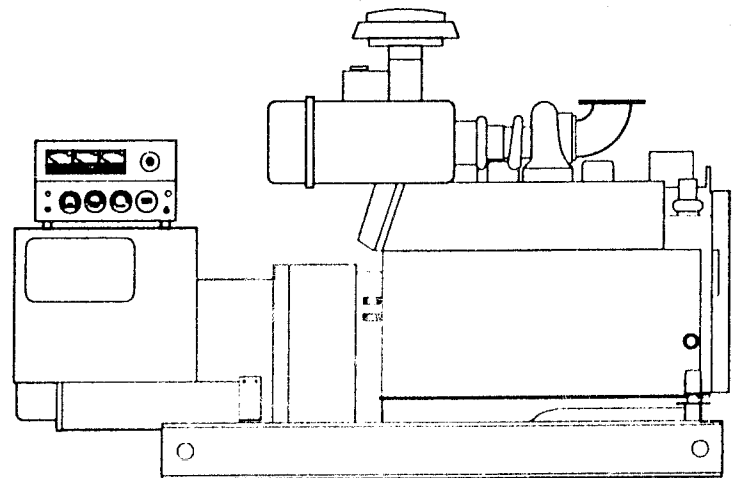


PARTS CATALOG

MCGBA	MCGDA	MDGBA	MDGDA
MCGCA	MCGDB	MDGCA	MDGDB
MCGCB	MCGGA	MDGCB	MDGGA

Sea Aux / ADMIRAL

Marine Generating Sets



960-0200
9-92 (Spec A-C)
Replaces 12-90 (Spec A)
Printed in U.S.A.

Introduction

This catalog applies to Onan Generator Models MCGBA, MCGCA, MCGCB, MCGDA, MCGDB, MCGGA, MDGBA, MDGCA, MDGCB, MDGDA, MDGDB, and MDGGA, 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.

Some parts list a second source for obtaining service replacement parts. A list of distributors and their addresses are located toward the rear of this catalog.

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

<u>Onan/Cummins Generator Model</u>		<u>Cummins Engine Model</u>	<u>Cummins Engine Spec No.</u>
30MCGBA	30MDGBA	4B3.9-G(M)	SES1770
35MCGBA	35MDGBA	4B3.9-G(M)	SES1770
35MCGCA	35MDGCA	4BT3.9-G1(M)	SES1771
40MCGCB	40MDGCB	4BT3.9-G2(M)	SES1772
45MCGCA	45MDGCA	4BT3.9-G1(M)	SES1771
45MCGGA	45MDGGA	6B5.9-G(M)	SES1773
55MCGCB	55MDGCB	4BT3.9-G2(M)	SES1772
55MCGGA	55MDGGA	6B5.9-G(M)	SES1773
65MCGDA	65MDGDA	6BT5.9-G1(M)	SES1774
75MCGDA	75MDGDA	6BT5.9-G1(M)	SES1774
75MCGDB	75MDGDB	6BT5.9-G2(M)	SES1775
95MCGDB	95MDGDB	6BT5.9-G2(M)	SES1775

Replacement engines cannot be ordered from Onan.
Order from your nearest Cummins distributor.

Generator Set Data Table

<u>MODEL AND SPECIFICATION</u>		<u>ELECTRICAL DATA</u>					<u>BATTERY VOLTAGE</u>
		<u>WATTS</u>	<u>VOLTS</u>	<u>HERTZ</u>	<u>WIRE</u>	<u>PHASE</u>	
30MCGBA*	30MDGBA*	30,000	#	50	12	1 or 3	12 or 24
35MCGBA*	35MDGBA*	35,000	#	60	12	1 or 3	12 or 24
35MCGCA*	35MDGCA*	35,000	#	50	12	1 or 3	12 or 24
45MCGCA*	45MDGCA*	45,000	#	60	12	1 or 3	12 or 24
40MCGCB*	40MDGCB*	40,000	#	50	12	1 or 3	12 or 24
55MCGCB*	55MDGCB*	55,000	#	60	12	1 or 3	12 or 24
65MCGDA*	65MDGDA*	65,000	#	50	12	1 or 3	12 or 24
75MCGDA*	75MDGDA*	75,000	#	60	12	1 or 3	12 or 24
75MCGDB*	75MDGDB*	75,000	#	50	12	1 or 3	12 or 24
95MCGDB*	95MDGDB*	95,000	#	60	12	1 or 3	12 or 24
45MCGGA*	45MDGGA*	45,000	#	50	12	1 or 3	12 or 24
55MCGGA*	55MDGGA*	55,000	#	60	12	1 or 3	12 or 24

- * - The specification number denotes customer requested options or deviations from a standard model. The specification letter advances (E to F, F to G, etc.) with major manufacturing changes.
- # - Broad range reconnectible.

SPEC ADVANCE HISTORY

Spec B

Updated the generator and one of the fuel lines changed.

Spec C

Updated all engines with exception of MDGGA(6BNA) to incorporate fuel injection pump of "Stanadyne" design from "CAV" design.
Mechanical Governor is now standard with Electric Governor optional.

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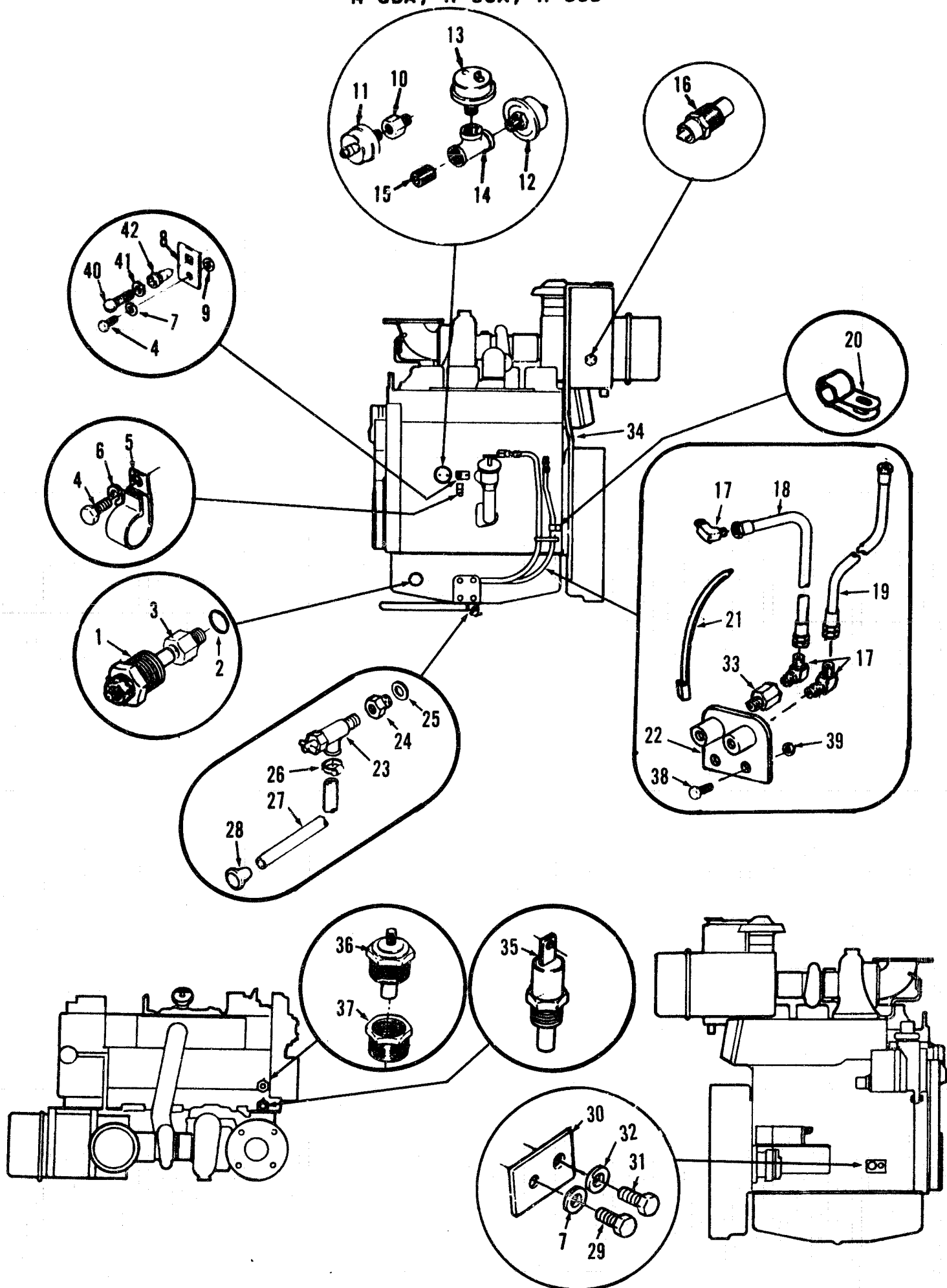
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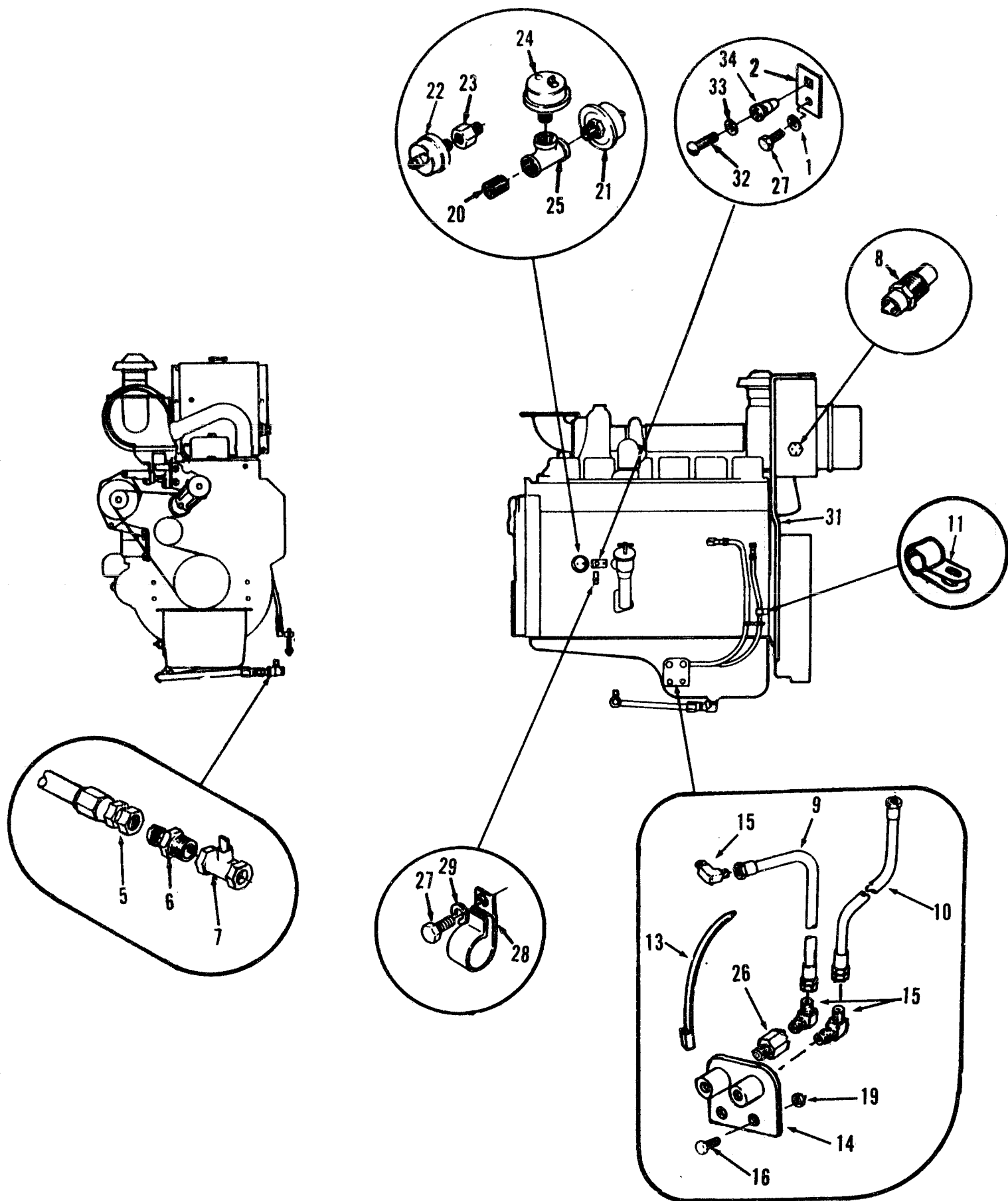
Engine Parts M-GBA, M-GCA, M-GCB



Engine Parts **M-GBA, M-GCA, M-GCB**

REF NO.	ONAM PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAM PART NO.	QTY USED	PART DESCRIPTION
1	193-0353	1	Sender, Temperature - Oil	21	332-1794	1	Tie, Cable
2	187-0146	1	Washer, Sealing	22	148-0925	1	Bracket, Remote Fuel
3	505-1373	1	Bushing, Reducer (M22 x 1/8 NPTF)	23	504-0176	1	Valve, Oil Drain
4	800-2054	2	Screw, Hex Head (M8 x 1.25 x 14)	24	102-1415	1	Adapter, Oil Drain
5	332-1356	1	Clamp, Loop	25	102-1147	1	Gasket, Oil Pan Drain
6	850-2008	1	Washer, Lock (M8)	26	503-0131	1	Clamp, Hose
7	856-0013	2	Washer, Lock EIT (1/2)	27	503-0227	1	Hose, Rubber, 18"
8	332-1292	1	Bracket Assy, Terminal (Includes Parts Marked *)	28	517-0291	1	Plug, Taper
9	856-0010	2	Washer, Lock EIT (3/8)	29	800-2112	1	Screw, Hex Head (M12 x 1.75 x 30)
10	502-0175	1	Adapter, Pipe	30	319-1248	1	Plate, Ground
11	193-0430-01	1	Sender, Pressure - Oil (E123)	31	800-0024	1	Screw, Hex Head (5/16-18 x 1/2)
12	309-0561	1	Switch, Oil - Shutdown)	32	856-0008	1	Washer, EIT (5/16)
13	309-0159	1	Switch, Oil - Latch	33	502-0176	1	Adapter, Pipe
14	505-0059	1	Tee, Black (1/8)	34	503-0276	1	Hose (.3110 x .5000 x 42")
15	505-0104	1	Nipple, Pipe (1/8 x 1.50)	35	309-0618	1	Switch, HET
16	193-0375	1	Sender, Coolant	36	193-0429-01	1	Sender, Water Temperature (E1)
17	502-1043-03	3	Elbow, Adapter - Male	37	505-0231	1	Bushing, Reducer (1/2 x 3/8)
18	501-0586	1	Hose, Fuel (Supply)	38	821-0016	2	Screw (5/16-18 x 3/4)
19			Hose, Fuel (Return)	39	870-0257	2	Nut (5/16-18)
	501-0577	1	Spec A	40	809-0036	2	*Screw, Round Head (#8 x 7/8 Lg)
	501-0609	1	Begin Spec B	41	508-0051	1	*Washer, Fiber
20	518-0548-08	1	Clip	42	870-0196	1	*Nut, Insulating

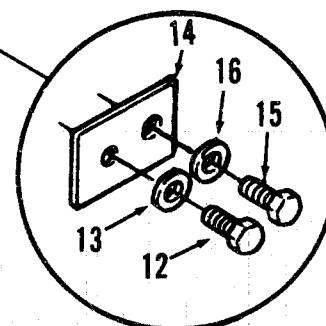
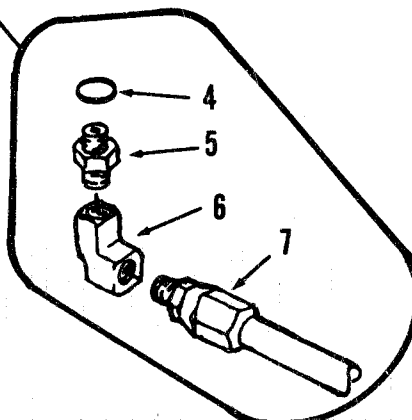
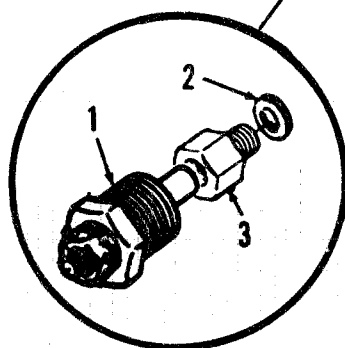
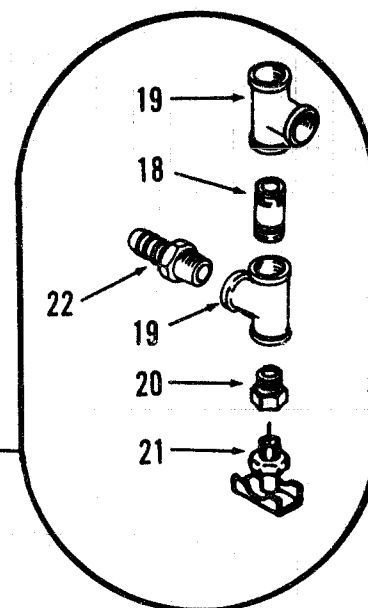
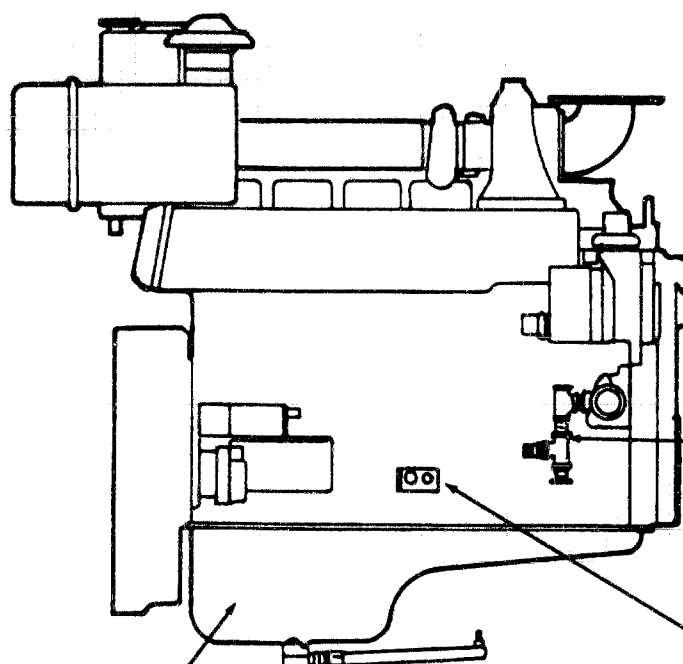
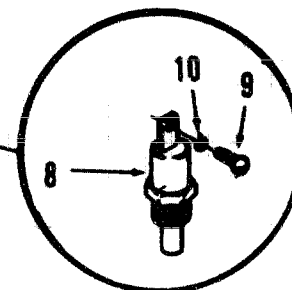
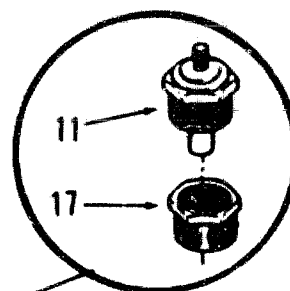
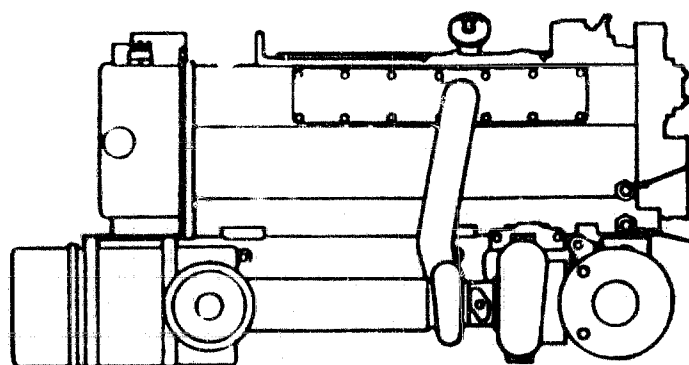
Miscellaneous Engine Parts
Right Side
M-GGA, M-GDA, M-GDB



**Miscellaneous Engine Parts
Right Side
H-GGA, H-GDA, H-GDB**

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	2	Washer, Lock - EIT (1/2")	19	870-0257	2	Nut, Lock - Hex (5/16-18)
2	332-1292	1	Bracket Assy, Terminal Includes Parts Marked *)	20	505-0104	1	Nipple, Close (1/8 x 1.50)
4	518-0391	AR	Sealant, Thread	21	309-0561	1	Switch, Shutdown - Oil
5	501-0575	1	Hose, Oil	22	193-0430-01	1	Sender, Pressure - Oil (E123)
6	502-1131	1	Adapter, Male	23	502-0175	1	Adapter, Pipe
7	504-0011	1	Valve, Shutoff	24	309-0159	1	Switch, Oil - Latch
8	193-0375	1	Sender, Coolant	25	505-0059	1	Tee, Black (1/8")
9	501-0586	1	Hose, Fuel - Supply	26	502-0176	1	Adapter, Pipe
10			Hose, Fuel - Return	27	800-2054	2	Screw, Hex Head (M8 x 1.25 x 14)
	501-0577	1	Spec A	28	332-1356	1	Clamp, Loop
	501-0609	1	Begin Spec B	29	850-2008	1	Washer, Lock (M8)
11	518-0548-08	1	Clip	30	856-0010	2	Washer, Lock EIT (1/2")
13	332-1794	1	Tie, Cable	31	503-0276	1	Hose (.31 ID x .50 OD x 42")
14	148-0925	1	Bracket, Remote Fuel	32	809-0036	1	*Screw, Round Head (*3 x 7/8 Lg)
15	502-1043-03	3	Elbow, Adapter - Male	33	508-0051	1	*Washer, Fiber
16	821-0016	2	Screw, Cap - Hex Head (5/16 x 3/4")	34	870-0196	1	*Nut, Insulating

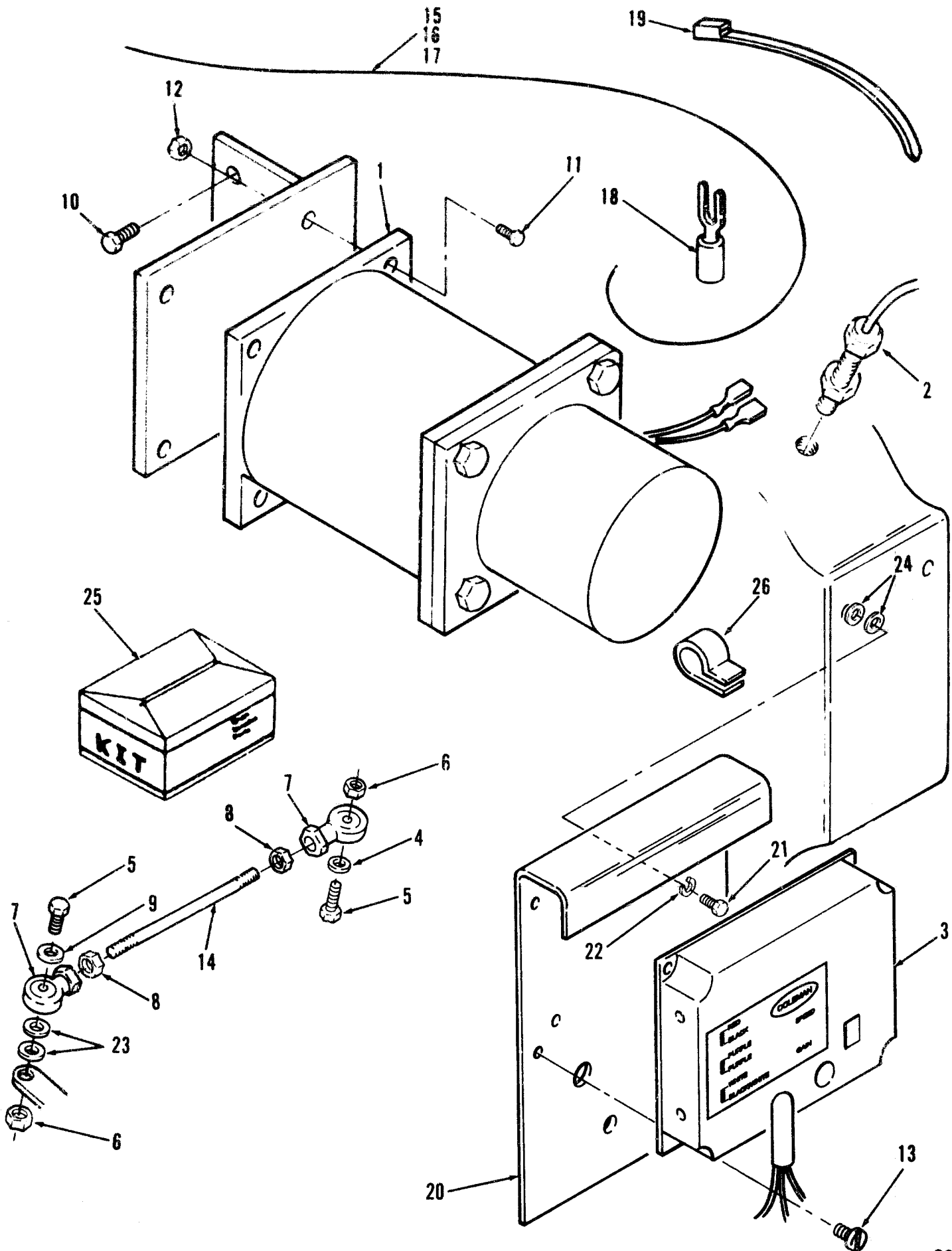
Miscellaneous Engine Parts
Left Side
M-GGA, M-GDA, M-GDB



**Miscellaneous Engine Parts
Left Side
M-80A, M-80A, M-80B**

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	193-0353	1	Sender, Temperature - Oil	12	800-2112	1	Screw, Cap - Hex Head (M12 x 1.75 x 30mm)
2	187-0146	1	Washer, Sealing	13	856-0013	2	Washer, Lock - EIT (1/2")
3	505-1373	1	Bushing, Reducer (M22 x 1/8 NPTF)	14	319-1248	1	Plate, Ground
4	102-1147	1	Gasket, Drain - Oil Pan	15	800-0024	1	Screw, Cap - Hex Head (5/16-18 x 1/2")
5	102-1237	1	Adapter, Drain - Oil	16	856-0008	1	Washer, Lock - EIT (5/16")
6	502-1132	1	Elbow, 90°		518-0391	AR	Sealant, Thread
7	501-0575	1	Hose Assy, Oil	17	505-0231	1	Bushing
8	309-0618	1	Switch, Temperature - Hi-Engine	18	505-0106	1	Nipple, Short (1/2 NPT x 1.5)
9	812-0075	2	Screw, Machine - Round Head (8-32 x 1/4)	19	505-0108	1	Tee, Pipe (1/2 NPT)
10	850-0025	2	Washer, Lock (#8)	20	505-0117	1	Bushing, Flush Face (1/2 NPT)
11	193-0429-01	1	Sender, Temperature - Water (E126)	21	504-0028	1	Cock, Drain (3/8 NPT)
				22	502-0827	1	Fitting, Hose - Barb

