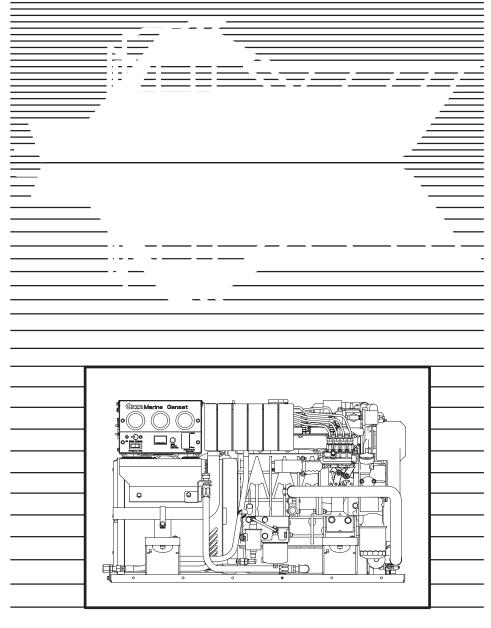


Marine

GenSet Parts Manual

MDKAD MDKAE



MODEL IDENTIFICATION

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

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

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION AND DATE (IF APPLICABLE) SAFETY PRECAUTIONS

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

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

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

death.

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

MODEL	HERTZ
MDKAD/*	50/60
MDKAE/*	50/60

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

WIRING DIAGRAM

612–6667	DC 24V
612–6665	DC 12V
612–6666	AC 1 Phase
612–6673	AC 3Phase

Adapter, Dry Exhaust, 53 Adapter, Engine, 11 Adapter, Fuel Line Pipe, 33 Adapter, Fuel Return Pipe, 34 Adapter, Keel Cooling, 41 Adapter, Oil Drain, 48 Adapter, PTO, 49 Adapter, Vacuum Relief Pipe, 37 Alternator (Isolated Ground), 31 Alternator (Negative Ground), 28 Arm Assy, Rocker, 22 Armature, Starter, 12, 13 Baffle Assy, Generator, 59 Baffle, Air, 63 Ball, Crankshaft, 8 Ball, Valve Seat, 26 Bar, Bus, 46 Barb, Keel Cooling, 41, 43 Base, Housing, 59 Base, Mounting, 56 Bearing, Alternator, 29, 30 Bearing, Connecting Rod, 10 Bearing, Coolant Water Pump, 27 Bearing, Crankshaft, 8 Bearing, Fuel Camshaft, 15 Bearing, Generator, 63 Bearing, Governor, 17 Bearing, Governor Weight, 15 Bearing, Starter, 12, 13 Belt, Alternator, 28, 31 Block, Cylinder, 7 Block, Terminal, 69 Box, Control, 65 Bracket, Alternator, 28, 31 Bracket, Belt Guard, 57 Bracket, Control Mounting, 70 Bracket, Fuel Pump, 33 Bracket, Heat Exchanger, 39 Bracket, Lifting, 7 Bracket, PTO, 49 Bracket, Remote Separator Mounting, 35 Bracket, Resistor, 33 Bracket, Rocker Arm, 22 Bracket, Solenoid Relay, 50 Bracket, Starter, 12, 13 Bracket, Stop Solenoid, 32 Breaker Assy (With Gauges), 67 Breaker, Circuit (2A), 67 Breaker, Circuit (CB1, CB4) (With Gauges), 67 Breaker, Circuit (CB2), 65 Breaker, Circuit (CB3), 65 Breather, 25 Brush, Alternator, 29, 30 Bushing, Connecting Rod, 10 Bushing, Control Box Strain Relief, 65 Bushing, Dry Exhaust Reducer, 53 Bushing, Governor, 15

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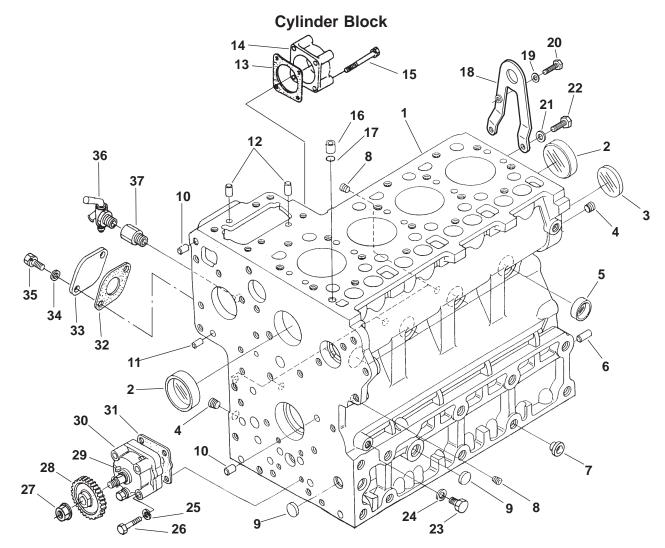
Support Assy, Roof, Support, Control Bracket, Support, Fuel Return, Switch, Dual Gauge, Switch, High Exhaust Temperature, Switch, High Water Temperature, Switch, Manual Transfer (On/Off Shore), Switch, Oil Pressure, Switch, Remote Panel Rocker, **74**, **75**, **76**, **77**, **78**, **79**, Switch, Rocker (With Gauges), Switch, Starter Solenoid, **12**, Swivel, Stop Solenoid Ball Joint, System, Grounding (Spec A–B), System, Grounding (Begin Spec C),

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Valve, Delivery, Valve, Exhaust, Valve, Inlet, Valve, Vacuum Relief, Voltmeter,

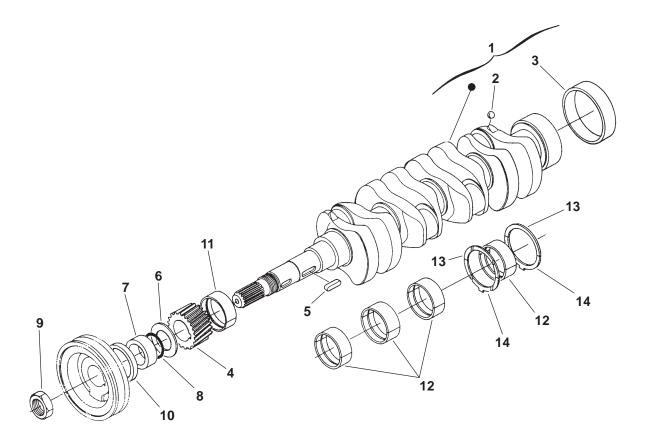
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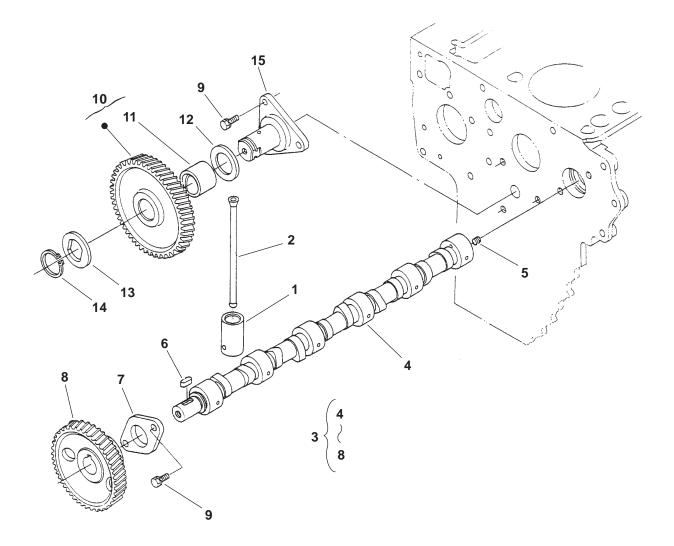
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Engine, Replacement MDKAD	20	718–1036	1	Screw, Hex Head Cap (M8 x 20 x 1.25")
	100-3243-01	1	12V	21	526-0399-64	2	Washer, Flat (M12)
	100-3243-02	1	24V MDKAE	22	800–3033	2	Screw, Hex Head Cap (M12 x 1.25 x 25mm)
	100-3153-01	1	12V	23	185–5845	1	Plug
	100-3153-02	1	24V	24	185-2338	1	Gasket
2	185–5841	2	Cap, Sealing	25	185-6759	4	Washer, Spring
3	185–5839	1	Plug	26	185–5850	4	Bolt
4	185–2234	2	Plug	27	185–5852	1	Nut, Flange
5	185–5840	6	Cap, Sealing	28	185–5851	1	Gear, Oil Pump Drive
6	185–5844	1	Pin, Straight	29	185–2352	1	Key
7	185–5837	2	Plug	30	185–5848	1	Pump, Oil
8	185–2233	6	Plug	31	185–5849	1	Gasket, Oil Pump
9	185–6121	3	Plug	32	185–2125	1	Gasket, Hole Cover
10	185–5843	2	Pin, Straight	33	185–6784	1	Cover, Hole
11	185–5842	2	Pin, Straight	34	850-2006	2	Washer, Flat
12	185–2350	2	Pin, Straight	35	800–2034	2	Bolt
13	185–6982	1	*Gasket, Cover	36	185–5846	1	Cock, Drain
14	185–6772	1	*Cover, Fuel Camshaft	37	185–5847	1	Joint, Drain Cock
15	185–5676	4	*Bolt				
16	185–2094	1	Pin, Pipe				
17	185–2095	1	O'Ring	* —			Cooling Kit Found on Keel Cooling
18	403-3916-02	1	Bracket, Lifting		Dry Exhaust F	rage).	
19	526-2100	1	Washer (M8)				

Crankshaft



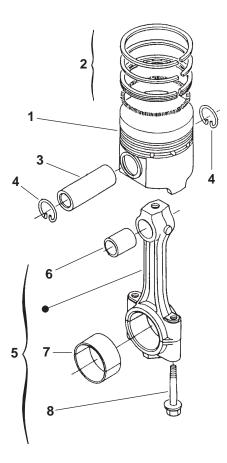
REF		QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	185–6129	1	Crankshaft (Includes Balls and	12			Bearing, Main
			Sleeve)		185–6086	4	Standard
2	185–5924	4	Ball		185–5936	4	0.2 mm Undersize
3	185–5925	1	Sleeve		185–5937	4	0.4 mm Undersize
4	185–5926	1	Gear	13			Bearing, Thrust
5	185–5905	1	Key		185–5938	2	Standard
6	185–5927	1	Slinger, Oil		185–5939	2	0.2 mm Oversize
7	185–5928	1	Collar		185–5940	2	0.4 mm Oversize
8	185–5929	1	O'Ring	14			Bearing, Thrust
9	185–5930	1	Nut		185–5941	2	Standard
10	185–5931	1	Seal, Oil		185–5942	2	0.2 mm Oversize
11			Bearing		185–5943	2	0.4 mm Oversize
	185–6085	1	Standard				
	185–5933	1	0.2 mm Undersize				
	185–5934	1	0.4 mm Undersize				

Camshaft



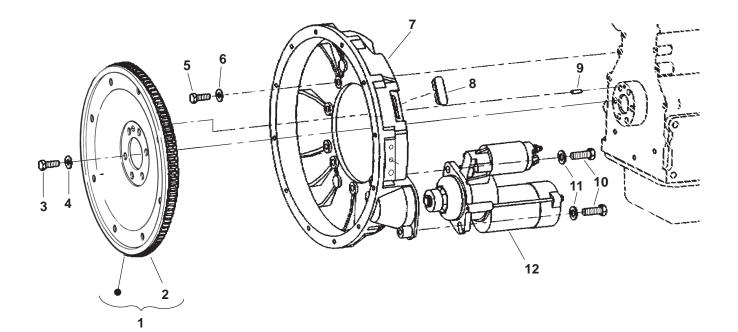
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–5900	8	Tappet	10	185–5907	1	Gear Assy, Idle (Includes
2	185–5901	8	Rod, Push				Bushing)
3	185–5902	1	Camshaft Assy (Includes Parts	11	185–5908		Bushing, Idle Gear
			Marked *)	12	185–5909	1	Collar
4	185–5903	1	*Camshaft	13	185–5910	1	Collar
5	185–5558	1	*Screw, Set	14	185–5911	1	Ring, External Retaining
6	185–5905	1	*Key	15	185–5912	1	Shaft, Idle Gear
7	185–5906	1	*Stopper, Camshaft				
8	185–5904	1	*Gear, Camshaft				
9	185–2400	5	Bolt	* – F	Parts Included	in Camsh	aft Assy

Piston



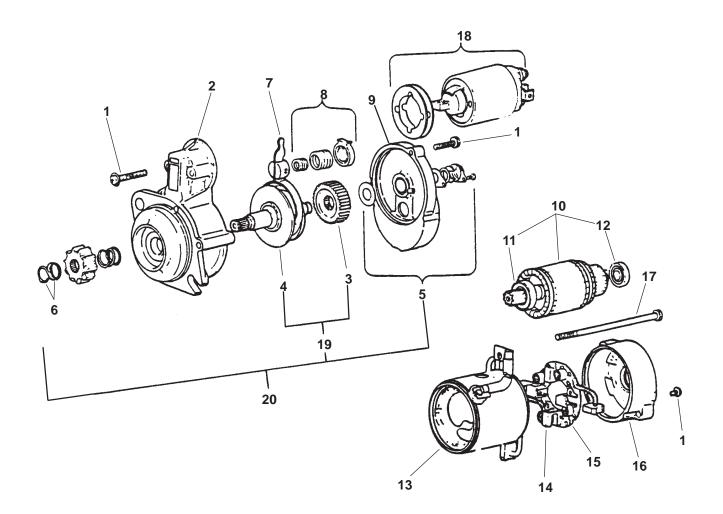
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston	3	185–5915	4	Pin, Piston
			MDKAD	4	185–5916	8	Ring, Retaining
	185–6767	4	Standard	5	185–5917	4	Rod Assy, Connecting
	185–6768	4	0.5 mm Oversize MDKAE				(Includes Bushing, Bearing and Bolts)
	185–5913	4	Standard	6	185–6209	4	Bushing
	185–6074	4	0.5 mm Oversize	7			Bearing
2			Set, Ring		185–6076	4	Standard
			MDKAD		185–5921	4	0.2 mm Undersize
	185–6769	4	Standard		185–5922	4	0.4 mm Undersize
	185–6770	4	0.5 mm Oversize MDKAE	8	185–6771	8	Bolt
	185–5914	4	Standard				
	185–6075	4	0.5 mm Oversize				

Flywheel

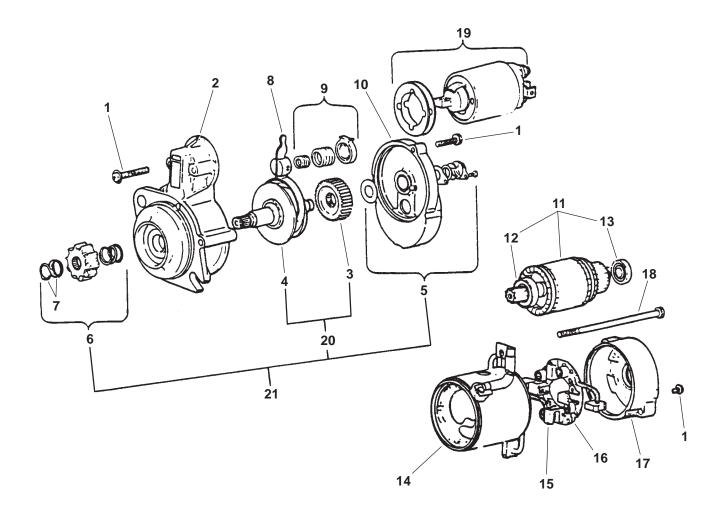


PART NO.	QTY USED	PART DESCRIPTION	RE NC
		Flywheel Assy (Includes Ring Gear)	7
104–1830	1	Spec A	
104–1929	1	Begin Spec B	8
104–1666	1	Gear, Ring	ç
800–3032	6	Screw, Hex Head Cap (M12 x 1.25 x 30mm)	10
526-0145	6	Washer, Flat (M12)	11
		Screw, Hex Head Cap (M10 x 1.25 x 30mm)	12
800-3005	7	Spec A	
800-3005	11	Begin Spec B	
		Washer, Flat (M10)	
526-0029	7	Spec A	
526-0029	11	Begin Spec B	
	NO. 104–1830 104–1929 104–1666 800–3032 526–0145 800–3005 800–3005 526–0029	NO. USED 104–1830 1 104–1929 1 104–1666 1 800–3032 6 526–0145 6 800–3005 7 800–3005 11 526–0029 7	NO. USED DESCRIPTION 104-1830 1 Spec A 104-1929 1 Begin Spec B 104-1666 1 Gear, Ring 800-3032 6 Screw, Hex Head Cap (M12 x 1.25 x 30mm) 526-0145 6 Washer, Flat (M12) Screw, Hex Head Cap (M10 x 1.25 x 30mm) 800-3005 7 Spec A 800-3005 11 Begin Spec B Washer, Flat (M10) 526-0029 7 Spec A

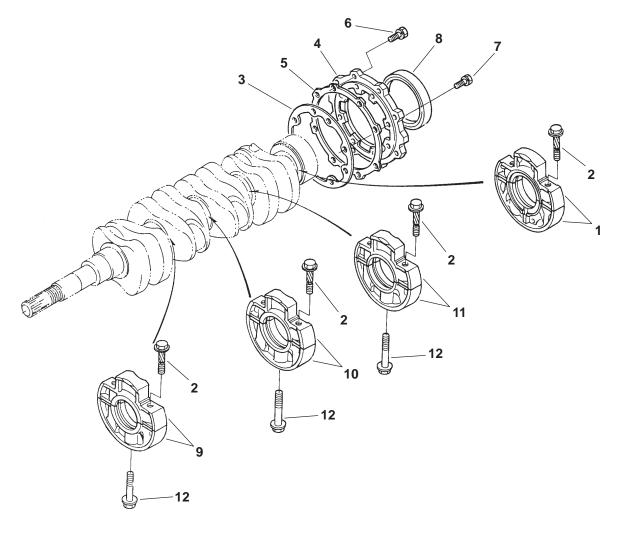
REF 10.	PART NO.	QTY USED	PART DESCRIPTION
7			Adapter, Engine
	101–0810	1	Spec A
	101–0821	1	Begin Spec B
8	101–0811	1	Plug, Hole
9	775–0061	1	Pin, Parallel Hard
10	800–2113	2	Screw, Cap – Hex Head (M12 x 1.75 x 35mm)
11	526-0399-64	2	Washer, Flat (M12)
12			Starter (See Separate Page for Components)
	191–1959	1	12V
	191–1550	1	24V
	191-1000		271



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
-	_			_	_		
	191–1959	1	Starter	11	191–1437	1	Bearing, Center
1	191–1450	4	Set, Screw	12	191–1436	1	Bearing, Rear
2	191–1449	1	Bracket Assy, Front	13	191–1992	1	Yoke Assy
3	191–1446	1	Gear	14	191–1993	1	Holder Assy, Brush
4	191–1445	1	Drive Assy	15	191–1433	1	Spring, Brush
5	191–1444	1	Cover Assy	16	191–1432	1	Bracket, Rear
6	191–1442	1	Stopper, Set	17	191–1431	1	Bolt, Set
7	191–1441	1	Lever Assy	18	191–1994	1	Switch, Solenoid
8	191–1991	1	Spring, Set	19	191–1447	1	Gear, Set
9	191–1439	1	Bracket Assy, Center	20	191–1448	1	Drive Assy
10	191–1438	1	Armature (Includes Bearings)				

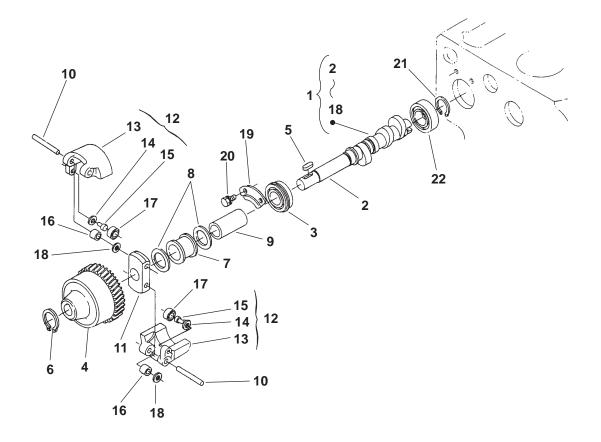


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191–1550	1	Starter	11	191–1606	1	Armature (Includes Bearings)
1	191–1450	4	Set, Screw	12	191–1437	1	Bearing, Center Sleeve
2	191–1449	1	Bracket Assy, Front (Includes	13	191–1436	1	Bearing, Rear Sleeve
			Bearing)	14	191–1607	1	Yoke Assy (Includes Pole
3	191–1446	1	Gear				Shoes, Field Coil, Positive
4	191–1445	1	Drive				Brushes)
5	191–1444	1	Cover Assy, Rear (Includes Cover Plate, Washers,	15	191–1608	1	Holder, Brush (Includes Negative Brushes)
			Screws, and Snap Ring)	16	191–1433	4	Spring, Brush
6	191–1960	1	Pinion Set (Includes Pinion,	17	191–1432	1	Bracket, Rear
			Spring & Stopper Set)	18	191–1431	1	Bolt, Set
7	191–1442	1	Stopper, Set (Includes Ring)	19	191–1609	1	Switch, Solenoid (Includes
8	191–1441	1	Lever Assy				Shims)
9	191–1440	1	Spring Set	20	191–1447	1	Gear, Set
10	191–1439	1	Bracket, Center	21	191–1448	1	Drive Assy

