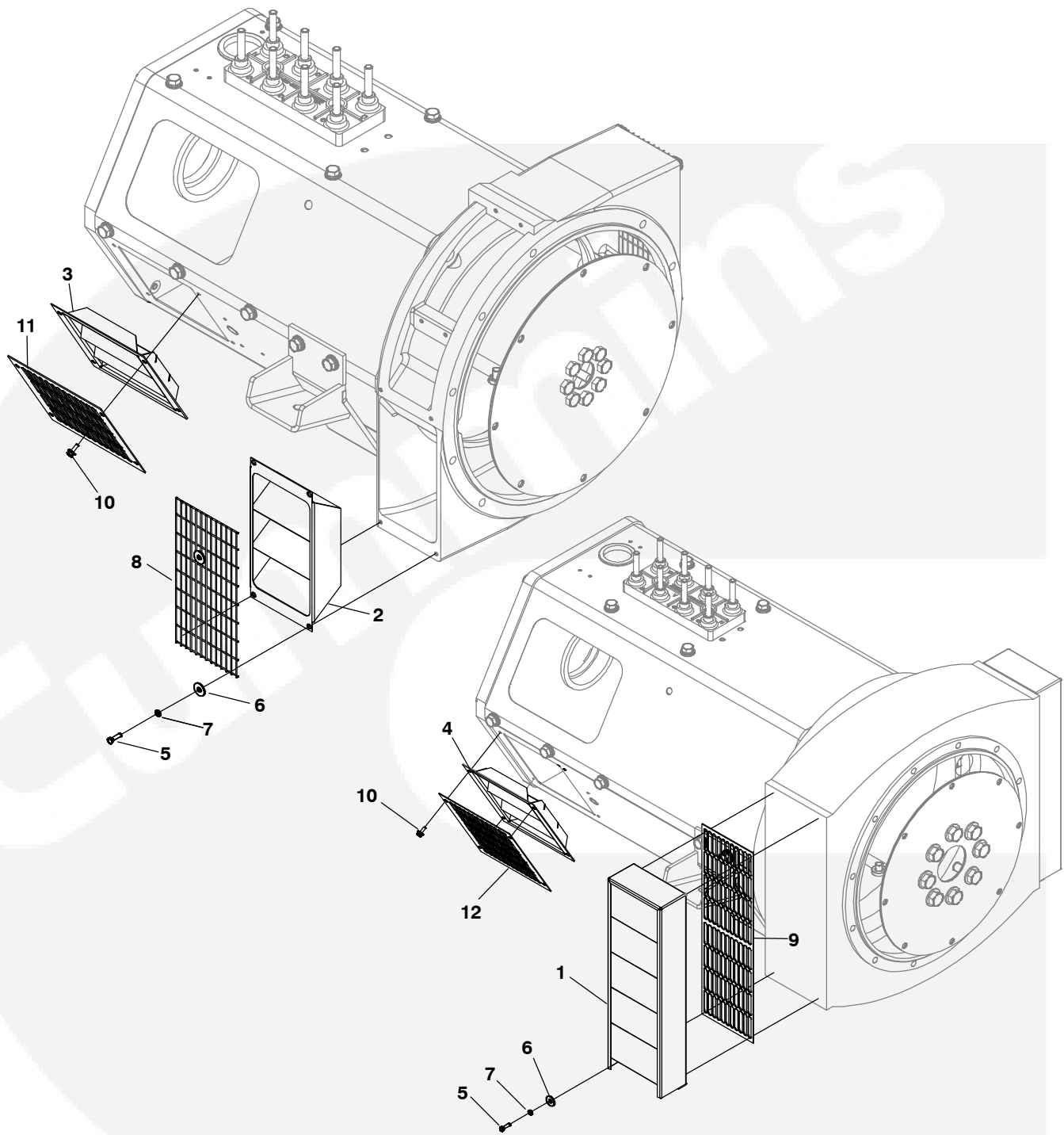
* - All parts included in Kit unless noted.