Electronic Governor



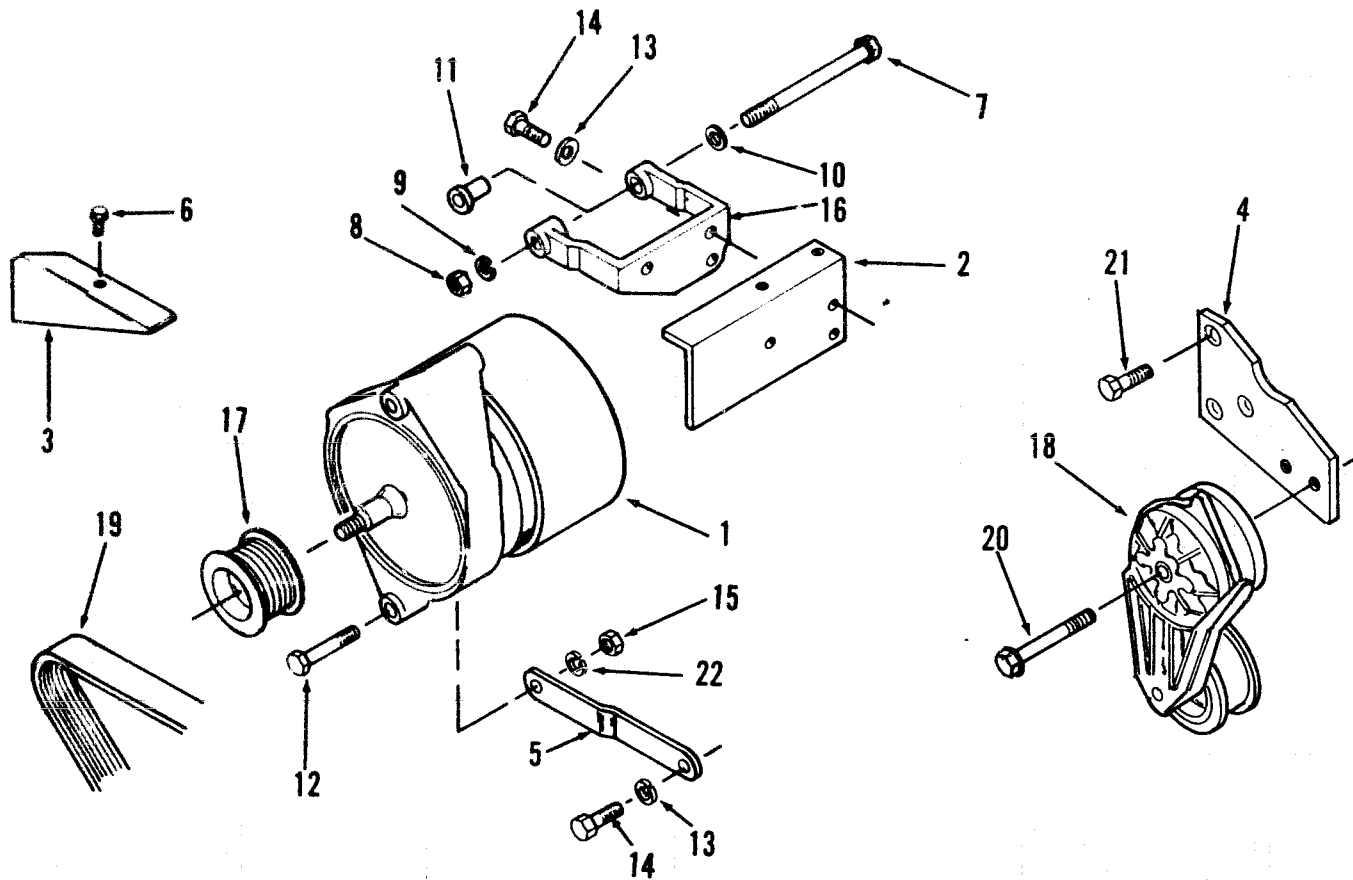
992B

Electronic Governor

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	151-0708-01	1	Actuator	16	226-4285-02	1	Lead, 25"
	151-0708-02	1	12 Volt (Spec A,B)				Spec A,B (Used with 151-0709 Control)
	151-2331	1	24 Volt (Spec A,B)		226-4381-02		Spec C (Used with 151-0715 Control)
	151-2331-01	1	12 Volt (Begin Spec C)				
2	150-2201	1	24 Volt (Begin Spec C)	17	226-4285-03	1	Lead, 42"
3			Sensor, Magnetic - Speed Control, Governor		226-4381-03	1	Spec A,B (Used with 151-0709 Control)
	151-0709-01	1	12 Volt (Spec A,B)				Spec C (Used with 151-0715 Control)
	151-0709-02	1	24 Volt (Spec A,B)	18	332-1993	3	Terminal, Receptacle (Spec A,B)
	151-0715-01	1	12 Volt (Optional Spec A,B; Standard, Spec C)	19	332-1445	6	Tie, Cable
	151-0715-02	1	24 Volt (Optional Spec A,B; Standard, Spec C)	20	149-2309	1	Bracket, Controller
			<u>NOTE: Above can be identified by Terminal Block Hookup on Base of Control</u>	21	800-2110	2	Screw, Cap - Hex Head (M12 x 1.75 x 20mm)
4	526-0179	1	Washer, Flat (Spec A,B)	22	850-2012	2	Washer, Lock (M12)
5	815-0172	3	Screw, Machine - Hex Head (10-32 x 1) (Spec A,B)	23	526-0196	2	Washer, Flat - Aluminum (7/32 ID x 7/16 OD) (Spec A,B)
6	870-0131	3	Nut, Hex - w/ET (10-32) (Spec A,B)	24	526-0219	2	Washer, Flat (17/32") (Spec A,B)
7	150-2251	2	End, Rod (Spec A,B)	25			Package, Governor - Mounting (Includes Bracket, Clevis, Spring and Lever)
8	870-0053	2	Nut, Hex (10-32) (Spec A,B)		150-2477	1	Spec A,B
9	526-0008	1	Washer, Flat (#10) (Spec A,B)		150-2537	1	Begin Spec C
10	800-2061	3	Screw, Cap - Hex Head (M8 x 1.5 x 25mm) (Spec A,B)	26	332-0051	1	Clip, Wire (Spec A,B)
11	800-0007	4	Screw, Cap - Hex Head (1/4-20 x 1) (Spec A,B)				
12	870-0212	4	Nut, Whizlock (1/4-20) (Spec A,B)				
13	813-0098	4	Screw (10-32 x .375) (Spec A,B)				
14	150-2218-05	1	Rod, Governor (Spec A,B)				
15			Lead, 46"				
	226-4285-01	1	Spec A,B (Used with 151-0709 Control)				
	226-4381-01	1	Spec C (Used with 151-0715 Control)				

Note: Electronic Governor was Standard on Spec A & B but Optional on Spec C. Cummins provided Mechanical Governor as Standard for Spec C.

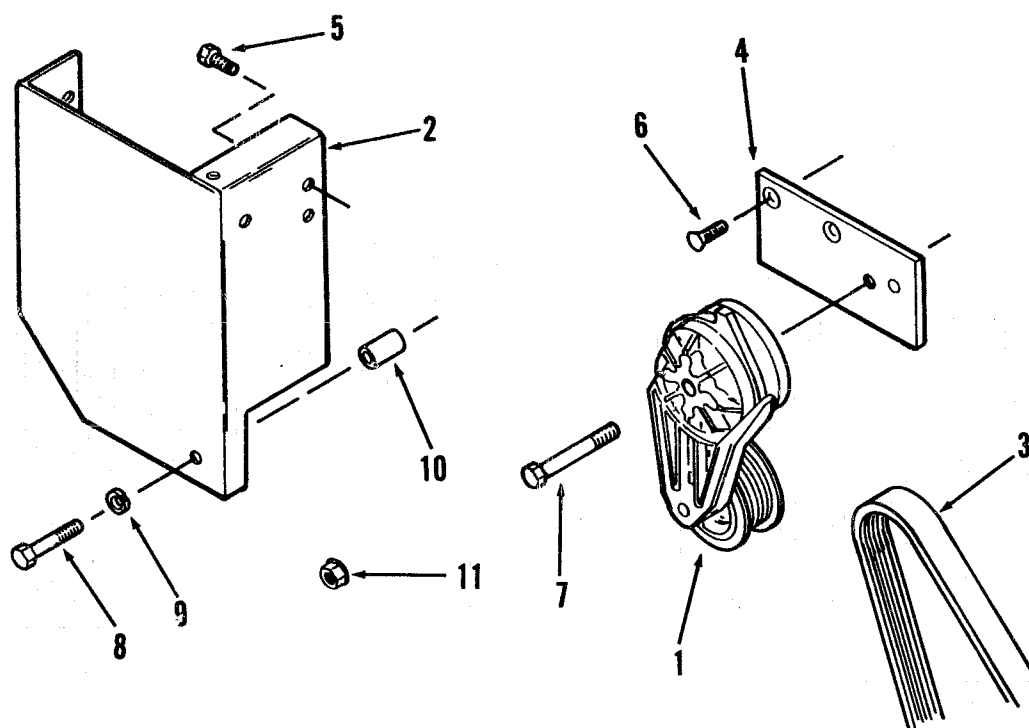
Alternator



REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1			Alternator
	191-1966-01	1	12 Volt, ISO
	191-1966-02	1	24 Volt, ISO
2	130-3819	1	Bracket, Belt Guard
3	130-3823	1	Guard, Belt
4	191-2064	1	Bracket, Belt Tensioner
5	191-2081	1	Brace, Alternator
6	821-0018	2	Screw, Locking Hex Head (1/4-20 x .62)
7	815-0797-03	1	Screw, Hex Flange Head
8	860-2009	1	Nut, Hex - Machine (M10 x 1.5)
9	850-2010	1	Washer, Lock (M10)
10	526-2120	1	Washer, Flat (M10)

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
11	191-1989-04	1	Spacer
12	800-2061	1	Screw, Hex Head (M8 x 1.25 x 40)
13	526-2100	5	Washer, Flat (M8)
14	800-2059	4	Screw, Hex Head (M8 x 1.25 x 30)
15	860-2008	1	Nut, Hex (M8 x 1.25)
16	191-2069	1	Support, Alternator
17	191-2080	1	Pulley, Alternator
18	191-2070	1	Tensioner, Belt
19	511-0161-08	1	Belt, V-Ribbed
20	815-0797-02	1	Screw, Hex Head Flange
21	815-0798-01	2	Screw, Flat Head
22	850-2008	1	Washer, Lock (M8)

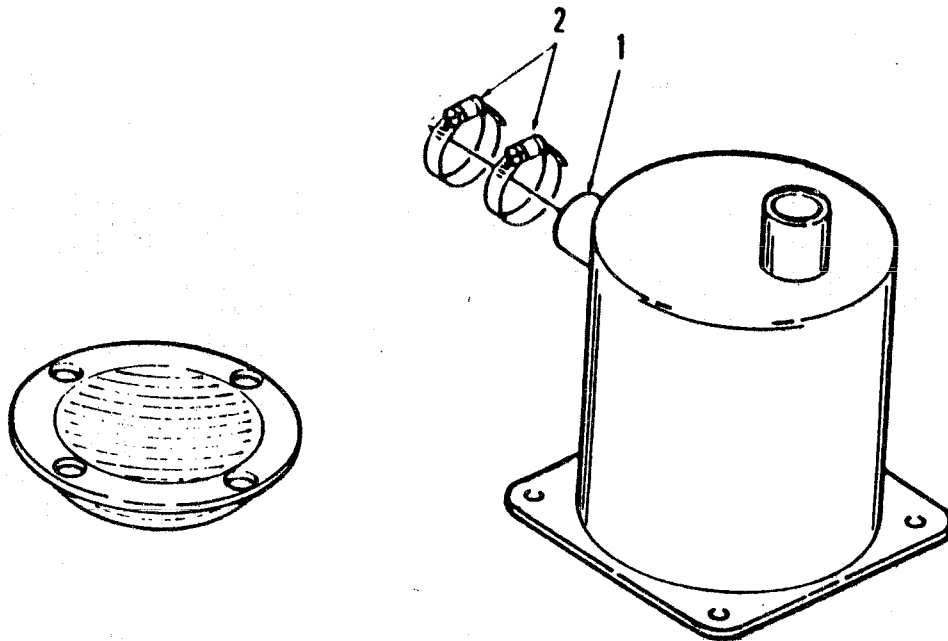
Alternator System W/O Alternator



REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	191-1965	1	Tensioner, Belt
2	130-3829-02	1	Guard
3	511-0161-09	1	Belt, V-Ribbed
4	191-2092-02	1	Bracket
5	821-2045	3	Screw, Locking - Hex Head (M8 x 1.25 x 16)
6	815-0798-01	2	Screw, Flat Head Cap (M8 x 1.25 x 25)

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
7	815-0797-02	1	Screw, Hex Head - Flanged (M10 x 1.25 x 70)
8	800-2063	1	Screw, Hex Head (M8 x 1.25 x 50)
9	526-2100	1	Washer, Flat (M8)
10	370-4080-02	1	Spacer, Guard
11	870-0212	3	Nut, Self Locking (Flange)

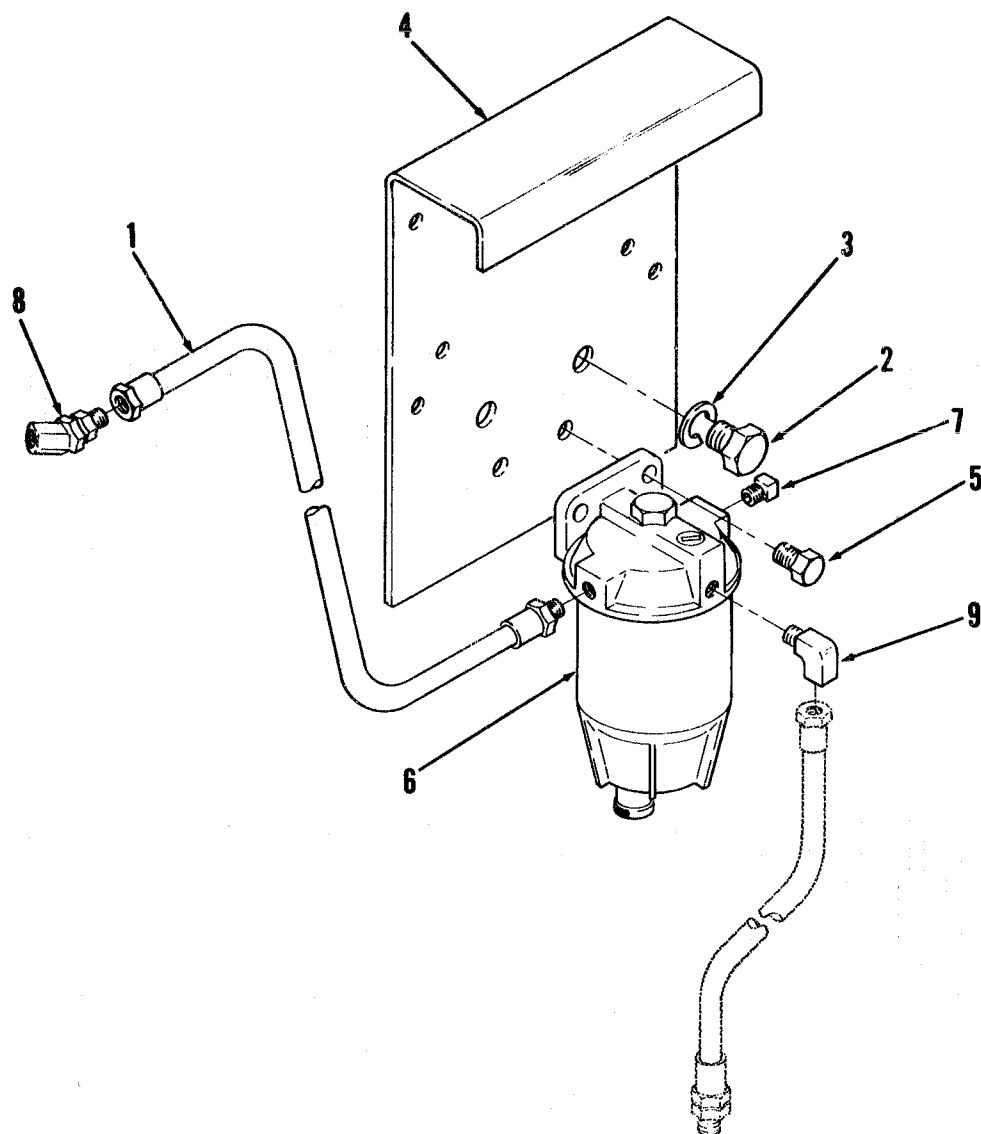
Muffler - Marine



REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	155-2012	1	Muffler, Marine
2	503-1180	8	Clamp, Hose
3	155-1002	1	Strainer

Fuel Filter

C156

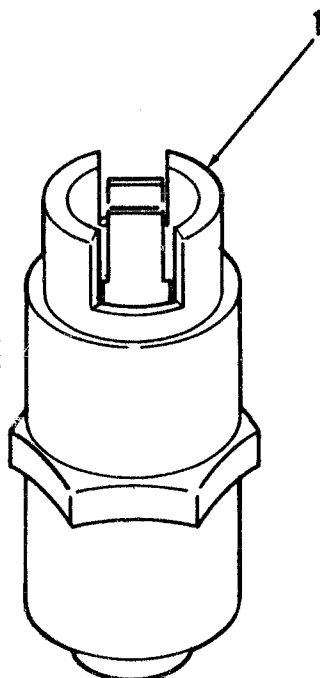


996B

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	501-0573	1	Hose, Fuel	6	149-2308	1	Filter, Fuel
2	800-2110	2	Screw, Cap - Hex Head (M12 x 1.75 x 20)		149-2406	1	Element, Fuel
3	850-2012	2	Washer, Lock - Spring (M12)	7	505-0055	1	Plug, Head - Square
4	149-2309	1	Bracket, Filter - Fuel	8	502-1129	1	Connector, Male
5	821-0030	2	Screw, Head - Locking (3/8-16 x 1")	9	502-0054	1	Elbow, Street

Fuel Shut-Off Solenoid

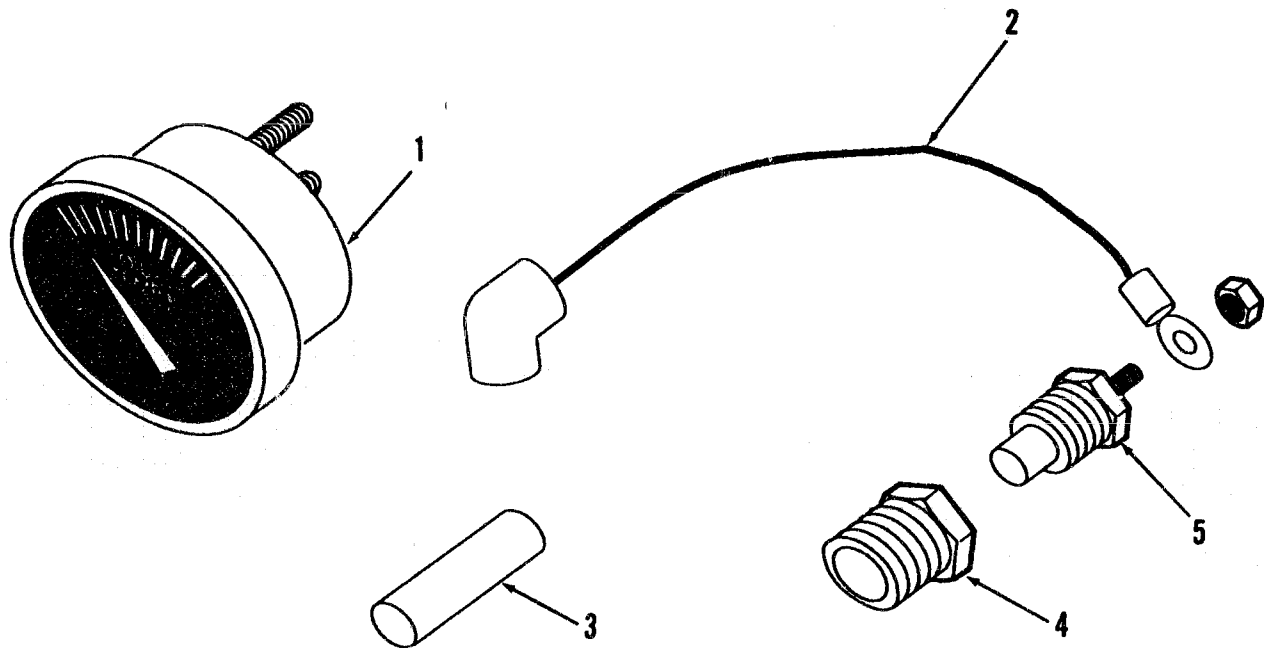
C154



977A

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	307-2725-01	1	Solenoid, Shut-Off - Fuel 24 Volt, Energize to Run - Isolated Ground
	307-2725-02	1	12 Volt, Energize to Run - Isolated Ground

Oil Temperature Gauge

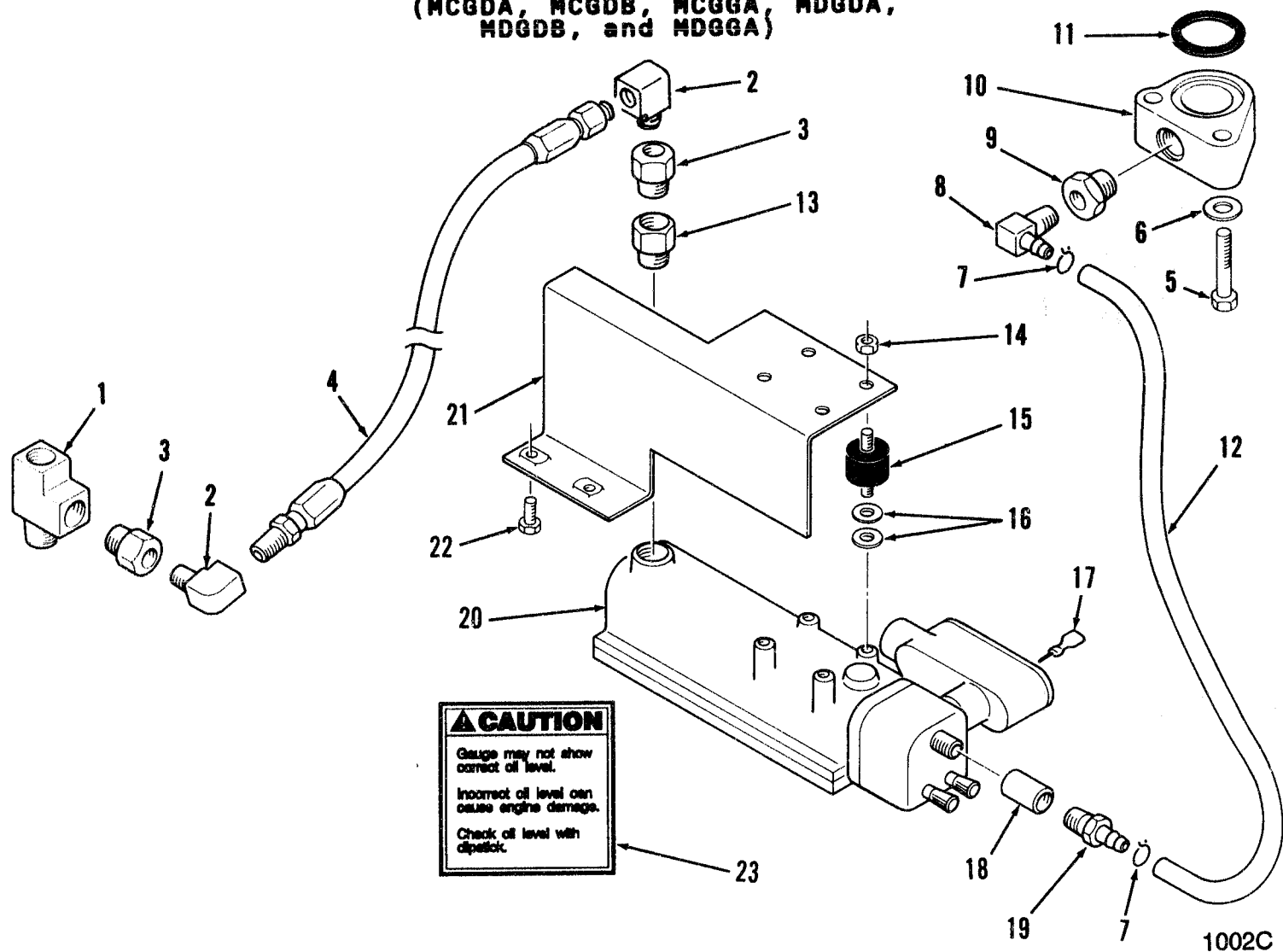


001-004

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	193-0330	1	Gauge, Temperature - Oil
2			Lead, 7" Long
	226-4153-01	1	Black Wire (M129G/M124G)
	226-4153-02	1	Red/Orange Wire (M129I/M124I)

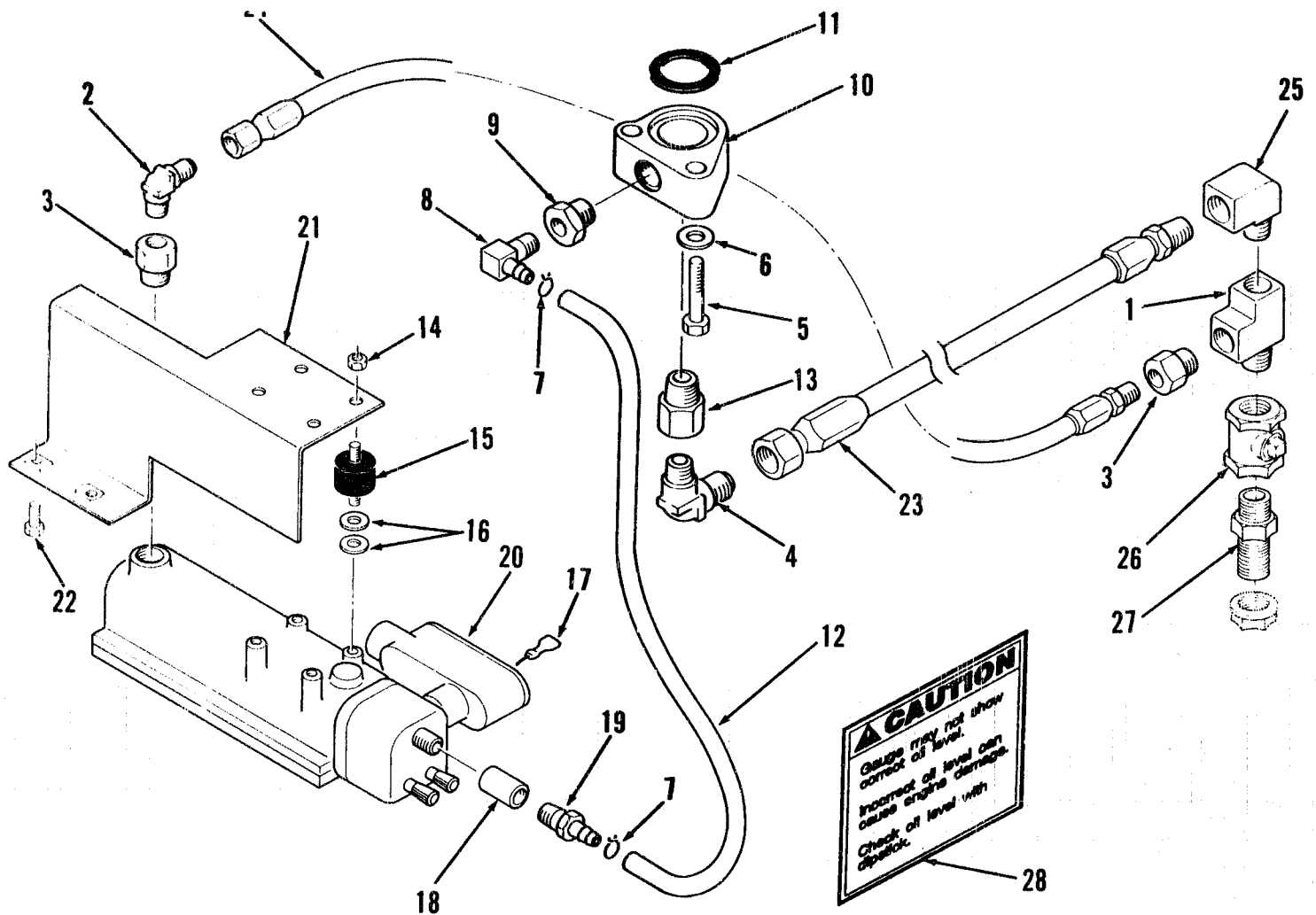
REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
3	193-0250	1	Resistor (24 Volt Sets)
4	193-0353	1	Sender, Temperature - Oil
5	505-1373	1	Bushing, Reducer