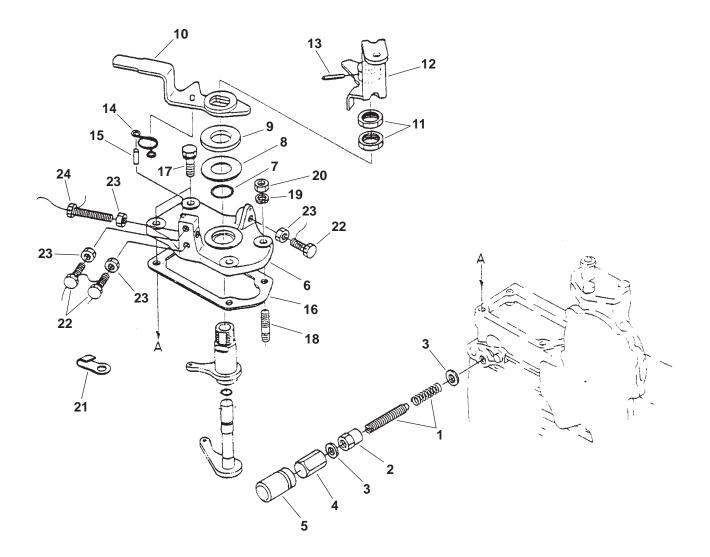


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–5889	1	Housing, Main Bearing	7	185–2404	8	Bolt
2	185–5890	8	Bolt, Bearing Housing	8	185–5895	1	Seal, Oil
3	185–6766	1	Gasket, Bearing Housing	9	185–5896	1	Housing, Main Bearing
4	185–5892	1	Cover, Bearing Housing	10	185–5897	1	Housing, Main Bearing
5	185–5893	1	Gasket, Bearing Housing Cover	11	185–5898	1	Housing, Main Bearing
6	185–2403	8	Bolt	12	185–5899	3	Bolt, Bearing Housing

Fuel Camshaft

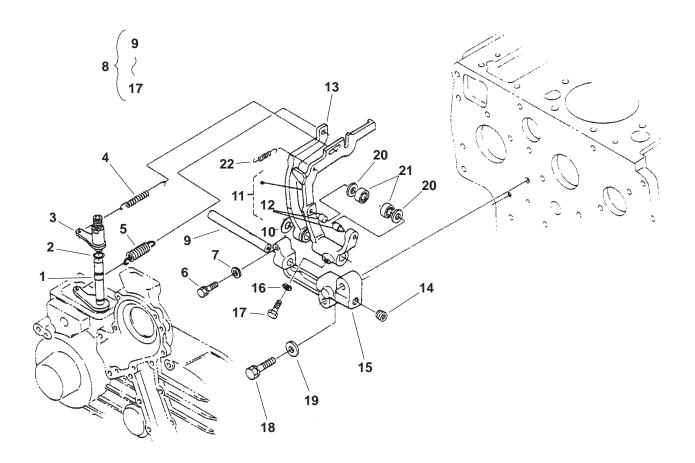


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–5945	1	Camshaft Assy, Fuel	13	185–7039	2	*Weight, Governor
			(Includes Parts Marked *)	14	185–5960	2	*Washer
2	185–5946	1	*Camshaft, Fuel	15	185–5957	2	*Pin, Governor Weight
3	185–5947	1	*Bearing, Ball	16	185–5958	4	*Bushing
4	185–5948	1	*Gear, Injection Pump	17	185–5959	2	*Bearing, Governor Weight
5	185–5949	1	*Key	18	185–5966	4	*Washer, Flat
6	185–5950	1	*Ring, External Retaining	19	185–5962	1	Stopper, Fuel Camshaft
7	185–5951	1	*Sleeve, Governor	20	185–6956	2	Bolt
8	185–5952	2	*Washer, Thrust	21	185–5963	1	Ring, External Retaining
9	185–5953	1	*Collar	22	185–5961	1	Bearing, Ball
10	185–5954	2	*Shaft, Governor Weight				
11	185–5955	1	*Holder, Governor Weight				
12	185–5956	2	*Weight Assy, Governor (Includes Pin, Weight and Washer)	* – P	arts Included	in Fuel C	amshaft Assy

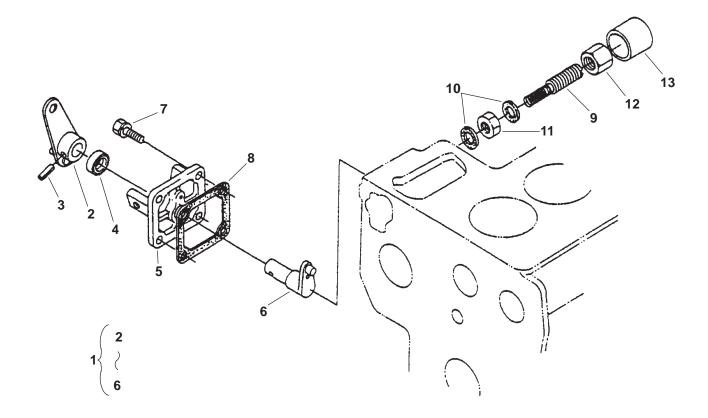


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6168	1	Bolt, Maximum Fuel Adjusting	13	185–5696	1	Pin, Spring
2	185–6169	1	Nut	14	185–6178	1	Spring
3	185–2284	2	Gasket	15	185–6179	1	Pin, Straight
4	185–5529	1	Nut, Cap	16	185–6180	1	Gasket
5	185–2283	1	Сар	17	185–2390	2	Bolt
6	185–6171	1	Plate, Speed Control	18	185–2105	2	Stud
7	185–5691	1	O'Ring	19	185–6759	2	Washer, Spring
8	185–3397	1	Shim (0.50 mm)	20	185–4255	2	Nut
9	185–6174	1	Collar	21	185–5140	1	Clamp, Cord
10	185–6175	1	Lever, Lower Speed Control	22	800–2036	3	Bolt (M6 x 30)
11	185–5693	2	Nut	23	750–1004	4	Nut (M6)
12	185–6177	1	Lever, Upper Speed Control	24	800–2038	1	Bolt (M6 x 40)

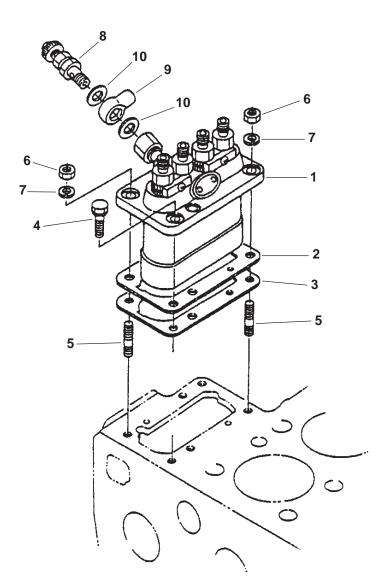
Governor



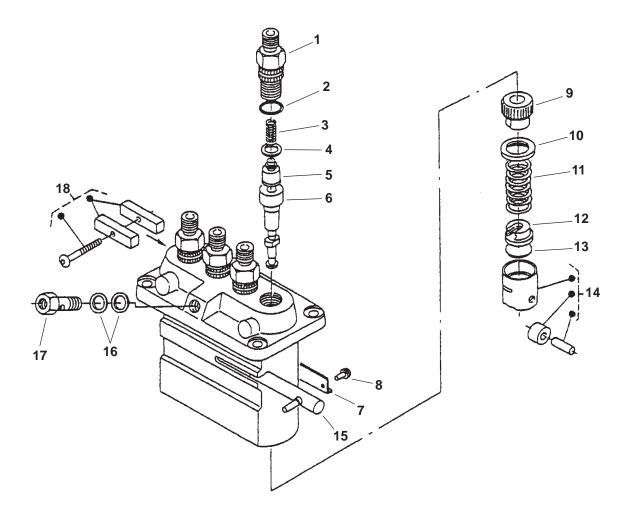
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6172	1	Shaft, Lever	12	185–5957	2	*Pin, Governor Weight
2	185-2347	1	O'Ring	13	185-6779	1	*Lever. Fork
3	185–6173	1	Lever, Governor	14	185–6164	1	*Screw, Set
4			Spring, Governor	15	185–6780	1	*Holder, Fork Lever
	185–6753	1	Prior to Kubota S/N 60896	16	185–2379	1	*Washer, Spring
	185–6167	1	Begin Kubota S/N 60897	17	185–6161	1	*Bolt
5	185–7112	1	Spring, Governor	18	185–6781	2	Bolt
6	185–2392	1	Bolt	19	740–1006	2	Washer, Flat
7	740–1004	1	Washer, Flat	20	185–5960	2	Washer
8	185–6801	1	Lever Assy, Fork (Includes Parts	21	185–5959	2	Bearing
			Marked *)	22	185–6165	1	Spring, Start
9	185–6160	1	*Shaft, Fork Lever				
10	185–6163	1	*Washer, Flat				
11	185–6158	1	*Lever Assy, Fork (Includes Pin)	* _	Parts Include	d in Fork	Lever Assy.



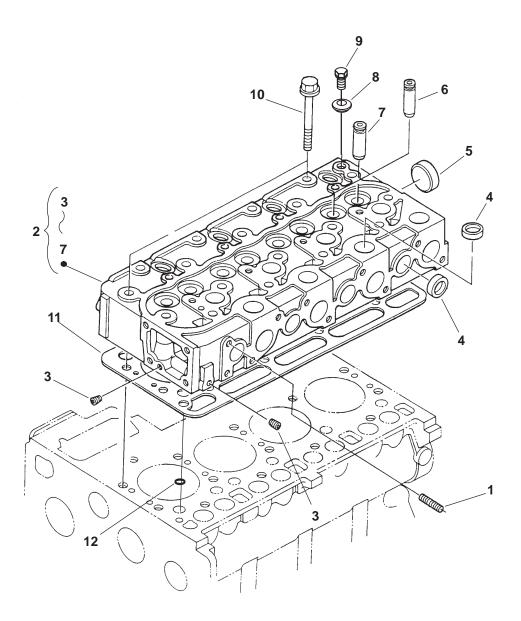
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6726	1	Lever Assy, Engine Stop	9	185–6774	1	Bolt, Adjusting
			(Includes Parts Marked #)	10	185–2338	2	Gasket
2	185–6775	1	#Lever, Engine Stop	11	185–5969	1	Nut
3	185–2351	1	#Pin, Spring	12	185–5970	1	Nut, Cap
4	185–2461	1	#Seal, Oil	13	185–5971	1	Сар
5	185–6134	1	#Cover, Injection Pump				
6	185–6135	1	#Shaft, Lever				
7	185–2389	4	Bolt	# — F	Parts Included	d in Engine	e Stop Lever Assy
8	185–5974	1	Gasket, Injection Pump Cover				



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–7111	1	Pump Assy, Injection (See	4	185–2402	4	Bolt
			Separate Page for	5	185–2106	2	Stud
			Components)	6	185–2367	2	Nut
2			Shim	7	185–6957	2	Washer, Spring
	185–5976	2	Standard	8	185–6777	1	Cock, Jet Start
	185–6756	2	.20mm	9	185–6418	1	Joint, Eye
	185–6757	2	.25mm	10	120–1221	2	Gasket
3			Shim				
	185–5977	1	.45mm				
	185–6758	1	.30mm				

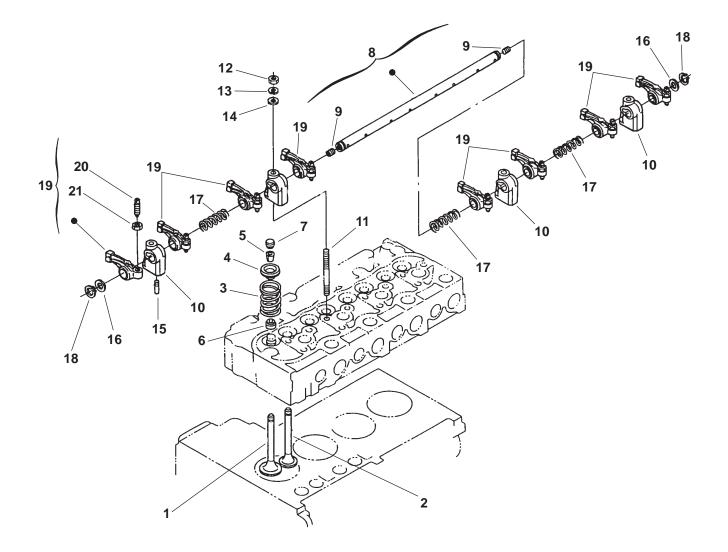


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185–7111		Pump Assy, Injection	8	185–6145	4	Pin, Tappet Guide
1	185–6142	4	Holder, Delivey Valve	9	185–6152	4	Sleeve, Control
2	185–6155	4	ORing	10	185–6148	4	Seat, Upper Spring
3	185–6140	4	Spring, Delivery Valve	11	185–6147	4	Spring, Plunger
4	185–6141	4	Gasket, Delivery Valve	12	185–6778	4	Seat, Lower Spring
5	185–6139	4	Valve, Delivery	13	185–6151	4	Shim
6			Plunger, Pump	14	185–6144	4	Tappet Assy
	185–6138	4	Old (Goes with Old Pump	15	185–6150	1	Rack, Control
			185–6776)	16	185–6154	2	Gasket
	185—	4	New (Goes w/185–7111)	17	185–6153	1	Screw, Hollow
7	185–6146	2	Plate	18	185–6143	2	Lock Assy, Plate



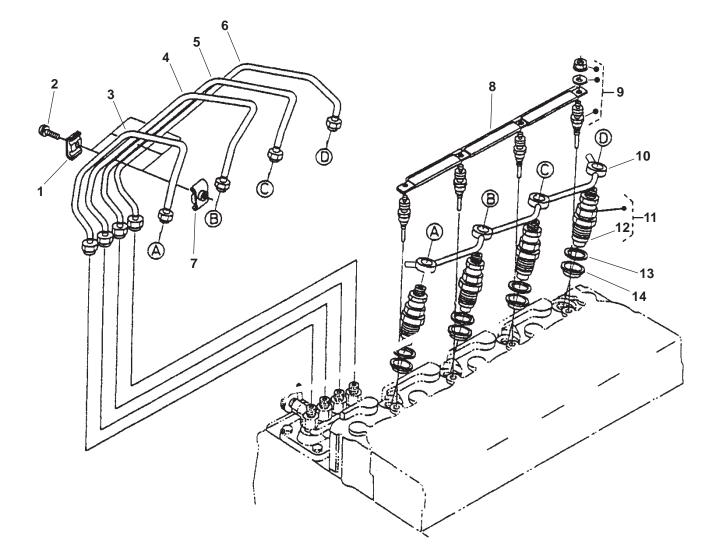
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stud	7	185–5863	4	*Guide, Exhaust Valve
	185–2106	1	MDKAD	8	185–5868	1	Washer (With Rubber)
	185–6048	1	MDKAE	9	185–5867	1	Plug
2			Head Assy, Cylinder (Includes	10	185–5865	18	Bolt, Cylinder Head
			Parts Marked *)	11			Gasket, Cylinder Head
	185–6763	1	MDKAD		185–6764	1	MDKAD
	185–5860	1	MDKAE		185–5866	1	MDKAE
3	185–2188	2	*Plug	12	185–2095	1	O'Ring
4	185–5861	12	*Cap, Sealing				C C
5	185–2412	1	*Cap, Sealing				
6	185–5862	4	*Guide, Inlet Valve	* – F	arts Included	in Cylind	er Head Assy.

Rocker Arm

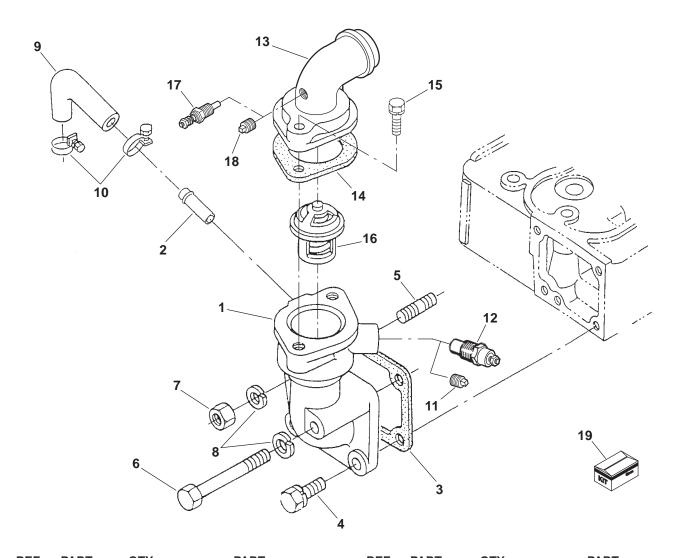


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6107	4	Valve, Inlet	12	185–2367	4	Nut
2	185–6108	4	Valve, Exhaust	13	185–6957	4	Washer, Spring
3	185–6016	8	Spring, Valve	14	740–1006	4	Washer, Flat
4	185–6017	8	Retainer, Valve Spring	15	185–6789	1	Pin, Spring
5	110–3584	8	Collet, Valve Spring	16	185–6025	2	Washer, Rocker Arm Shaft
6	185–6018	8	Seal, Valve Stem	17	185–6026	3	Spring, Rocker Arm
7	185–6019	8	Cap, Valve	18	185–6027	2	Ring, External Retaining
8	185–6020	1	Shaft Assy, Rocker Arm (Includes Set Screws)	19	185–6028	8	Arm Assy, Rocker (Includes Screw and Nut)
9	185–6242	2	Screw, Set	20	185–6029	8	Screw, Adjusting
10	185-6022	4	Bracket, Rocker Arm	21	185–6030	8	Nut
11	185–6023	4	Stud				

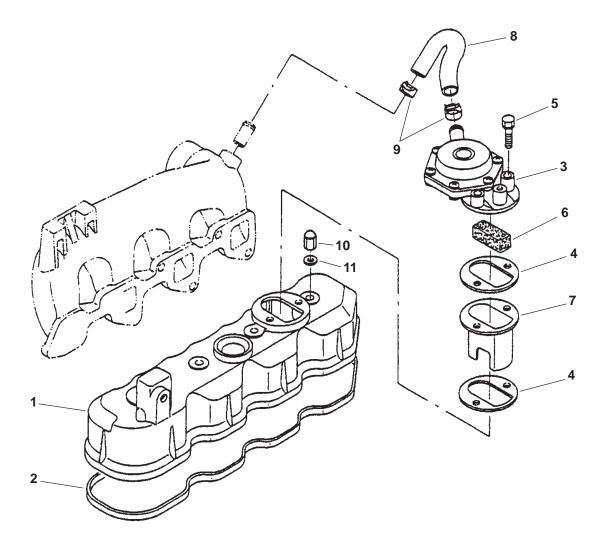
Nozzle Holder



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–2345	3	Clamp, Pipe	10	185–6731	1	Pipe, Overflow
2	185–2385	3	Screw (With Washer)	11			Holder Assy, Nozzle (Includes
3	185–5986	1	Pipe, Injection				Nozzle)
4	185–5987	1	Pipe, Injection		185–6094	4	MDKÁD
5	185–5988	1	Pipe, Injection		185–6752	4	MDKAE
6	185–5989	1	Pipe, Injection	12	185–6095	4	Nozzle
7	185–5612	3	Clamp, Pipe	13	185–5337	4	Gasket, Nozzle
8	185–5991	1	Cord, Glow Plug	14	185–5985	4	Seal, Heat
9			Plug, Glow				
	185–5990	4	12V				
	185–6725	4	24V				