Permanent Magnet Exciter



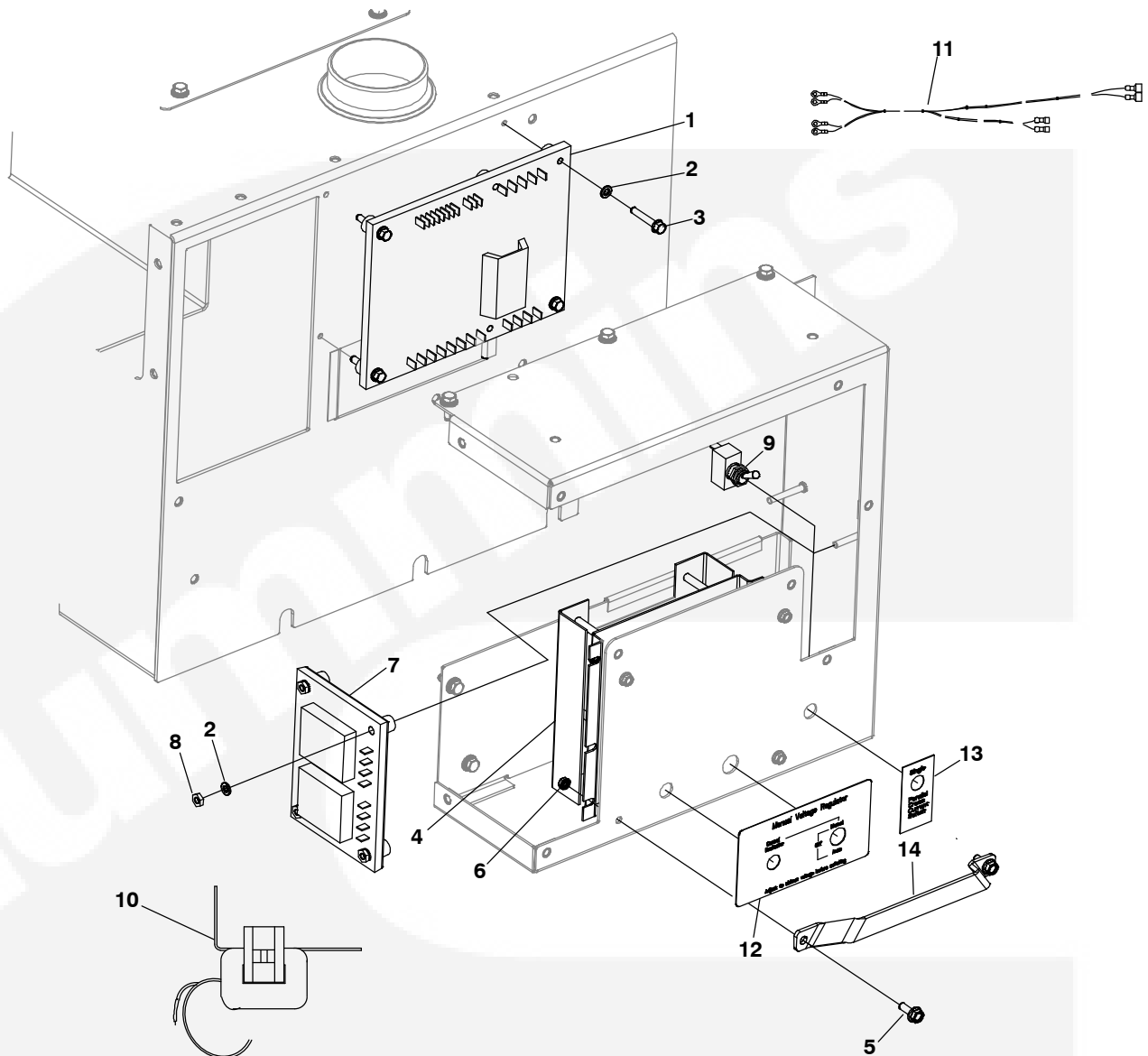
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4676	1	Kit, Regulator-PMG (Includes Parts Marked*)	10	338-3149	1	*Harness, Wiring (AUX-P2, P3, P4 to VR21-P2, P3, P4) (40" Long, 3 Wires)
1	775-0049	1	*Pin, Dowel	11	338-3265	1	*Harness, Wiring (P2, P3, P4 to P2, P3, P4) (30" Long, 3 Wires) (Includes Terminal Housing and Receptacle Terminal [Ref. No. 12 and 13])
2	815-0761-01	1	*Bolt, Hex Head (M10 x 90mm)	12	332-3021	1	Housing, Terminal
3	201-3446	1	*Rotor	13	332-3124	3	Terminal, Receptacle
4	220-4233	1	*Stator	14	850-2006	4	*Washer, Lock - Spring (M6)
5	232-3972	4	Clamp	15	526-2080	4	Washer, Flat
6	234-0875-02	1	*Cover, End Bell				
7	232-3462-02	4	*Spacer				
8	821-6001-01	4	Screw, Self-Locking - Hex Washer Head (M5 x 10mm)				
9	850-2010	1	Washer, Lock - Spring (M10)				

Louver



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	234-1036-01	2	Louver (Exhaust) UC27 Generator	6	526-0021	8	Washer, Plain (1/4")
2	234-1036-02	2	Louver (Exhaust) UCD22 Generator	7	850-2005	8	Washer Locking Split (M5)
3	234-1037-02	2	Louver (Inlet) UCD22 Generator	8	234-0863	2	Guard Fan (UCD22)
4	234-1037-01	2	Louver (Inlet) UC27 Generator	9	234-0867	2	Guard Fan (UC27)
5	800-2008	8	Screw, Cap - Hex Head (M5 x .8 x 16mm)	10	821-6001-02	8	Screw, Self Locking Hex Washer Head (M5 x 12mm)
				11	234-0878	8	Screen , Air Inlet (UCD22)
				12	234-0879	8	Screen , Air Inlet (UC27)