**Low Oil Level
(MCGDA, MCGDB, MCGGA, MDGDA,
MDGDB, and MDGGA)**



REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	502-1149	1	Tee, Street (1/2 NPT)	13	502-0176	1	Adapter, Pipe
2	502-1043-03	2	Elbow, Male - Adapter	14	870-0212	4	Nut, Locking (1/4)
3	502-0802	2	Bushing (1/2 x 1/4)	15	402-0610	4	Isolator, Vibration
4	501-0587	1	Hose, Oil	16	526-0018	8	Washer, Flat
5	800-2118	2	Screw, Cap - Hex Head (M12 x 1.75 x 60)	17	332-2430	2	Terminal, Faston
6	526-2140	2	Washer, Flat (M12)	18	502-0051	1	Coupling (1/8)
7	503-0731	2	Clamp, Hose	19	502-0395	1	Connector, Hose
8	502-0313	1	Elbow	20	309-0619	1	Switch, Level - Oil (S113)
9	505-0131	1	Bushing, Reducer	21	309-0620	1	Bracket, Switch - Oil Level
10	122-0789-02	1	Connection, Spacer	22	821-0018	2	Screw, Head - Locking (1/4-20 x .62)
11	509-0281-03	1	Seal, Rectangular	23	98-6398	1	Label, Caution
12	503-1418	-	Bulk Hose (Order by the foot - 2 feet required)				

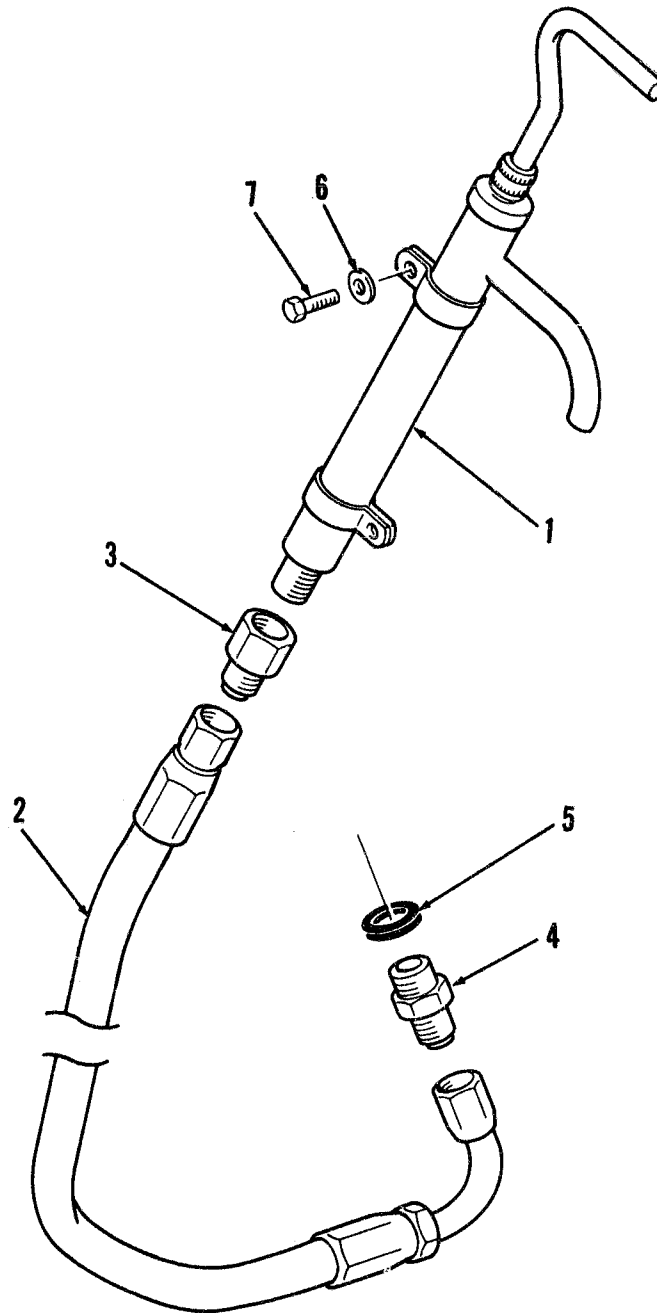
Low Oil Level
(MCGBA, MCBCA, MCGCB, MDGBA,
MDGCA, and MDGCB)



997C

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	502-1149	1	Tee, Street (1/2 NPT)	14	870-0212	4	Nut, Locking Flange (1/4)
2	502-1043-03	2	Elbow, Male - Adapter	15	402-0610	4	Isolator, Vibration
3	502-0802	2	Bushing (1/2 x 1/4)	16	526-0018	8	Washer, Flat
4	502-1043-05	1	Elbow, Male - Adapter	17	332-2430	2	Terminal, Faston
5	800-2118	2	Screw, Cap - Hex Head (M12 x 1.75 x 60)	18	502-0051	1	Coupling (1/8)
6	526-2140	2	Washer, Flat (M12)	19	502-0395	1	Connector, Hose
7	503-0731	2	Clamp, Hose	20	309-0619	1	Switch, Level - Oil (S113)
8	502-0313	1	Elbow, Adapter - Hose	21	309-0620	1	Bracket, Level - Oil
9	505-0151	1	Bushing, Reducer	22	821-0018	2	Screw, Head - Locking (1/4-20 x .62)
10	122-0789-02	1	Connection, Spacer	23	501-0588	1	Hose, Oil
11	509-0281-03	1	Seal, Rectangular	24	501-0576	1	Hose, Oil
12	503-1418	-	Bulk Hose (Order by the foot - 1 foot required)	25	502-0133	1	Elbow, Street (90°)
13	502-1074-01	1	Adapter, Plain (Use only with Remote Oil Filter)	26	504-0011	1	Valve, Shut-Off
				27	502-1148	1	Coupling, Bulkhead
				28	98-6398	1	Label (Caution - Oil Level)

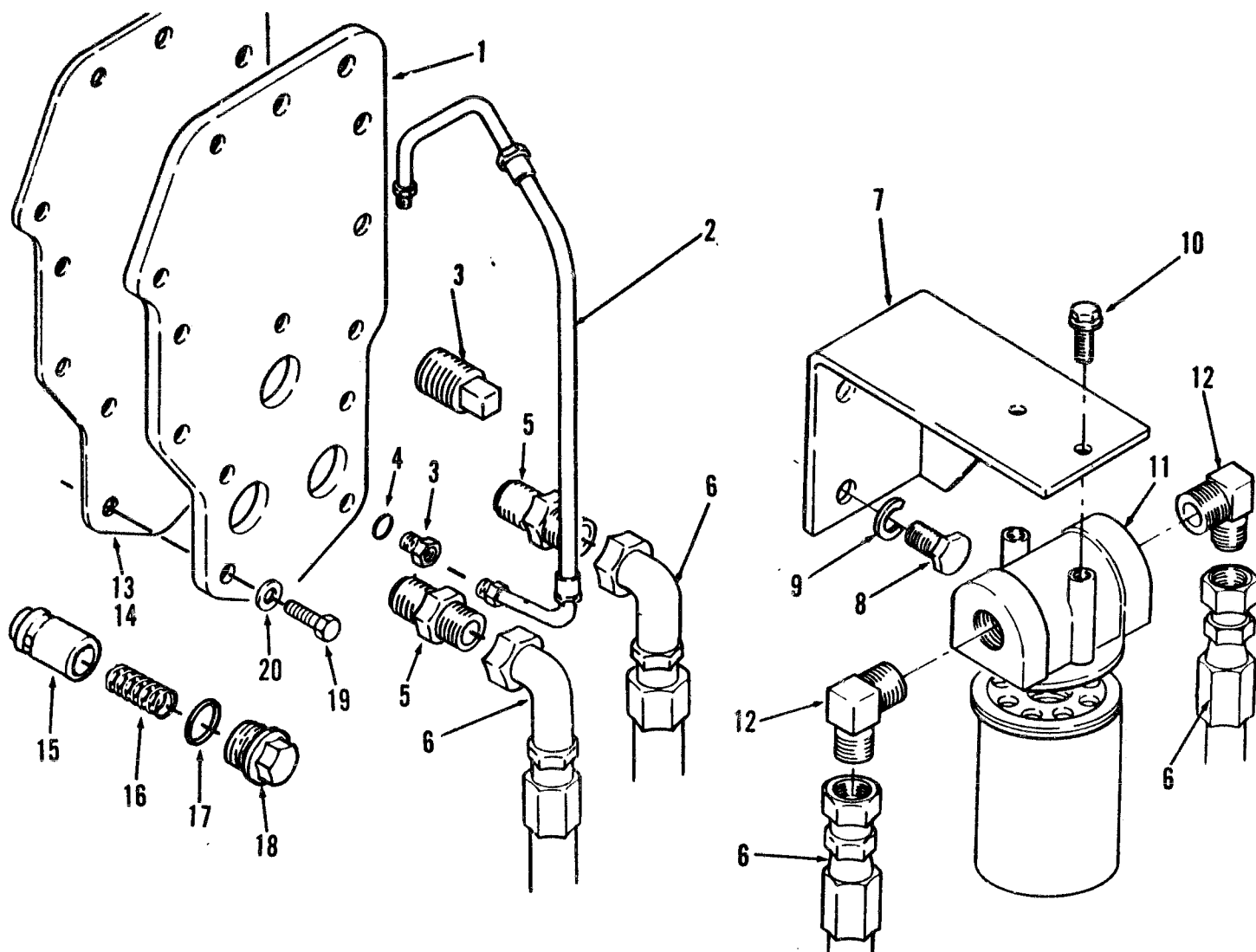
Oil Sump Pump



994B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	120-1200	1	Pump, Sump - Oil	3	502-1130	1	Adapter, Hose
2			Hose, Oil	4	502-1035	1	Adapter, Hose
	501-0532	1	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB	5	102-1147	1	Gasket, Drain - Oil Pan
	501-0574	1	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA	6	526-0122	16	Washer, Flat (M8)
				7	800-2062	2	Screw, Cap - Hex Head (M8 x 1.25 x 45)

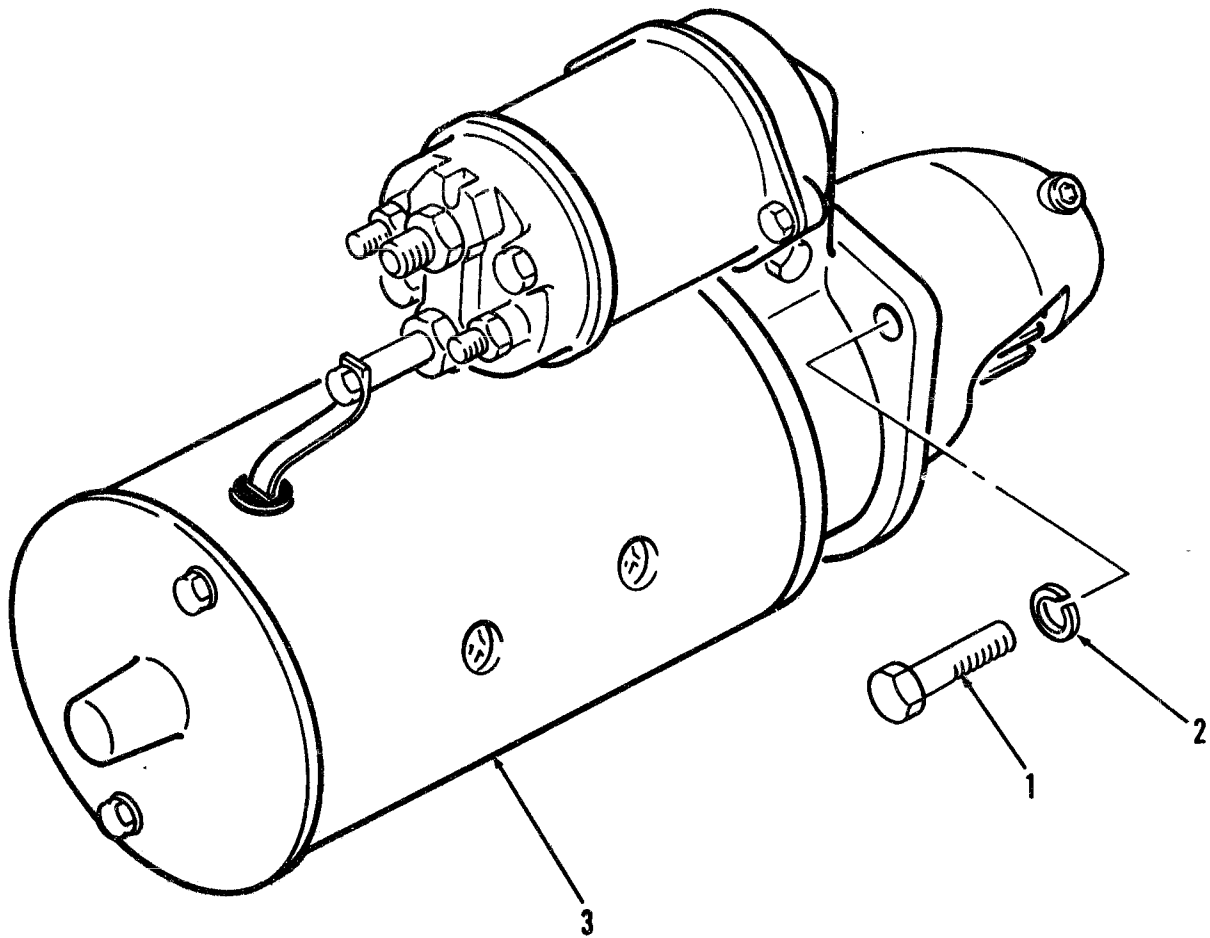
**Remote Oil Filter
MDGBA, MDGCA, MDGCB, MDGGA, MDGDA, MDGDB**



REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	102-1429	1	Cover, Lub Oil Cooler
2			Hose, Flexible
	501-0571-14	1	MDGCA, MDGCB (Top Turbo)
	501-0571-15	1	MDGDA, MDGDB (Top Turbo)
	501-0597-01	1	MDGCA, MDGCB (Rear Turbo)
	501-0597-02	1	MDGDA, MDGDB (Rear Turbo)
3	502-1169	1	Connector, Female - MDGCA MDGCB, MDGDA, MDGDB
	505-1468	1	Plug, Threaded MDGCA, MDGCA
4	509-0290-04	1	Seal-O-Ring
5	502-1128	2	Connector, Male
6	501-0572	2	Hose
7	122-0781	1	Bracket, Filter - Oil
8	800-2112	2	Screw, Cap - Hex Head (M12 x 1.75 x 30)

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
9	850-2012	2	Washer, Lock (M12)
10	821-0018	2	Screw, Locking (1/4-20 x .62)
11	122-0783	1	Head, Lube - Oil Filter
12	502-1127	2	Elbow, Brass (90°)
13	122-0790	1	Gasket, Filter Head
14	102-1428	1	Gasket, Oil Cooler Core
15	102-1431	1	Plunger, PRS Regulator
16	102-1430	1	Spring, Compression
17	509-0288-05	1	Seal-O-Ring
18	505-1462	1	Plug, Threaded
19	800-2063	1	Screw, Hex Head (M8 x 1.25 x 50)
20	526-2100	1	Washer, Flat (M8)

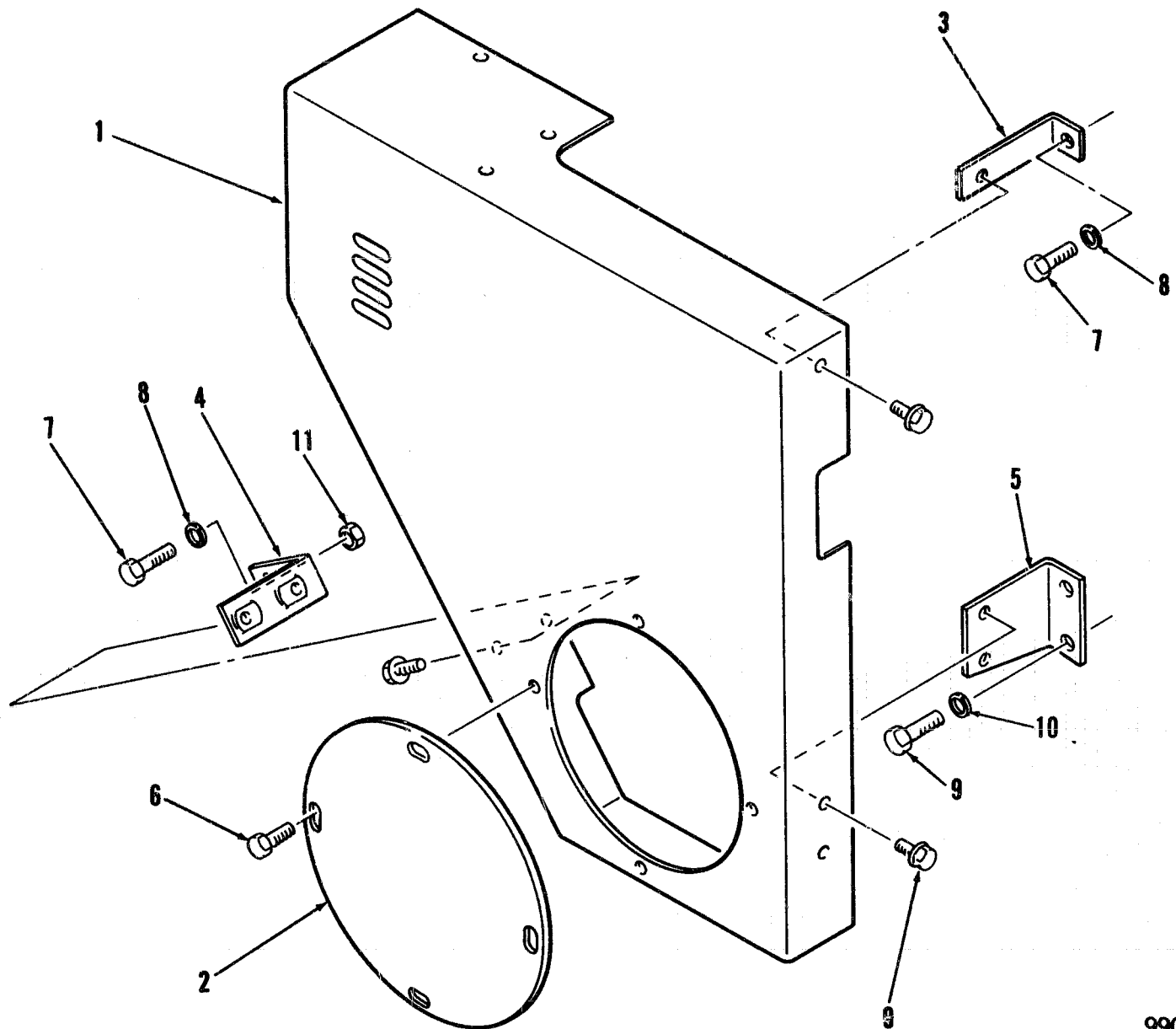
Starter



984A

REF NO.	ONAN PART NO.	GUMMINS PART NO.	QTY. USED	PART DESCRIPTION
1	800-2088		3	Screw, Cap - Hex Head (M10 x 1.5 x 35mm)
2	850-2010		3	Washer, Lock (M10)
3				Starter
	191-1961	3916854	1	12 Volt, Negative Ground
	191-1963-01	3910563	1	12 Volt, Isolated Ground
	191-1962-02	3918377	1	24 Volt, Negative Ground
	191-1963-02	3910564	1	24 Volt, Isolated Ground
	191-2103		1	24 Volt, Negative Ground

Belt Guard

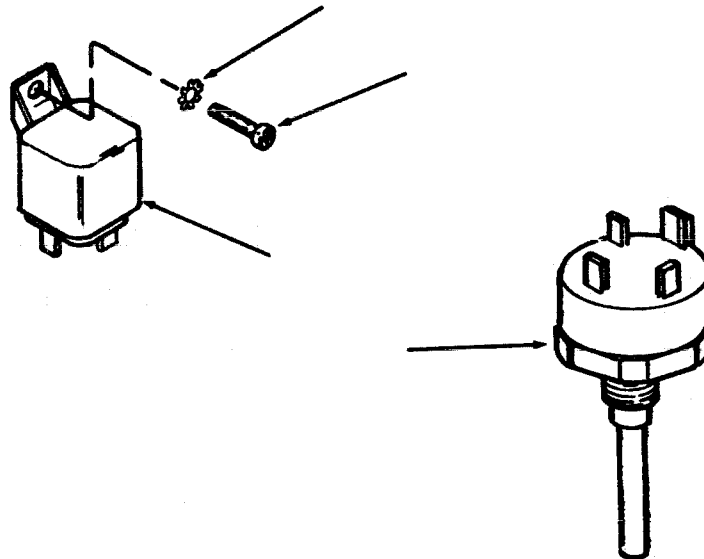


990B

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	130-3817	1	Guard, Belt
2	130-3818	1	Cover, Guard - Belt
3	130-3820	1	Bracket
4	130-3821	1	Bracket
5	130-3822	1	Bracket
6	821-0010	11	Screw, Cap - Locking Head (1/4-20 x 1/2)
7	800-2085	1	Screw, Cap - Hex Head (M10 x 1.5 x 20)

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
8	800-2010	2	Washer, Lock (M10)
9	800-2111	2	Screw, Cap - Hex Head (M12 x 1.75 x 25)
10	850-2012	2	Washer, Lock (M12)
11	860-2009	1	Nut, Hex (M10 x 1.5)
12	800-2086	1	Screw, Cap - Hex Head (M10 x 1.5 x 25)

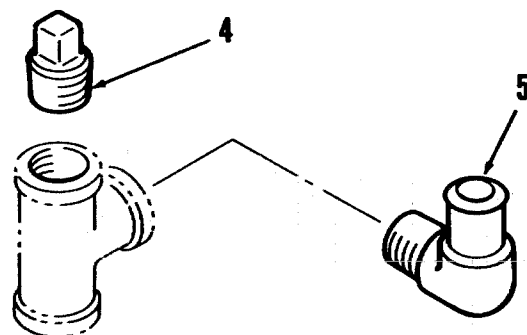
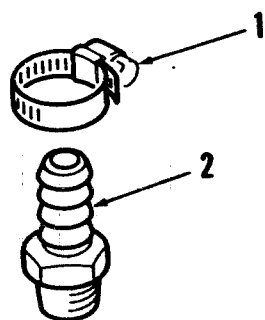
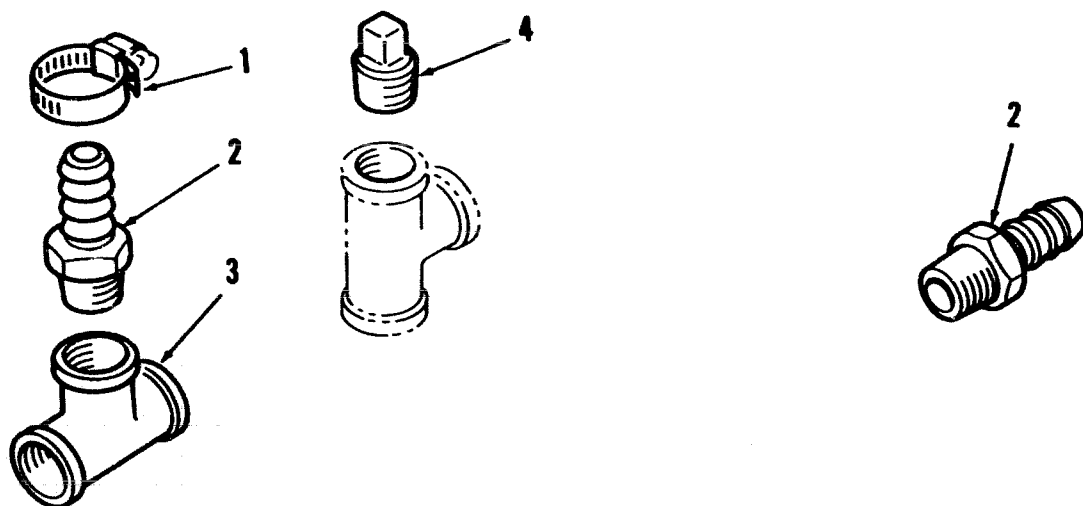
Low Coolant Level



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0322	1	Sender, Level - Water
2	307-2643		Relay
	307-1886	1	24 Volt
			12 Volt

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	812-0076	1	Screw, Round Head Machine
4	853-0005	1	(#8-32 x 5/16)
			Washer, Lock ET (#8)