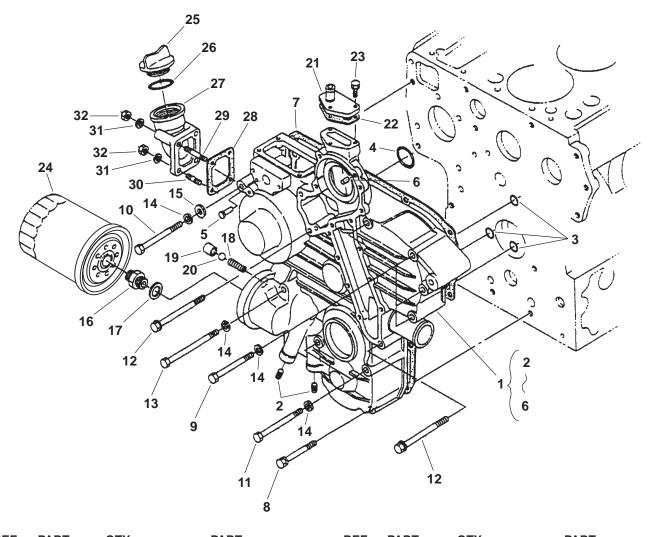


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6788	1	Flange, Water Outlet (Includes	15	185–2365	2	Bolt
			Pipe)	16	185–6005	1	Thermostat
2	185–6103	1	Pipe, Water Return	17			Sender, Water Temperature
3	185–5999	1	Gasket				(E2)
4	185–2402	2	Bolt		193–0318	1	Negative Ground
5	185–2362	1	Stud		193-0457-01	1	Isolated Ground
6	185–5443	1	Bolt	18	505-0110	1	Plug, Square Head Pipe (3/8")
7	185–2367	1	Nut	19			*Kit, Sender (Includes Water
8	185–6957	2	Washer, Spring				Temperature Sender)
9	185–6000	1	Pipe, Water Return		300–5040	1	Negative Ground
10	185–6001	2	Band, Pipe		300–5041	1	Isolated Ground
11	185–5826	1	Plug				
12			*Switch, High Water Temperature (S2)	* _			ressure Sender Listed on
	309–0601	1	Negative Ground		Oil Pan Page		
	309–0576	1	Isolated Ground	+ -			ated Ground Kit Listed on Isolated
13	185–6003	1	Cover, Thermostat		Ground Page		
14	185–6004	1	Gasket, Thermostat Cover				

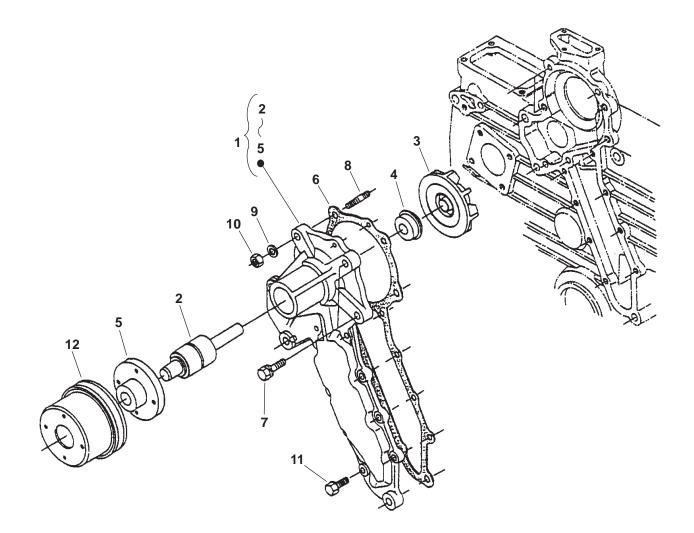


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6716	1	Cover, Cylinder Head	7	185–6718	1	Plate
2	185–5887	1	Gasket, Cover	8	185–6719	1	Tube, Breather
3	185–6720	1	Breather	9	185–6722	2	Clamp, Hose
4	185–6717	2	Gasket, Breather	10	185–5888	4	Nut, Čap
5	718–1040	2	Bolt	11	185–2338	4	Gasket
6	185–6721	1	Element, Breather				

Gearcase

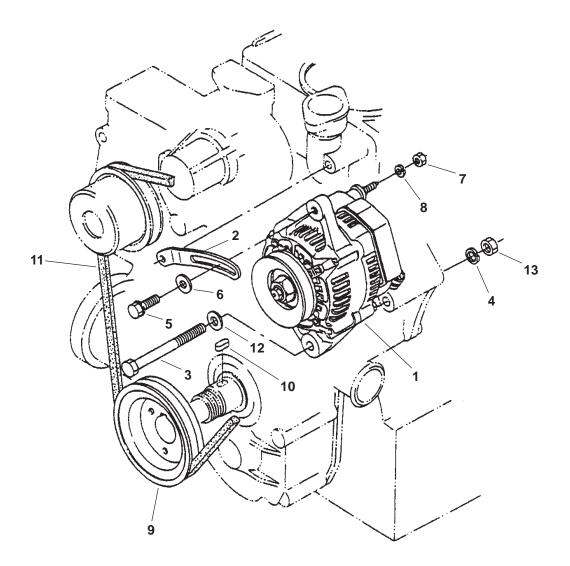


REF		QTY	PART	REF		QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	185–6765	1	Gearcase Assy (Includes	18	185–5877	1	Spring
			Parts Marked *)	19	185–5878	1	Seat, Valve
2	185–5505	2	*Plug	20	185–6711	1	Ball
3	185–5869	3	*O'Ring	21	185–5879	1	Flange, Water Return
4	185–5870	1	*O'Ring	22	185–5880	1	Gasket
5	185–6197	1	*Pin, Start Spring	23	185–2390	3	Bolt
6	185–5843	2	*Pin, Straight	24	122–0810	1	Filter, Oil
7	185–5871	1	Gasket	25	185–5407	1	Plug, Oil Fill
8	185–2405	2	Bolt	26	185–2349	1	O'Ring
9	185–5443	5	Bolt	27	185–6124	1	Flange, Oil Fill
10	185–5872	1	Bolt	28	185–6125	1	Gasket
11	185–5873	2	Bolt	29	185–6126	2	Stud (Top)
12	185–5874	3	Bolt	30	185–6127	2	Stud (Bottom)
13	185–6078	2	Bolt	31	185–6759	4	Washer, Spring
14	185–6957	10	Washer, Spring	32	185–4255	4	Nut
15	740–1006	1	Washer, Flat				
16	185–5875	1	Joint, Pipe	÷ =			
17	185–5876	1	Washer, Flat	* — H	Parts Included	in Gearca	ase Assy

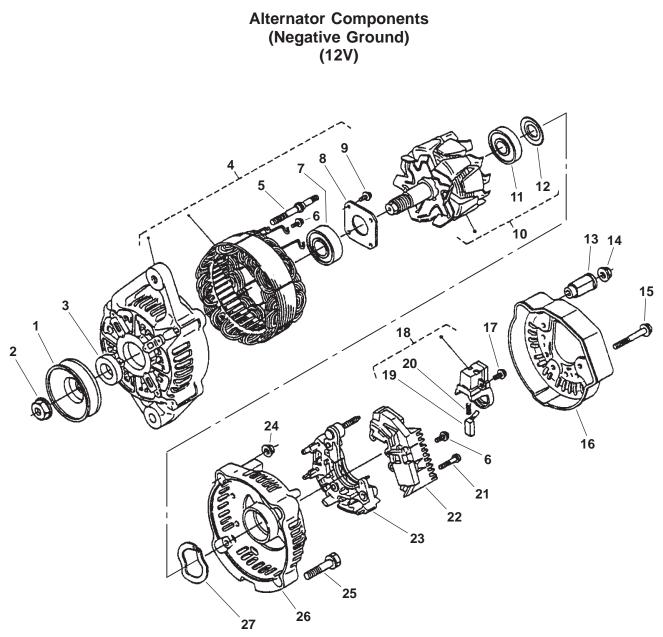


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6006	1	Pump Assy, Water	8	185–6012	2	Stud
			(Includes Parts Marked *)	9	185–6957	2	Washer, Spring
2	185–6007	1	*Bearing, Ball	10	185–2367	2	Nut
3	185–7020	1	*Impeller	11	185–2389	8	Bolt
4	185–7021	1	*Seal	12	185–6013	1	Pulley
5	185–6010	1	*Flange				-
6	185–6011	1	Gasket				
7	185–2404	2	Bolt	* – F	arts Included	l in Water I	Pump Assy

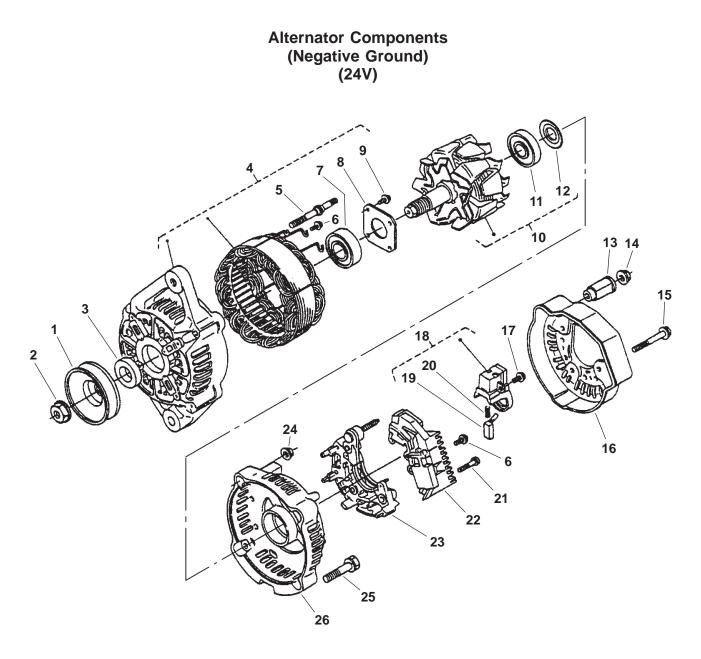
Alternator (Negative Ground)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator, Complete (See	4	185–6785	1	Washer, Spring
			Separate Page for	5	185–2564	1	Bolt
			Components)	6	185–6786	1	Washer, Flat
	185–5994	1	12V	7	185–4255	1	Nut
	185–6724	1	24V	8	185–2380	1	Washer, Spring
2			Bracket, Adjusting	9	185–6730	1	Pulley, Fan Drive
	185–6182	1	12V	10	185–5905	1	Key
	185–6733	1	24V	11	185–6184	1	Belt
3			Bolt	12	185–6185	1	Washer, Flat
	185–6734	1	MDKAD	13	185–5445	1	Nut
	185–6183	1	MDKAE				

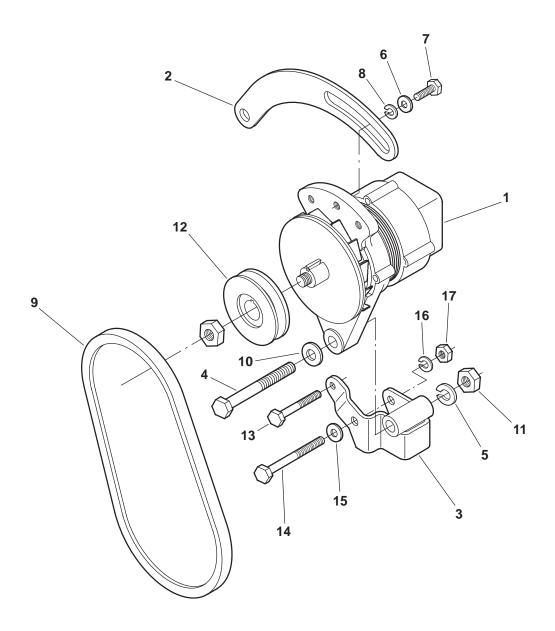


REF NO.	PART NO.	QTY PART REF USED DESCRIPTION NO.		PART NO.	QTY USED	PART DESCRIPTION	
	185–5994	1	Alternator (12V)	16	185–6189	1	Cover, End
1	185–6186	1	Pulley	17	185–5787	1	Screw, Round Head
2	185–5768	1	Nut	18	185–5782	1	Holder Assy, Brush
3	185–5769	1	Collar				(Includes Brushes and
4	185–5773	1	Frame, Drive End (Includes				Springs)
			Parts Marked *)	19	185–5783	2	Brush
5	185–5776	2	*Bolt, Through	20	185–5784	2	Spring, Brush
6	185–5786	6	Screw, Round Head	21	185–5785	2	Screw, Round Head
7	185–5777	1	*Bearing	22	185–5791	1	Regulator
8	185–5774	1	*Plate, Retainer	23	185–6190	1	Rectifier
9	185–5775	4	*Screw, Round Head	24	185–5789	2	Nut
10	185–5770	1	Rotor (Includes Bearing and	25	185–5790	2	Bolt
			Cover)	26	185–6188	1	Frame, End
11	185–5772	1	Bearing	27	185–6187	1	Washer, Thrust
12	185–5771	1	Cover, Bearing				
13	185–6191	1	Insulation, Brush				
14	185–2961	1	Nut	* – P	arts Included	l in Drive E	nd Frame
15	185–5788	3	Bolt				

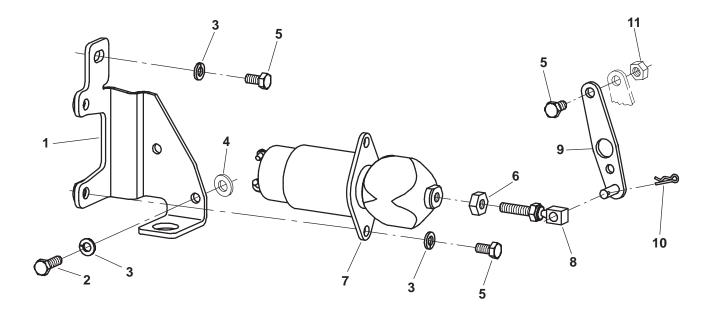


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	185–6724	1	Alternator (24V)	15	185–5788	3	Bolt
1	185–6809	1	Pulley	16	185–6815	1	Cover, End
2	185–5768	1	Nut	17	185–5787	1	Screw, Round Head
3	185–5769	1	Collar	18	185–6819	1	Holder Assy, Brush
4	185–6812	1	Frame, Drive End (Includes Parts Marked *)				(Includes Brushes and Springs)
5	185–5776	2	*Bolt, Through	19	185–5783	2	Brush
6	185–5786	6	Screw, Round Head	20	185–5784	2	Spring, Brush
7	185–6813	1	*Bearing	21	185–5785	2	Screw, Round Head
8	185–5774	1	*Plate, Retainer	22	185–6820	1	Regulator
9	185–5775	4	*Screw, Round Head	23	185–6816	1	Rectifier
10	185–6810	1	Rotor (Includes Bearing and	24	185–5789	2	Nut
			Cover)	25	185–5790	2	Bolt
11	185–6811	1	Bearing	26	185–6814	1	Frame, End
12	185–5771	1	Cover, Bearing				
13	185–5781	1	Insulation, Brush				
14	185–2961	1	Nut	 * – Parts Included in Drive End Frame 			

Alternator (Isolated Ground)

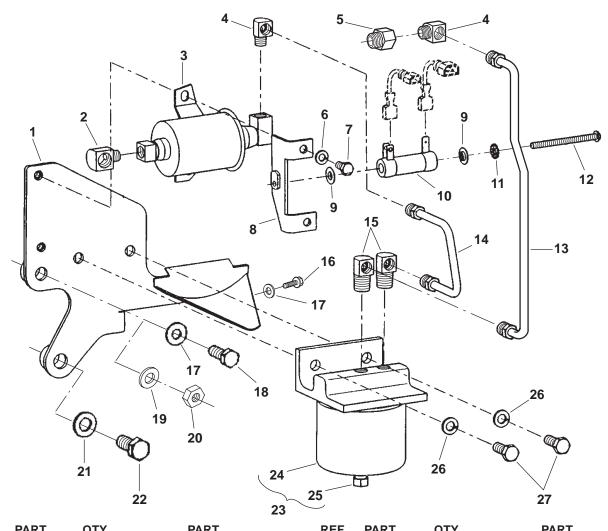


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Alternator, Complete (No	8	850–0045	1	Washer, Lock (5/16")
			Components Available)	9	511–0186	1	Belt
	191-2169-02	1	12V	10	526-0219	1	Washer, Flat (1/2")
	191–2169–01	1	24V	11	862-0016	1	Nut (1/2–13)
2	191-2168-03	1	Bracket, Adjusting	12	191–2170	1	Pulley, Alternator
3	191-2167-03	1	Bracket, Alternator	13	718–1048	1	Screw, Hex Head Cap (M8 x 80)
4	800-0104	1	Screw, Hex Head Cap	14	800–2100	1	Screw, Hex Head Cap
			(1/2–13 x 4–1/2"				(M10 x 100)
5	850-0060	1	Washer, Lock (1/2")	15	526-2120	1	Washer, (M10)
6	526-0045	1	Washer, Flat (5/16")	16	850-2010	1	Washer, Lock (M10)
7	800–0027	1	Screw, Hex Head Cap (5/16–18 x 7/8")	17	750–1008	1	Nut, Hex (M10)

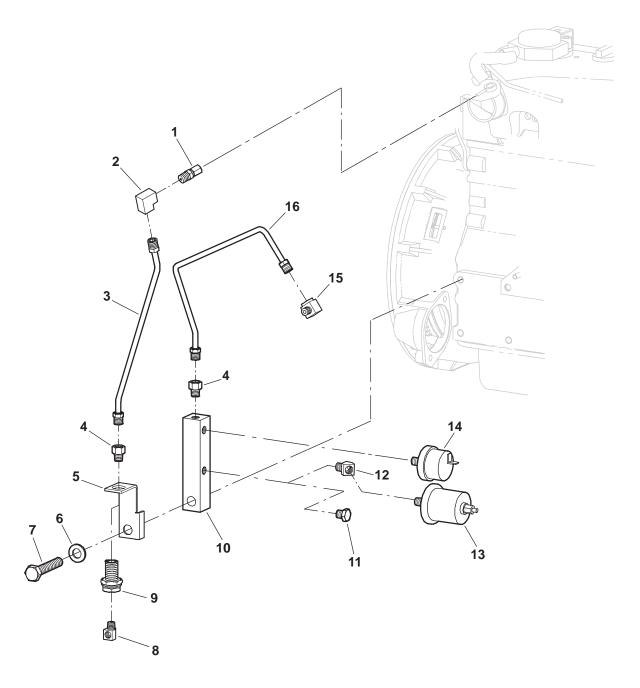


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2808-02	1	Bracket, Solenoid	7			Solenoid, Stop (K7)
2	800-2034	2	Screw, Hex Head Cap		307–2820	1	12V
			(M6 x 1 x 20mm)		307-2820-01	1	24V
3	850-2006	5	Washer, Lock (M6)	8	150–2579	1	Swivel, Ball Joint
4	526-2081	2	Washer, Flat (M6)	9	150-2567-03	1	Lever, Stop
5	800-2029	4	Screw, Hex Head Cap	10	518-0656	1	Clip, Linkage
			(M6 x 1 x 12mm)	11	870–2054	1	Nut, Lock Flange (M6 x 1)
6	115–0025	1	Nut, Tappet (1/4–28)				

Fuel Pump



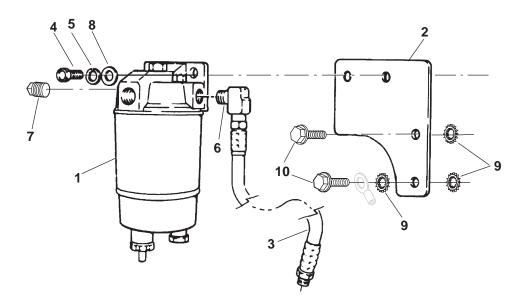
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
NO.	NO.	USLD	DESCRIPTION	NO.	NO.	USLD	DESCRIPTION
1	149–2531–04	1	Bracket, Fuel Pump	17	526-2120	2	Washer, Flat (M10) (W/O PTO)
2	502-0099	1	Elbow, Street Pipe	18	800–3005	1	Screw, Hex Head Cap
3	149-2331-01	1	Pump, Electric Fuel (E5)				(M10 x 1.25 x 30mm)
4	502-0002	2	Elbow, Inverted Male				(W/O PTO)
5	502-0175	1	Adapter, Pipe	19	526-2106	1	*Washer, Flat (W/PTO)
6	850-2006	2	Washer, Lock (M6)	20	860-2008	1	*Nut (W/PTO)
7	718–1019	2	Screw, Hex Head Cap	21	526-0399-64	1	Washer, Flat (M12)
			(M6 x 1 x 14mm)	22	800–3032	1	Screw, Hex Head Cap
8	304-0828-02	1	Bracket, Resistor (24V)				(M12 x 1.25 x 30mm)
9	304–0796	2	Washer, Centering (24V)	23	149–2100	1	Filter, Fuel (Includes Element
10	304–0797	1	Resistor (24V) (R6)				Plug and)
11	856-0003	1	Washer, EIT (#10) (24V)	24	149–2106	1	Element
12	813–0112	1	Screw, Round Head Machine	25	502-0028	1	Plug, Drain
			(#10–32 x 2.5") (24V)	26	850-2008	2	Washer, Lock (M8)
13	149–2437	1	Line, Fuel	27	718–1036	2	Screw, Hex Head Cap
14	149–2436	1	Line, Fuel				(M8 x 1.25 x 20mm)
15	502-0041	2	Elbow, Inverted Male				
16			Screw, Hex Head Cap				
	800–3030	1	W/O PTO	 Parts Included in PTO Kit Found on PTO Page. 		Kit Found on PTO Page.	
			(M10 x 1.25 x 20mm)				
	815–0904	1	* W/PTO				



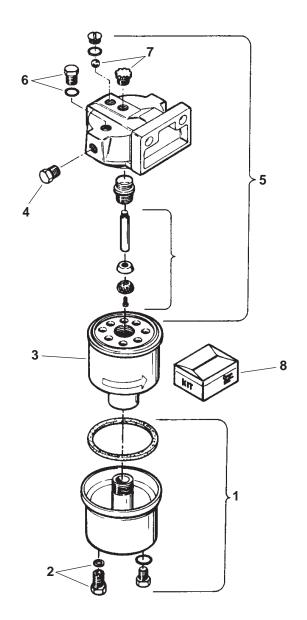
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1245	1	Adapter, Pipe
2	502-0005	1	Elbow, Inverted Female
3	149–2488	1	Line, Fuel Return
4	502-0003	2	Connector, Inverted Male
5	149-2489-03	1	Support, Fuel Return
6	526-0399-64	1	Washer, Flat (M12)
7	800-3029	1	Screw, Hex Head Cap
			(M12 x 1.25 x 45mm)
8	502-0020-01	1	Elbow, Street Pipe
9	502-1244	1	Coupling, Anchor
10	120–1319	1	Manifold, Oil Pressure
11	502-0028	1	Plug, Hex Head Pipe

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	502-0053	1	Elbow, Street Pipe 45°
13			Sender, Oil Pressure (E1)
	193–0244	1	Negative Ground
	193-0430-01	1	Isolated Ground
14			Switch, Oil Pressure (S4)
	309-0561-05	1	Negative Ground
	309-0578	1	Isolated Ground
15	502-1309	1	Elbow, Male
16	122–0813	1	Line, Óil

* - Part Included in Sender Kit Found on Water Outlet Flange Page.