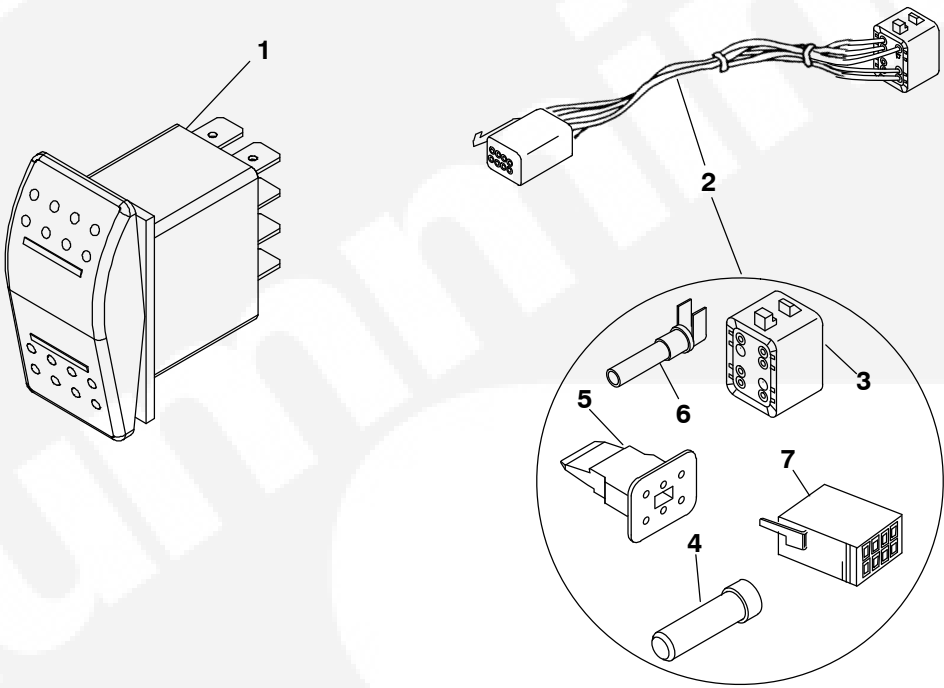
Automatic Voltage Regulator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1155	1	Kit, Control (Manual Voltage Regulator)	9	308-0069	1	Switch, Toggle CT Optional
1	305-0823	1	Regulator, Voltage -Auto Standard w / PMG	10	302-1852-05	1	Current, Transformer UCD22
2	526-2060	7	Washer, Flat (M5) Standard w / PMG		302-1852-06	1	UC27
3	815-0793-07	4	Screw, Hex Flange Standard w / PMG	11	338-4489	1	Harness, Regulator Standard w/ PMG
4	305-0817	1	*Regulator, Voltage -Manual MVR Optional		338-4488	1	* MVR Optional Transformer
5	821-0005	4	*Screw, Locking (10-32 x 1/2") MVR Optional	12	98-8290	1	*Label (MVR)
6	870-0131	4	*Nut, Sems EIT (#10-32) MVR Optional	13	98-2313	1	Label, Cross Current (UCD22 and UC27)
7	305-0868	1	Transformer, PCB ISLN Standard w / PMG	14	319-5498-03	1	*Guard, Electrical Switch
8	870-0427	3	Nut, Hex (#10-32) Standard w / PMG	* - Parts included in Control Kit.			

* – Parts included in Control Kit.

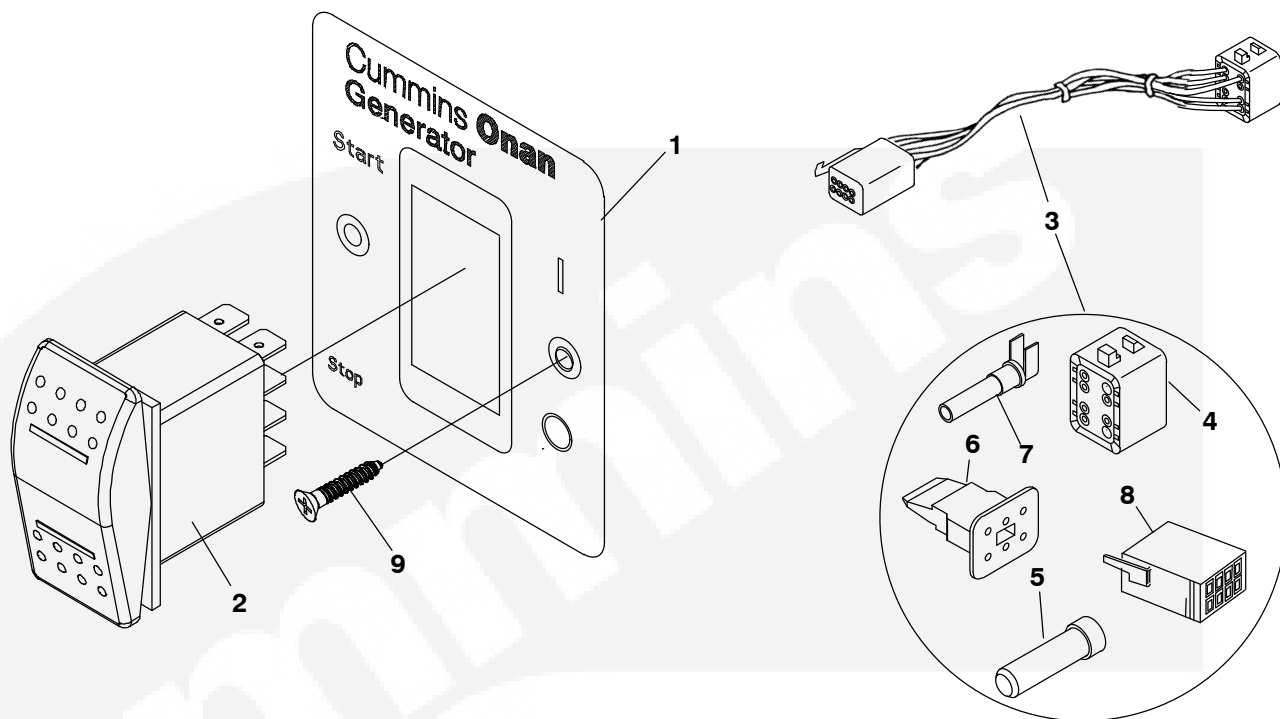
Remote Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1131-01	1	Kit, Remote Panel (12)
	541-1131-02	1	Kit, Remote Panel (24V)
1	98-8284	1	Label, Instruction
2			Switch, Rocker
	308-1101	1	12V
	308-1102	1	24V
3	338-3988	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Plugs, Wedge and Pin)