Cooling System

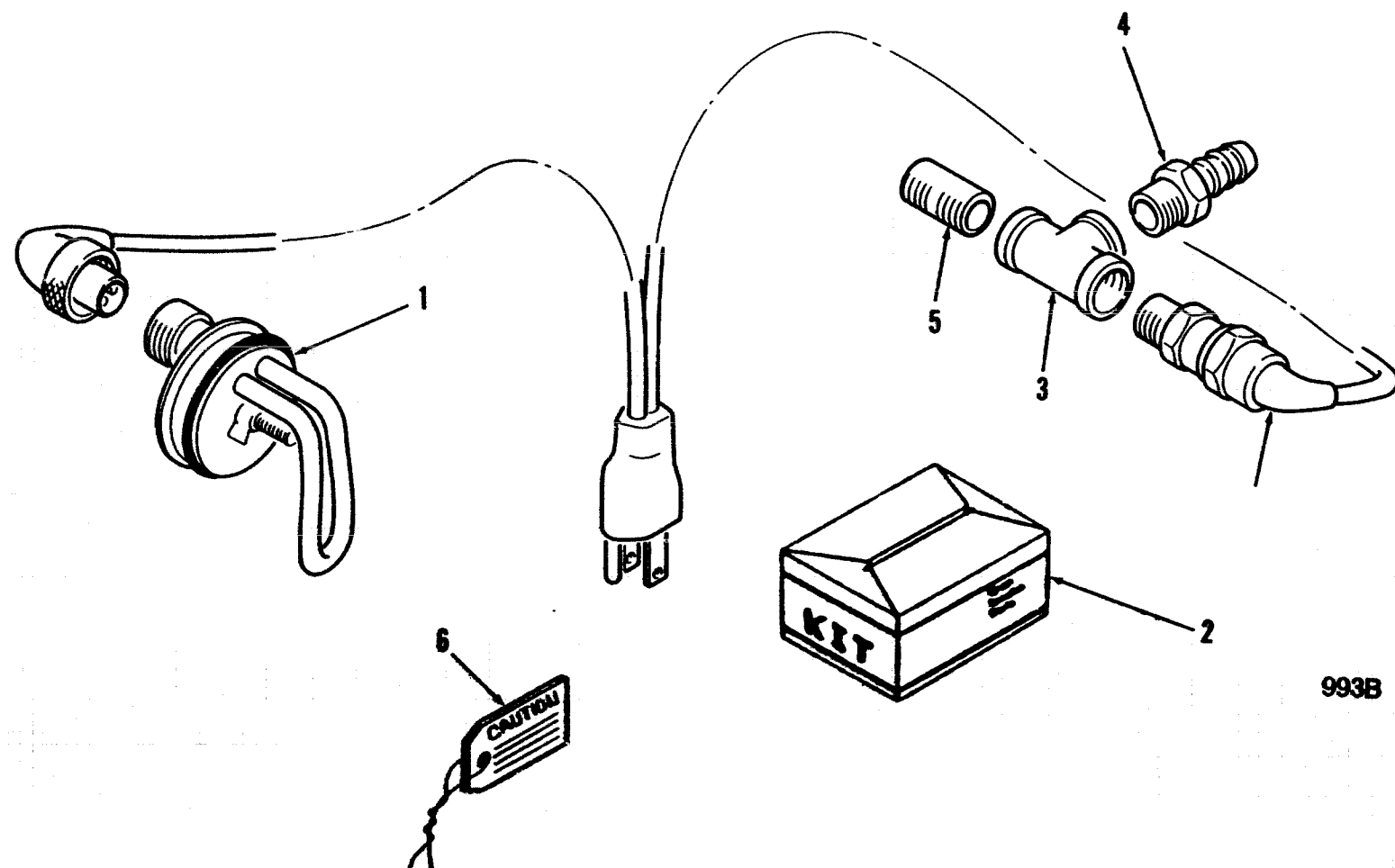


989B

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	503-0183	2	Clamp, Hose - Keel Cooling Standard Lube Filter - Isolated Ground Alternator
	503-0183	3	Remote Lube Filter - Any Alternator
2	502-0827	3	Connector, Barbed Keel Cooling Units
	502-0827	1	Heat Exchanger Cooling - Remote Lube Filter - Any Alternator

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
3	505-0108	1	Tee, Pipe - 1/2" - Keel Cooling - Standard Lube Filter - Isolated Ground Alternator
4	505-0056	1	Plug, Pipe - 1/2" - Isolated Ground Alternator Units
5	502-1030	1	Connector, Hose (90°) - Heat Exchanger - Standard Lube Filter - Isolated Ground Alternator

Coolant Heater

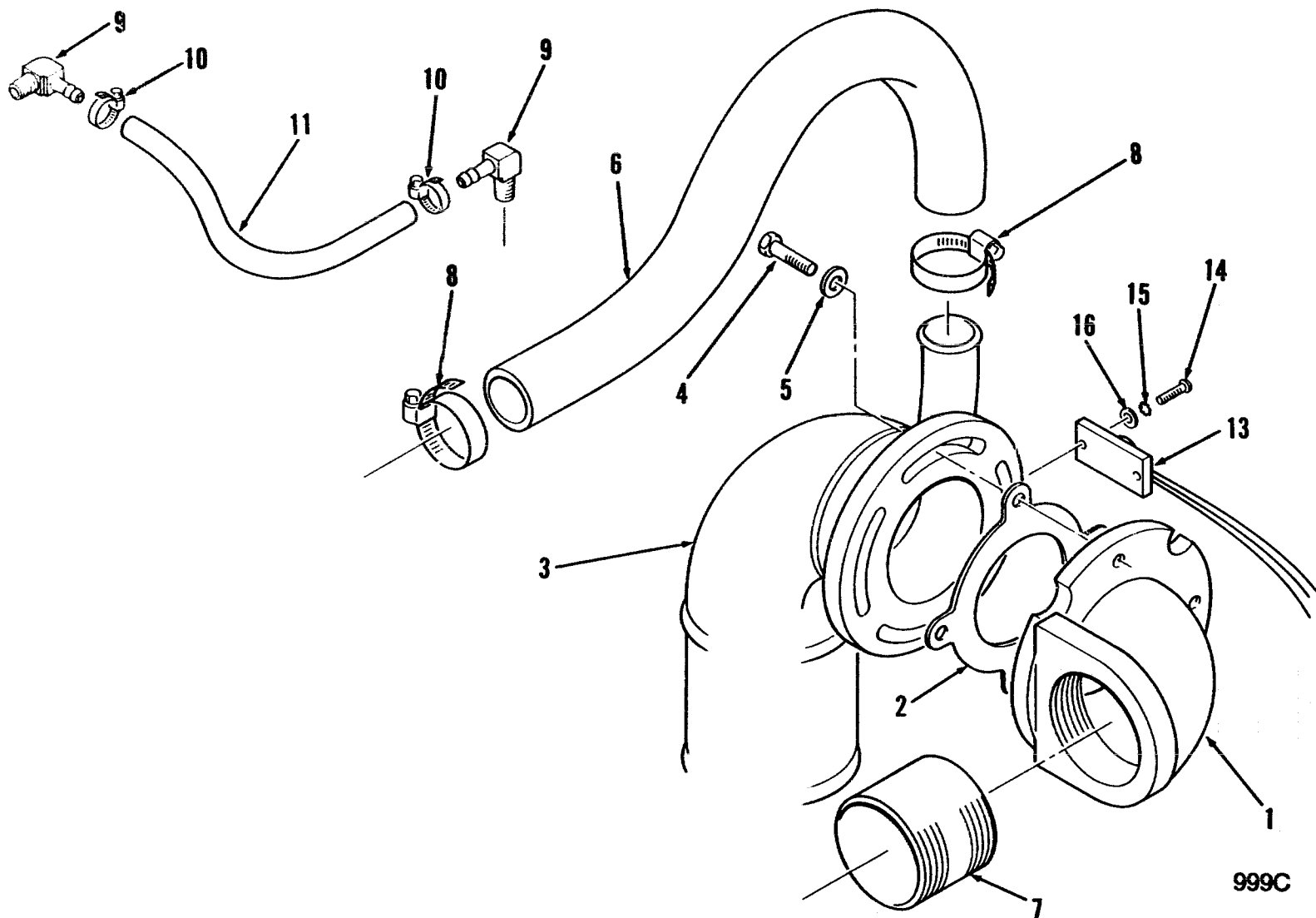


993B

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	333-0291-01	1	Heater, Engine Coolant (750W)
	333-0291-02	1	120 Volt
			240 Volt
2	333-0292-01	1	Kit, Thermostat
	333-0292-02	1	120 Volt
			240 Volt

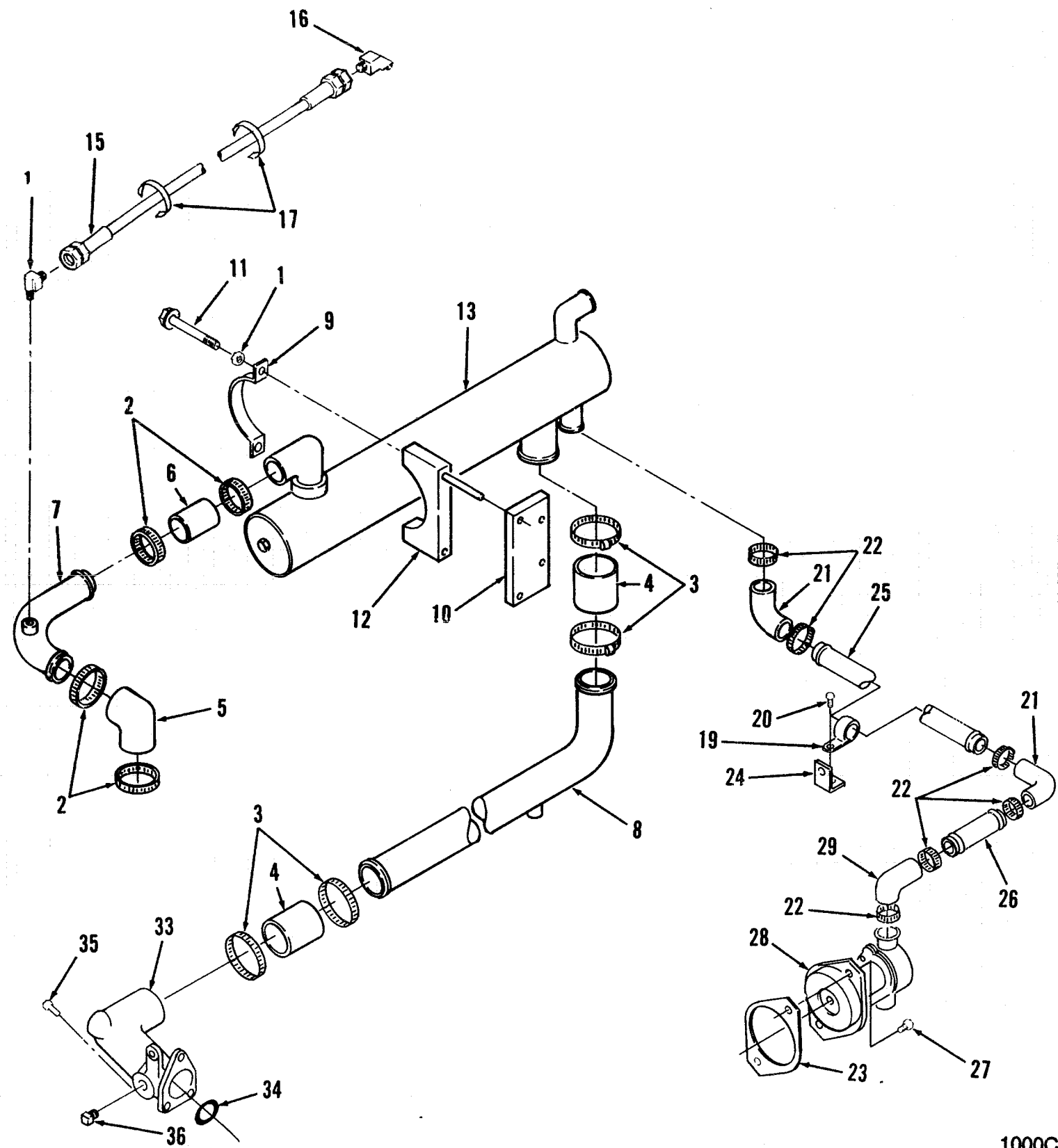
REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
3	505-0108	1	Tee (1/2")
4	502-0827	1	Fitting, Hose
5	505-0100	1	Nipple, Close (1/2")
6	98-6030	1	Tag, Caution

Water Cooled Exhaust Elbow



REF NO.	ONAN PART NO.	CUMMINS PART NO.	QTY. USED	PART DESCRIPTION
1	505-1461		1	Elbow, Flange (90°) - MDGBA, MDGGA
2		3911870	1	Gasket, Elbow
3	155-2601		1	Elbow, Exhaust
4	800-2513		4	Screw, Cap - Hex Head (M8 x 1.25 x 20) - MCGBA, MCGGA, MDGBA, MDGGA
5	526-2100		4	Washer, Flat (M8) - MCGBA, MCGGA
6	503-1815		1	Hose, Turbo
7	505-1460		1	Nipple, Pipe - MCGBA, MCGGA, MDGBA, MDGGA
8	503-1138		2	Clamp, Hose
9	502-0313		2	Elbow (1/8 NPT)
10	503-0685		2	Clamp, Hose
11	503-1418		-	Hose, Bulk - 1/4" (Order by the foot - 1 foot required)
13	309-0631		1	Switch, Temperature - Hi-Exhaust
14	812-0059		2	Screw, Machine - Round Head (#6-32 x 1/4)
15	856-0001		2	Washer, Lock - EIT (#6)
16	526-1002		2	Washer, Flat (#6)

Heat Exchanger

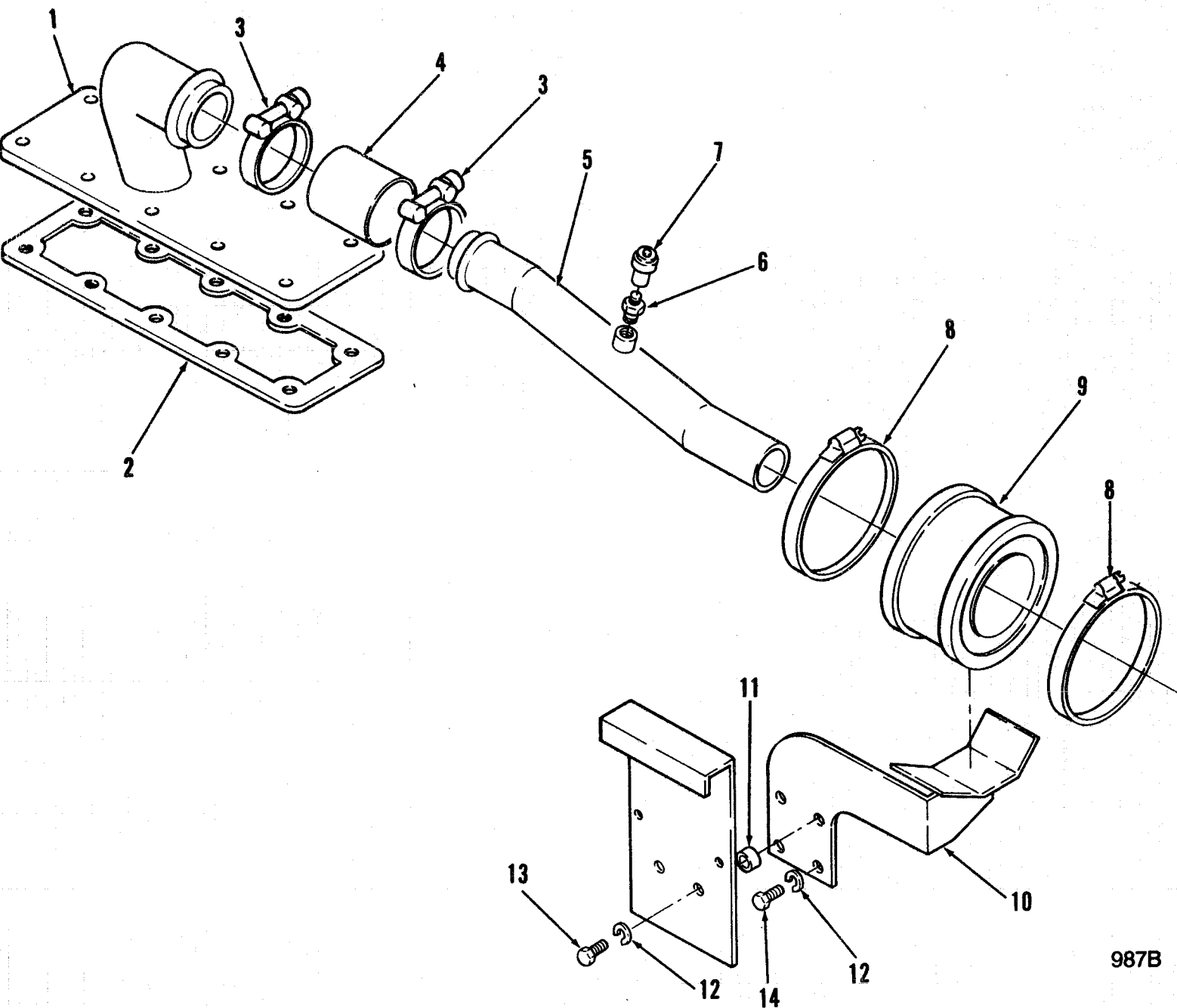


1000C

Heat Exchanger

REF NO.	CUMMINS PART NO.	QTY USED	PART DESCRIPTION	REF NO.	CUMMINS PART NO.	QTY USED	PART DESCRIPTION
1	S-610	4	Washer, Lock (7/16")	19	67950	1	Clip
2	43828C	4	Clamp, Hose (1-9/16 - 2-1/2")	20	137795	1	Screw, Cap - Hex Head (3/8-16 x 5/8")
3	43828D	4	Clamp, Hose (2-1/4 - 3")	21			Hose, Elbow
4	63549	2	Hose, Plain (60.45 ID)		108580	2	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
5	176743	1	Hose, Elbow (44.45 ID)		108580	3	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB
6	3275209	1	Hose, Plain (44.45 ID)	22	209773	6	Clamp, Hose
7	3905047	1	Tube, Transfer - Water	23	3008400	1	Gasket, Pump - Hydraulic
8			Tube, Transfer - Water	24	3279096	1	Brace, Hose
	3905052	1	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA	25	3905058	1	Tube, Pump - Sea Water
	3905051	1	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB	26			Tube, Pump - Sea Water
9	3905057	2	Clamp, Retainer		3905067	1	MCGDA, MDGDB, MCGGA, MDGDA, MDGDB, MDGGA
10	3905344	2	Bracket, Exchanger - Heat		3905064	1	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB
11	3908226	4	Screw, Flanged Cap (M10 x 1.50 x 95)	27	3910495	2	Screw, Hex Flanged (M12 x 1.75 x 30)
12	3912940	2	Insulator, Vibration	28	3912019	1	Pump, Water - Sea
13	3910583	1	Exchanger, Heat	29	3905319	1	Hose, Elbow
14	S-1047-A	1	Adapter, Male (90°)	33	3907007	1	Connection, Inlet - Water
15	68139	1	Adapter, Male (45°)	34	3906697	1	Seal, Ring - Rectangular
16			Line, Vent	35	3902460	3	Screw, Hex Flanged (M10 x 1.50 x 25)
	3917992	1	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA	36	3008468	1	Plug, Pipe
	3917990	1	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB				
17	3018920	2	Tie				

Air Cleaner (MCGBA & MDGBA)

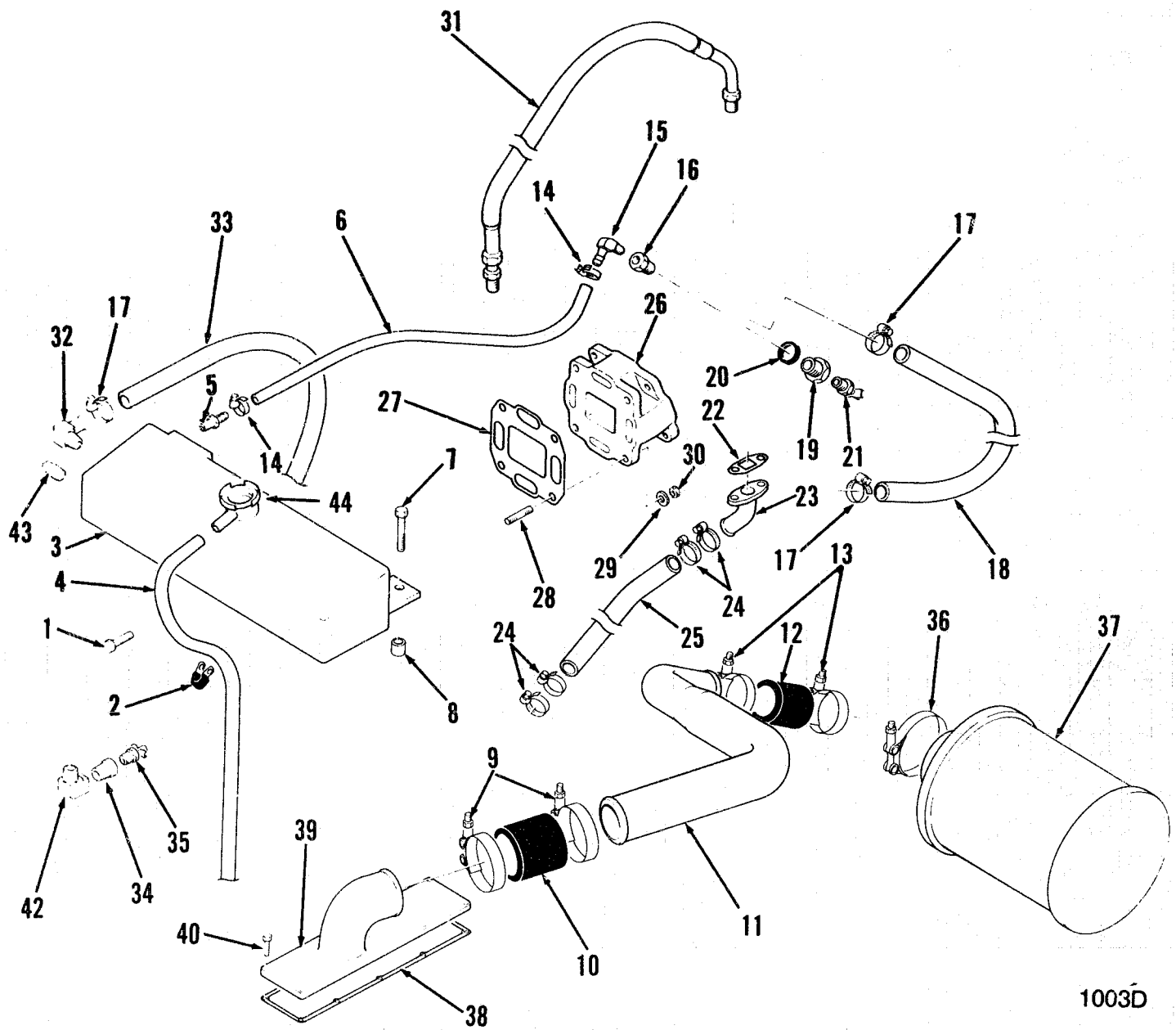


987B

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	154-2831	1	Cover, Manifold - Intake
2	154-2833-01	1	Gasket, Cover - Intake Manifold
3	503-0867	3	Clamp, Hose
4	503-1708	1	Hose, Inlet
5	140-2641	1	Tube Assembly, Air Cleaner
6	140-1260	1	Fitting, Filter - Safety
7	140-2008	1	Indicator, Service
8	140-2647	2	Clamp, Cleaner - Air

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
9	140-2646-01	1	Cleaner, Air
10	140-2643	1	Bracket, Cleaner - Air
11	191-1988	2	Spacer
12	850-2012	4	Washer, Lock (M12)
13	800-2115	2	Screw, Cap - Hex Head (M12 x 1.75 x 45)
14	800-2110	2	Screw, Cap - Hex Head (M12 x 1.75 x 20)