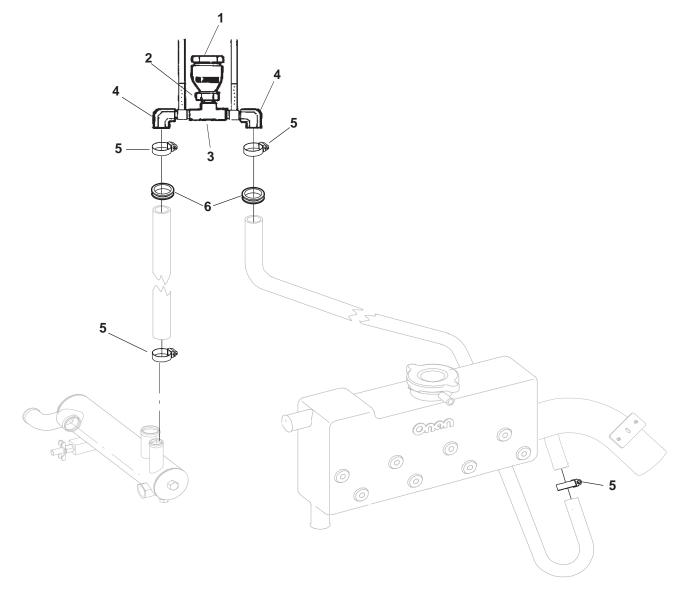


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	149–2313	1	Kit, Remote Fuel/Water	5	850–2008	2	Washer, Lock (M8)
			Separator	6	502-0054	1	Elbow, Street 90° (1/4 NPT)
1	149-1908-05	1	Separator, Fuel/Water (See	7	502-0153	1	Plug, Hex Pipe (1/4 NPT)
			Separate Page for	8	526-2100	2	Washer, Flat (M8)
			Components)	9	856-0012	3	Washer, EIT (7/16")
2	149–2312	1	Bracket, Separator Mounting	10	718–1055	2	Screw, Hex Head Cap
3	501-0578	1	Line, Flex Fuel				(M10 x 1.5 x 30mm)
4	718–1038	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)				

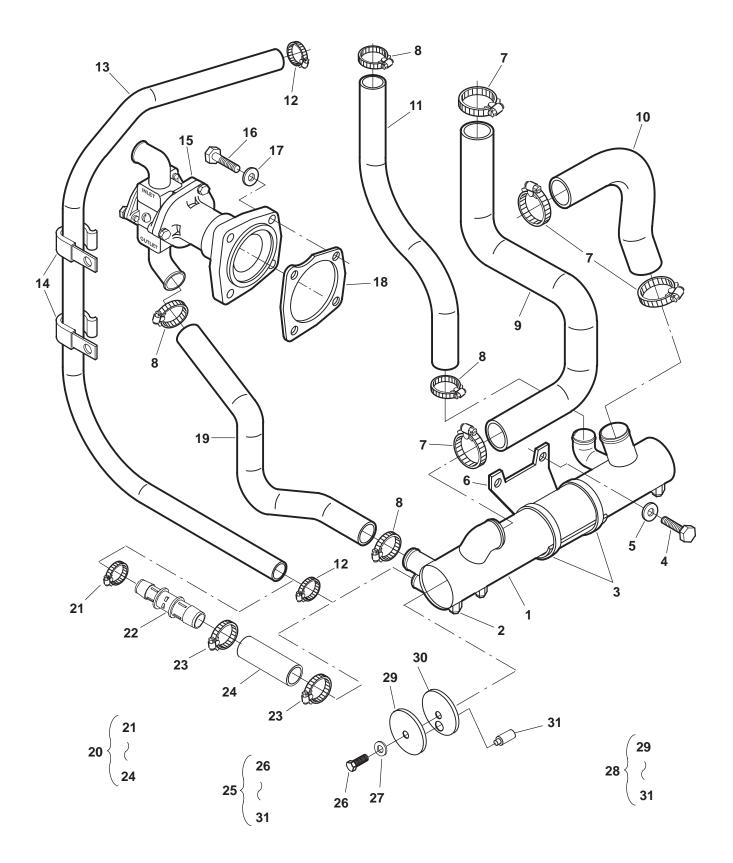


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	149–1908–05	1	Separator, Water	6	149–1952	1	Plug, Vent (Includes O–Ring)
1	149–2046	1	Kit, Metal Bowl Replacement (Includes Plug, O–Rings and Drain Assy)	7	149–2047	1	Pump Assy (Includes Plunger, Retainer, Shaft, Check Ball, Knob and Screw)
2	149–1953	1	Drain Assy (Includes Knob and Seal)	8	149–2045	1	O'Ring Kit (Includes Seal and Plunger)
3	149-1914-05	1	Element (Includes Seals)				0 /
4	502-0153	1	Plug, Hex (1/4")				
5	149–1949	1	Head Assy, Replacement (Includes Vent Plug, O–Rings, Seal, Cap, Tube and Pump Assy)				

Vacuum Relief Valve



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	155–2950	1	Kit, Siphon Break	4	502-0942	2	Elbow, 90 Hose (3/8 Npt X 5/8")
1	504-0062	1	Valve, Vacuum Relief	5	503-0977	4	Clamp, Hose (#10)
2	502-0270	1	Adapter, Pipe (3/8" x 1/2")	6	508–1102	2	Grommet
3	502-0090	1	Tee (3/8")				

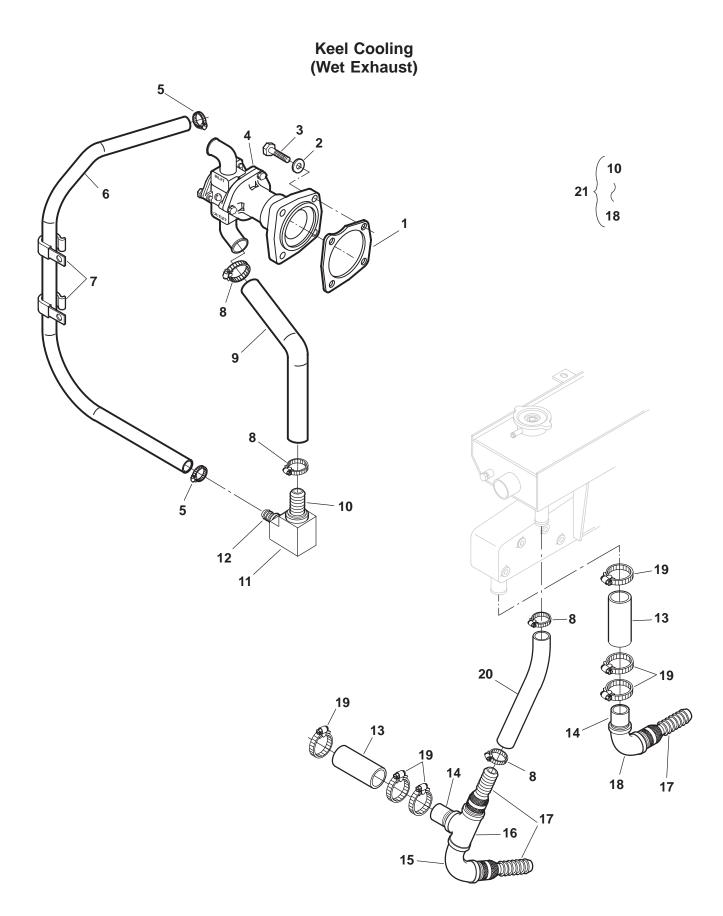


Heat Exchanger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Exchanger, Heat
	130-4433-02	1	Spec A–B
	130-5006-02	1	Begin Spec C
2	130–4434	1	Pencil, Zinc (w/Screw)
3	503–1143	2	Clamp, Hose (3")
4	800–3030	2	Screw, Hex Head Cap (M10 x 1.25 x 20mm)
5	526-2120	2	Washer, Flat (M10)
6	130-4234-03	1	Bracket, Heat Exchanger
7	503–1138	4	Clamp, Hose (1-3/8")
8	503–1137	4	Clamp, Hose (1")
9	503–1977	1	Hose, Exhaust Manifold (1–3/8") (Includes Sleeving)
10 11	503–1896	1	Hose, Engine Coolant (1–3/8") Hose, Coolant Tank Lower (1" x 22")
	503–1163	1	Spec A–B
	503-0501	1	Begin Spec C
12 13	503–0977	2	Clamp, Hose Hose, Mixer
	503-1562-02	1	Spec A–B (5/8 x 43")
	503–2122	1	Begin Spec C (3/4 x 43")
14	332–2634	2	Clamp, "J"
15	132–0356	1	Pump, Raw Water (See Separate Page for Components)
16	718–1036	4	Screw, Hex Head Cap (M8 x 1.25 x 20)
17	526-2100	4	Washer, Flat (M8)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
18	132–0346	1	Gasket, Water Pump
19	503–1978	1	Hose, Water Pump (1")
20	130–5008	1	Kit, Heat Exchanger (Includes Connector, Hose and Clamps) (Adapt Old Hoses to New Heat Exchanger)
21	503–1134	1	Clamp, Hose
22	503-2106	1	Connector, Reducer
23	503–1135	2	Clamp, Hose
24	503–1194	1	Hose, Rubber
25	130–4979	1	Kit, Heat Exchanger Zinc Pencil (Includes Parts Marked +)
26	800–0317	1	+ Screw, Hex Head (5/16–18 x 3/4")
27	850-0165	1	+Washer, Lock (5/16")
28	130-5012	1	+Kit, End Cover (Includes Parts
			Marked *)
29			Cover, Heat Exchanger
	130-4567	1	W/O Zinc Pencil Boss)
	130-4962-01	1	+* W/Zinc Pencil Boss)
30			Gasket, Cover
	130–4566	1	W/O Zinc Pencil Hole
	130-4960	1	+* W/Zinc Pencil Hole
31	130-4961	1	+*Pencil, Zinc (w/o Screw)

+ - Parts Included in Heat Exchanger Zinc Pencil Kit.
* - Parts Included in End Cover Kit.



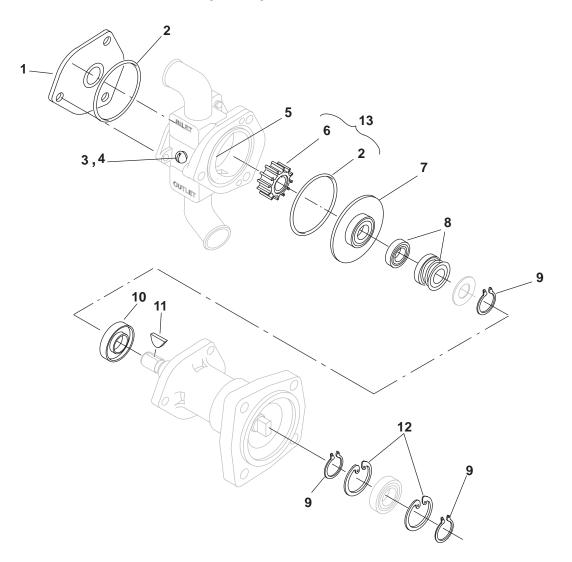
Keel Cooling (Wet Exhaust)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	132–0346	1	Gasket, Water Pump
2	526-2100	4	Washer, Flat (M8)
3	718–1036	4	Screw, Hex Head Cap (M8 x 20mm)
4	132–0356	1	Pump, Raw Water
5	503-0977	2	Clamp, Hose
6			Hose
	503–1168	1	Spec A–B (5/8")
	503-0200	1	Begin Spec C (3/4" x 36")
7	332–2634	2	Clamp, "J"
8	503–1137	4	Clamp, Hose (1")
9	503-2025-02	1	Hose, Outlet (1" x 12")
10	502-1295-02	1	*Adapter (3/4" NPT x 1" Barb)
11	502-1297	1	*Elbow, 90
12			*Adapter (3/4"NPT)
	502-1295-01	1	Spec A–B (5/8" Barb)
	502-1295-03	1	Begin Spec C (3/4" Barb)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
NO. 13 14 15 16 17 18 19 22	NO. 503–2023 505–0446–01 505–0003 505–0304 505–1509 505–0041 503–1138		DESCRIPTION *Hose, Coolant (1–3/8" x 4") *Nipple, Half *Elbow *Tee *Barb, Hose *Elbow Clamp, Hose (1–3/8") Hose Occlet(4"m 40")
20 21	503–2025–01 155–3148–01	1	Hose, Coolant (1" x 10") Kit, Keel Cooling (Includes Parts Marked *)

* - Parts Included in Keel Cooling Kit.

Water Pump Components



REF NO.	PART NO.	QTY USEI		REF NO.	PART NO.	QT) USE		
MDK	AD			5	132–0388	1	#+Cam	
*Old	Water Pump I	Prior to	S/N F96353298	6	132–0348	1	#+Impeller	
*Nev	v Water Pump	Begin	S/N F96353298	7			Plate, Wear	
		0			_	1	# Old Pump	
MDK	AE				132–0385	1	+ New Pump	
*Old	Water Pump I	Prior to	S/N F963543104	8			Seal/Seat Assy	
*Nev	Water Pump	Begin	S/N F963543104		_	1	# Old Pump (Lip)	
					132–0387	1	 + New Pump (Mechanical) 	
				9	132–0393	3	+Ring, Retaining	
			Kit, Major Service	10	132–0394	1	+Seal, Lip	
	132–0350	1	Old (Includes Parts Marked *	ʻ) 11	132–0391	1	#+Key	
	132–0384	1	New (Includes Parts	12	132–0392	2	+Ring, Retaining	
			Marked +)	13	132–0349	1	Kit, Minor Water Pump Service	
1			Cover				(Includes Impeller and O'Ring)	
	_	1	# Old Pump					
	132–0386	1	+ New Pump	J.				
2	132–0293	2	#+O'Ring		See Definitio			
3	132–0390	1	#+Screw, Cam				jor Service Kit for *Old Pump.	
	100 0000				+ _ Parts Included in Major Service Kit for *New Pump			

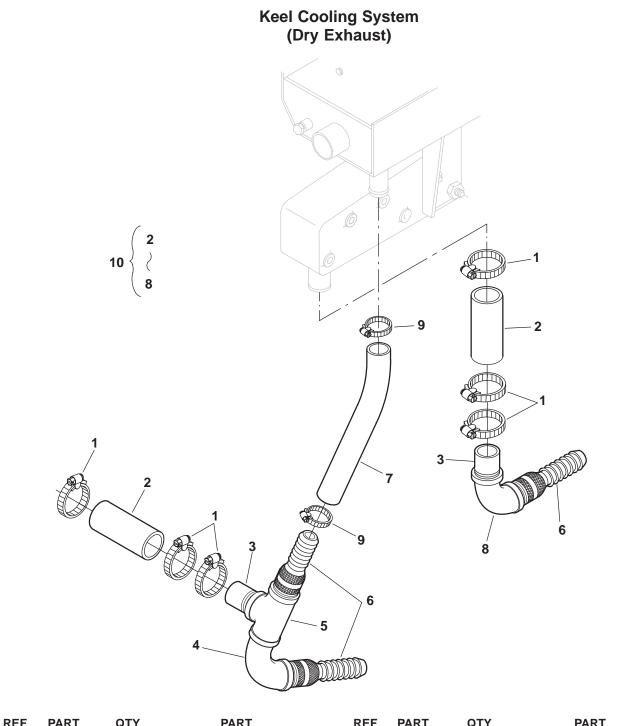
* - See Definition Above.
- Parts Included in Major Service Kit for *Old Pump.
+ - Parts Included in Major Service Kit for *New Pump.