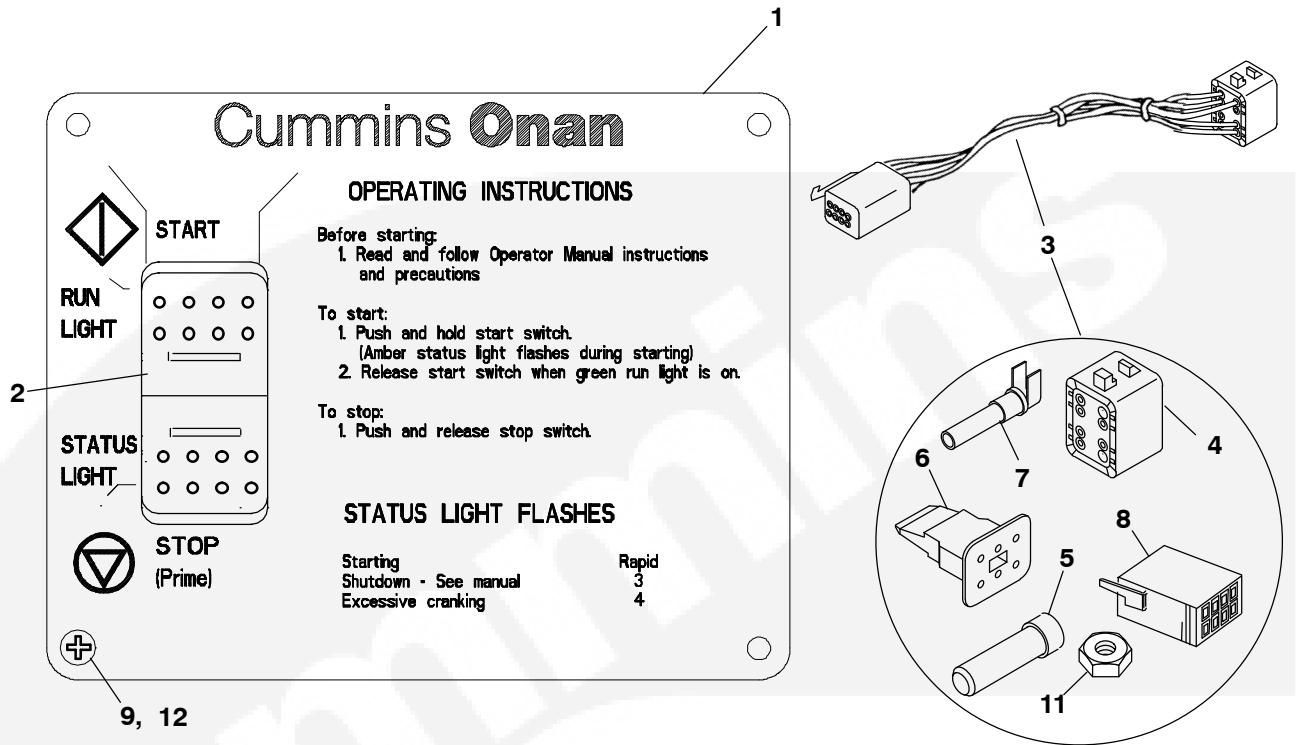
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	323-1541	1	Plug (8 Pin) (J4)
5	323-1591	3	Plug, Connector
6	323-1543	1	Wedge, Plug (8 Pin)
7	323-1492	6	Pin, Contact
8	308-1019	1	Connector, Switch