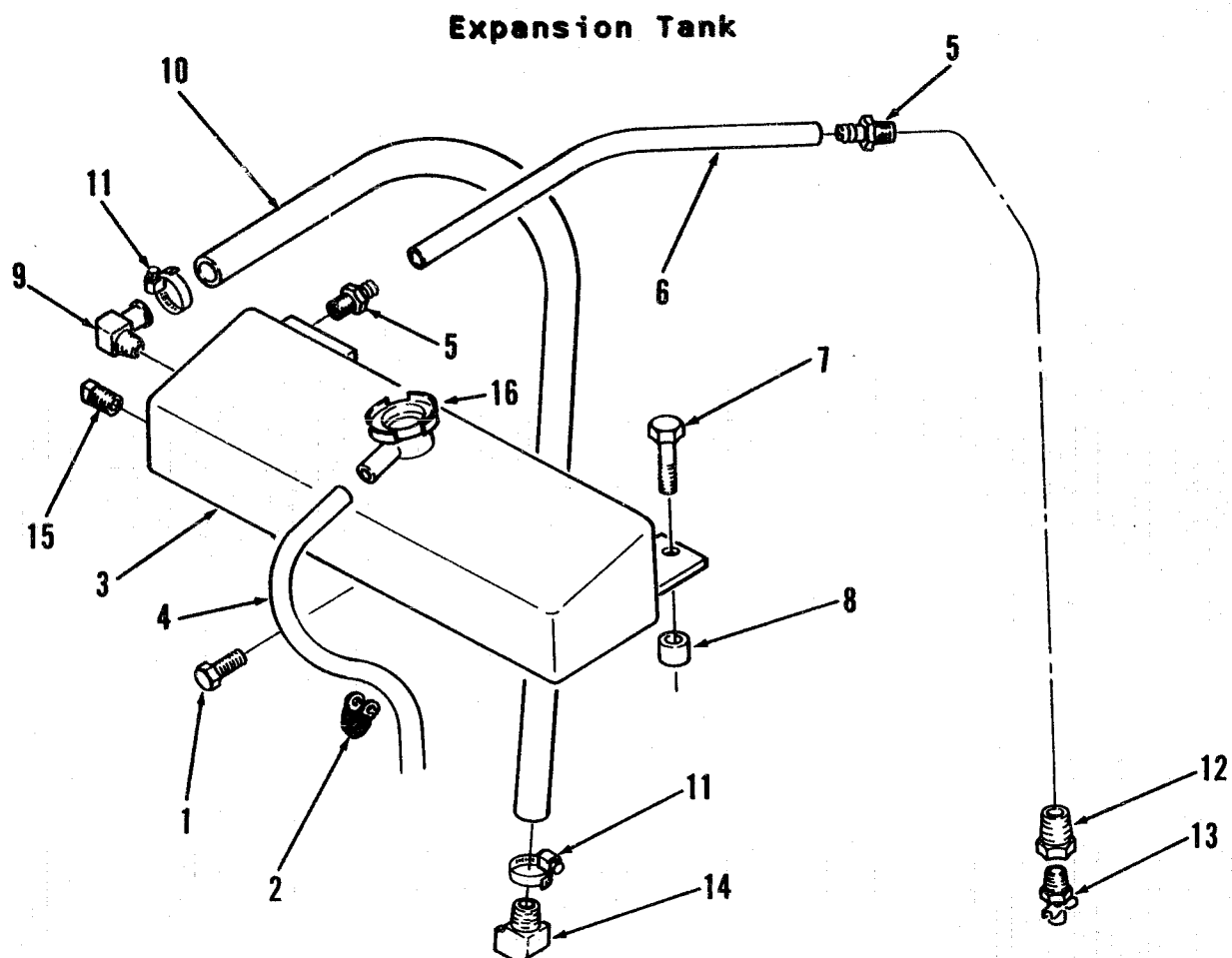
Rear Turbo



1003D

Rear Turbo

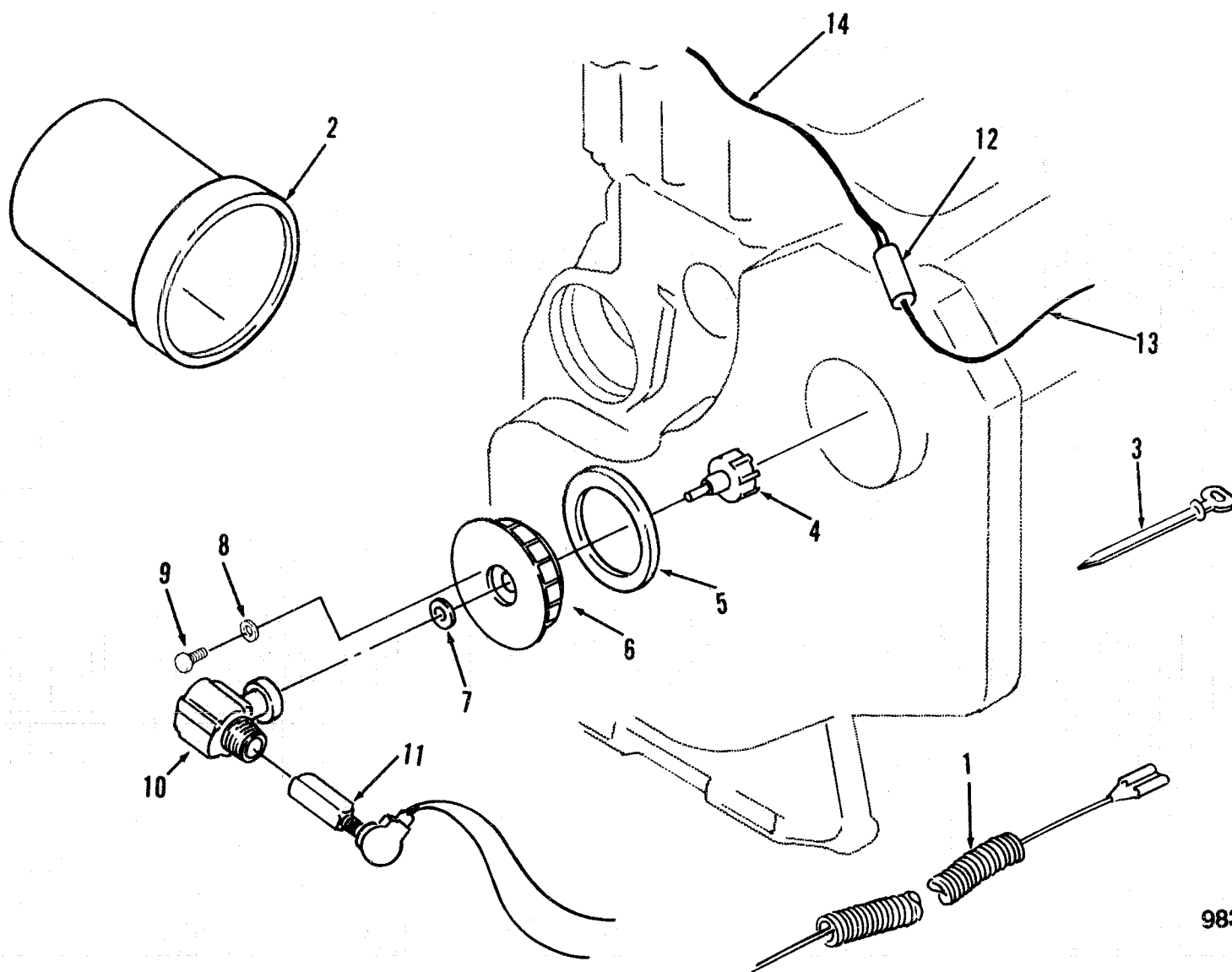
REF NO.	ONAN PART NO.	CUMMINS PART NO.	QTY. USED	PART DESCRIPTION
1	821-2046		3	Screw, Cap - Locking Head (M8 x 1.25 x 20)
2	332-1554		2	Clamp, Loop
3	130-3921		1	Tank, Expansion
4	503-1262		-	Hose, Bulk - 5/16" ID (Order by the foot - 3 ft. required)
5	502-0395		1	Connector, Hose
6	503-1711-02		1	Hose, Bulk - 1/4" ID (Order by the foot - 3 ft. required for 4 cylinder, 4 ft. required for 6 cylinder)
7	821-2065		2	Screw, Cap - Hex Head Locking (M10 x 1.5 x 45)
8	191-1988-01		2	Spacer
9		3911732	2	Clamp, Hose
10	501-0594-11		1	Hose
11	140-2654		1	Tube, Intake - Air
12	501-0594-12		1	Hose
13	503-1813-09		2	Clamp, Hose - T Bolt
14	503-0685		2	Clamp, Hose
15	502-0313		1	Elbow, 1/8 NPT
16	505-0007		1	Bushing, Reducer (1/4-1/8)
17	503-0183		4	Clamp, Hose
18	503-1467-02		-	Hose, Bulk - 3/4" ID (Order by the foot - 2 ft. required)
19	505-1459		1	Adapter, Reducing
20	509-0286		1	Washer, Sealing
21	504-0003		1	Valve, Drain
22	127-0406		1	Gasket, Drain - Turbo Oil
23	127-0405		1	Connection, Drain - Turbo Oil
24	503-1136		4	Clamp, Hose
25				Hose, Drain - Turbo
	503-1814-01		1	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB
	503-1814-02		1	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
26	127-0408		1	Adapter, Turbo
27	127-0409		3	Gasket, Turbocharger
28		3907978	4	Stud
29	526-2120		4	Washer, Flat (M10)
30	860-2009		4	Nut, Hex (M10 x 1.5)
31				Hose, Flexible
	501-0590-01		1	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB
	501-0590-02		1	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
32	502-1030		1	Connector, Hose (90°)
34	505-0151		1	Bushing, Reducer (1/2-1/4)
35	504-0005		1	Valve, Drain
36	503-0868		1	Clamp, Hose - T Bolt
37	140-2660		1	Cleaner, Air
38				Gasket, Cover - Manifold
	154-2833-01		1	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB
	154-2833-02		1	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
39				Cover, Manifold - Intake
	154-2831		1	MCGBA, MDGCA, MCGCB, MDGBA, MDGCA, MDGCB
	154-2832-01		1	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
42	502-0133		1	Elbow, Street (1/2-90°)
43	505-0056		1	Plug, Pipe
44	130-3721-01		1	Cap, Expansion Tank



980A

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-2046	3	Screw, Hex - Locking Head (M8 x 1.25 x 20)	8	191-1988-01	2	Spacer
2	332-1554	2	Clamp, Loop	9	502-1030	1	Connector, Hose
3	130-3921	1	Tank, Expansion	10	503-1467-02	-	Hose, Bulk - 3/4"ID (Order by the foot, 2 ft. required)
4	503-0276	-	Hose, Bulk - 5/16"ID (Order by the foot - 3 ft. required)	11	503-0183	4	Clamp, Hose
5	502-0395	2	Connector, Hose	12	505-0151	1	Bushing, Reducer (1/2 x 1/4)
6	503-1418	-	Hose, Bulk - 1/4"ID (Order by the foot - 1 ft. required for 4 cylinder, 2 ft. required for 6 cylinder)	13	504-0005	1	Valve, Drain
				14	502-0133	1	Elbow, Street - 90° x 1/2)
				15	505-0056	1	Plug, Pipe (1/2")
				16	130-3721-01	1	Cap, Expansion Tank
7	821-2065	2	Screw, Head - Locking (M10 x 1.5 x 45)				

Tachometer

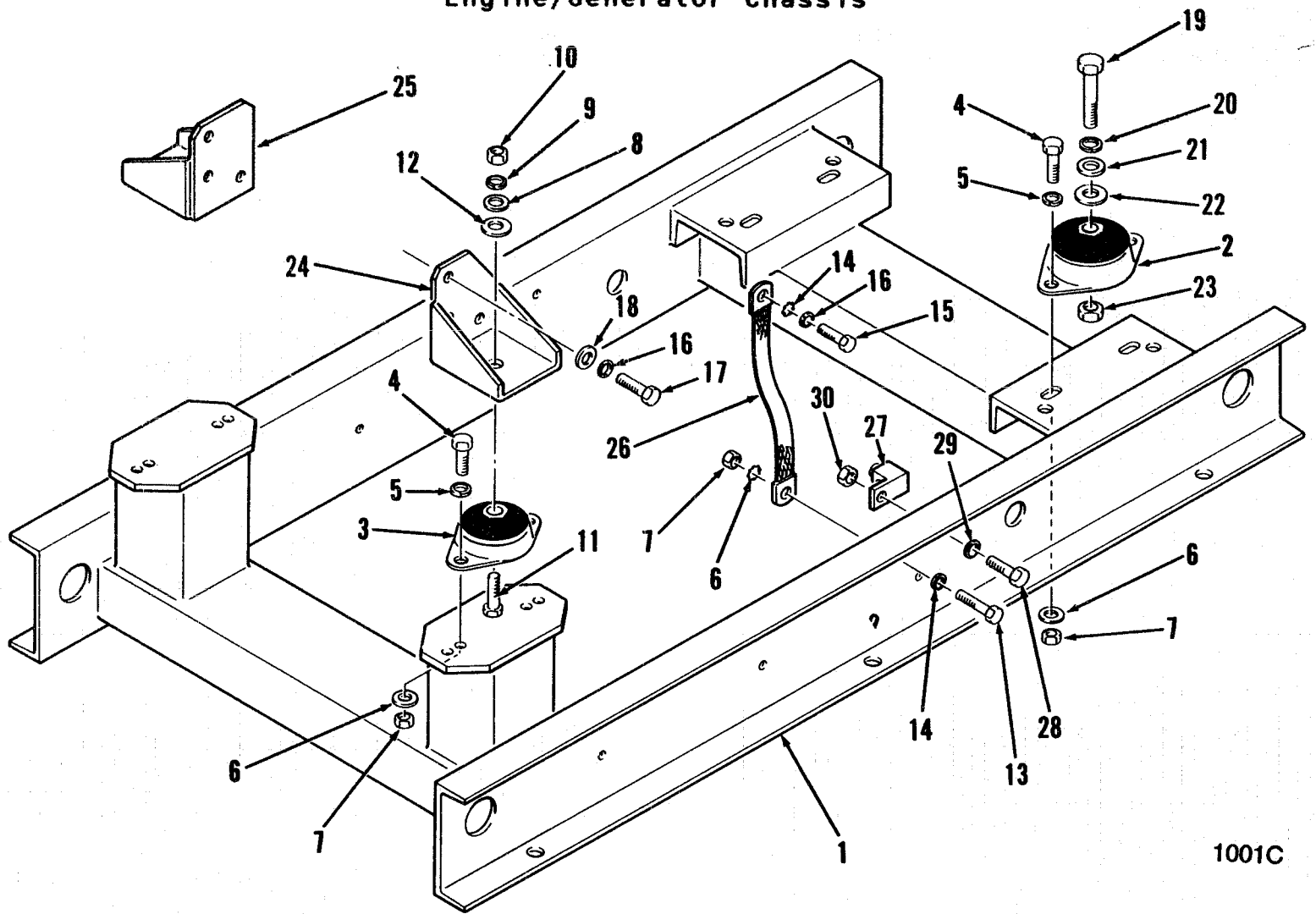


983A

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	338-2712	1	Harness, Tach
2	302-1873-01	1	Tachometer
3	332-1445	5	Tie, Cable
4	302-1960	1	Hub, Tach Drive Coupling
5	509-0281-08	1	Seal, Rectangular Ring
6	302-1959	1	Adapter, Tach - Off Drive
7	509-0281-18	1	Seal, Rectangular Ring

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
8	526-2080	1	Washer, Flat (M6)
9	800-2029	1	Screw, Hex Head (M6 x 12)
10	302-1958-03	1	Adapter, Angle Drive
11	302-1931	1	Sender, Tachometer
12	332-1506	2	Splice, Lead
13	226-4369-02	1	Lead
14	226-4369-01	1	Lead

Engine/Generator Chassis

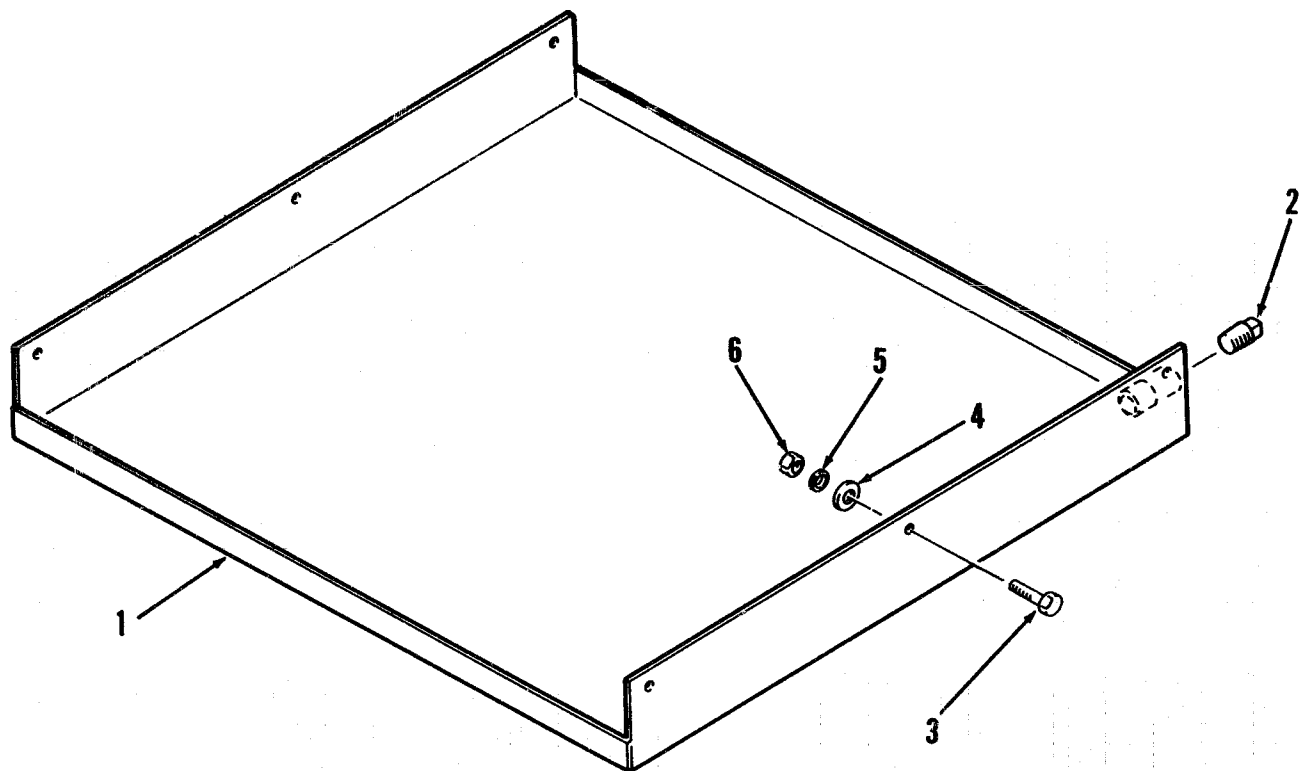


1001C

Engine/Generator Chassis

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	403-2956	1	Skid	12	526-0182	2	Washer, F
	403-3124	1	MDGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB		526-2183	2	Normal Duty (1/2")
2	402-0030	2	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA		526-0112	2	Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16)
	402-0630-03	2	Cushion, Rear		800-0090	1	Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
	402-0642	2	Normal Duty	13	856-0013	2	Screw, Cap - Hex Head (1/2-13 x 1)
3	402-0466	2	Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB	14	800-2111	1	Washer, Lock - EIT (1/2)
	402-0630-01	2	Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA	15	850-2012	7	Screw, Cap - Hex Head (M12 x 1.75 x 25)
	402-0642	2	Cushion, Front	16	800-2112	6	Washer, Lock - Spring (M12)
4	800-0091	8	Normal Duty	17	526-2148	6	Screw, Cap - Hex Head (M12 x 1.75 x 30)
5	526-0028	8	Heavy Duty - MCGBA, MDGCA, MCGCB, MDGBA, MDGCA, MDGCB	18	800-0156	2	Washer, Flat (M12)
	526-0028	8	Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA	19	800-2173	2	Screw, Cap - Hex Head
	526-0028	16	Screw, Cap - Hex Head (1/2-13 x 1-1/4")		800-0133	2	Normal Duty (3/4-10 x 2-1/4)
6	850-0060	9	Washer, Flat (1/2)		526-0389	2	Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16 x 2 x 40)
7	862-0016	9	Normal Duty Cushions		526-2183	2	Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA (5/8-11 x 1-3/4)
8	526-0028	2	Heavy Duty Cushions - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB	20	526-0112	2	Washer, Flat
	526-2193	2	Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA		526-0112	2	Normal Duty (3/4)
	526-0112	2	Washer, Lock - Spring (1/2)		526-0112	2	Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16)
9	850-0060	2	Nut, Hex (1/2-13)	21	526-0027	2	Heavy Duty - MCGDA, MDGDB, MCGGA, MDGDA, MDGDB, MDGGA (5/8)
	850-2016	2	Washer, Flat	22	850-0079	2	Washer, Flat (3/4) - Normal Duty
	850-0070	2	Normal Duty (1/2)		850-2016	2	Washer, Lock - Spring
10	862-0016	2	Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16)		850-0070	2	Normal Duty (3/4)
	862-0019	2	Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA (5/8)		862-0008	2	Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16)
11	800-0092	2	Washer, Lock - Spring	23	862-0019	2	Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA (5/8)
	800-2173	2	Normal Duty Cushions (1/2")		403-3115	1	Nut, Hex
	800-0133	2	Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16)		403-3116	1	Normal Duty (3/4-10)
			Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA (5/8)		337-0090	1	Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16)
			Nut, Hex		332-1473	1	Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA (5/8-11)
			Normal Duty (1/2-13)		800-0026	1	Bracket, Engine Mounting (RH)
			Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16)		856-0008	1	Bracket, Engine Mounting (LH)
			Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA (5/8-11)		870-0257	1	Strap, Ground
			Screw, Cap - Hex Head				Lug, Solderless
			Normal Duty (1/2-13 x 1-1/2)				Screw, Cap - Hex Head (5/16-18 x 3/4)
			Heavy Duty - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M16 x 2 x 40)				Washer, Lock - EIT (5/16)
			Heavy Duty - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA (5/8-11 x 1-3/4)				Nut, Hex - Locking (5/16-18)

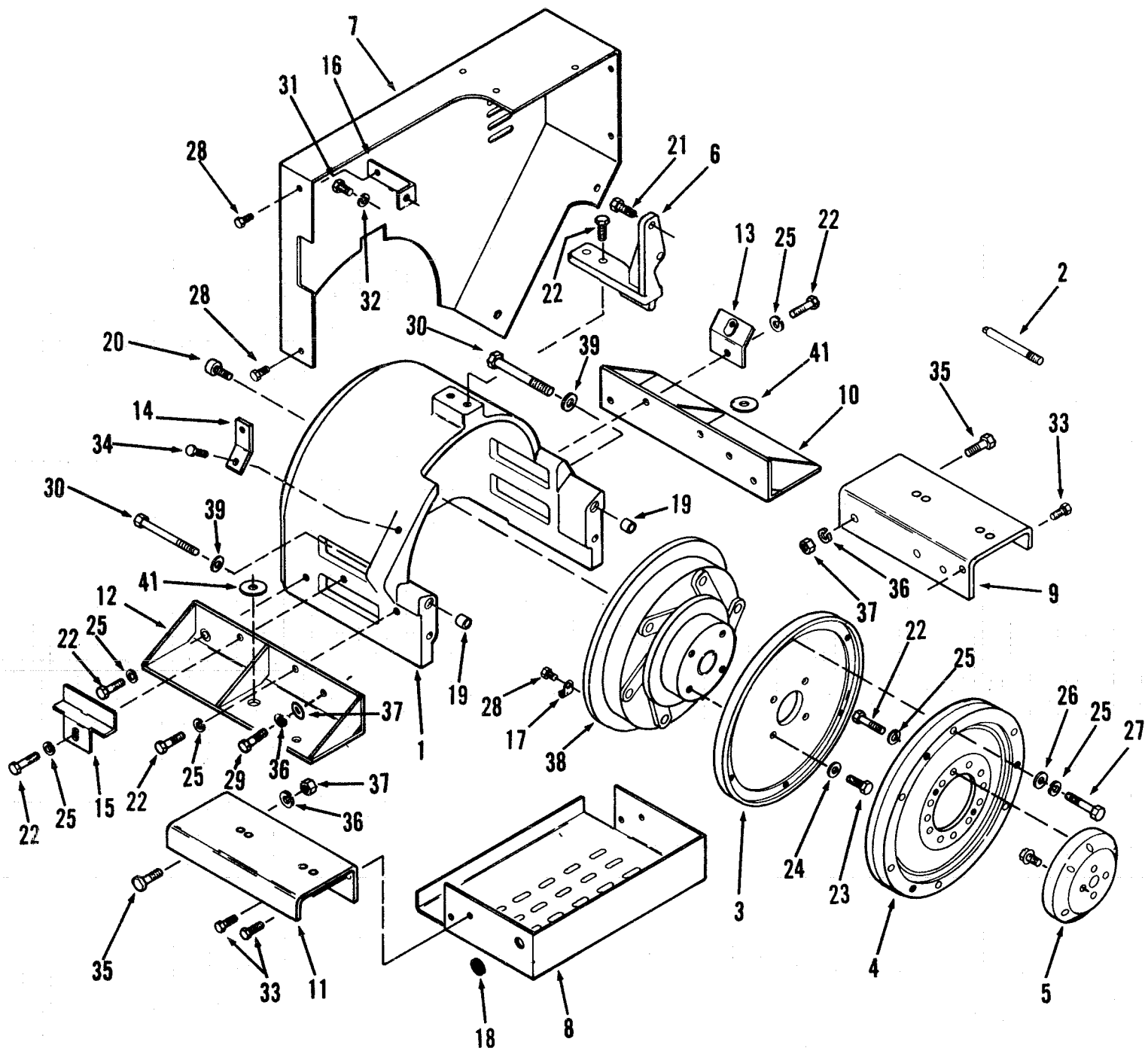
Drip Pan



986B

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	403-3144	1	Pan, Drip	5	850-0038	6	Washer, Lock - Spring (1/4)
	403-3145	1	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB		850-0038	8	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB
2	505-0055	1	Plug, Head - Square				MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
3			Screw, Cap - Hex Head (1/4-20 x 1")	6	862-0001	6	Nut, Hex (1/4-20)
	800-0007	6	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB		862-0001	8	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB
	800-0007	8	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA				MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
4			Washer, Flat (1/4)				
	526-0005	6	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB				
	526-0005	8	MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA				

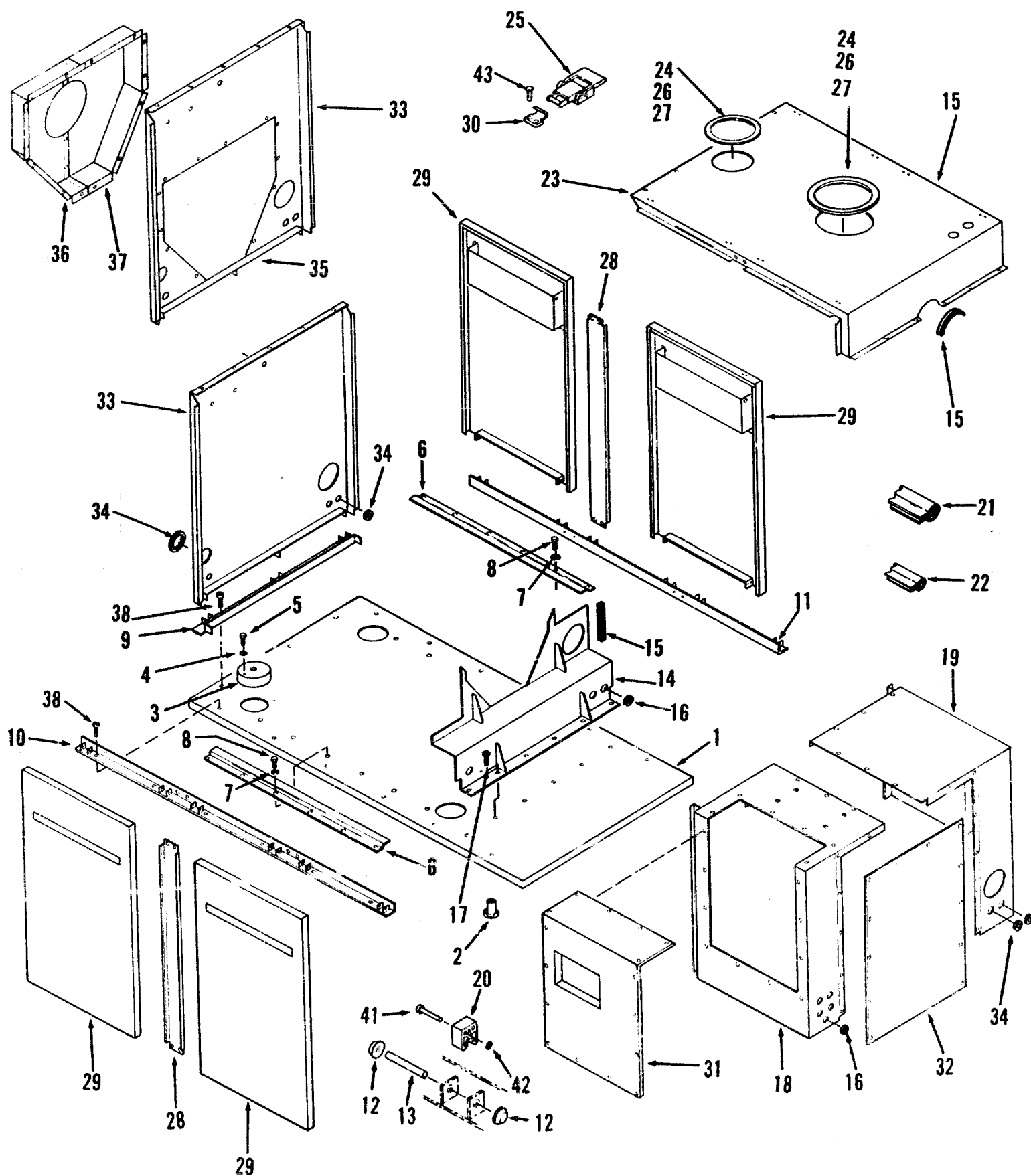
Power Takeoff
MCGBA, MCGCA, MCGCB, MCGDA, MCGDB, MCGGA



Power Takeoff
MCGBA, MCGCA, MCGCB, MCGBDA, MCGDB, MCGGA

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	190-0721-02	1	Housing, Power Takeoff	27	800-0054	6	Screw, Cap - Hex Head (3/8-16 x 2")
2	815-0813	2	Screw, Square Head Cap	28			Screw, Locking Head (1/4-20 x 1/2")
3	190-0717-02	1	Adapter, Drive Coupling		821-0010	4	Units Without Sound Shield
4	190-0720	1	Coupling, Flexible		821-0010	1	Units With Sound Shield
5	190-0716-02	1	Adapter, Drive Coupling	29	800-2112	4	Screw, Cap - Hex Head (M12 x 1.75 x .30")
6	190-0718-02	1	Support, Power Takeoff	30	815-0797-04	4	Screw, Hex Head - Flange Cap
7	130-4108-02	1	Guard, Power Takeoff - Units Without Sound shield	31	800-2085	1	Screw, Cap - Hex Head (M10 x 1.5 x 20) Units Without Sound Shield
8	190-0723-02	1	Guard, Front Power Takeoff	32	850-2010	1	Washer, Lock - Spring (M10) Units Without Sound Shield
9	403-3381-03	1	Bracket, Engine Mounting - RH	38	821-0018	4	Screw, Locking Head (1/4-20 x .625")
10	403-3379-02	1	Support, Front Engine	34	821-0028	1	Screw, Locking Head (3/8-16 x 1 1/2") - Units Without Sound Shield
11	403-3381-04	1	Bracket, Engine Mounting - LH	36	800-0091	4	Screw, Cap - Hex Head (1/2-13 x 1-1/4")
12	403-3380-02	1	Support, Front Engine	36	862-0016	4	Nut, Hex (M3)(1/2-13)
13	130-4109-02	1	Bracket, Belt, Guard - Units Without Sound Shield	37	850-0058	4	Washer, Lock - Spring (1/2") Clutch
14	130-4110-02	1	Bracket, Belt Guard - Units Without Sound Shield	38			12 Volt, 70 Horsepower
15	190-0722-02	2	Guard, Front Power Takeoff		190-0719-01	1	24 Volt, 70 Horsepower
16	130-3820	1	Bracket, Belt Guard - Units Without Sound Shield		190-0719-02	1	24 Volt, 100 Horsepower
17	518-0599	1	Clamp, Tube		190-0724-01	1	24 Volt, 100 Horsepower
18	508-0008	1	Grommet, Rubber		190-0724-02	1	12 Volt, 100 Horsepower
19	370-4082-01	2	Dowel	39	526-2148	8	Washer, Flat (M12)
20	802-0072	8	Screw, Socket Head	40	850-2012	4	Washer, Lock (M12)
21	800-2058	2	Screw, Cap - Hex Head (M8 x 1.25 x 25)	41	526-0161	2	Washer, Flat
22	800-0052	14	Screw, Cap - Hex Head (3/8-16 x 1-1/2")				
23	805-0027	4	Bolt, Place (7/16-20 x .88")				
24	526-1186	4	Washer, Flat (7/16")				
25	850-0048	18	Washer, Lock - Spring (3/8")				
26	526-1274	6	Washer, Flat (3/8")				