4

132–0389

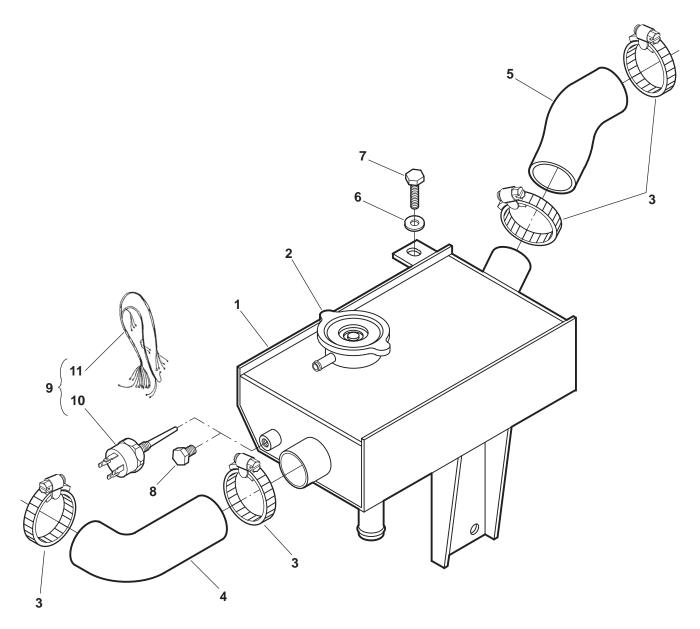
1

#+Washer, Seal



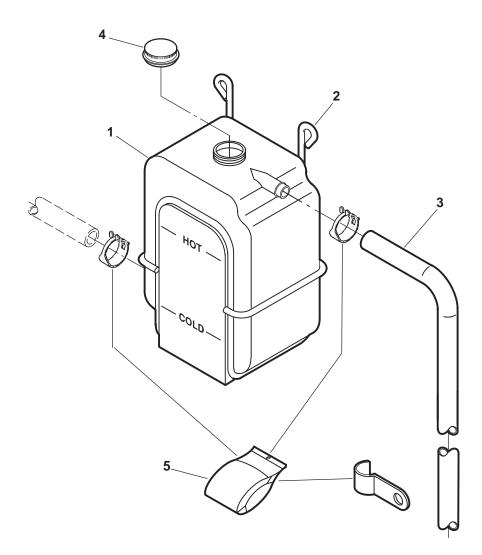
NO		USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	503–1138	6	Clamp, Hose (1–3/8")	9	503–1137	2	Clamp, Hose (1")
2	503-2023	2	*Hose, Coolant (1–3/8" x 4")	10	155–3087	1	Kit, Keel Cooling (Includes Parts
3	505-0446-01	2	*Nipple, Half				Marked *)
4	505-0003	1	*Elbow				
5	505-0304	1	Тее				
6	505–1509	3	*Barb, Hose	* _			Cooling Kit. (Also Includes Cover,
7	503-2025-01	1	*Hose, Coolant (1" x 10")		Gasket and	Hardware	Found on Cylinder Block Page.)
8	505-0041	1	*Elbow				

Coolant Tank



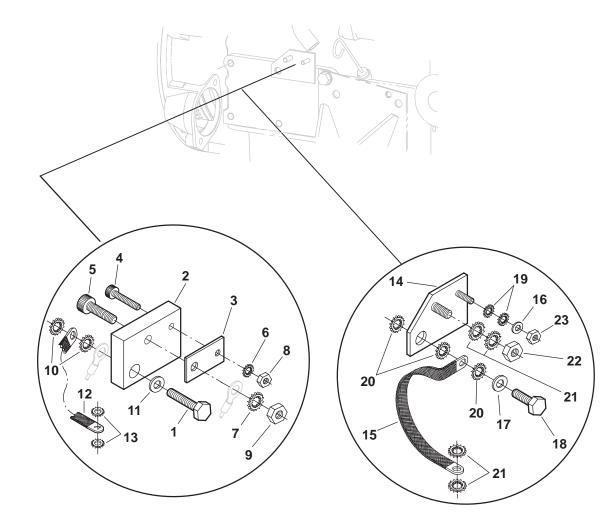
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4881-02	1	Tank, Coolant	5	503–1899	1	Hose, Upper "S"
2			Cap, Tank				(1–3/8")
	130–2248	1	Old (Used w/Old Tank	6	526–2100	1	Washer, Flat (M8)
			130-4235-02)	7	800–2054	1	Screw, Hex Head Cap
	130–3721	1	New (Used w/New Tank				(M8 x 1.25 x 14mm)
			130-4881-01)	8	502-0153	1	Plug, Hex Pipe (1/4)
	130–4718	1	Accy (Used w/Second	9	300–4686	1	Kit, Low Coolant Sender
			Coolant Tank)				(Includes Switch and Harness)
3	503–1138	4	Clamp, Hose (1-3/8")	10	193–0468	1	Sender, Low Coolant
4	503–1898	1	Hose, Upper Elbow (1–3/8")	11	338–3594	1	Harness, Pigtail

Coolant Recovery



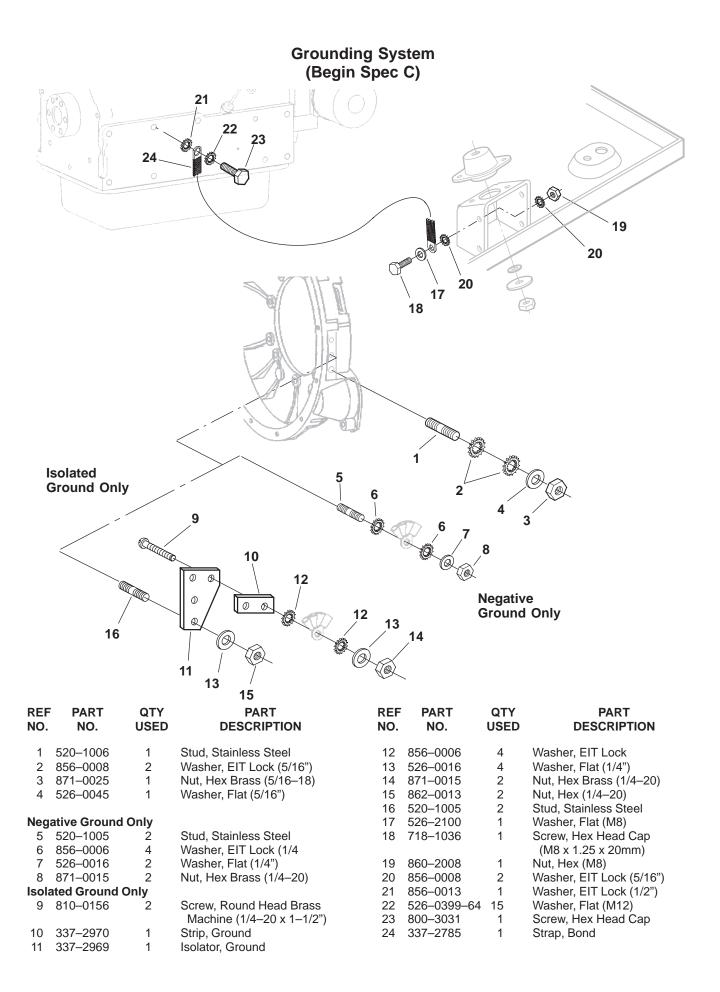
REF	PART	QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1 2 3	130–3574 130–3570 130–3571 503–1692	1 1 1 1	Kit, Coolant Recovery Tank, Coolant Recovery Hanger, Tank Hose (5/16 I.D. x 120" Lg.)	4 5	130–3572 130–3573	1 1	Cap, Tank Hardware Package (Includes Mounting Hardware)

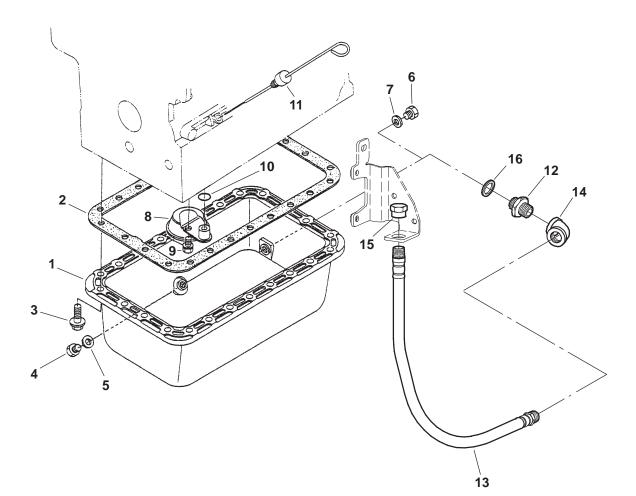
Grounding System (Spec A–B)



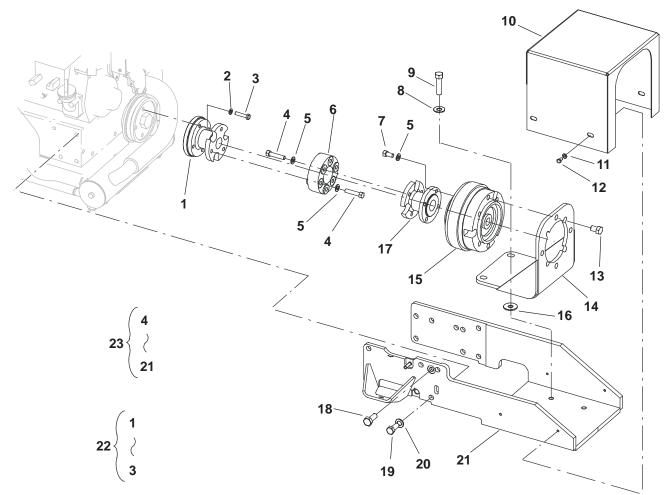
REF NO.	PART NO.	QTY USED	PART DESCRIPTION					
Isolated Ground								
1	800–2115	1	Screw, Hex Head Cap (M12 x 45)					
2	337–2832	1	Isolator, Ground					
3	337-2833-02	1	Strip, Ground					
4	802–0038	1	Screw, Socket Head (1/4–20 x 1.5")					
5	802–0057	1	Screw, Socket Head (5/16–18 x 1.5")					
6	856-0006	1	Washer, EIT Lock (1/4)					
7	856-0008	1	Washer, EIT Lock (5/16")					
8	862-0001	1	Nut, Hex (1/4–20)					
9	862-0015	1	Nut, Hex (5/16–18)					
10	856-0013	2	Washer, EIT Lock (1/2")					
11	526–2140	1	Washer, Flat (M12)					
12	337–2785	1	Strap, Bond					
13	856–1008	3	Washer, Lock – EIT(5/16")					

REF NO.	PART NO.	QTY USED	PART DESCRIPTION				
Neg	Negative Ground						
14	337-2784-02	1	Bar, Bus				
15	337–2785	1	Strap, Bond				
16	526-0052	1	Washer, Flat (17/64) (Used with 12V Sets Only)				
17	526-2140	1	Washer, Flat (M12)				
18	800–3033	1	Screw, Cap – Hex Head (M12 x 1.25 x 25mm)				
19	856-0006	2	Washer, Lock – EIT (1/4")				
20	856-0013	3	Washer, Lock – EIT(1/2")				
21	856-1008	4	Washer, Lock – EIT(5/16")				
22	862-0015	1	Nut, Hex (5/16–18)				
23	871–0016	1	Nut, Hex (1/4–20)				



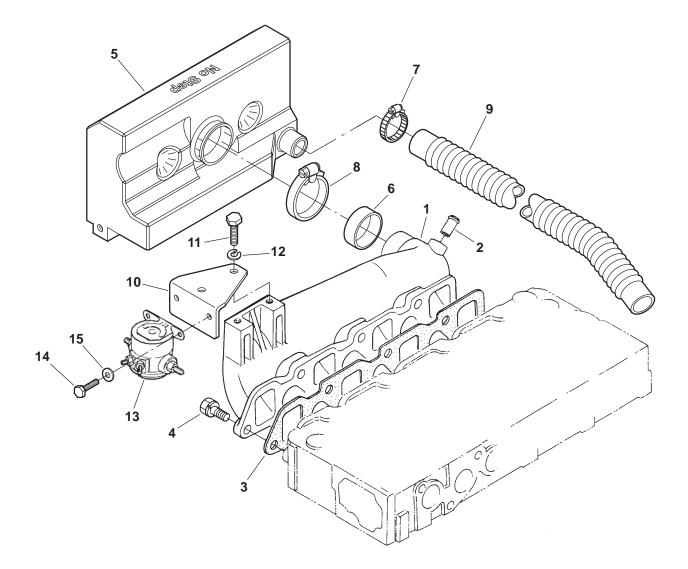


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6727	1	Pan, Oil	10	185–3078	1	O'Ring
2	185–5854	1	Gasket	11	185–6122	1	Indicator, Oil Level
3	185–5855	24	Bolt, Flange	12	102-1449-01	1	Adapter, Oil Drain
4	185–2096	1	Plug	13	501-0624	1	Line, Flex Oil (24")
5	185–2343	1	Gasket	14	502-0263	1	Elbow, Pipe
6	185–6760	1	Bolt	15	502-1123	1	Cap, Pipe
7	185–6761	1	Gasket	16	526-0413	1	Washer, Oil Drain
8	185–6728	1	Tube, Oil Pickup				(.625ID x .875OD x .075Thk)
9	185–6762	1	Bolt				



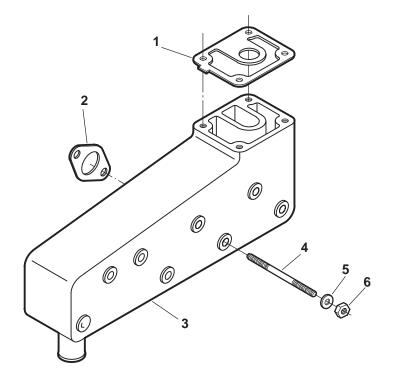
RE		QTY	PART	REF	PART	QTY	PART
NO	. NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	190–0730–02	1	+Adapter, Engine Coupling	17	190-0732-02	1	*Adapter, Coupling Clutch
2	526-2101	3	+Washer, Flat (M8)	18	800–3033	1	*Screw, Hex Head Cap
3	800-2060	3	+Screw, Hex Head Cap (M8 x 35)	19	800–3032	10	*Screw, Hex Head Cap
4	800-0054	6	*Screw, Hex Head Cap				(M12 x 1.25)
5	526-0026	10	*Washer, Flat	20	526-0399-64	10	*Washer, Flat
6	190–0731	1	*Coupling, Flex	21	190-0745-04	1	*Bracket, PTO
7	801–1050	4	*Screw, Hex Head Cap	22	190–0740	1	Kit, PTO Adapter (Includes
8	526-0399-44	4	*Washer, Flat (1/2")				Parts Marked +)
9	800-0091	4	*Screw, Hex Head Cap	23			Kit, PTO (Includes Parts
10	190–0736–03	1	*Guard, Coupling				Marked *)
11	526-2080	4	*Washer, Flat		190–0738	1	12V
12	800–2029	4	*Screw, Hex Head Cap (M6 x 12)		190–0739	1	24V
13	800-0090	2	*Screw, Hex Head Cap				
14	190–0734–03	1	*Bracket, PTO Clutch		De ute la elizida di		
15		1	*Clutch	+ -			Adapter Kit. (Also Includes Mount–
	190–0729–01	1	12V	*			Mounting Base Page)
	190–0729–02	1	24V	^ <u> </u>			Kit. (Also Includes Fuel Pump
16			Shim, PTO		Mounting Har	dware F	Found on Fuel Pump Page)
	190–0756–01	AR	.005				
	190–0756–02	AR	.010				
	190–0756–03	AR	.020				

Intake Manifold



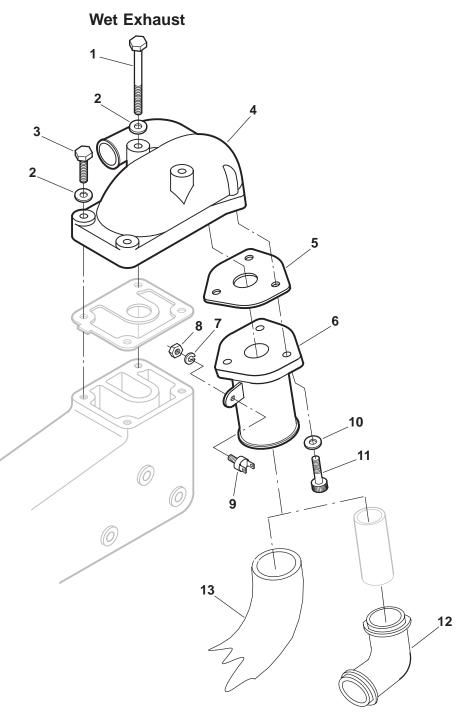
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	185–6715	1	Manifold, Intake	12	850–2010	2	Washer, Lock (M10) (Isolated
2	185–6723	1	Joint, Breather				Ground)
3	185–6035	1	Gasket	13			Relay, Solenoid (Isolated
4	185–2402	7	Bolt				Ground)
5	140–2859	1	Resonator, Intake		307–1617	1	12V
6	140-3048	1	Sleeve, Air Intake		307-2656	1	24V
7	503–1138	1	Clamp, Hose (1–3/8")	14	800–2029	2	Screw, Hex Head Cap
8	503–1143	1	Clamp, Hose (3")				(M6 x 12mm) (Isolated
9	503–1939	1	Hose, Intake (1–3/8" x 28"Lg)				Ground)
10	191–2166–03	1	Bracket, Solenoid Relay (Isolated Ground)	15	526–2080	2	Washer, Flat (M6) (Isolated Ground
11	800–3018	2	Screw, Hex Head Cap (M10 x 16mm) (Isolated Ground)				

Exhaust Manifold



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155–2975	1	*Gasket, Riser/Adapter	5	526–2100	8	Washer, Flat (M8)
2	154–2915	4	Gasket, Exhaust Manifold	6	750–1006	8	Nut (M8 x 1.25)
3	154–2887	1	Manifold, Exhaust				
4	520-2218-01	8	Stud	* _	Part Included	l in Exhaus	st Adapter Kit Found on Dr

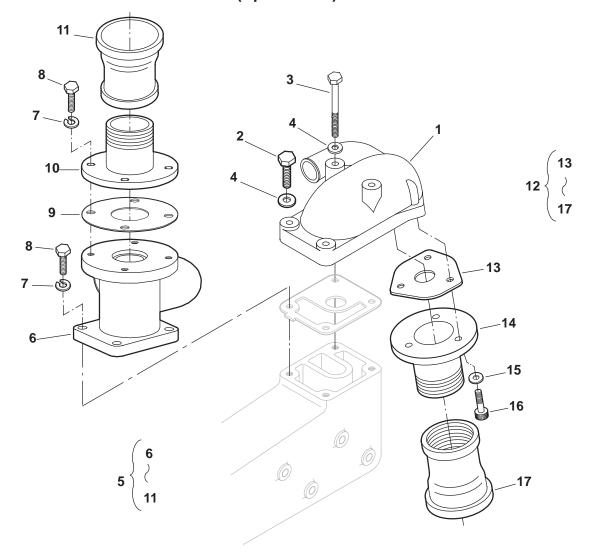
 Part Included in Exhaust Adapter Kit Found on Dry Exhaust Page.



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800–2067	2	Screw, Hex Head Cap (M8 x 1.25 x 70mm)
2	526-2100	4	Washer, Flat (M8)
3	718–1038	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)
4	154–2891	1	Riser
5	155–3061	1	Gasket, Mixer
6			Mixer
	154–2768	1	Spec A–B (5/8")
	154–3006	1	Begin Spec C (3/4")
7	850-0025	1	Washer, Lock (M8)
8	860–0008	1	Nut, Hex (8–32)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	309–0597	1	Switch, High Exhaust Temperature (S5)
10	740–1004	3	Washer, Flat (M6)
11	802–2068	3	Screw, Socket Cap (M6 x 1 x 20mm)
12 13	155–2033	1	Elbow, 90° Exhaust (2") Hose, Exhaust
	503-1963-04	1	2" x 3'
	503-1963-05	1	2" x 5'
	503–1353	1	2" x 10'
	503–1320	1	2" (Bulk Hose)

Dry Exhaust (Up or Down)

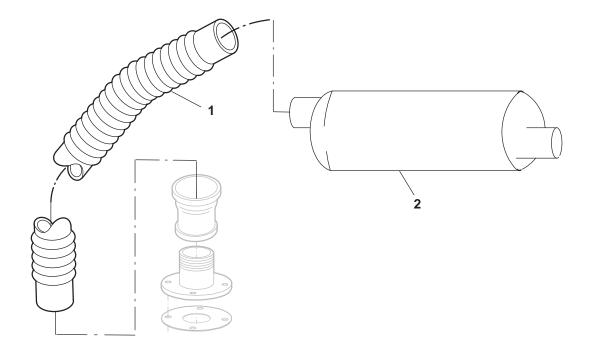


REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION
1	154–2891	1	Riser
2	718–1038	2	Screw, Hex Head Cap (M8 x 1.25 x 30mm)
3	800–2067	2	(M8 x 1.25 x 30mm) Screw, Hex Head Cap (M8 x 1.25 x 70mm)
4	526–2100	4	Washer, Flat (M8)
5	155–2980	1	Kit, Exhaust Adapter (Includes Parts Marked *)
6	154-2963-02	1	*Adapter, Exhaust
7	850-2008	8	*Washer, Lock (M8)
8	800–2058	8	*Screw, Hex Head Cap (M8 x 25mm)
9	155–2981	1	*Gasket, Exhaust Adapter
10	155-3069-02	1	*Flange, Exhaust

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	505-0339-02	1	*Coupling, Reducer (2 x 1–1/2")
12	155–3094	1	Kit, Exhaust Flange (Includes Parts Marked +)
13	155–3061	1	+Gasket, Exhaust
14	155-3068-02	1	+Flange, Exhaust
15	740–1004	3	+Washer, Flat (M6)
16	802–2068	3	+ Screw, Allen Socket Cap (M6 x 1 x 20mm)
17	505-0339-02	1	+Bushing, Reducer (1–1/2 x 2")

* - Parts Included in Exhaust Adapter Kit.(Also Includes Gasket on Exhaust Manifold Page.)
 + - Parts Included in Exhaust Flange Kit.