Remote Control Panel



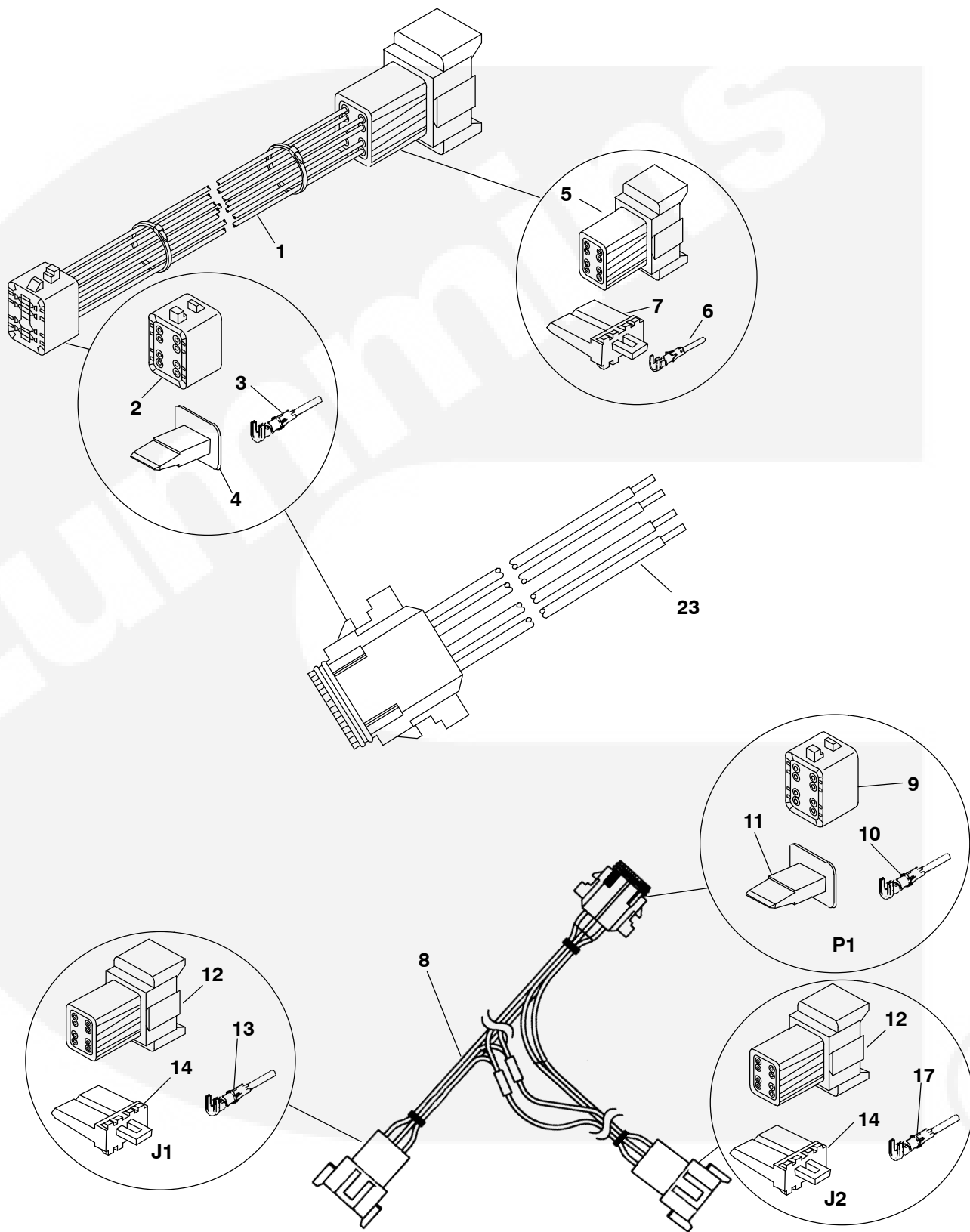
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-5899-01	1	Kit, Remote Panel (12V)	4	323-1541	1	Plug (8 Pin) (J4)
	300-5899-02	1	Kit, Remote Panel (24V)	5	323-1591	3	Plug, Connector
1	319-6987-01	1	Panel, Remote (Includes Label)	6	323-1543	1	Wedge, Plug (8 Pin)
2			Switch, Rocker	7	323-1492	6	Pin, Contact
	308-1101	1	12V	8	308-1019	1	Connector, Switch
	308-1102	1	24V	9	815-0910	2	Screw, Wood (#6 x 1)
3	338-3988	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Plugs, Wedge and Pin)				