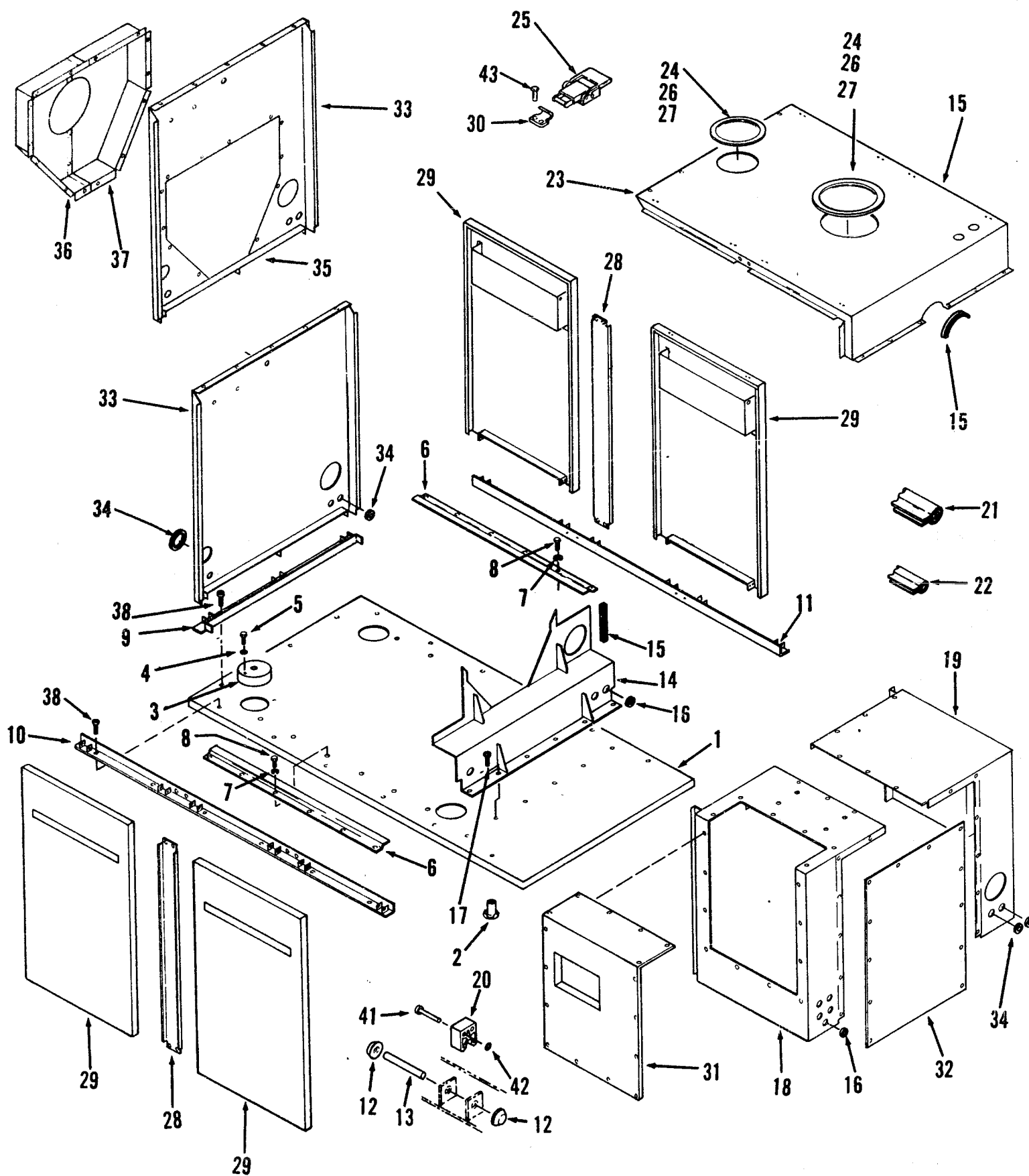
Housing
MCGBA, MCGCA, MCGCB, MCGDA, MCGDB, MCGGA



Housing **MCGBA, MCGCA, MCGCB, MCGDA, MCGDB, MCGGA**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	405-4485-02	1	Base, Housing Sets With 4 Cylinder Engine, Generator Frame Size 2C,2D, 2E,2F,2G,3C,3D With or Without Power Takeoff	17	808-0045	22	Screw, Round Head Self Tapping (#12 x .88")
	405-4486-03	1	Sets With 6 Cylinder Engine, Generator Frame Size 2F,2G, 3C,3D With or Without Power Takeoff	18			Housing Assembly, Generator - RH (Includes: Clips, Edge Seal, Grommets and Edging)
	405-4486-04	1	Sets With 6 Cylinder Engine, Generator Frame Size 3E,3F, 3G,3H With or Without Power Takeoff	405-4506	1		Sets With 4 Cylinder Engine, Generator Frame Size 2C,2D, 2E,2F,2G,3C,3D - With or Without Power Takeoff
2	870-0413	12	Nut, Tee (5/16-18)	405-4506	1		Sets With 6 Cylinder Engine, Generator Frame Size 2F,2G, 3C,3D With or Without Power Takeoff
3	403-3298	4	Spacer, Skid Mounting	405-4507	1		Sets With 6 Cylinder Engine, Generator Frame Size 3E,3F, 3G,3H With or Without Power Takeoff
4	526-0076	4	Washer, Flat (5/16")	19			Housing Assembly, Generator - LH (Includes: Clips, Edge Seal, Grommets and Edging)
5	815-0290	4	Screw, Hex Washer, Head (1/4-20 x .62")	405-4512	1		Sets With 4 Cylinder Engine, Generator Frame Size 2C,2D, 2E,2F,2G,3C,3D - With or Without Power Takeoff
6	405-4484-03	2	Clamp, Skid	405-4512	1		Sets With 6 Cylinder Engine, Generator Frame Size 2F,2G, 3C,3D - With or Without Power Takeoff
7	850-0045	12	Washer, Lock (5/16")	405-4513	1		Sets With 6 Cylinder Engine, Generator Frame Size 3E,3F, 3G,3H - With or Without Power Takeoff
8	800-0031	12	Screw, Cap - Hex Head (5/16-18 x 1-1/2")	20	405-1872	15	Clip, Door
9	405-4483	1	Rail Assembly, Front	21			Seal, Edge (5/8" Bulb) - Bulk Stock Number 508-0330 - Order by the Foot - 6-1/2 Feet required for Complete Housing
10	405-4474	1	Rail Assembly, Door - RH Sets With 4 Cylinder Engine, Generator Frame Size 2C,2D, 2E,2F,2G,3C,3D With or Without Power Takeoff	22			Seal, Edge (7/16" Bulb) - Bulk Stock Number 508-1011 - Order by the Foot - 12 Feet Required for Complete Housing
	405-4480	1	Sets With 6 Cylinder Engine, Generator Frame Size 2F, 2G,3C,3D,3E,3F,3G,3H With or Without Power Takeoff	23			Roof Assembly, Housing (Includes Access Covers, Catches & Edging)
11	405-4474	1	Rail Assembly, Door - LH Sets With 4 Cylinder Engine, Generator Frame Size 2C,2D, 2E,2F,2G,3C,3D With or Without Power Takeoff	405-4450	1		Sets With 4 Cylinder Engine, Generator Frame Size 2C,2D, 2E,2F,2G,3C,3D - With or Without Power Takeoff
	405-4477	1	Sets With 6 Cylinder Engine, Generator Frame Size 2F,2G, 3C,3D,3E,3F,3G,3H With or Without Power Takeoff	405-4457	1		Sets With 6 Cylinder Engine, Generator Frame Size 2F,2G, 3C,3D,3E,3F,3G,3H - With or Without Power Takeoff
12	870-0400	42	Nut, Push On - Cap	24			Cover, Access
13	405-3111	21	Pin, Clip	405-4528	1		7.94" Diameter
14	405-4516	1	Baffle Assembly, Generator Sets With 4 Cylinder Engine, Generator Frame Size 2C,2D, 2E,2F,2G With or Without Power Takeoff	405-4529	1		9.75" Diameter
	405-4516	1	Sets With 6 Cylinder Engine, Generator Frame Size 2F,2G With or Without Power Takeoff	25	406-0528-02	8	Catch - Spring
	405-4517	1	Sets With 4 Cylinder Engine, Generator Frame Size 3C,3D With or Without Power Takeoff	26	815-0807	12	Screw, Flat Head Machine (#10-24 x .62")
	405-4517	1	Sets With 6 Cylinder Engine, Generator Frame Size 3C,3D, 3E,3G,3H - With or Without Power Takeoff	27	870-0427	12	Nut, Hex (#10-24)
15			Edging, Bulk Stock Number 508-0210 - Order by the Foot - 25 Feet Required for Complete Housing	28	405-4471	2	Support Assembly, Roof (Includes Edging)
16	508-0117	15	Grommet (For 1-3/8" Hole)				

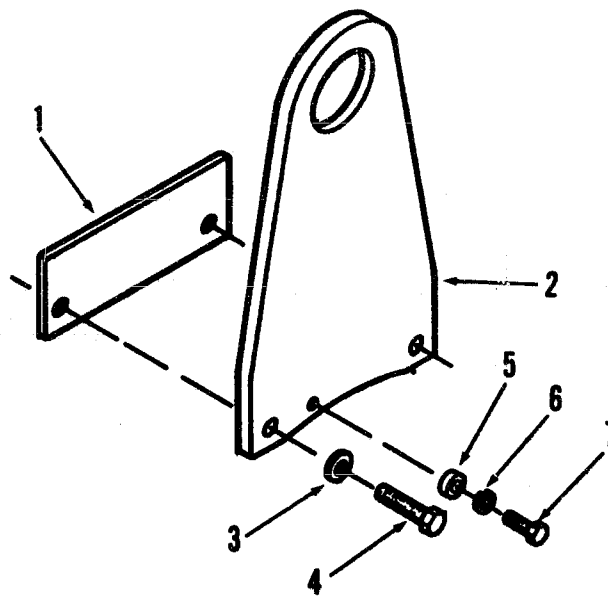
Housing
MCGBA, MCGCA, MCGCB, MCGDA, MCGDB, MCGGA



Housing
MCGBA, MCGCA, MCGCB, MCGDA, MCGDB, MCGGA

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
29			Door Assembly, Housing (Includes Clips, Strike-Spring, and Edge Seal)	36	405-4522	1	Cover Assembly, Power Takeoff - RH - Used only on Sets With Power Takeoff (Includes Edge Seal)
	405-4446	4	Sets With 4 Cylinder Engine, Generator Frame Size 2C, 2D, 2E, 2F, 2G, 3C, 3D - With or Without Power Takeoff	37	405-4523	1	Cover Assembly, Power Takeoff - LH - Used only on Sets With Power Takeoff (Includes Edge Seal)
	405-4454	4	Sets With 6 Cylinder Engine, Generator Frame Size 2F, 2G, 3C, 3D, 3E, 3F, 3G, 3H - With or Without Power Takeoff	38	815-0765	50	Screw, Truss Head (1/4-20 x 1/2)
30	406-0528-01	8	Strike-Spring				Sets With 4 Cylinder Engine, Generator Frame Size 2C, 2D, 2E, 2F, 2G, 3C, 3D - Without Power Takeoff
31			Cover Assembly, Generator Housing (Includes Edging)		815-0765	50	Sets With 6 Cylinder Engine, Generator Frame Size 2F, 2G, 3C, 3D - Without Power Takeoff
	405-4552	1	Sets With 4 Cylinder Engine, Generator Frame Size 2C, 2D, 2E, 2F, 2G, 3C, 3D - With or Without Power Takeoff		815-0765	51	Sets With 6 Cylinder Engine, Generator Frame Size 3E, 3F, 3G, 3H - Without Power Takeoff
	405-4552	1	Sets With 6 Cylinder Engine, Generator Frame Size 2F, 2G, 3C, 3D - With or Without Power Takeoff		815-0765	67	Sets With 4 Cylinder Engine, Generator Frame Size 2C, 2D, 2E, 2F, 2G, 3C, 3D - With Power Takeoff
	405-4574	1	Sets With 6 Cylinder Engine, Generator Frame Size 3E, 3F, 3G, 3H - With or Without Power Takeoff		815-0765	67	Sets With 6 Cylinder Engine, Generator Frame Size 2F, 2G, 3C, 3D - With Power Takeoff
32	405-4515	1	Panel Assembly, Generator Housing (Includes Edge Seal)		815-0765	68	Sets With 6 Cylinder Engine, Generator Frame Size 3E, 3F, 3G, 3H - With Power Takeoff
33			Panel Assembly, Front (Includes Door Clips, Edge Seal, Grommets and Edging)	40			Nut, Retainer (1/4-20)
	405-4465	1	All Sets Without Power Takeoff		870-0110	30	Sets Without Power Takeoff
	405-4466	1	All Sets With Power Takeoff		870-0110	42	Sets With Power Takeoff
34			Grommet	41	818-0150	30	Rivet, Drive - Aluminum (5/32 x 3/4")
	508-0021	1	For 3/4" Hole	43	526-0003	30	Washer, Flat (5/32")
	508-0115	1	For 2-1/2" Hole	43			Rivet, SS (.125")
35	405-4468-03	1	Support, Front Panel Assembly - Sets With Power Takeoff (Part of the Front Panel Assembly)		818-0194	14	Sets With 4 Cylinder Engine
					818-0194	16	Sets With 6 Cylinder Engine

Lift Bracket
MCGBA, MCGCA, MCGCB, MCGDA, MCGDB, MCGGA



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-3299-03	1	Spacer, Lift Bracket
2	403-3292-03	1	Bracket, Lifting
3	740-1010	2	Washer, Flat (M12)
4	720-1075	2	Screw, Cap - Hex Head (M12 x 1.75 x 35)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	370-4052	1	Spacer, Pump Mounting
6	850-0045	1	Washer, Lock - Spring (5/16")
7	800-0028	1	Screw, Cap - Hex Head (5/16-18 x 1")

This exploded view diagram illustrates the assembly of a vacuum furnace. The main components are labeled as follows:

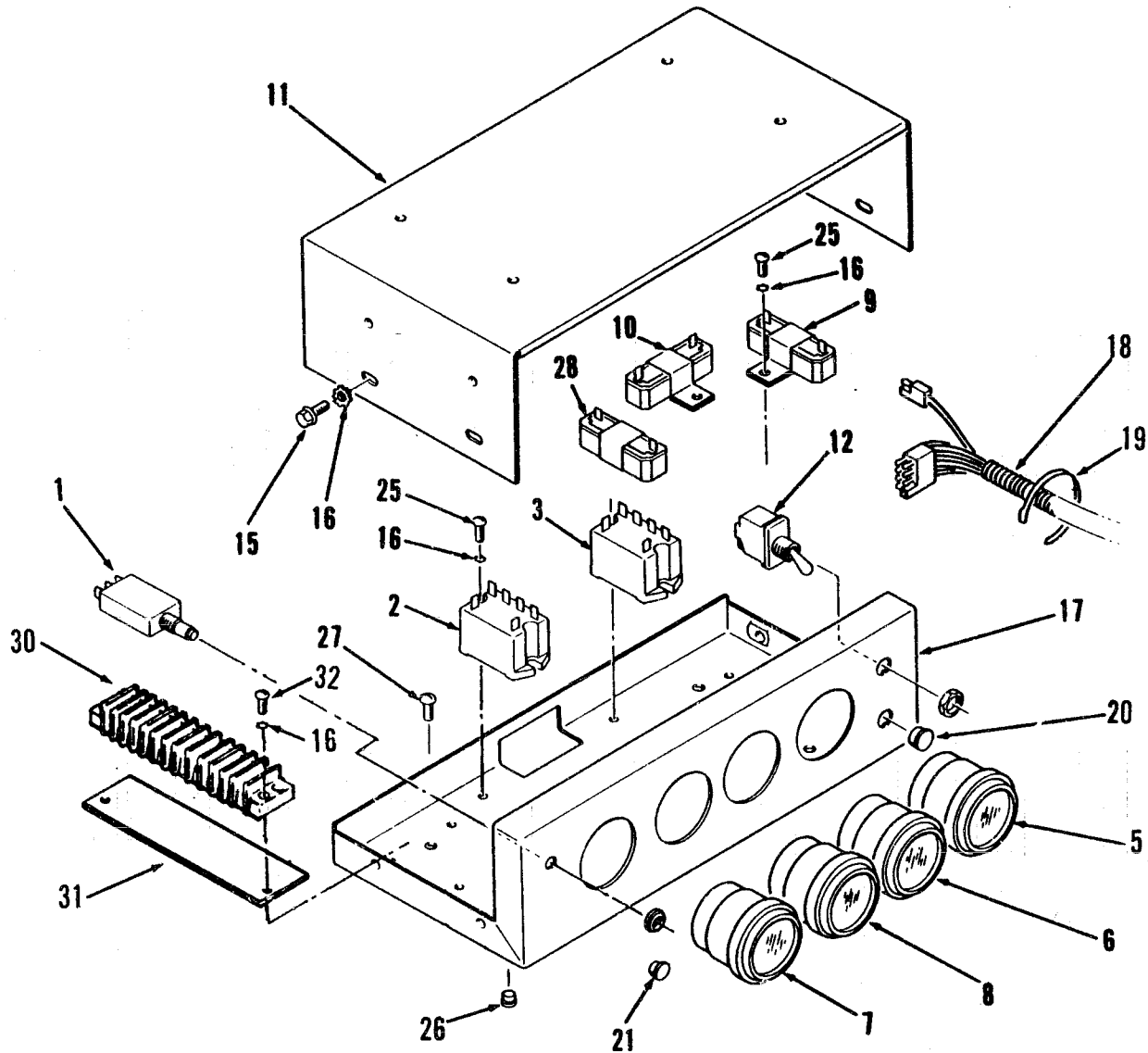
- 1**: Base plate or support structure.
- 2**: Small cylindrical components, likely spacers or pins.
- 3**: Small cylindrical components, likely spacers or pins.
- 4**: Small cylindrical components, likely spacers or pins.
- 5**: Small cylindrical components, likely spacers or pins.
- 6**: Small cylindrical components, likely spacers or pins.
- 7**: Small cylindrical components, likely spacers or pins.
- 8**: Small cylindrical components, likely spacers or pins.
- 9**: Small cylindrical components, likely spacers or pins.
- 10**: Small cylindrical components, likely spacers or pins.
- 11**: Main furnace chamber or housing.
- 12**: Small cylindrical components, likely spacers or pins.
- 13**: Small cylindrical components, likely spacers or pins.
- 14**: Small cylindrical components, likely spacers or pins.
- 15**: Small cylindrical components, likely spacers or pins.
- 16**: Small cylindrical components, likely spacers or pins.
- 17**: Small cylindrical components, likely spacers or pins.
- 18**: Small cylindrical components, likely spacers or pins.
- 19**: Small cylindrical components, likely spacers or pins.
- 20**: Small cylindrical components, likely spacers or pins.
- 21**: Small cylindrical components, likely spacers or pins.
- 22**: Small cylindrical components, likely spacers or pins.
- 23**: Small cylindrical components, likely spacers or pins.

45

Control Housing

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	319-1063	1	Bracket, Terminal	12			Seal, Edge
2	332-2987	4	Link, Terminal		305-0837-04	1	30MCGBA, 35MCGBA, 35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 30MDGBA, 35MDGBA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA (UC22 Generator)
3	526-2120	8	Washer, Flat (M10)				
4	850-2010	10	Washer, Lock - Spring (M10)		305-0837-02	1	55MCGCB, 65MCGDA, 75MCGDA, 75MCGDB, 95MCGDB, 55MDGCB, 65MDGDA, 75MDGDA, 75MDGDB, 95MDGDB (UC27 Generator)
5	860-2009	8	Nut, Hex (M10)				
6	800-0030	1	Screw, Cap - Hex Head (5/16-18 x 1-1/4")	13	800-2087	2	Screw, Cap - Hex Head (M10 x 1.5 x 30)
7	526-0115	3	Washer, Flat (5/16")	14	402-0610	4	Isolator, Vibration
8	850-0045	3	Washer, Lock - Spring (5/16")	15	870-0212	4	Nut, Locking (1/4-20)
9	232-3421	1	Block, Terminal - Main	16	821-0010	4	Screw, Head - Locking (1/4-20 x 1/2")
10	800-0031	2	Screw, Cap - Hex Head (5/16-18 x 1-1/2")	17	517-0290	4	Plug
11			Saddle, Housing - Control	18	812-0145	8	Screw, Round Head (1/4-20 x 1/2")
	319-1070	1	30MCGBA, 35MCGBA, 35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 30MDGBA, 35MDGBA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA (UC22 Generator)	19	517-0131	2	Plug
				20	526-0028	2	Washer, Flat (1/2")
	319-1071	1	55MCGCB, 65MCGDA, 75MCGDA, 75MCGDB, 95MCGDB, 55MDGCB, 65MDGDA, 75MDGDA, 75MDGDB, 95MDGDB (UC27 Generator)	21	319-1124	2	Cover, Opening - Saddle
				22	319-1053	1	Cover, Opening - Saddle
				23	821-0018	21	Screw, Locking - Head (1/4-20 x .62)

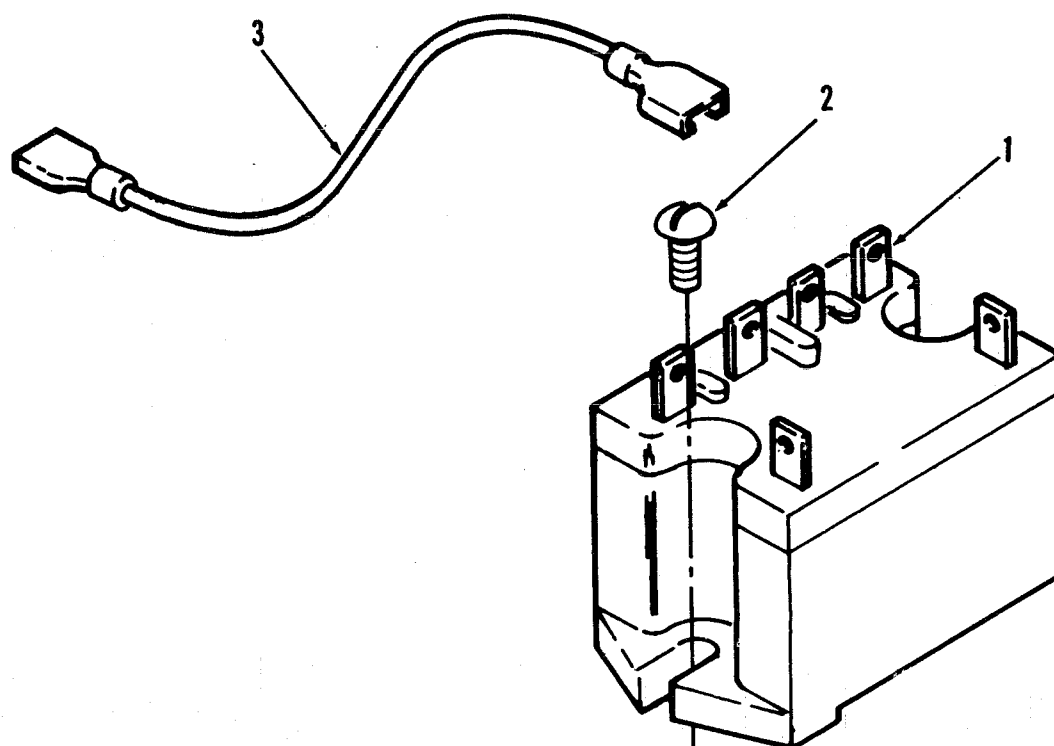
Engine Control



REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	320-1706-01	1	Breaker, Circuit (CB115)
2	307-2677-04	1	Relay, Crank (K104)
	307-2677-01	1	12 Volt
		1	24 Volt
3	307-2677-04	1	Relay, Run (K105)
	307-2677-01	1	12 Volt
		1	24 Volt
5	302-1836	1	Hourmeter (M119)
6		1	Voltmeter, DC (M121)
	302-1641	1	12 Volt
	302-1642	1	24 Volt
7	193-0352	1	Gauge, Pressure - Oil (M124)
		1	(193-0250 Resistor Used With 24V System - Not Illustrated)
8	193-0351	1	Gauge, Temperature - Water
		1	(M127) (193-0250 Resistor Used with 24 V System - Not Illustrated)
9		1	Resistor (R104)
	353-0094-05	1	12 Volt
	353-0094-01	1	24 Volt
10		1	Resistor (R105)
	353-0094-05	1	12 Volt
	353-0094-01	1	24 Volt
11		1	Cover, Control
	319-1062-03	1	Standard (3.88 x 14.28 x 7.57)
	319-1061	1	6 Meter Box (5.63 x 14.28 x 7.57)

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
12	308-0950	1	Switch, Toggle - Start/Run/Stop (S103)
15	800-0711	4	Screw, Machine
16	853-0005	10	Washer, Lock - ET (#8)
17		1	Box, Control
	319-1059	1	4 Meter (Std.)
	319-1058	1	6 Meter
	319-1060	1	3 Meter
18	338-2602	1	Harness, Wiring - DC Control
	338-2833	1	Harness, Wiring - DC Control
19	332-1445	8	Tie, Cable
20	517-0132	1	Plug (.437 Dia.)
21	517-0131	1	Plug (.375 Dia.)
25	812-0148	2	Screw, Machine - Round Head (1/4-20 x 1/2")
26	517-0290	8	Plug
27	821-0018	4	Screw, Head - Locking (1/4-20 x .62)
28	193-0250	2	Resistor, 12 Volt (R117)
30	332-3177	1	Terminal, Block
31	332-3174	1	Strip, Marker
32	812-0079	2	Screw, Machine - Round Head (#8-32 x 1/2)