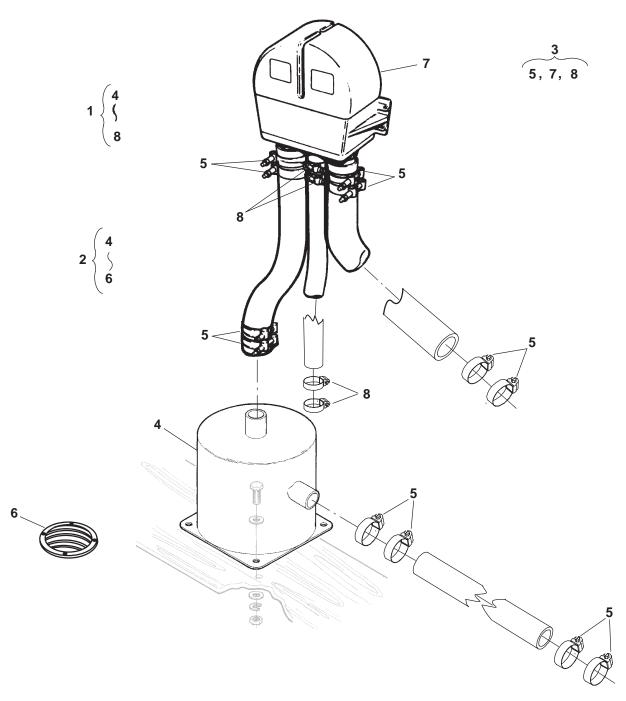
Muffler



REF NO.	PART NO.	QTY USED	
1 2	155–2355–	-04 1	
-	155–2063– 155–2064–	•• •	

PART DESCRIPTION

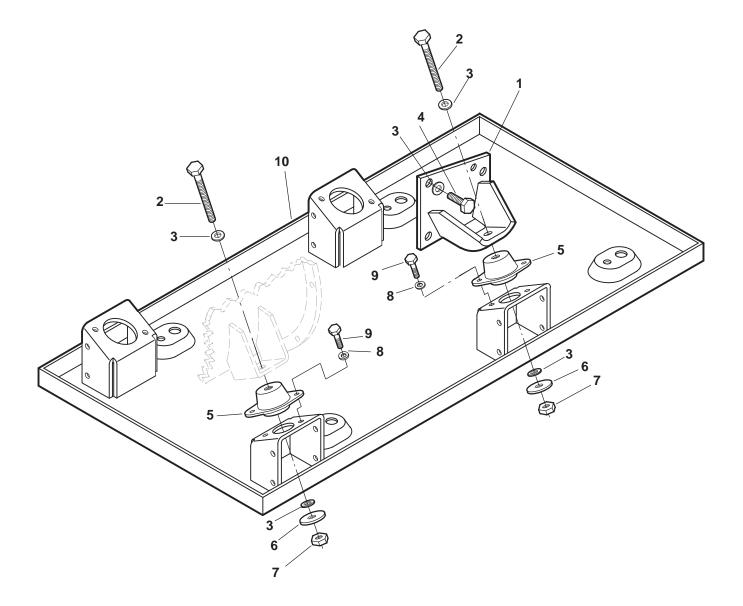
Tube, Flexible Exhaust (2") Muffler, Dry Exhaust (Up) (2") Industrial Critical



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

REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION
6	155–1002		*+Strainer, Water Pickup
7	155–3218		*•Separator, Water (2")
8	503–1139	4	*•Clamp, Hose (1-1/2")

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

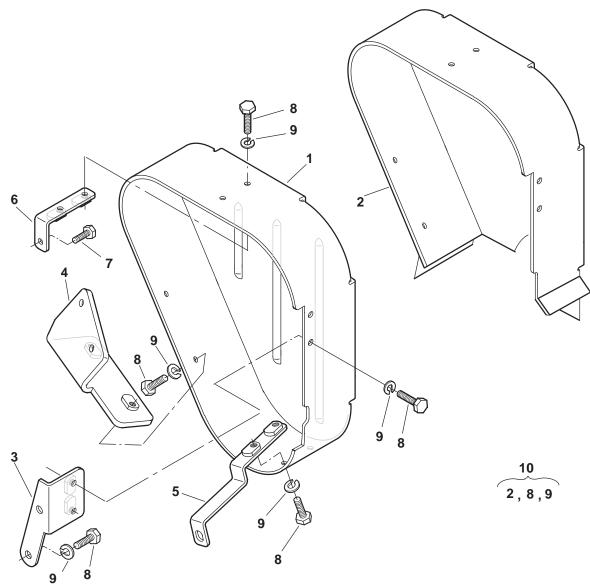


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	RE NC
1	403-4059-03	2	Mount, Engine (W/O PTO)	6
2	800–2118	4	Screw, Cap – Hex Head (M12 x 1.75 x 60mm)	7
3	526-0399-64	15	Washer, Flat (M12)	8
4	800–3031	7	Screw, Cap – Hex Head (M12 x 1.25 x 25mm)	ç
5			Isolator, Mounting	10
	403–3573	4	W/O PTO W/PTO	
	403–3573	2	Generator End	* .
	403–3955	2	* Engine End	

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	526-0172	4	Washer, Flat (M12)
7	750–1010	4	Nut, Hex Machine (M12 x 1.75)
8	526-2106	8	Washer, Flat (M8) (Spec A)
9	821–6003–02	8	Screw, Cap – Hex Head (M8 x 20mm)
10	403-3737-02	1	Base, Generator Mounting

- Part Included in PTO Adapter Kit Found on PTO Page.

Belt Guard

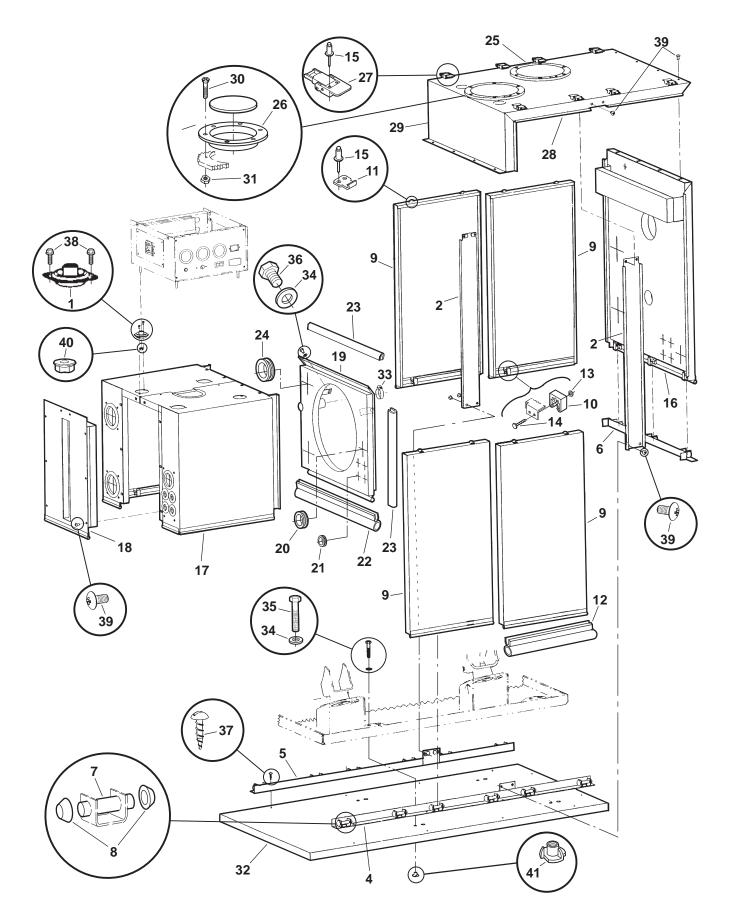


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	RE NC
1			Guard, Belt W/O PTO Spec A–B	7
	130–4331–03 130–4414–03		Negative Ground Isolated Ground Begin Spec C	8
	130-4652-03 130-4714-03	1 1	Negative Ground Isolated Ground	g
2 3 4	130–4633–04 130–4381–03	1 1	*Guard, Belt W/PTO Bracket, Guard Bracket, Guard	
	130–4382–03 130–4411–03	1 1	Negative Ground Isolated Ground	10
5	130–4491–03	1	Bracket, Guard (Negative Ground) (W/O PTO)	*
6	130-4492-03	1	Bracket, Guard (Negative Ground)	<u> </u>

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	718–1047	1	Screw, Hex Head Cap (M8 x 75) (Negative Ground)
8			Screw, Hex Head Cap (M6 x 12)
	800–2029	8	Negative Ground (W/O PTO)
	800–2029	6	* Negative Ground (W/PTO)
	800–2029	4	Isolated Ground
9			Washer, Lock (M6)
	850-2006	8	Negative Ground (W/O PTO)
	850-2006	6	* Negative Ground (W/PTO)
	850-2006	4	Isolated Ground
10	190–0744	1	Kit, PTO Belt Guard (Includes Parts Marked *)

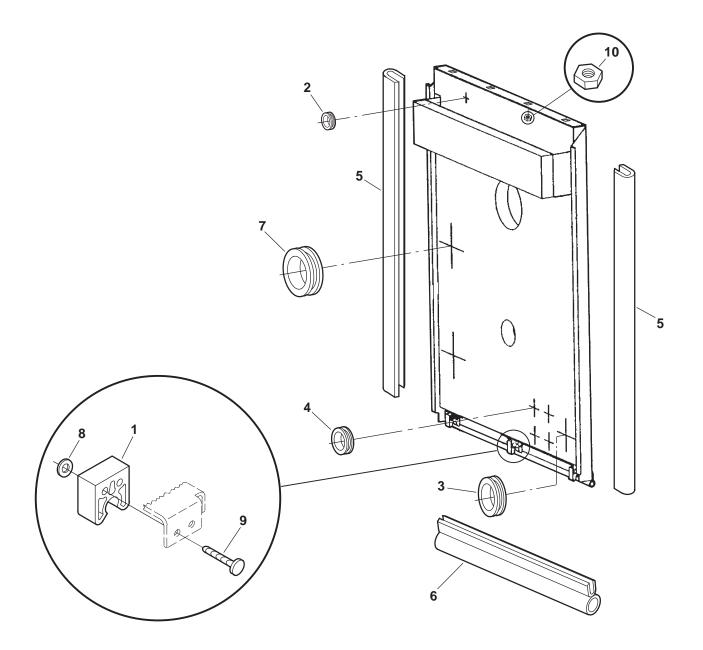
- Parts Included in PTO Belt Guard Kit.

Sound Shield



Sound Shield

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USEC	PART DESCRIPTION
	405 5050	4	Kit, Sound Shield (W/O PTO)	23	508-0210	3	♦ Edging (415mm, 543mm,
	405–5253 405–5252	1 1	MDKAD MDKAE	24	508–1095	2	415mm) ◊Grommet, Rubber
1	402-0681	4	Isolator, Vibration	24	500-1095	2	Roof Assy, Housing
2	405-5013	2	Support Assy, Roof (Includes	20	405–5043–S2	1	Spec A–B (Includes
-		-	Edging)				Parts Marked +)
3	508-0210	4	Edging (632mm)		405-6341-02	1	Begin Spec C (Íncludes
4	405–5015–S1	1	Rail Assy, Door – Left Side				Parts Marked #)
			(Includes Pin and Nut)	26			Cover, Access
5	405–5015–S2	1	Rail Assy, Door – Right Side		405-4528	2	+ Spec A–B
0	405 5040		(Includes Pin and Nut)	07	405-6340	2	# Begin Spec C
6	405–5018	1	Rail Assy, Door – Front	27	406-0528-02		+#Catch, Spring
7	405–3111	15	(Includes Pin and Nut) Pin, Clip	28 29	508–0210 508–0210		+#Edging (289mm) +#Edging (170mm)
8	405–3111 870–0400	30	Nut, Push Cap	29 30	815–0807	2 12	+#Edging (170mm) +Screw, Cross Fillister
9	405–5023–S2	4	Door Assy, Housing (Includes	30	015-0007	12	Recessed
3	+00-0020-02	-	Parts Marked *)	31			Fastener
10	405–1872	2	*Clip, Door	0.	870-0427	12	+ Nut, Hex (#10–24)
11	406-0528-01	2	*Catch, Spring		818-0239-03		# Rivet, Stainless Steel
12	508-1011	1	*Seal, Edge (353mm)	32			Base, Housing
13	526-0003	4	*Washer, Flat (#8)		405-5045-02	1	MDKAD
14	818–0150	4	*Rivet, Drive		405-5045-01	1	MDKAE
15	818–0194	36	+*Rivet, Stainless Steel	33	503–1138	1	Clamp, Hose (1–3/8")
16			Panel Assy, Front (See	34	526-0022	6	Washer, Flat (M8)
			Separate Page for	35	800–0540	4	Screw, Hex Head Cap
			Components)			-	(5/16–18 x 1–5/8")
	405–5026–S2	1	W/O PTO	36	800–2052	2	Screw, Hex Head Cap
	405 5704	4	W/PTO	07	000 0045	10	(M8 x 1.25 x 12mm)
	405–5701 405–5727–02	1 1	TopBottom	37	808–0045	10	Screw, Round Head Sheet Metal (#12 x 1–1/2)
17	405-5727-02	1	Housing Assy, Generator	38	815–0498	8	Screw, Thread Forming Hex
17			(See Separate Page for	50	010-0430	0	Head (#8–32 x 3/8")
			Components)	39			Screw, Truss
			MDKAD	00	815–0765	26	W/O PTO
	405-5034-S2	1	Right Side		815-0765	30	• W/PTO
	405-5036-S2	1	Left Side	40	870-0257	4	Nut, Self–Lock
			MDKAE	41	870–0413	4	Nut, Tee
	405–5034–S1	1	Right Side	42	190–0742	1	Kit, Front Panel (Includes Parts
	405–5036–S1	1	Left Side				Marked •)
18	405–5037	1	Panel, Generator Housing				
40	405 5000		(Includes Edging)	*	Parts Included	in Hou	sing Door Assy.
19	405–5038	1	Baffle Assy, Generator (Includes				erator Baffle Assy.
20	E00 011E	1	Parts Marked ◊) ◊Grommet, Rubber				c A–B Housing Roof Assy.
20 21	508–0115 508–0117	1 4	♦ Grommet, Rubber ♦ Grommet, Rubber		Parts Included		
22	508-0330	4	♦ Seal, Edge (495mm)				t Panel Kit (Includes Qty 4 Screws)
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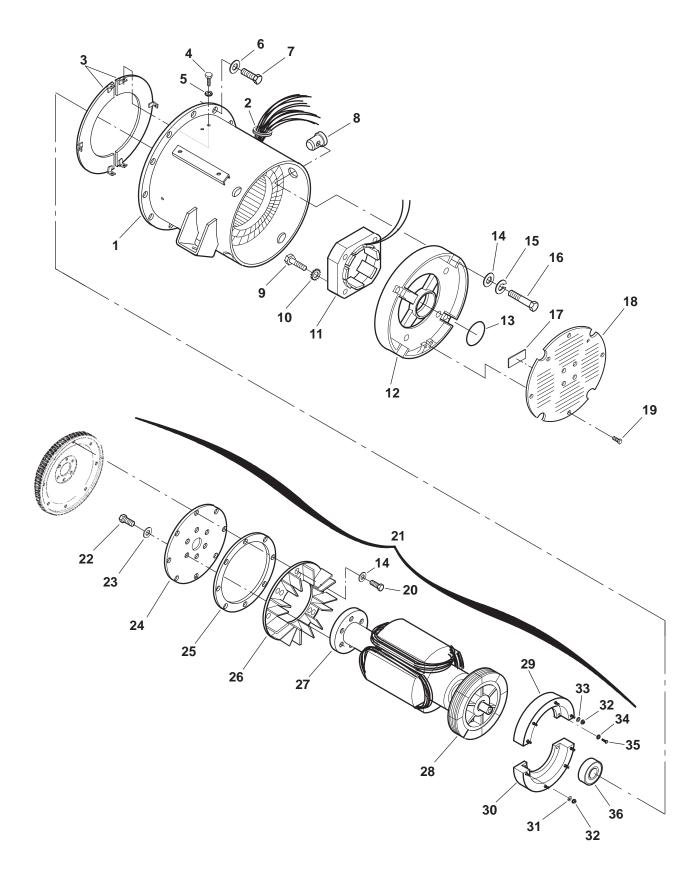


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Panel Assy, Front	4	508–0117	4	Grommet, Rubber
	405-5026	1	W/O PTO	5	508-0210	2	Edging (628mm)
			W/PTO	6	508–1011	1	Seal, Edge (514mm)
	405–5701	1	Тор	7	508–1095	2	Grommet, Rubber
	405-5727-02	1	Bottom	8	526-0003	6	Washer, Flat (#8)
1	405–1872	3	Clip, Door	9	818–0150	6	Rivet, Drive
2	508-0021	1	Grommet, Rubber	10	870–0110	4	Nut, Retainer(1/4–20)
3	508–0115	1	Grommet, Rubber				

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	RI N(EF 0.	PART NO.	QTY USED	PART DESCRIPTION
1 2 3	405–5034–S2 405–5036–S2 405–5036–S1 405–1872 508–0210 508–1011 508–1011	1 1 1 4 4 2 2	Housing, Generator MDKAD Right Side Left Side MDKAE Right Side Left Side Clip, Door Edging (458mm, 94mm, 237mm, 458mm) Seal, Edge MDKAD (388mm) MDKAE (425mm)		5 6 7 8 9 0	508–1011 508–1095 526–0003 818–0150 870–0110 508–0115 508–0117 405–5114	2 2 8 14 1 4 1	Seal, Edge (123mm) Grommet, Rubber (Right Sid Housing) Washer, Flat (#8) Rivet, Drive Nut, Retainer (1/4–20) Grommet, Rubber (Left Side Housing) Grommet, Rubber (Left Side Housing) Insulation, Control Box

508–1011	2	Seal, Edge (123mm)
508–1095	2	Grommet, Rubber (Right Side
		Housing)
526-0003	8	Washer, Flat (#8)
818–0150	8	Rivet, Drive
870–0110	14	Nut, Retainer (1/4–20)
508–0115	1	Grommet, Rubber (Left Side Housing)
508–0117	4	Grommet, Rubber (Left Side Housing)
405–5114	1	Insulation, Control Box

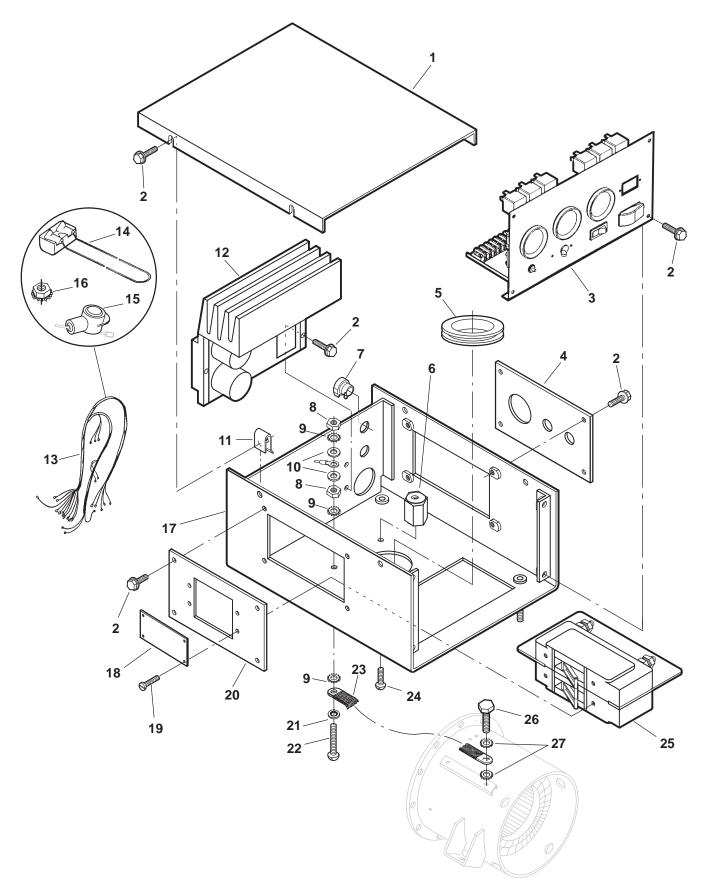
Generator



Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator, Generator	15	850-0114-06	4	Washer, Lock (5/16")
			1 Phase (Includes	16	800-0310-27	4	Screw, Hex Head Cap
			Grommet)				(5/16"–18 x 2–1/2")
			Spec A–B	17	895–0308	1	Tape, Polyurethane (40mm)
	220-4417-02		MDKAD	18	234–0876–01	1	Cover, Inlet
	220-4417-04		MDKAE	19	815–0181	3	Screw, Hex Head Thread
			Begin Spec C				Cutting (#10–32 x 1/2")
	220-4570-02		MDKAD	20	800-0310-36	8	Screw, Hex Head Cap
	220-4570-04		MDKAE				(3/8–16 x 1)
			3 Phase (Includes Parts	21			Rotor Assy, Generator
			Marked +)				(Includes Parts Marked *)
			Spec A–B		201-3517-02	1	MDKAD
	220-4451-02		MDKAD		201-3517-04	1	MKDAE
	220-4451-04		MDKAE	22	800-0310-64	6	*Bolt, Hex Head Cap
			Begin Spec C				(1/2–13 x 1")
	220-4569-02		MDKAD	23	526-0399-44	6	*Washer, Flat (M12)
	220-4569-04		MDKAE	24	232-3672-03	1	*Disc, Drive
2	508–1073	1	+Grommet	25	232-3826-02	1	*Spacer, Fan
3	234-0935-02	2	+Baffle, Air (3 Phase)	26	205-0229-02	1	*Fan, Generator
4	800-0310-02	6	+Screw, Hex Head Cap	27	232-3705-01	1	*Hub, Drive
			(1/4–20 x 1/2") (3 Phase)	28	201-3515-02	1	*Rotor, Exciter
5	853-0040-05	6	+Washer, ET Lock (1/4")	29	358–0069	1	*Diode, Positive
			(3 Phase)	30	358–0070	1	*Diode, Negative
6	526–0174	12	Washer, Flat (3/8)	31	526-0008	2	*Washer, Flat (#10)
7	800-0051	12	Screw, Hex Head Cap	32	870-0131-01	8	*Nut, ET Hex (#10)
			(3/8–16 x 1–1/4)	33	526-0399-11	8	*Washer, Flat (#10)
8	232-3706-02	4	Retainer, Endbell	34	853-0040-04	4	*Washer, ET Lock (#10)
9	815–0935	4	Screw, Hex Head Thread Forming (1/4–20 x 2")	35	822–2160–37	4	*Screw, Pan Head Machine (#10–32 x 1/2)
10	853-0013	4	Washer, ET Lock (1/4")	36	510-0112	1	*Bearing, Ball
11	220-4413-02	1	Stator, Exciter			-	
12	211-0435-01	1	Endbell				
13	509-0094	1	Seal, O'Ring	+ -	Parts Include in	13 Phas	se Generator Stator.
14	526-0399-42	12	Washer, Flat (3/8)	* _	Parts Included	in Gene	rator Rotor Assy.