Remote Control Panel

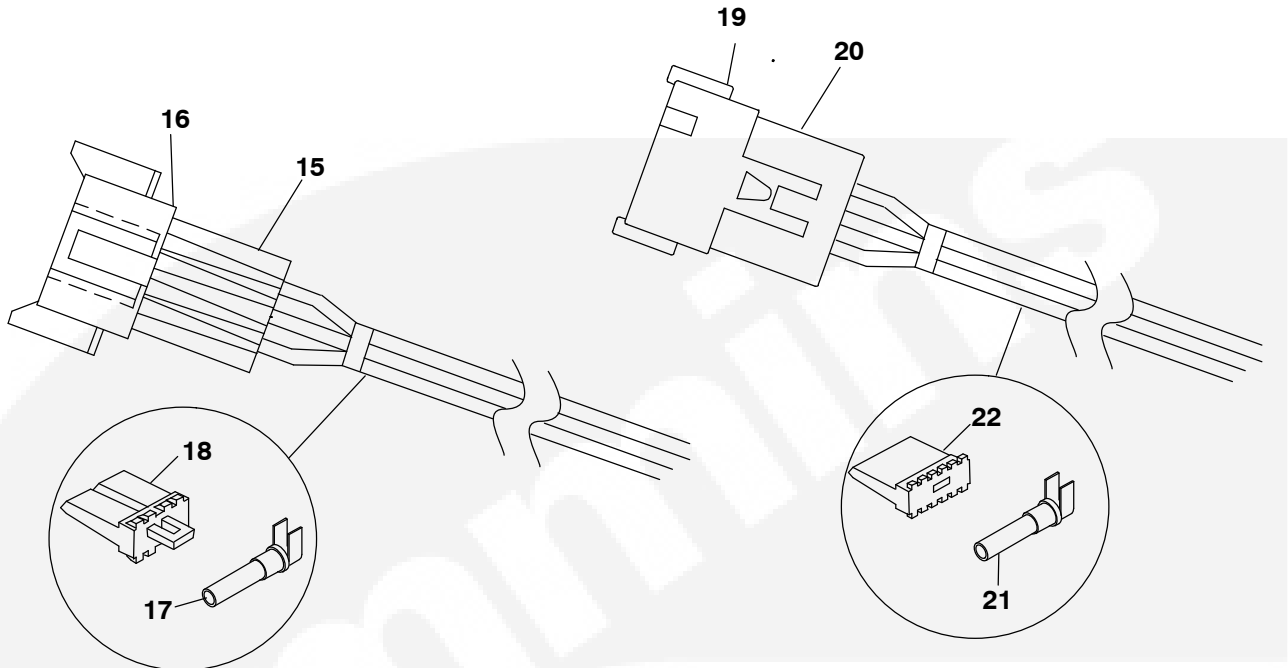


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	541-1129-01	1	Kit, Remote Panel (12V)	5	323-1541	1	Plug (8 Pin) (J4)
	541-1129-02	1	Kit, Remote Panel (24V)	6	323-1591	3	Plug, Connector
1	319-5426-02	1	Panel, Remote (Includes Label)	7	323-1543	1	Wedge, Plug (8 Pin)
2	98-8254	1	Label, Information	8	323-1492	6	Pin, Contact
3			Switch, Rocker	9	308-1019	1	Connector, Switch
	308-1101	1	12V	10	814-2152-01	4	Screw, Flat Head Xrec (6-20 x .75")
	308-1102	1	24V	11	860-2028	4	Nut, Hex (6-32 Low Prof Lock)
4	338-3988	1	Harness, Remote Panel (Reaches From Extension Harness to Remote Panel) (Includes Plugs, Wedge and Pin)	12	815-0845	4	Screw, Pan Head Xrec

Wiring Harnesses



Wiring Harnesses



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
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	338-4016	1	Harness, Junction (Includes Parts Marked +)
9	323-1541	1	± Plug, Connector (8 Pin)
10	323-1492	AR	± Terminal, Socket
11	323-1543	1	± Wedge, Plug (8 Pin)
12	323-1542	2	+ Connector, Receptacle (8 Pin)
13	323-1491	AR	+ Terminal, Pin
14	323-1544	2	+ Wedge, Lock, Receptacle (8 Pin)

REF NO.	PART NO.	QTY. USED	PART DESCRIPTION
15	338-4017	1	Harness, Pigtail (Includes Parts Marked @)
16	323-1542	1	@ Connector, Receptacle (8 Pin)
17	323-1491	AR	@ Terminal, Pin
18	323-1544	2	@ Wedge, Lock (8 Pin)
19	338-4500	1	Harness, Interface (Includes Parts Marked ~)
20	323-1580	1	~ Connector, Receptacle (8 Pin)
21	323-1491	AR	~ Terminal, Pin
22	323-1581	2	~ Wedge, Lock (8 Pin)
23	338-4223	1	Harness, Remote Panel (Includes Parts Marked %)

- Parts Included in Remote Extension Harness.

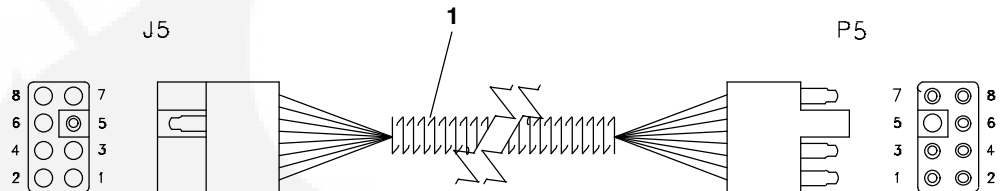
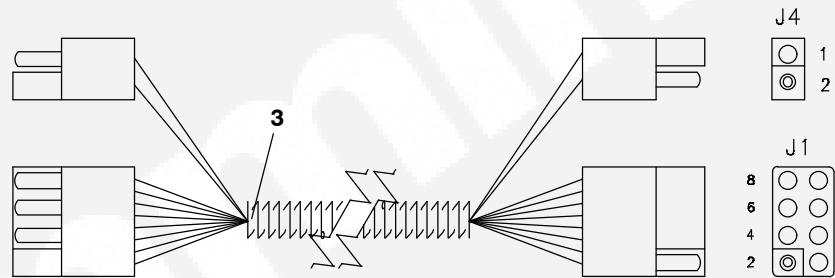
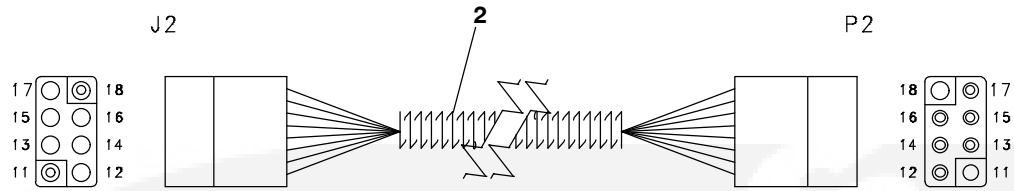
.+ - Parts Included in Junction Harness.

.@ - Parts Included in Pigtail Harness.

.~ - Parts Included in Interface Harness.