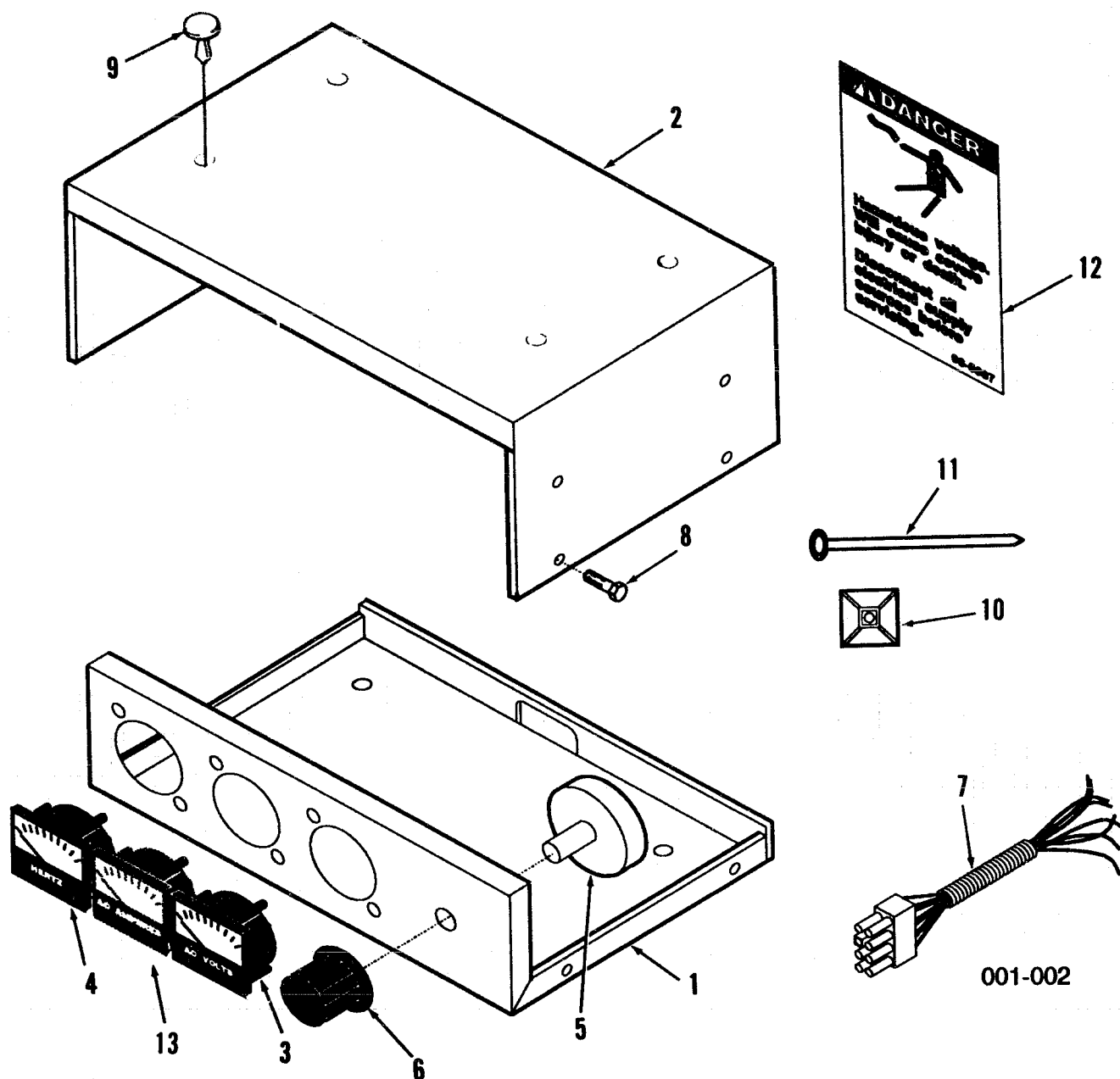
Start Disconnect



982A

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	307-2677-03	1	Relay - 2P5T (240 Volt)
2	812-0075	2	Screw, Machine - Round Head (#8-32 x 1/4)
3	226-4150	2	Lead

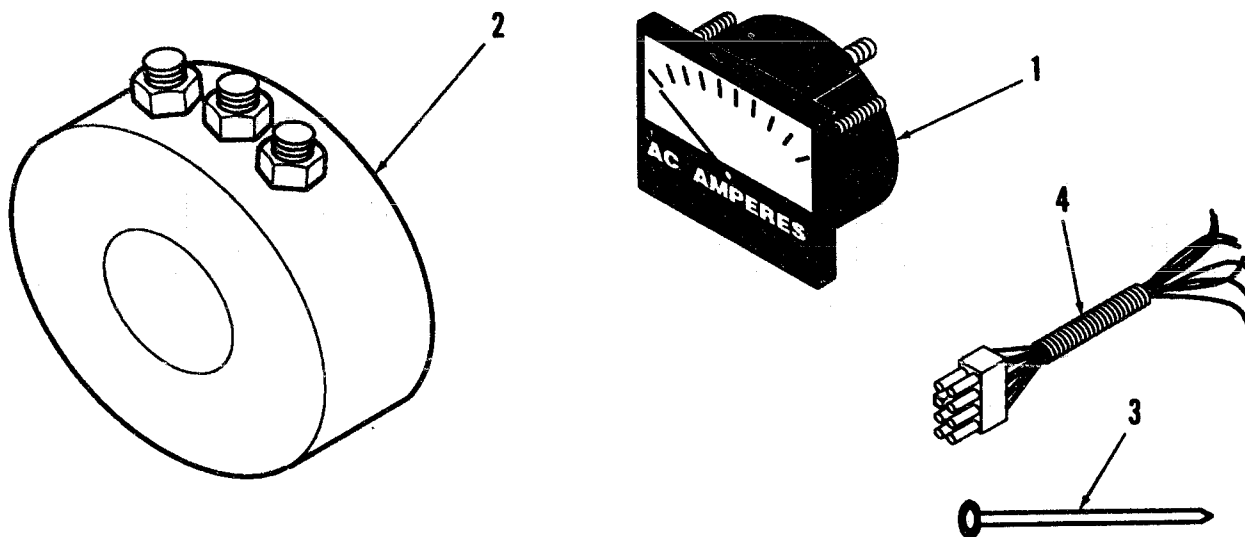
AC Control



REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	319-1060	1	Panel, Control
2	319-1062-01	1	Cover, Panel - Control
3	302-1753	1	Voltmeter, AC
4	302-1720	1	Meter, Frequency
5	308-0882	1	Switch, Rotary
6	303-0032	1	Knob, Switch
7	338-2693	1	Harness, Wiring - AC Control
8	821-0018	4	Screw, Head - Locking (1/4-20 x .625)
9	517-0290	8	Plug
10	332-2420	1	Mount, Tie

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
11	332-0941	1	Tie, Cable
12	98-5387	2	Label (Danger)
13			Ammeter (AC)
	302-1473	1	0/50/100
	302-1147	1	0/75/150
	302-1683	1	0/100/200
	302-1684	1	0/150/300
	302-1685	1	0/200/400
	302-1724	1	0/250/500
	302-1725	1	0/375/750
	302-1726	1	0/400/800

Ammeter and Current Transformer

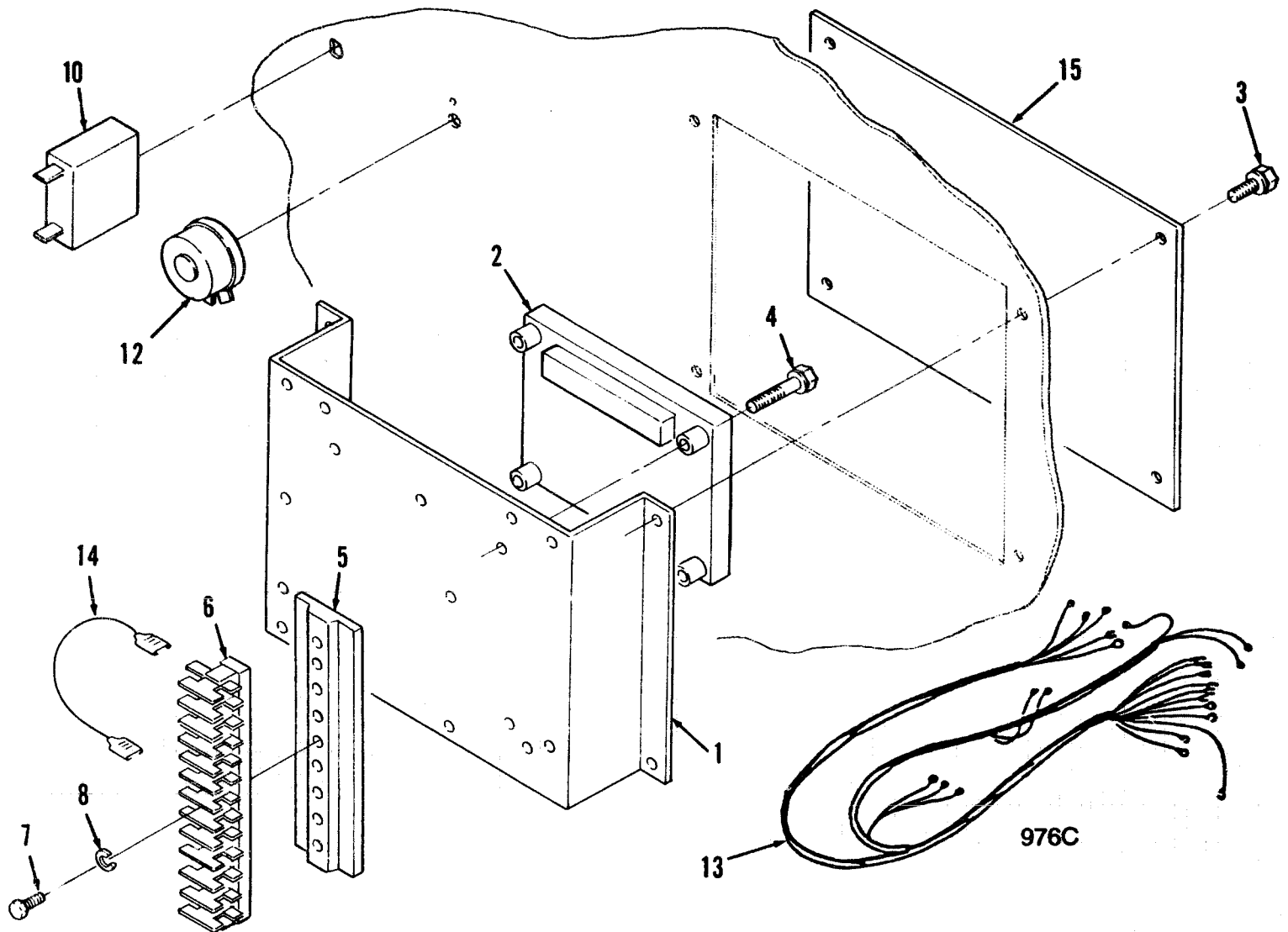


001-001

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Ammeter (AC)
	302-1473	1	0/50/100
	302-1147	1	0/75/150
	302-1683	1	0/100/200
	302-1684	1	0/150/300
	302-1685	1	0/200/400
	302-1724	1	0/250/500
	302-1725	1	0/375/750
	302-1726	1	0/400/800

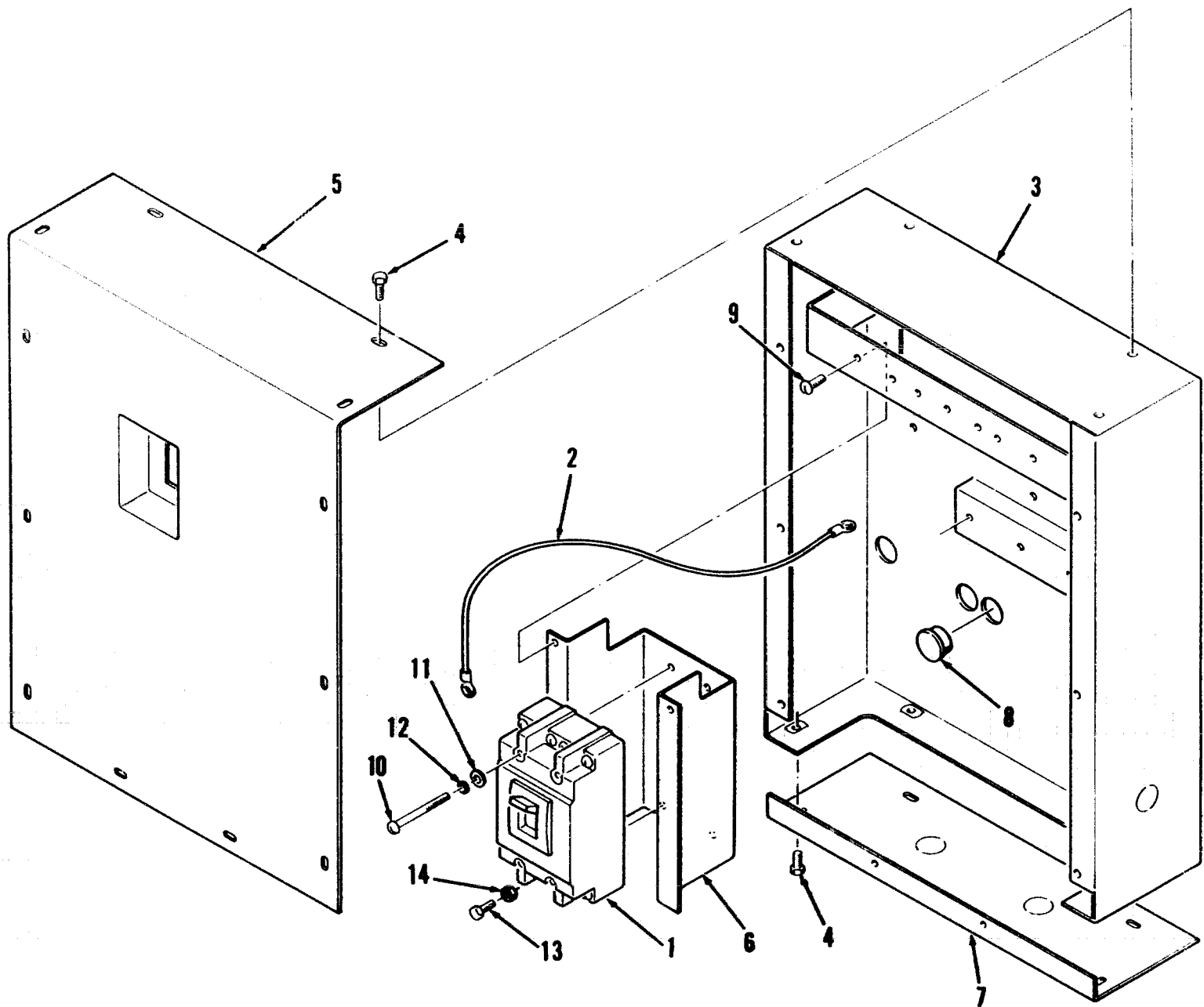
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2			Transformer, Current
	302-1845-02	3	Ratio 50/100/5
	302-1794-01	3	Ratio 75/150/5
	302-1794-02	3	Ratio 100/200/5
	302-1794-03	3	Ratio 150/300/5
	302-1794-04	3	Ratio 200/400/5
	302-1794-05	3	Ratio 250/500/5
	302-1794-07	3	Ratio 375/750/5
	302-1794-08	3	Ratio 400/800/5
3	332-1389	6	Tie, Cable
4	338-2695	1	Harness, Generator - AC

Voltage Regulator



REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
1	305-0848-01	011-11400	1	Bracket, Mounting - Regulator
2				Regulator, Voltage
	305-0824	E000-24030	1	Used without Permanent Magnet Exciter Generator (Model SX440)
	305-0823	E000-23210	1	Used with Permanent Magnet Exciter Generator (Model MX321)
	305-0817	450-11400	1	Manual
3	821-2021		4	Screw, Flange - Locking (M5 x 0.8 x 10)
4	821-2025		4	Screw, Flange - Locking (M5 x 0.8 x 30)
5	232-3536	130-20102	1	Base, Block - Terminal
6	332-3107	B450-14936	1	Block, Terminal
7	800-4077		3	Screw, Cap - Hex Head (M4 x 25)
8	850-2004		3	Washer, Lock - Spring (M4)
10				Breaker, Circuit
	320-1688-01		1	Without Auxiliary Contacts
	320-1688-02		1	With Auxiliary Contacts
12				Potentiometer
	303-0261		1	Without Permanent Magnet Exciter Generator
	303-0285		1	With Permanent Magnet Exciter Generator
13				Harness, Wiring
	338-2549		1	Regulator - Used Without Permanent Magnet Exciter Generator
	338-2608		1	Regulator - Used With Permanent Magnet Exciter Generator
	338-2548		1	Generator
	338-2609		1	Circuit Breaker
	338-2547		1	Permanent Magnet Exciter
14				Lead
	226-4084-01		1	Jumper
	226-4162		1	Circuit Breaker
15	305-0839		1	Cover, Regulator - Voltage

Thermal Magnetic Circuit Breaker



1006C

Thermal Magnetic Circuit Breaker

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1		1	Breaker, Circuit - Refer to Table	11		2	Washer, Flat
3	319-1080	1	Box, Breaker - Circuit		526-0048	2	2 Pole, 240 Volt - 125 thru 225 Amp
4			Screw, Head - Locking (1/4-20 x 1/2")		526-0048	4	3 Pole, 240 Volt - 125 thru 225 Amp
	821-0010	26	125 thru 225 Amp		740-1004	2	All 250 thru 600 Amp
	821-0010	24	250 thru 600 Amp	12		2	Washer, Lock - Spring
5			Cover, Breaker - Circuit		850-0025	2	2 Pole, 240 Volt - 125 thru 225 Amp
	319-1074-01	1	125 thru 225 Amp		850-0025	4	3 Pole, 240 Volt - 125 thru 225 Amp
	319-1072-01	1	250 thru 600 Amp		850-0040	2	All 250 thru 600 Amp
6	319-1076	1	Bracket, Breaker - Circuit - 125 thru 225 Amp Circuit Breaker	13	812-0164	2	Screw, Machine - Round Head (1/4-20 x 4-1/4")
7	319-1075	1	Cover, Breaker - Circuit				All 250 thru 600 Amp
8	517-0289	6	Plug	14	862-0025	2	Nut, Machine - Hex (1/4-20)
9	812-0148	2	Screw, Machine - Round Head (1/4-20 x 1/2")				All 250 thru 600 Amp
			125 thru 225 Amp				
10			Screw, Machine - Round Head				
	812-0092	2	2 Pole, 240 Volt - 125 thru 225 Amp				
	812-0092	4	3 Pole, 240 Volt - 125 thru 225 Amp				
	812-0157	2	All 250 thru 600 Amp				

Thermal Magnetic Circuit Breaker

2 POLE - 240 VOLT

<u>Ampere</u>	<u>Standard</u>	<u>With Auxiliary Contacts</u>	<u>With 12 Volt DC Shunt Trip</u>	<u>With 24 Volt DC Shunt Trip</u>	<u>With Auxiliary Contacts and 12 Volt DC Shunt Trip</u>	<u>With Auxiliary Contacts and 24 Volt DC Shunt Trip</u>
125	320-1555-01	320-1556-01	320-1557-01	320-1557-11		
150	320-1555-02	320-1556-02	320-1557-02	320-1557-12		
175	320-1555-03	320-1556-03	320-1557-03	320-1557-13		
200	320-1555-04	320-1556-04	320-1557-04	320-1557-14		
225	320-1555-05	320-1556-06	320-1557-05	320-1557-15		
250	320-1555-11	320-1556-11	320-1557-51	320-1557-59		
300	320-1555-12	320-1556-12	320-1557-52	320-1557-60		
350	320-1555-13	320-1556-13	320-1557-53	320-1557-61		
400	320-1555-14	320-1556-14	320-1557-54	320-1557-62		
450						
500						
600						

2 POLE - 600 VOLT

<u>Ampere</u>	<u>Standard</u>	<u>With Auxiliary Contacts</u>	<u>With 12 Volt DC Shunt Trip</u>	<u>With 24 Volt DC Shunt Trip</u>	<u>With Auxiliary Contacts and 12 Volt DC Shunt Trip</u>	<u>With Auxiliary Contacts and 24 Volt DC Shunt Trip</u>
125	320-1513-01	320-1516-01	320-1519-01	320-1522-01	320-1534-01	320-1537-01
150	320-1513-02	320-1516-02	320-1519-02	320-1522-02	320-1534-02	320-1537-02
175	320-1513-03	320-1516-03	320-1519-03	320-1522-03	320-1534-03	320-1537-03
200	320-1513-04	320-1516-04	320-1519-04	320-1522-04	320-1534-04	320-1537-04
225	320-1513-05	320-1516-05	320-1519-05	320-1522-05	320-1534-05	320-1537-05
250	320-1513-06	320-1516-06	320-1519-06	320-1522-06	320-1534-06	320-1537-06
300	320-1513-07	320-1516-07	320-1519-07	320-1522-07	320-1534-07	320-1537-07
350	320-1513-08	320-1516-08	320-1519-08	320-1522-08	320-1534-08	320-1537-08
400	320-1513-09	320-1516-09	320-1519-09	320-1522-09	320-1534-09	320-1537-09
450	320-1513-10	320-1516-10	320-1519-10	320-1522-10	320-1534-10	320-1537-10
500	320-1513-11	320-1516-11	320-1519-11	320-1522-11	320-1534-11	320-1537-11
600	320-1513-12	320-1516-12	320-1519-12	320-1522-12	320-1534-12	320-1537-12

Thermal Magnetic Circuit Breaker

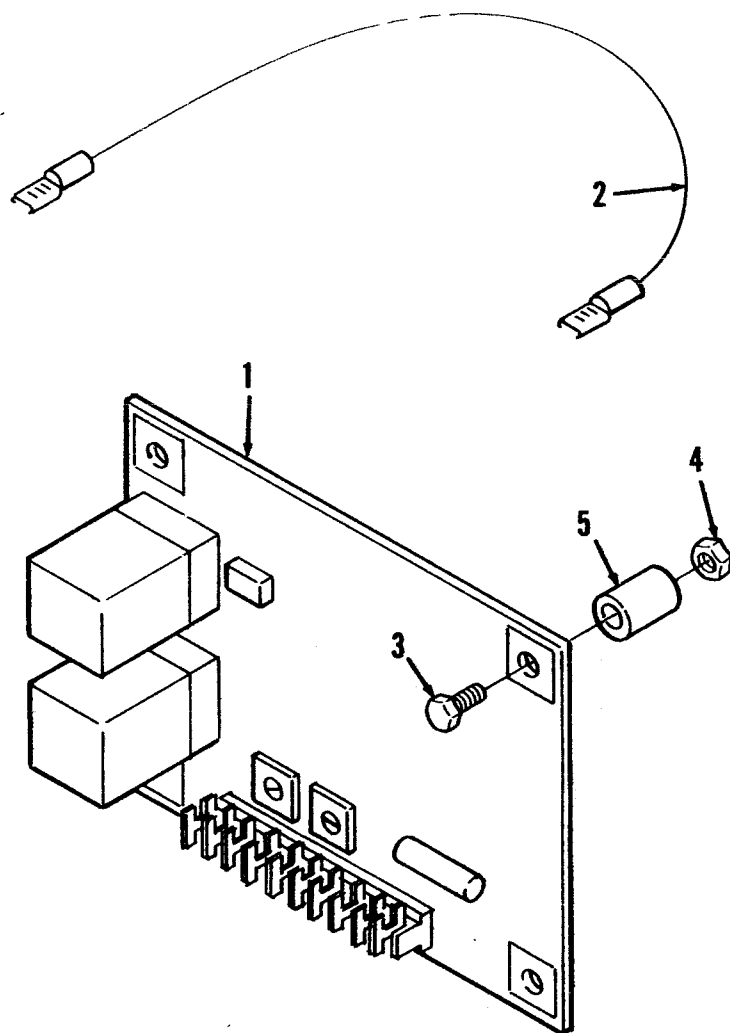
3 POLE - 240 VOLT

<u>Ampere</u>	<u>Standard</u>	<u>With Auxiliary Contacts</u>	<u>With 12 Volt DC Shunt Trip</u>	<u>With 24 Volt DC Shunt Trip</u>	<u>With Auxiliary Contacts and 12 Volt DC Shunt Trip</u>	<u>With Auxiliary Contacts and 24 Volt DC Shunt Trip</u>
125	320-1555-06	320-1556-06	320-1557-06	320-1557-16		
150	320-1555-07	320-1556-07	320-1557-07	320-1557-17		
175	320-1555-08	320-1556-08	320-1557-08	320-1557-18		
200	320-1555-09	320-1556-09	320-1557-09	320-1557-19		
225	320-1555-10	320-1556-10	320-1557-10	320-1557-20		
250	320-1555-15	320-1556-15	320-1557-55	320-1557-63		
300	320-1555-16	320-1556-16	320-1557-56	320-1557-64		
350	320-1555-17	320-1556-17	320-1557-57	320-1557-65		
400	320-1555-18	320-1556-18	320-1557-58	320-1557-66		
450						
500						
600						

3 POLE - 600 VOLT

<u>Ampere</u>	<u>Standard</u>	<u>With Auxiliary Contacts</u>	<u>With 12 Volt DC Shunt Trip</u>	<u>With 24 Volt DC Shunt Trip</u>	<u>With Auxiliary Contacts and 12 Volt DC Shunt Trip</u>	<u>With Auxiliary Contacts and 24 Volt DC Shunt Trip</u>
125	320-1460-01	320-1464-01	320-1468-01	320-1472-01	320-1488-01	320-1492-01
150	320-1460-02	320-1464-02	320-1468-02	320-1472-02	320-1488-02	320-1492-02
175	320-1460-03	320-1464-03	320-1468-03	320-1472-03	320-1488-03	320-1492-03
200	320-1460-04	320-1464-04	320-1468-04	320-1472-04	320-1488-04	320-1492-04
225	320-1460-05	320-1464-05	320-1468-05	320-1472-05	320-1488-05	320-1492-05
250	320-1460-06	320-1464-06	320-1468-06	320-1472-06	320-1488-06	320-1492-06
300	320-1460-07	320-1464-07	320-1468-07	320-1472-07	320-1488-07	320-1492-07
350	320-1460-08	320-1464-08	320-1468-08	320-1472-08	320-1488-08	320-1492-08
400	320-1460-09	320-1464-09	320-1468-09	320-1472-09	320-1488-09	320-1492-09
450	320-1460-10	320-1464-10	320-1468-10	320-1472-10	320-1488-10	320-1492-10
500	320-1460-11	320-1464-11	320-1468-11	320-1472-11	320-1488-11	320-1492-11
600	320-1460-12	320-1464-12	320-1468-12	320-1472-12	320-1488-12	320-1492-12