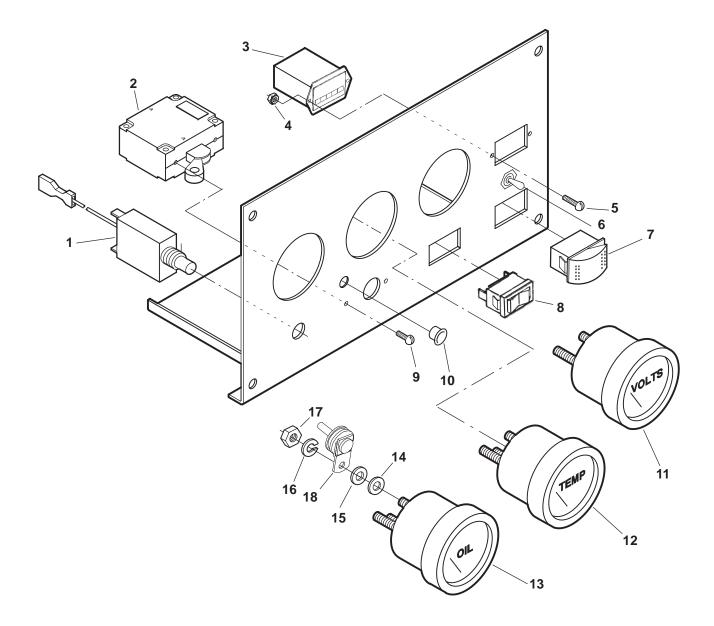
Control Box



Control Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319–2106–04	1	Cover, Control Box	21	854–0014	1	Washer, IT Lock
2	821-0005	19	Screw, Lock Head Flange	22	810-0155	1	Bolt, Brass (1/4–20 x 1–1.4")
			(#10–32 x 1/2")	23	337–2795	1	Strap, Bond
3			Panel Assy, Control (See	24	821-0008	1	Screw, Round Head Machine
			Separate Page for				(1/4–20 x 5/16")
			Components)	25			Breaker, Circuit (CB2)
			With Gauges				Single Pole (Use with Cover)
			12V		320-1690-10	1	55A
	300-4658	1	Negative Ground		320-1690-03		60A
	300–4872	1	Isolated Ground		320-1690-11	1	65A
	000 4000		24V		320-1690-12		75A
	300-4662	1	Negative Ground		320-1690-13	1	85A
	300–4874	1	Isolated Ground		220 4000 00	4	Two Pole
			Without Gauges 12V		320-1689-08	1	50A
	300–4659	1	Negative Ground		320-1689-09 320-1689-10	1 1	55A 60A
	300-4873	1	Isolated Ground		320-1689-11	1	65A
	500-4075	1	24V		320-1689-12		70A
	300–4663	1	Negative Ground		320-1689-13		75A
	300-4875	1	Isolated Ground		320-1689-15	1	85A
4	319-2114-03	1	Cover, Breaker		320-1689-17	1	95A
5	508–0116	1	Grommet		020 .000	•	Three Pole
6	332-2370	1	Standoff		320-1891-03	1	20A
7	508-0179	1	Bushing, Strain Relief		320-1891-01	1	25A
8	871–0016	2	Nut, (1/4–32)		320-1891-02	1	30A
9	856-0006	3	Washer, ET (1/4–20)		320-1891-04	1	35A
10	526-0052	2	Washer, Brass (1/4–20)		320-1836-06	1	40A
11	870–0398	4	Clip, Nut (#10–32)		320-1836-07	1	45A
12	305–0896	1	Regulator, Voltage (SRA)		320-1836-08	1	50A
13			Harness, Engine (Includes		320-1836-09	1	55A
			Circuit Breaker, Boot and Nuts)		320-1836-10	1	60A
	338–2930	1	Spec A–B		320-1836-11	1	65A
	338–3387	1	Begin Spec C		320-1836-12	1	70A
14	000 4050		Breaker, Circuit (CB3)(40A)	00	320-1836-13	1	75A
	320-1658	1	Spec A–B	26	718–1036	1	Screw, Hex Head Cap
15	320-1928-01	1	Begin Spec C	27	956 0009	2	(M8 x 20mm)
15	416-1021-03	1	Boot	27	856-0008	2	Washer, EIT Lock
16 17	870–0131 319–2107–03	2 1	Nut, ET Hex (10–32) Box, Control	Shin	nod Looso in P	lactic Re	
18	320–1813–02	1	Cover, Plate (Use with Single	Ship	ped Loose in P		ıy.
10	520-1015-02	1	Pole Circuit Breaker)		323–1591	2	Plug, Seal
19			Screw, Cross Recessed ET		323–1543	1	Wedge, Plug
10			Pan Head (#6–32 x 3/8")		323–1541	1	Plug (8 Pin)
	815-0550-01	4	1 Phase Sets		020 1011	•	1 1 4 9 (0 1 11)
	815-0550-01	6	3 Phase Sets				
20		-	Panel, Breaker				
	319-2108-03	1	1 Phase				
	319–2113–03	1	3 Phase				

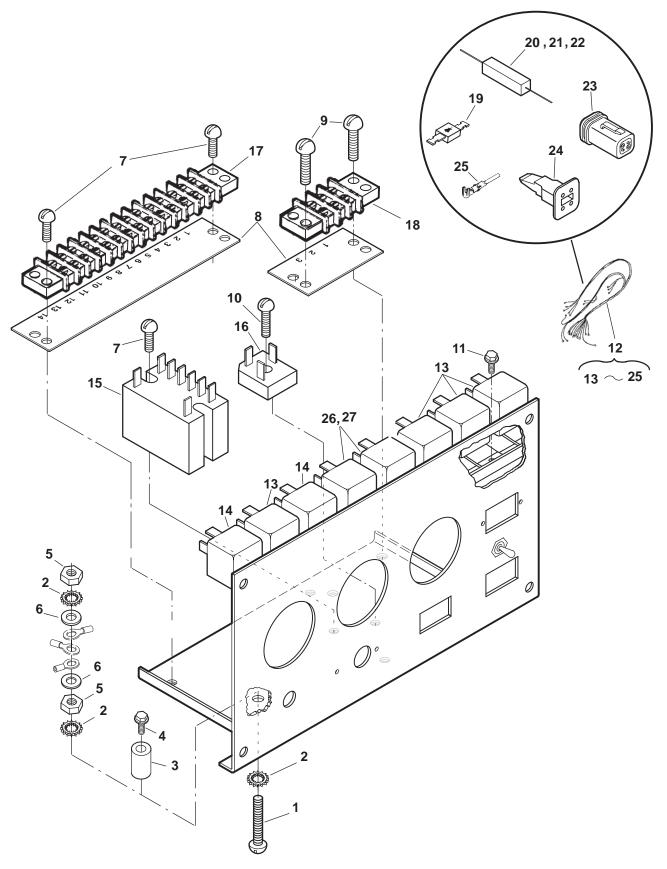
Control Panel



Control Panel

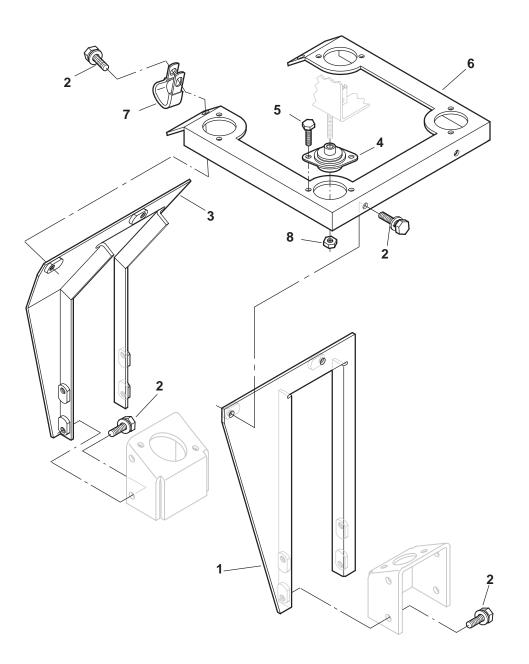
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Panel Assy, Control (Includes	2	320-1862-01	1	*Breaker, Circuit (50A) (CB1)
			Parts Marked *)	3	302-0885	1	*Meter, Time Totalizing (M1)
			Spec A	4	870–0183	2	*Nut, ET Hex (#6–32)
			With Gauges	5	815-0385	2	*Screw, Round Head Machine
			12V Sets				(#6–32 x 1/2")
	300–4658	1	Negative Ground	6	320-1769-01	1	Breaker, Circuit (2A) (Begin
	300–4872	1	Isolated Ground				Spec B)
			24V Sets	7	308–1027	1	*Switch, Rocker (S1)
	300–4662	1	Negative Ground	8			*Breaker, Circuit (CB4)
	300–4874	1	Isolated Ground		320–1710	1	12V Sets (20A)
			Without Gauges		320–1140	1	24V Sets (15A)
			12V Sets	9	812–0059	2	*Screw, Round Head Machine
	300–4659	1	Negative Ground				(6–32 x 1/4")
	300–4873	1	Isolated Ground	10	517-0131-02	1	Plug, Button
			24V Sets	11			*Voltmeter (M4)
	300–4663	1	Negative Ground		302–1641	1	12V Sets (8–18V)
	300–4875		Isolated Ground		302–1642	1	24V Sets (16–36V)
			Begin Spec B With Gauges	12	193–0351	1	*Gauge, Coolant Temperature (M3)
			12V Sets	13	193–0352	1	*Gauge, Oil Pressure (M2)
	300–5243	1	Negative Ground	14	526-0409	8	*Washer, Nylon Flat (#10)
	300–5244	1	Isolated Ground	15	526-0049	8	*Washer, Brass Flat (#10)
			24V Sets	16	850-0030	8	*Washer, Lock (#10)
	300–5245	1	Negative Ground	17	871–0010	10	*Nut, Hex Brass Machine
	300–5246	1	Isolated Ground				(#10–32)
			Without Gauges 12V Sets	18	193–0250	2	*Resistor (24V Sets With Gauges) (R4, R5)
	300-5247	1	Negative Ground				
	300–5248	1	Isolated Ground				
			24V Sets	* —			rol Panel Assy (Also include Parts
	300–5249	1	Negative Ground		Marked on Co	ontrol Ha	arness Page).
	300-5250		Isolated Ground				
1	320–1863	1	*Breaker Assy (Includes Terminal)				

Control Harness



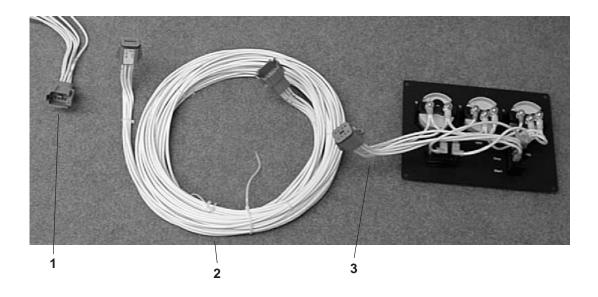
Control Harness

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION			
1			*Screw	14			+Relay (K5, K8)			
	810-0155	1	Round Head Machine		307-2817-01	2	12V Sets			
			Brass (1/4–20 x 1–1/4")		307-2817-02	2	24V Sets			
			(Negative Ground)	15			+Relay (K4)			
	821-0010	1	Lock Head (1/4–20 x 1/2")		307-2828-01	1	12V Sets			
			(Isolated Ground)		307-2828-02	1	24V Sets			
2			*Washer		305–0548	1	+Rectifier, Bridge (CR1)			
	856–0006	3	Lock EIT (1/4") (Negative Gound)	17	332–3385	1	+Block, Terminal (14 Position) (TB2)			
	526-0052	1	Brass Flat (1/4") (Isolated Ground)	18	332–3297	1	+Block, Terminal (3 Position) (TB1)			
3	332–2370	1	*Standoff, Insulator (Isolated Ground)	19 20	357–0030	3	+Rectifier (CR2, CR3, CR4) +Resistor (R1)			
4	821-0008	1	*Screw, Lock Head (Isolated		353-0053	1	12V Sets (10 Ohms, 10W)			
			Ground)		352–0197	1	24V Sets (36 Ohms, 15W)			
			(1/4–20 x 5/16")	21			+Resistor (R2)			
5	871–0016	2	*Nut, Hex Brass Machine		352–0194	1	12V Sets (10 Ohms, 5W)			
			(1/4–20) (Negative Ground)		352–0196	1	24V Sets (24 Ohms, 10W)			
6	526-0052	2	*Washer, Brass Flat (1/4")	22			+Resistor (R3)			
_			(Negative Ground)		352-0195	1	12V Sets (8.5 Ohms, 5W)			
7	812–0079	4	*Screw, Round Head Machine	~~~	352-0198	1	24V Sets (18 Ohms, 10W)			
~			(#8–32 x 3/8")		323-1546	1	+Plug, (4 Pin) (P2)			
8			*Marker, Strip		323-1548	1	+Wedge, Plug (P2)			
	332-3296	1	14 Pos.	25	323–1492	4	+Pin (P2)			
0	332-3298	1	3 Pos.	26			Harness, Relay (Includes			
9	813–0102	2	*Screw, Round Head Machine (10–32 x 5/8")				Relay) (Isolated Ground) 12V			
10	815–0539	1	*Screw, Round Head Machine		338-3383-01	1	K10, 7" (3 Leads)			
	004 0004	0	(#8–32 x 5/8")		338-3383-02	1	K11, 3" (4 Leads)			
11	821–0004	6	*Screw, Lock (#10–32 x 5/16")				24V			
12			*Harness, Control (Includes		338-3383-03		K10, 7" (3 Leads)			
			Parts Marked +)	07	338–3383–04	1	K11, 3" (4 Leads)			
	220 2246	4	With Gauges	27			Relay, K10, K11			
	338–3246 338–3248	1 1	12V Sets 24V Sets		307–1886	4	(Isolated Ground) 12V			
	330-3240	I	Without Gauges		307–2654	1 1	24V			
	338–3247	1	12V Sets		307-2034	1	24 V			
	338-3249	1	24V Sets							
13	550-5243	I	+Relay (K1, K2, K3, K6)	* —	Parts Included	in Cont	rol Panel Assy Listed on Control			
10	307–1886									
	307–2643	4	24V Sets	+ -	+ – Parts Included in Control Harness.					



REF	PART	QTY	PART	REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	319-2493-03	1	Support, Control Bracket	6	319–2954–04	1	Bracket, Control Mounting
2	821-6003-02	12	Bolt (M8 x 16)	7	503–2040	1	Clip, Tube
3	319-2494-03	1	Support, Control Bracket	8	870-0257	4	Nut, Self–Lock
4	402-0681	4	Isolator, Vibration				
5	815–0498	8	Screw, Hex Head Thread Forming				

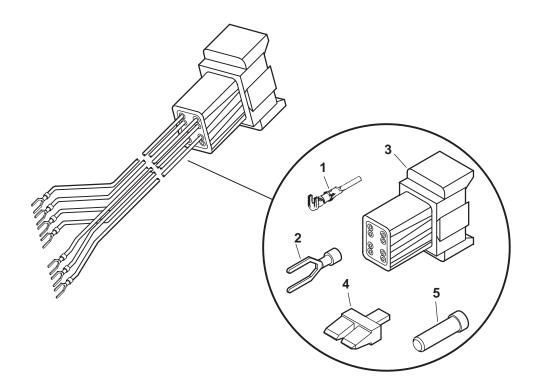
Harness Location



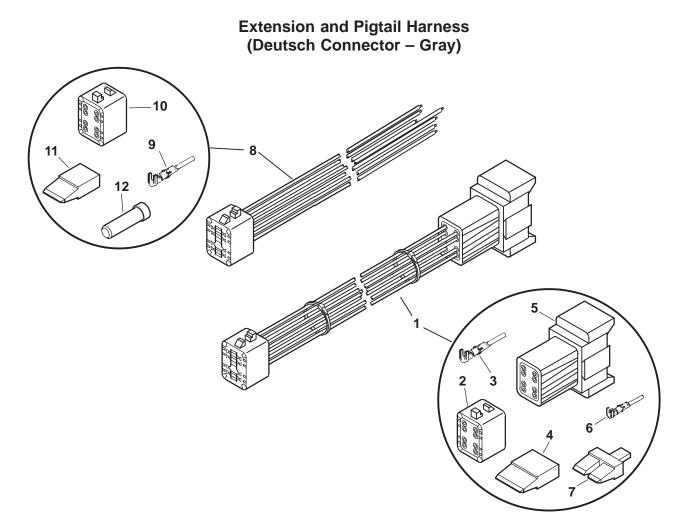
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	*	-	Harness, Remote Control (Reaches From Control Terminal Board to Extension or Customer Interface Pigtail Harness)
2	*	-	Harness, Extension (Or Customer Interface Pigtail) (Reaches From Remote Control Harness to Remote Panel Harness or Customer Hookup)
3	*	_	Harness, Remote Panel (Reaches From Remote Panel to Extension Harness)

* - See Index for Page Numbers of Detailed Descriptions and Part Numbers.

Remote Control Harness



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	338–3093	1	Harness, Remote Control (21")	1	323–1492	7	°Terminal, Pin
			(Reaches From Terminal Block	2	332–2683	7	°Terminal, Spade
			to Extension Harness or	3	323–1542	1	°Housing, Receptacle (8 Pin)
			Customer Interface Pigtail	4	323–1544	1	°Wedge, Receptacle (8 Pin)
			Harness)	5	323–1591	1	°Plug



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Extension	6	323–1491	8	#Terminal, Pin
			(Reaches From Remote	7	323–1544	1	#Wedge, Receptacle (8 Pin)
			Control Harness to Remote	8	338–3098	1	Harness, Pigtail (Customer
			Panel Harness) (Includes				Interface) (12") (Reaches
			Parts Marked #)				from Remote Control Harness
	338–3167	1	15 feet				to Customer Hookup)
	338–3168	1	25 feet				(Includes Parts Marked *)
	338-3169-00	1	45 feet	9	323–1492	7	*Terminal, Socket
	338-3169-01	1	75 feet	10	323–1541	1	*Plug (8 Pin)
	338-3169-02	1	100 feet	11	323–1543	1	*Wedge, Plug (8 Pin)
	338-3169-03	1	150 feet	12	323–1591	1	*Plug, Connector
2	323–1541	1	#Plug (8 Pin)				
3	323–1492	8	#Terminal, Socket				
4	323–1543	1	#Wedge, Plug (8 Pin)				nsion Harness.
5	323–1542	1	#Receptacle (8 Pin)	* –	Parts Include	d in Pigta	ail (Customer Interface) Harness.