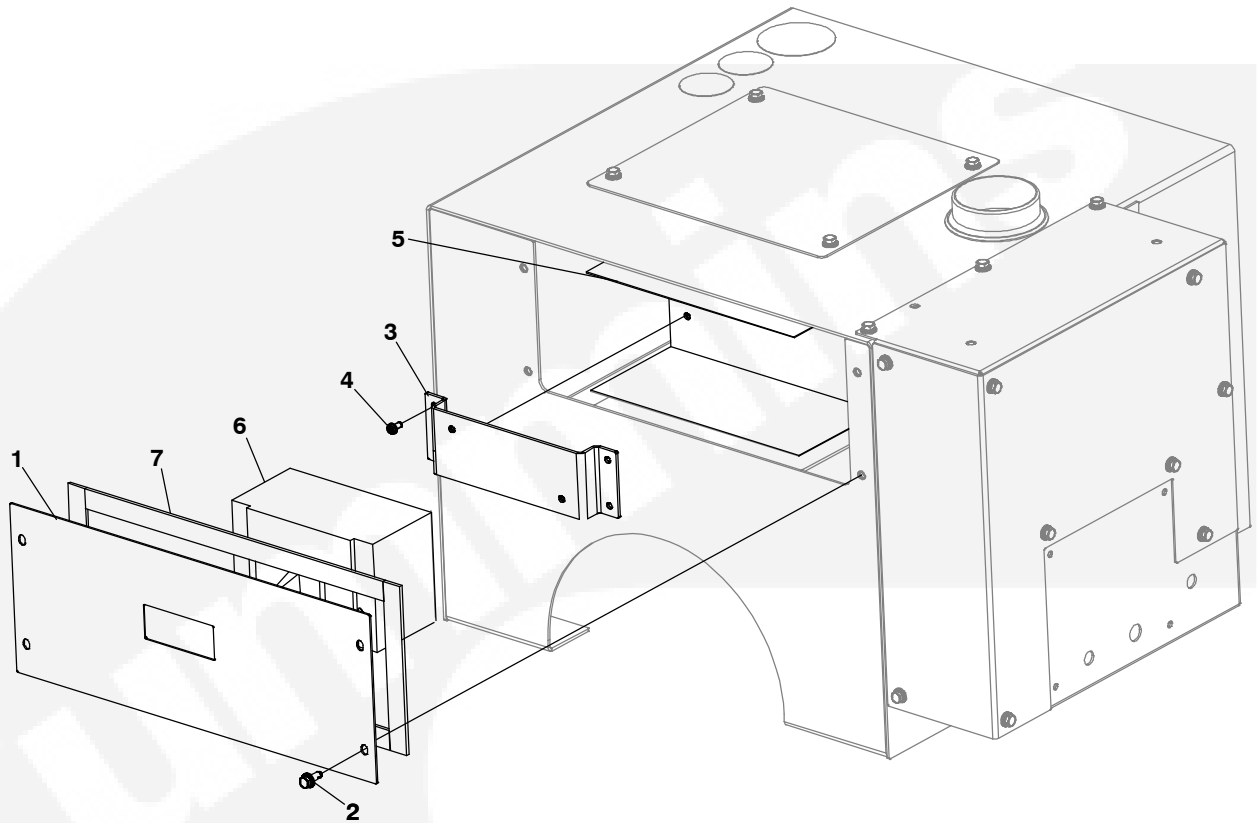
.% - Parts Included in Remote Panel Harness.

Extension Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2694	1	Harness, Extension AC	3	338-2599	1	Harness, Extension (Standard)
2	338-2597	1	Harness, Extension (Optional)				

Circuit Breaker



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cover, Circuit Breaker	3	319-5432-02	1	Bracket, Circuit Breaker (NSF)
	319-5309-07	1	No Breaker	4	819-1154	4	Screw, Pan Head Xrec (M5 x .8 x 10mm)
	319-5309-08	1	NSF Breaker	5	877-0363	2	Sheet, Insulation (Breaker)
	319-5309-09	1	NSJ Breaker	6	-		Circuit, Breaker (See Breaker Page)
	A034N507	1	(Spec C, MDDCA-K) (Spec A, MDDCL-R)	7	405-8549	1	Gasket, Door (3.3')
2			Screw, Hex Head Sems				
	821-6006-01	4	Stainless (M6 x 1.0 x 16mm)				
	A030B088	4	(Spec C, MDDCA-K) (Spec A, MDDCL-R)				

Circuit Breaker

3 POLE – 600/750 VOLT

AMPS	MDDCA, MDDCL	MDDCB, MDDCM	MDDCC, MDDCN	MDDCD, MDDCP	MDDCE, MDDCR	MDDCF
80	320-2346-09					320-2346-09
90	320-2346-08					320-2346-08
100		320-2346-07				320-2346-07
125		320-2346-06	320-2346-06			
150	320-2346-05		320-2346-05	320-2346-05		320-2346-05
175	320-2347-04			320-2347-04		320-2347-04
200		320-2347-03			320-2347-03	320-2347-03
225	320-2347-02	320-2347-02			320-2347-02	320-2347-02
250		320-2347-01	320-1959-01			

3 POLE – 600/750 VOLT

AMPS	MDDCG	MDDCH	MDDCJ	MDDCK		
70				320-2346-10		
80				320-2346-09		
90				320-2346-08		
100	320-2346-07					
125	320-2346-06					
150		320-2346-05		320-2346-05		
175		320-2347-04	320-2347-04			
200	320-2347-03		320-2347-03			
225	320-2347-02					
250	320-2347-01					

3 POLE – 600/690 VOLT NSJ

AMPS	MDDCA, MDDCL	MDDCB, MDDCM	MDDCC, MDDCN	MDDCD, MDDCP	MDDCE, MDDCR	MDDCF
600						
500					320-1960-02	
450						
400				320-1960-04	320-1960-04	
350					320-1960-05	
300			320-1960-06	320-1960-06		
250		320-1960-11	320-1960-11			