Basic Remote Control Panel (Ring Terminals) 0 2 REF PART QTY REF PART QTY PART PART USED NO. NO. DESCRIPTION NO. NO. USED DESCRIPTION Panel Assy, Remote 332-1445 2 *Tie, Cable 4 300-4679 1 12V 5 323-1591 3 *Plug, Connector 300-4680 24V 6 323-1543 *Wedge, Plug (8 Pin) 1 1 1 319-0491 Panel, Remote Switch, Rocker 1 7 2 338-3170 Harness, Remote Panel 308-0827 12V 1 1

(Reaches From Remote Panel

to Extension Harness)

		(Includes Parts Marked *)
3 323–1	541 1	*Plug (8 Pin)

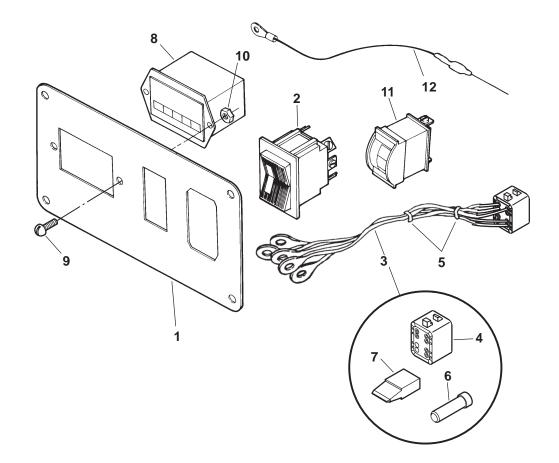
* - Parts Included in Remote Panel Harness.

1

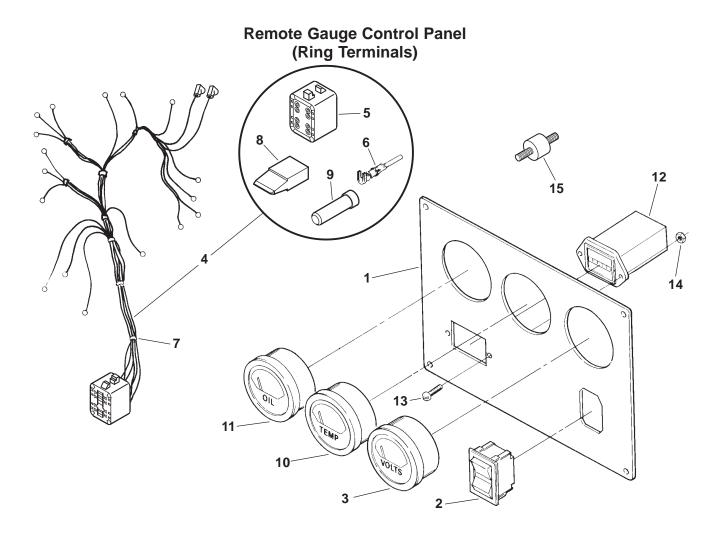
24V

308-0975

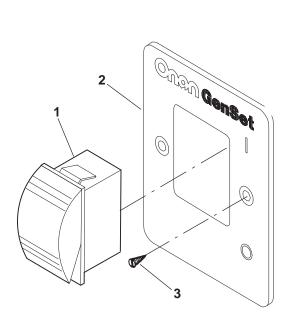
Deluxe Remote Control Panel (Ring Terminals)

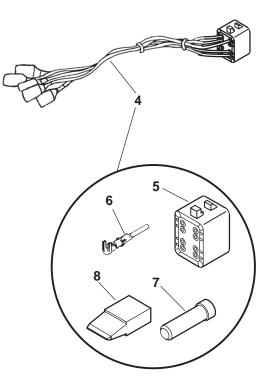


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300–4681	1	Panel Assy, Deluxe Remote	7	323–1543	1	*Wedge, Plug (8 Pin)
			(12V Only)	8	302–0885	1	Meter, Running Time (M11)
1	319–0492	1	Panel, Remote	9	815–0385	2	Screw, Round Head Machine
2	308–0827	1	Switch, Rocker				(#6–32 x 1/2")
3	338–3170	1	Harness, Remote Panel	10	870–0183	2	Nut, Hex (#6–32)
			(Reaches From Remote Panel	11	302-0888	1	Meter, Battery Voltage (M14)
			to Extension Harness) (Includes Parts Marked *)	12	359–0034	1	Diode and Lead Assy
4	323–1541	1	*Plug (8 Pin)	*			
5	332–1445	2	*Tie, Cable	^ <u> </u>	Parts Include	d in Rem	ote Panel Wiring Harness.
6	323–1591	3	*Plug, Connector				



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Panel Assy, Remote Gauge	6	323–1491	1	*Pin, Contact (Use as Required)
	300–4547	1	12V	7	332–0942	8	*Tie, Cable
	300–4684	1	24V	8	323–1543	1	*Wedge, Plug (8 Pin)
1	319–0141	1	Panel, Remote	9	323–1591	1	*Plug, Seal
2			Switch, Rocker	10	193–0351	1	Gauge, Water Temperature
	308–0827	1	12V				(M13)
	308–0975	1	24V	11	193–0352	1	Gauge, Oil Pressure (M12)
3			Meter, Voltage (M14)	12	302–0885	1	Meter, Running Time (M11)
	302–1641	1	12V (8–18V)	13	815–0385	2	Screw, Round Head Machine
	302–1642	1	24V (18–34V)				(#6–32 x 1/2")
4	338–3171	1	Harness, Remote Panel	14	870–0183	2	Nut, Hex (#6–32)
			(Reaches From Remote Panel to Extension Harness) (Includes Parts Marked *)	15	193–0250	2	Resistor, Gauge (24V Only)
5	323–1541	1	*Plug (8 Pin)	·· _	Parts include	a in Rem	ote Panel Harness.



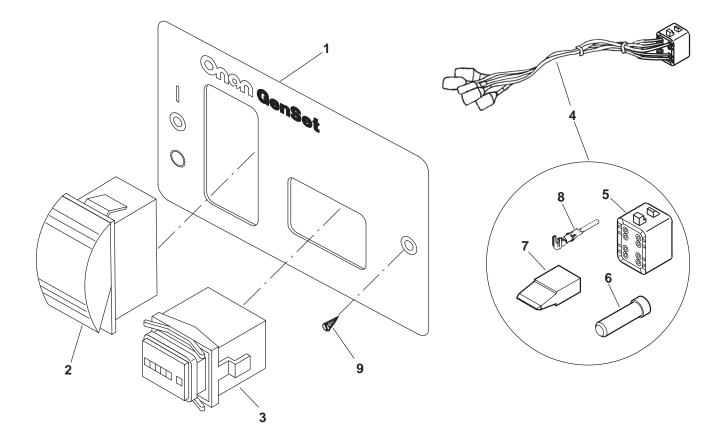


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Basic Panel
	300-4990-01	1	12V
	300-4990-02	1	24V
1			Switch, Rocker (S11)
	308-1062	1	12V
	308-1062-01	1	24V
2	319–2339–02	1	Panel, Remote (Includes Printing)
3	815–0910	2	Screw, Wood (#6 x 1)
4	338–3598	1	Harness, Remote Panel (Reaches From Remote Panel
			to Extension Harness) (Includes Parts Marked *)

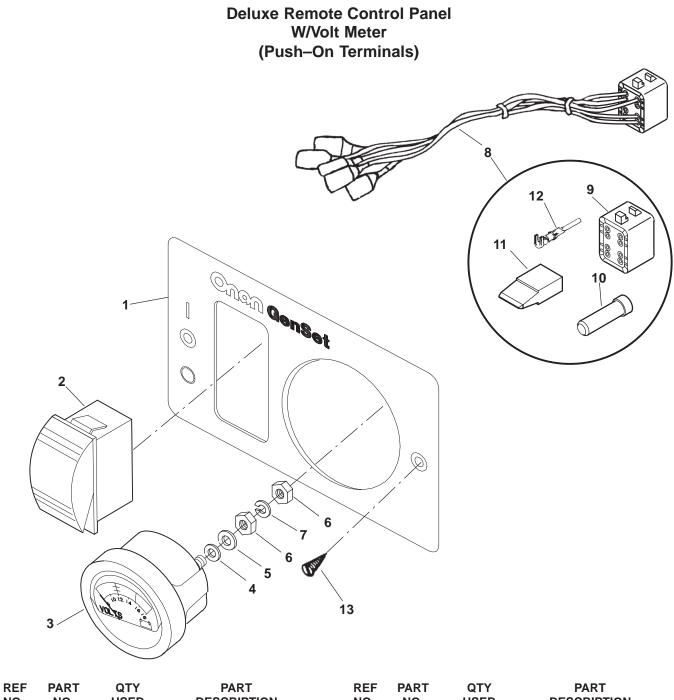
REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION
6 7	323–1541 323–1492 323–1591 323–1543	1 5 3 1	*Plug (8 Pin) (J4) *Pin, Contact *Plug, Seal *Wedge, Plug (8 Pin)

* - Parts Included in Remote Panel Harness.

Deluxe Remote Control Panel W/Hour Meter (Push–On Terminals)

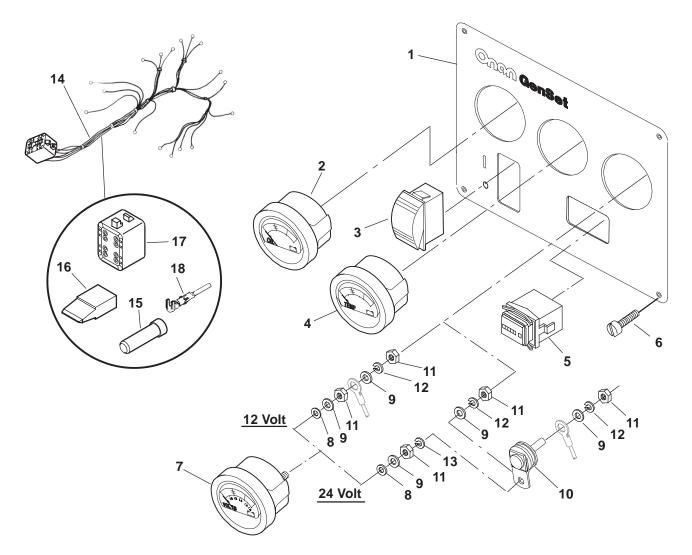


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Deluxe Panel	5	323–1541	1	*Plug (8 Pin) (J4)
	300-4991-01	1	12V	6	323–1591	3	*Plug, Connector
	300-4991-02	1	24V	7	323–1543	1	*Wedge, Plug (8 Pin)
1	319-2340-04	1	Panel, Remote	8	323–1492	5	*Pin, Contact
2			Switch, Rocker (S11)	9	815–0910	2	Screw, Wood (#6 x 1)
	308-1062	1	12V				
	308-1062-01	1	24V				
3	302-2002	1	Meter, Hour (M11)	* _	Parts Include	d in Rem	ote Panel Wiring Harness.
4	338–3599	1	Harness, Remote Panel (Reaches From Remote Panel to Extension Harness) (Includes Parts Marked *)				



NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
			Kit, Remote Panel	7	850-0030	2	Washer, Lock
	300-4989-01	1	12V	8	338–3597	1	Harness, Remote Panel
	300-4989-02	1	24V				(Reaches From Remote Panel
1	319-3132-01	1	Panel, Remote				to Extension Harness)
2			Switch, Rocker (S11)				(Includes Parts Marked *)
	308-1062	1	12V	9	323–1541	1	*Plug (8 Pin) (J4)
	308-1062-01	1	24V	10	323–1591	3	*Plug, Connector
3			Meter, Volt (M14)	11	323–1543	1	*Wedge, Plug (8 Pin)
	302–1641	1	12V (8–18V)	12	323–1492	5	*Pin, Contact
	302-1642	1	24V (16–36V)	13	815–0910	2	Screw, Wood (#6 x 1)
4	526-0409	2	Washer, Nylon				
5	526-0049	4	Washer, Flat				
6	871–0010	4	Nut, Hex Brass (10-32)	* _	 * – Parts Included in Remote Panel Wiring Harness. 		ote Panel Wiring Harness.

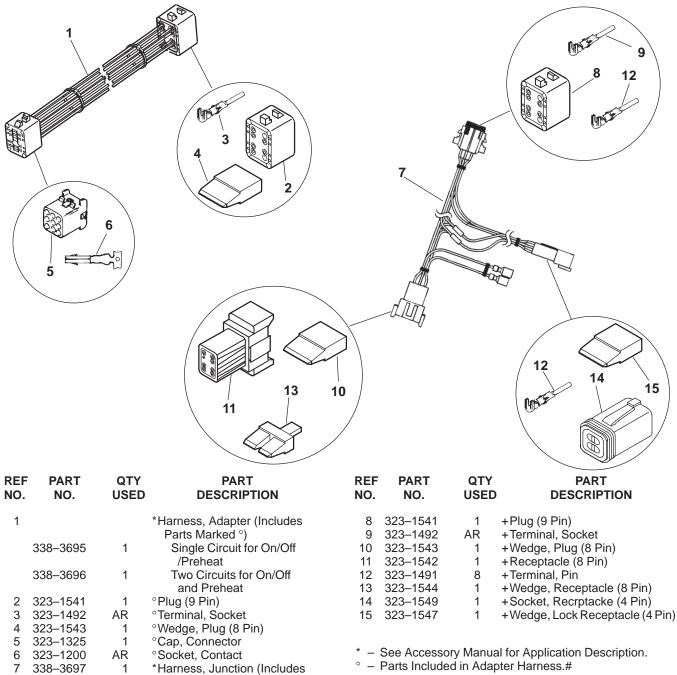
Remote Gauge Control Panel (Push–On Terminals)



REF NO.		QTY USED	PART DESCRIPTION
	200 5018 01	1	Kit, Remote Gauge Panel
	300-5018-01	•	
	300-5018-02		24V
1	319-3254-02	1	Panel, Remote
2	193–0352	1	Gauge, Oil Pressure (M12)
3			Switch, Rocker (SPDT) (S11)
	308-1062	1	12V Sets
	308-1062-01	1	24V Sets
4	193–0351	1	Gauge, Water Temperature (M13)
5	302-2002	1	Meter, Running Time (M11)
6	808–0023	4	Screw, Pan Head Sheet Metal (#8 x .50)
7			Meter, Volt (M14)
	302-1641	1	12V Sets (8–18V)
	302-1642	1	24V Sets (18–34V)
8 9	526-0409	8	Washer, Nylon (.194") Washer, Brass Flat (#10–32)
3	526-0049	16	12V
	526-0049	18	24V

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10 11	193–0250	1	Resistor (24V Only) Nut, Brass Hex (#10–32)
11	871–0010	16	12V
	871-0010	18	24V
12			Washer, Lock (#10)
	850-0030	8	12V
	850-0030	10	24V
13	853–0008	1	Washer, ET Lock (#10) (24V Only)
14	338–3625	1	Harness, Remote Panel (Reaches From Remote Panel to Extension Harness) (Includes Parts Marked +)
15	323–1591	1	+Plug, Seal
16	323–1543	1	+Wedge, Plug (8 Pin)
17	323–1541	1	+Plug (8 Pin) (P4)
18	323–1492	7	+Contact, Socket

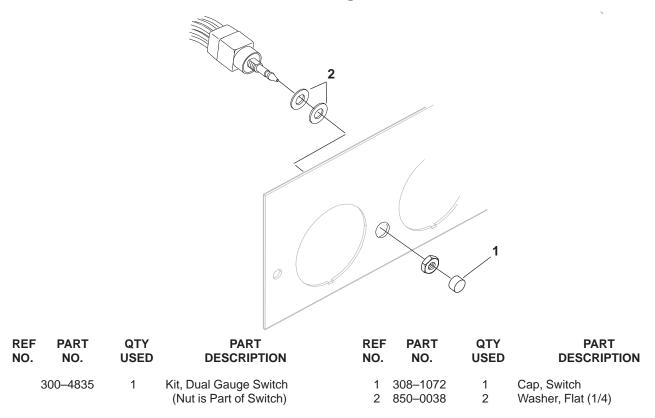
+ - Parts Included in Remote Panel Harness



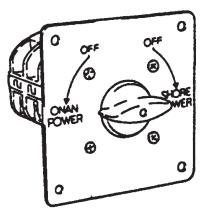
Parts Marked +)

+ - Parts Included in Remote Extension Harness.

Dual Gauge Switch



Manual Transfer Switch



REF	PART	QTY	PART
NO.	NO.	USED	DESCRIPTION
	308–0269 308–0270	1 1	Switch, On Shore/Off Shore Rotary 120V (2 Wire) 120/240V (3 Wire)

Isolated Ground System Unique Parts*

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Isolated Ground Insulation Assy		130-4411-03		Bracket, Belt Guard (Bottom)
	337–2832	1	Isolator, Ground		130-4414-03		Guard, Belt
	337-2833-02	1	Strip, Ground		800–2029	2	Screw, Hex Head Cap
	802–0038	1	Screw, Socket Head (1/4–20 x 1.5")				(M6 x 12mm)
	802–0057	1	Screw, Socket Head (5/16–18 x 1.5")				Panel Assy, Control (Includes But is Not Limited to Parts
	856-0006	1	Washer, EIT Lock (1/4")				Marked °)
	856-0008	1	Washer, EIT Lock (5/16")				Without Gauges
	862-0001	1	Nut, Hex (1/4–20)		300–4873	1	12V
	862-0015	1	Nut, Hex (5/16–18)		300–4875	1	24V
	800–2115	1	Screw, Hex Head Cap				With Gauges
			(M12 x 45mm)		300–4872	1	12V
					300–4874	1	24V
			Alternator, Complete				°Marker, Strip (14 Pos.)
	191–2169–01	1	12V		332–3296	1	14 Pos.
	191-2169-02	1	24V		332–3298	1	3 Pos.
	191–2168–03	1	Bracket, Adjusting		821–0010	1	°Screw, Lock Head
	800–0104	1	Bolt				(1/4–20 x .5")
	850-0060	1	Washer, Spring		821–0008	1	°Screw, Lock Head
	526-0045	1	Washer, Lock				(1/4–20 x .312)
	800–0028	1	Screw, Hex Head Cap		526-0052	1	°Washer, Flat Brass (1/4")
			(5/16–18 x 1)		332–2370	1	°Standoff, Insulator
	850–0045	1	Washer, Spring				
	511–0186	1	Belt				Relay, Solenoid
	526-0219	1	Washer, Flat		307–1617	1	12V
	862–0016	1	Nut		307–2656	1	24V
	191–2170	1	Pulley, Alternator		191–2166–03	1	Bracket, Solenoid Relay
	718–1048	1	Screw, Hex Head Cap (M8 x 80)				(Isolated Ground)
	800–2100	1	Screw, Hex Head Cap (M10 x 100)		800–3018	2	Screw, Hex Head Cap (M10 x 16mm) (Isolated
	526–2133	1	Washer, (M10)				Ground)
	850–2010	1	Washer, Lock (M10)		526-2080	2	Washer, Flat (M6) (Isolated
	750–1008	1	Nut, Hex (M10)				Ground)
	309–0578	1	Switch, Pressure				
	193–0415	1	Sender, Low Coolant				d Here for Handy Reference. Also
	309–0576	1	Thermostat				Pages Throughout This Book.

Parts Included in Control Panel Assy.

Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
ç	98–5948	1	Decal, Front Panel – Basic				Label, Control Top
			Remote Control		98–6862	1	Spec A–B
g	98–5945	1	Decal, Rear Panel – Basic		98–7567	1	Begin Spec C
			Remote Control		98–5161	1	Label, Coolant (Housed Sets)
g	98–5947	1	Decal, Front Panel – Deluxe		98–5347	1	Label, Danger (Voltge)
			Remote Control		98–2235	1	Label, Ground
g	98–5944	1	Decal, Rear Panel – Deluxe		98–6997	1	Label, Lifting Eye (Housed Sets)
			Remote Control				Label, No Step
g	98–5803	1	Decal, Front Panel – Remote		98–6996	1	Unhoused Sets
			Gauge Control		98–6996	2	Housed Sets
g	98–5761	1	Decal, Rear Panel – Remote		98–1714	1	Label, Onan (Housed Sets)
			Gauge Control		98–6388–01	1	Label, Phone Info
			Label, Control Back		98–6953	1	Label, Reconn Chart
g	98–6861	1	Spec A–B		98–6757	1	Label, Voltage Regulator
g	98–7566	1	Begin Spec C		98–5667	1	Label, Warning (Coolant)
			Label, Control Front				(Housed Sets)
			Spec A–B		98–5755	1	Label, Warning (Backfeed)
g	98–6860	1	With Gauges		98–6995	5	Label, Warning (Housed Sets)
g	98–6925	1	Without Gauges		98-6074-02	1	Label, Warning (Operation)
			Begin Spec C		98–4798–01	1	Label, Warning (Rotating Parts)
ç	98–7564	1	With Gauges				(Unhoused Sets)
ç	98–7565	1	Without Gauges		98–7541	1	Label, Zinc Anodé

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