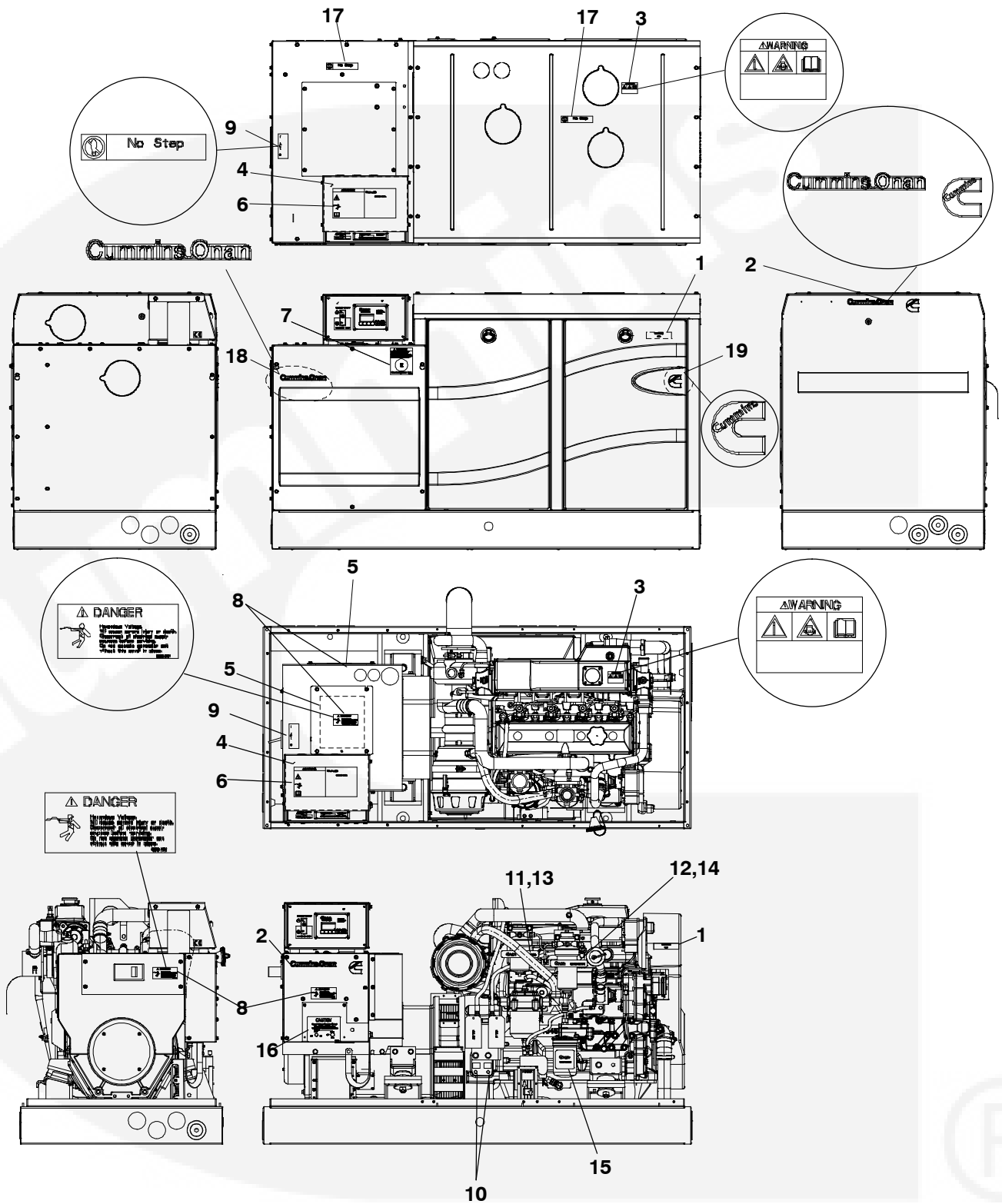
3 POLE – 600/690 VOLT NSJ

AMPS	MDDCG	MDDCH	MDDCJ			
600						
500						

3 POLE – 600/690 VOLT NSJ

AMPS	MDDCG	MDDCH	MDDCJ			
450						
400			320-1960-04			
350		320-1960-05	320-1960-05			
300		320-1960-06	320-1960-06			
250	320-1960-11	320-1960-11				

Labels



Labels and Kits

1	98-6995	1	Label, Warning				6 Cylinder)
2	98-8717	1	Label, Logo (Cummins Onan C)	13	98-8303	1	Label, Information (Filter
3			Label, Warning				4 Cylinder)
	98-7871	1	No Sound Shield	14	98-8304	1	Label, Information (Filter
	98-7871	2	Sound Shield				4 Cylinder)
4	98-8255	1	Label, Control (DC)	15	98-8307	1	Label, Information (Filter)
5	98-8269	2	Label, Information	16	98-8290	1	Label, Caution
6	98-8278	1	Label, Warning	17	98-8298	1	Label, Information (No Step
7	98-7472	1	Label, Warning (Sound Shield)				Sound Shield)
8	98-8291	4	Label, Danger	18	98-8714	1	Label, Logo (Sound Shield)
9			Label, Information (AC)				(Cummins Onan)
	98-8297	1	No Sound Shield	19	98-8715	1	Label, Logo (Sound Shield)
	98-8297	2	Sound Shield				(Cummins C)
10	98-8075	2	Label, Instruction (Ground)	20			Kit, Service
11	98-8305	1	Label, Information (Filter		541-1529-01	1	(MDDCA, B, C, F, G, K, L, M, N)
			6 Cylinder)		541-1529-02	1	(MDDCD, E, H, J, P, R)
12	98-8306	1	Label, Information (Filter				

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