Electric Overspeed

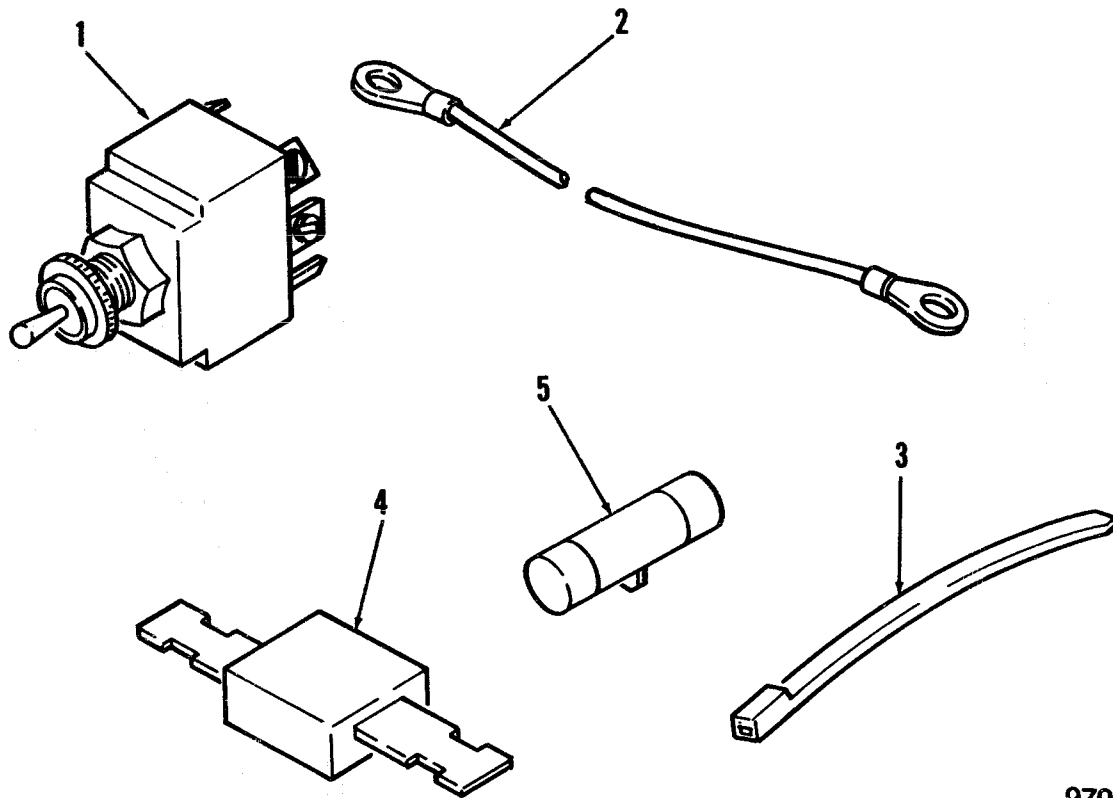


975A

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	305-0818-01	1	Module, Frequency 12 Volt
	305-0818-02	1	24 Volt
2	338-2642	1	Harness, Overspeed

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
3	800-0053	4	Screw, Cap - Hex Head (#10-32 x 2-1/2")
4	870-0131	4	Nut, Hex w/ET (#10-32)
5	370-4024-01	4	Spacer, Mounting - Module

Fault Bypass

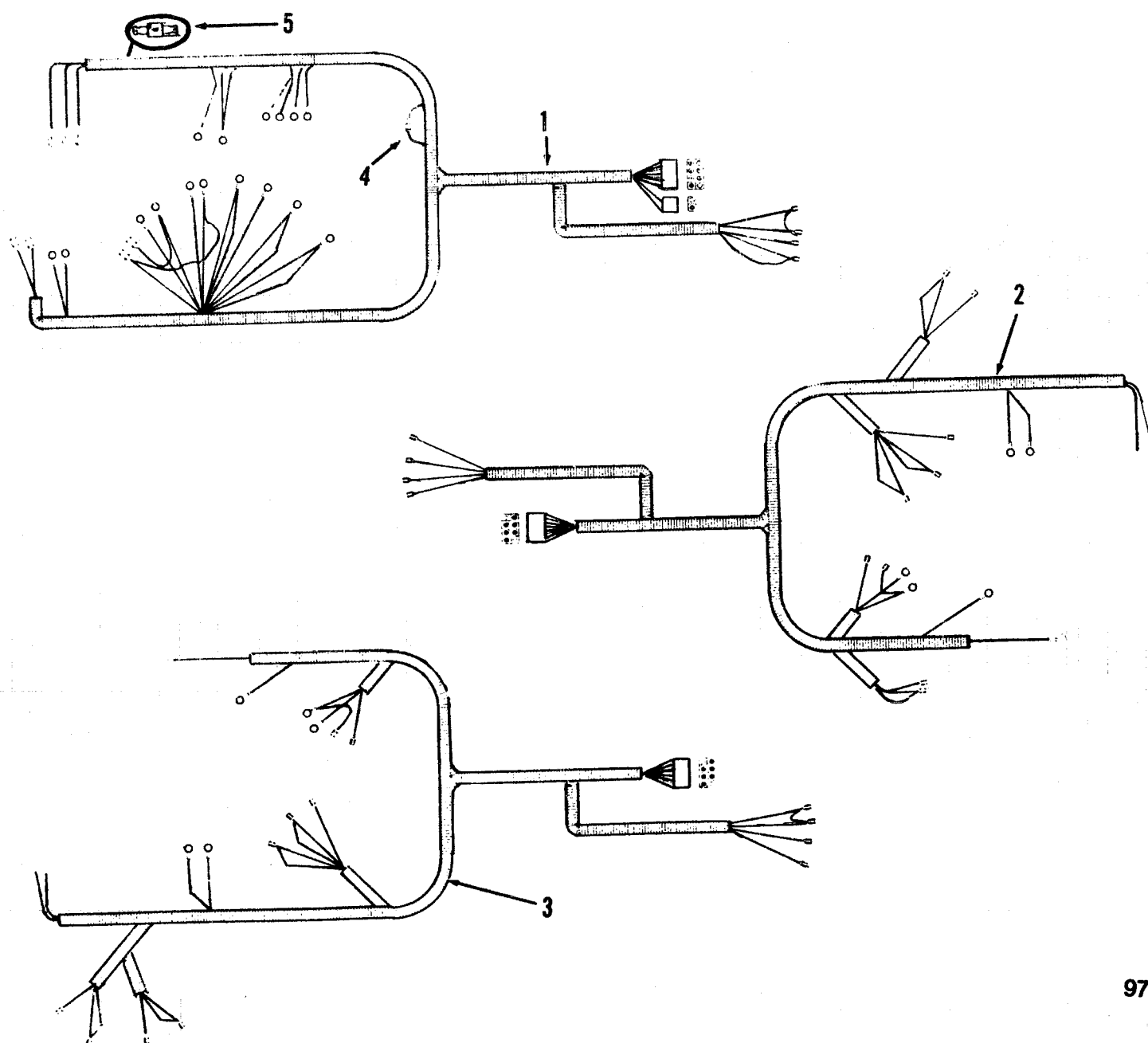


979A

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	308-0951	1	Switch, Toggle (Fault Override)
2			Lead
	226-4154-01	1	21" (S117-1 to CB115-3)
	226-4154-02	1	11" (S117-2 to M121-1)
	226-4154-03	1	17" (S117-3 to K105-4)
	226-4154-04	1	15" (R117-2 to R105-2)

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
3	332-1445	6	Tie, Cable
4	357-0030	1	Rectifier
5			Resistor
	353-0094-05	1	12 Volt
	353-0094-01	1	24 Volt

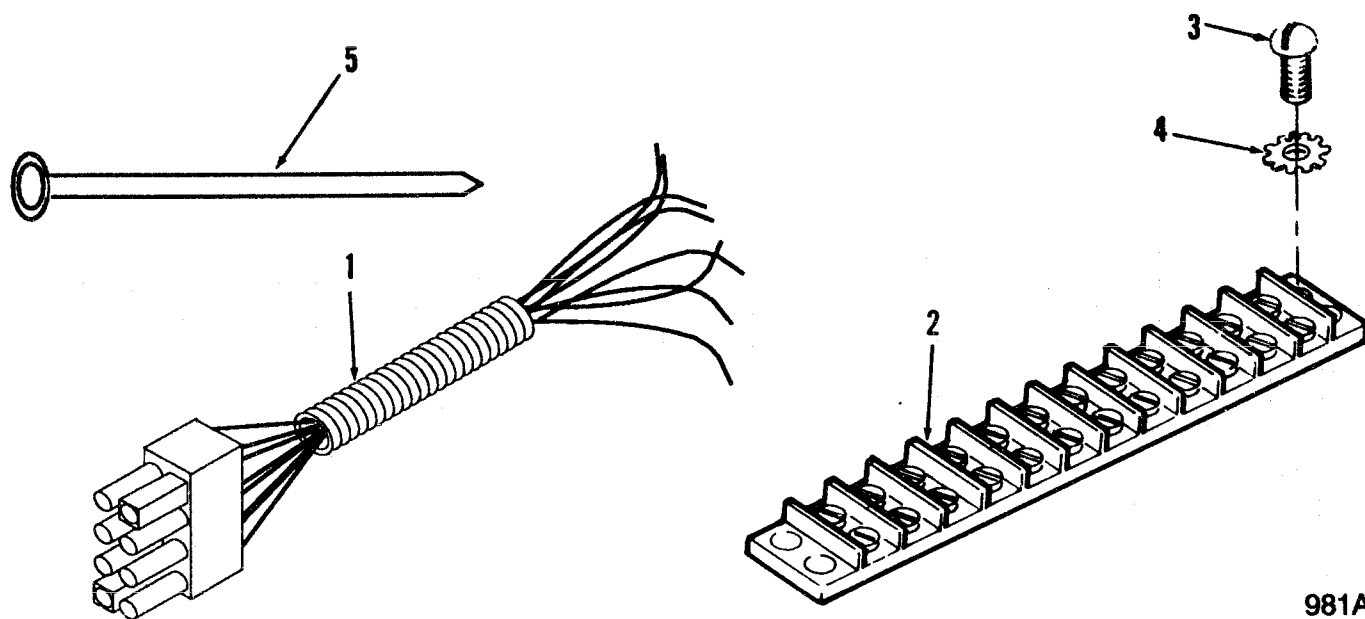
Wiring Harness



974A

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	338-2821	1	Harness, Wiring - Engine Spec A-B	3	338-2601	1	Harness, Wiring - Optional Features - MCGDA, MCGDB, MCGGA, MDGDA, MDGDB, MDGGA
	338-2869	1	Begin Spec C	4	321-0113	1	Fuse, 30 Amp
	338-2595	1	Harness, Wiring - Engine GIS	5	357-0030	1	Diode
2	338-2627	1	Harness, Wiring - Optional Features - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB				

Option Wiring Harness

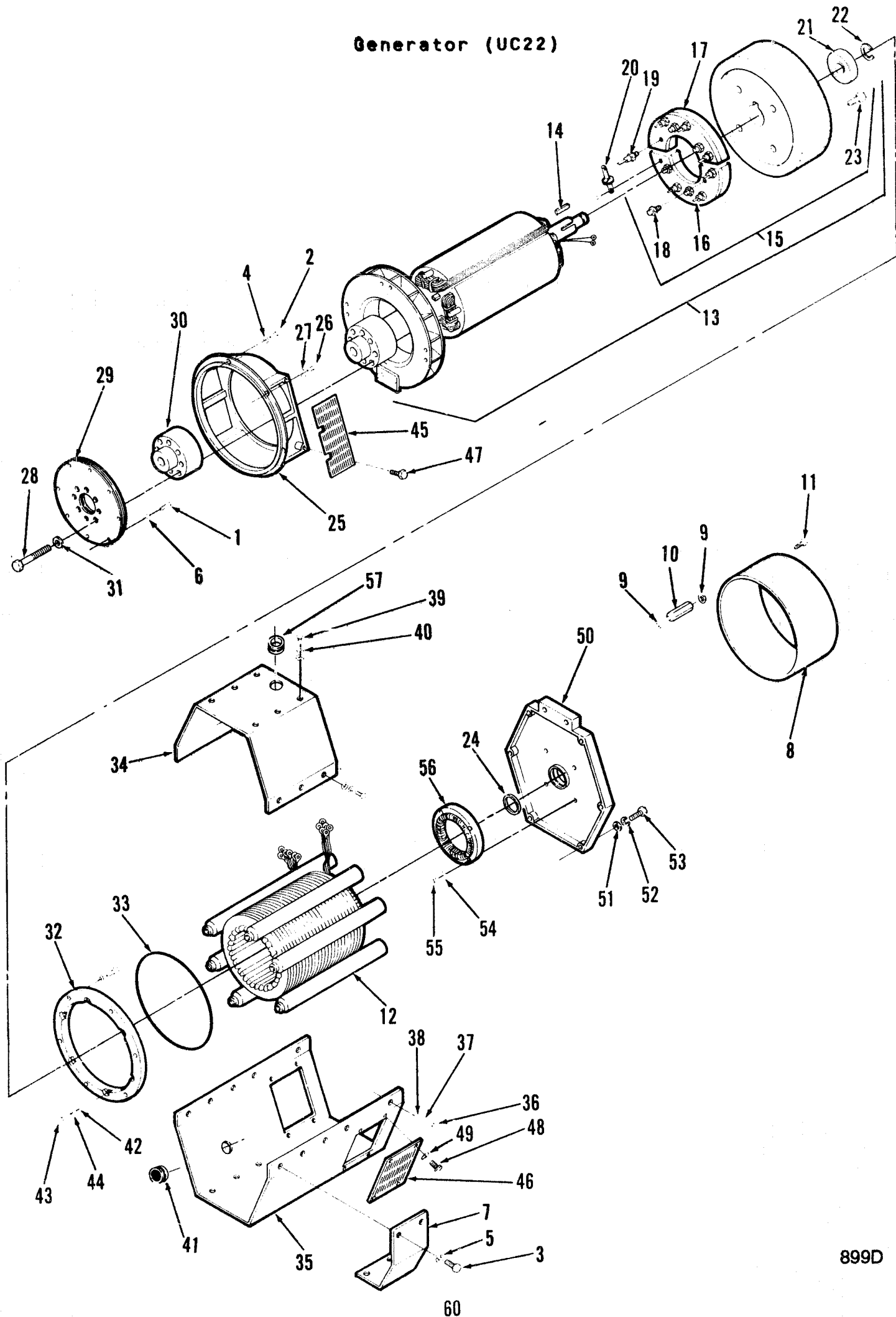


981A

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
1	338-2603	1	Harness, Wiring - Option
	338-2819	1	Harness, Wiring - Option
2	332-3066	1	Block, Terminal
3	812-0081	2	Screw, Machine - Round Head (#8-32 x 5/8")

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
4	853-0005	2	Washer, Lock - ET (#8)
5	332-1445	5	Tie, Cable

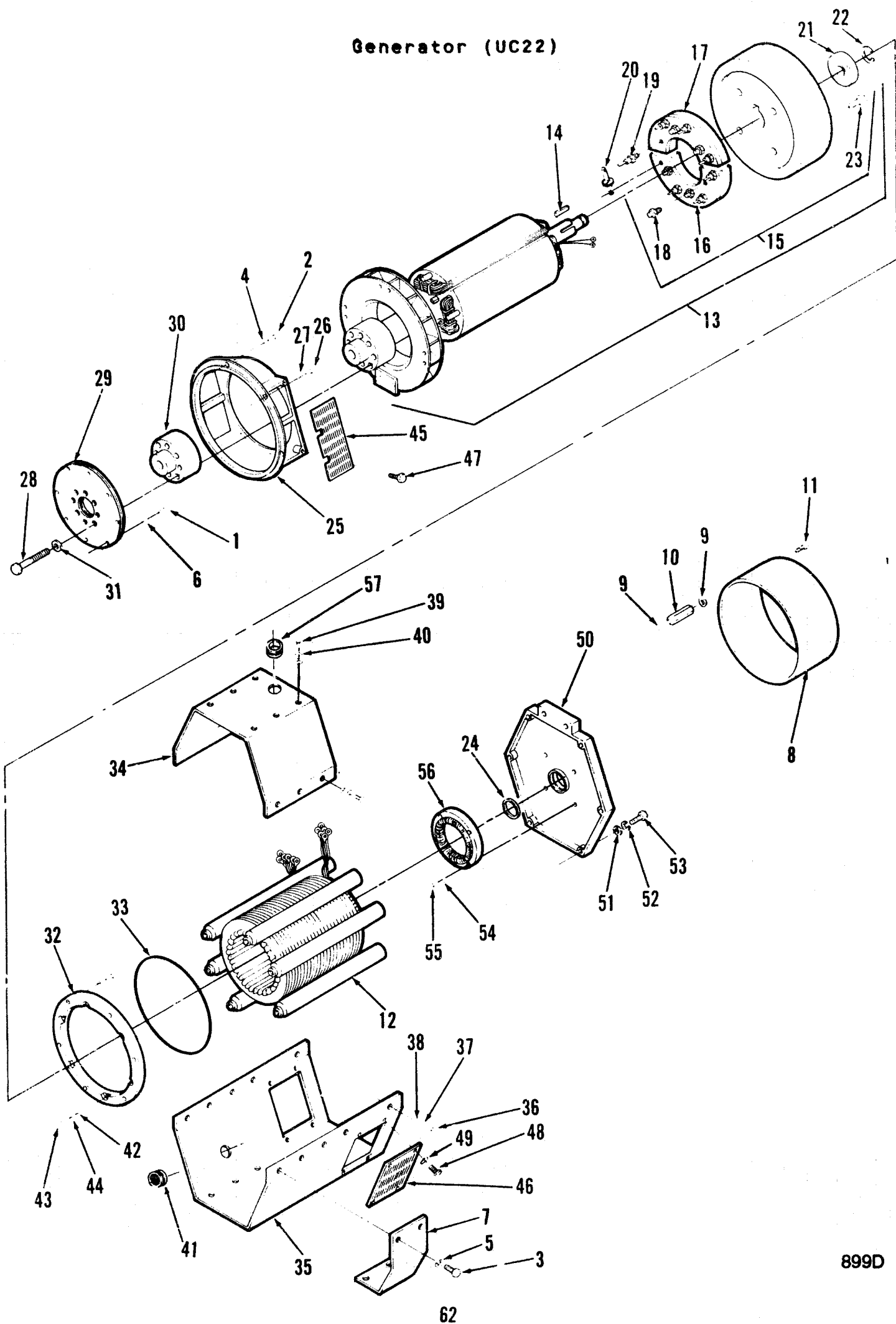
Generator (UC22)



Generator (UC22)
30MCGBA, 35MCGBA, 35MCGCA, 40MCGCB, 45MCGCA, 45MCGBA, 55MCGCB, 55MCGGA,
30MDGBA, 35MDGBA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA

REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
1	805-0015		8	Bolt, Place (3/8-16 x 3/4")
2				Screw, Cap - Hex Head
	800-2088		8	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M10 x 1.5 x 35)
	800-2090		4	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M10 x 1.5 x 45)
	800-2088		12	MCGGA, MDGGA (M10 x 1.5 x 35)
3				Screw, Cap - Hex Head
	800-2088		8	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M10 x 1.5 x 35)
	800-2112		8	MCGGA, MDGGA (M12 x 1.75 x 30)
4	850-2010		12	Washer, Lock - Spring (M10)
5				Washer, Lock - Spring
	850-2010		8	MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (M10)
	850-2012		8	MCGGA, MDGGA (M12)
6	526-0174		8	Washer, Flat (3/8")
7				Bracket, Mounting - Generator
	403-2958-01		1	RH - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (Spec A)
	403-2958-02		1	LH - MCGBA, MCGCA, MCGCB, MDGBA, MDGCA, MDGCB (Spec A)
	403-3119		2	MCGGA, MDGGA (Spec A)
	232-3452		2	All Models (Begin Spec B)
8	234-0875-01		1	Cover, Bell - End
9	526-2080		8	Washer, Flat (M6)
10	232-3462-01		4	Spacer, Cover
11	821-2020		4	Screw, Cap - Locking Head (M5 x 0.8 x 10)
12				Stator
	220-4289-32		1	30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	220-4289-34		1	35MCGCA, 45MCGCA, 45MCGGA, 35MDGCA, 45MDGCA, 45MDGGA
	220-4289-35		1	40MCGCB, 55MCGCB, 55MCGGA, 40MDGCB, 55MDGCB, 55MDGGA
13				Rotor Assembly (Includes Parts Marked *)
	201-3484-02			30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	201-3484-04		1	35MCGCA, 45MCGCA, 45MCGGA, 35MDGCA, 45MDGCA, 45MDGGA
	201-3484-05		1	40MCGCB, 55MCGCB, 55MCGGA, 40MDGCB, 55MDGCB, 55MDGGA
14				*Key
	515-0298-01		1	30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	515-0298-02		1	35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA
15				*Rotor Assembly, Exciter (Includes Parts Marked §)
	201-3434-01	210-1036	1	30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	201-3434-02	210-1037	1	35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA
16	357-0091		1	*§Rectifier Assembly, Forward (Includes Diodes)
17	357-0092		1	*§Rectifier Assembly, Reverse (Includes Diodes)
18	358-0135-01		3	*§Diode, Positive (Forward) Includes Lead
19	358-0135-02		3	*§Diode, Negative (Reverse) Includes Lead
20	304-0807		1	*Varistor
21	510-0165		1	*Bearing, Ball
22	518-0122		1	*Ring, Retaining
23	821-2021		2	*Screw, Cap - Locking Head (M5 x 12)
24	509-0266-01		1	Ring, "O"
25	231-0316		1	Adapter, Generator (SAE2)
26				Screw, Cap - Hex Head
	800-2090		5	M10 x 45
	800-2092		1	M10 x 55
27	850-2010		6	Washer, Lock - Spring (M10)
28	720-1119		8	Screw, Cap - Hex Head (M16 x 40)
29				Disc, Drive - Generator (SAE 11.5)
	232-3443		2	Spec A
	232-3699		1	Begin Spec B
30	232-3458-01		1	Spacer, Disc - Drive (Spec A)
31	526-0259		8	Washer, Flat (M16)
32	231-0318		1	Ring, Adapter
33	508-0139		-	Seal, Edging (Order by the foot - 3 feet required)
34				Cover, Stator - Upper
	234-0860-01		1	30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA (Spec A)
	234-0860-02		1	35MCGCA, 45MCGCA, 45MCGGA, 35MDGCA, 45MDGCA, 45MDGGA (Spec A)
	234-0860-03		1	40MCGCB, 55MCGCB, 55MCGGA, 40MDGCB, 55MDGCB, 55MDGGA (Spec A)
	234-0936-01		1	30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA (Begin Spec B)
	234-0936-02		1	35MCGCA, 45MCGCA, 45MCGGA, 35MDGCA, 45MDGCA, 45MDGGA (Begin Spec B)
	234-0936-03		1	40MCGCB, 55MCGCB, 55MCGGA, 40MDGCB, 55MDGCB, 55MDGGA (Begin Spec B)

Generator (UC22)



Generator (UC22)

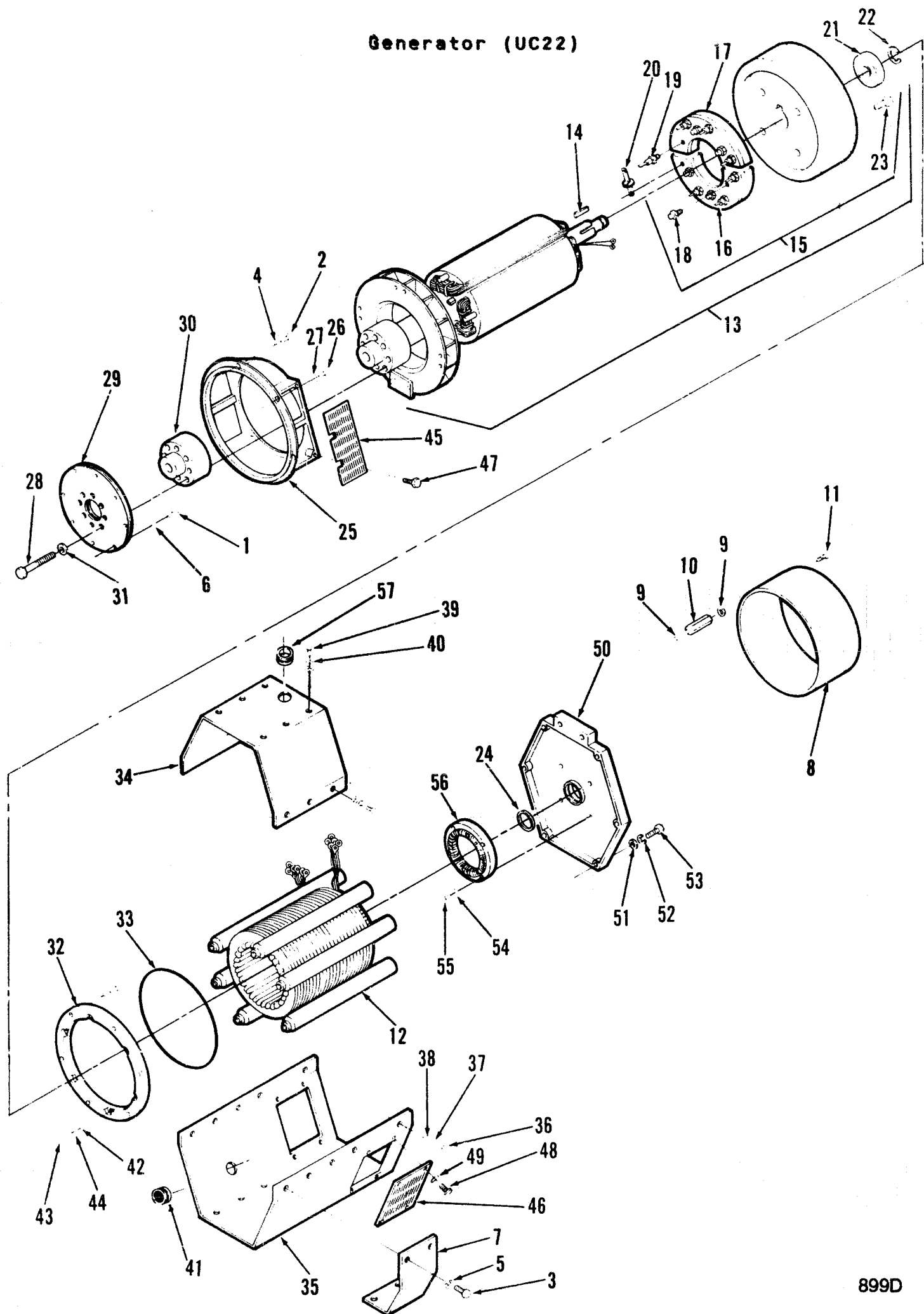
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REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
35	232-3430-01		1	Cover, Stator - Lower 30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	232-3430-02		1	35MCGCA, 45MCGCA, 45MCGGA, 35MDGCA, 45MDGCA, 45MDGGA
	232-3430-03		1	40MCGCB, 55MCGCB, 55MCGGA, 40MDGCB, 55MDGCB, 55MDGGA
36	800-2086		6	Screw, Cap - Hex Head (M10 x 25) 30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	800-2086		8	35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA
37	850-2010		6	Washer, Lock - Spring (M10) 30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	850-2010		8	35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA
38	526-2120		10	Washer, Flat (M10) 30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	526-2120		12	35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA
39	800-4073		2	Screw, Cap - Hex Head (M4 x 10)
40	850-2004		2	Washer, Lock - Spring (M4)
41	517-0135		1	Plug
42	526-0213		6	Washer, Flat (M8)
43	800-2058		6	Screw, Cap - Hex Head (M8 x 25)
44	850-2008		6	Washer, Lock - Spring (M8)
45	234-0863		2	Guard, Fan
46	234-0878		2	Screen, Inlet - Air
47	821-2020		8	Screw, Flange - Locking (M5 x 10)
48	815-0793-03		8	Screw, Hex - Flange (M5 x .8 x 12)
49	850-2005		8	Washer, Lock - Spring (M5)
50	211-0422		1	Bell, End
51	526-0213		6	Washer, Flat (M8)
52	850-2008		6	Washer, Lock - Spring (M8)
53	800-2058		6	Screw, Cap - Hex Head (M8 x 25)
54	850-2006		4	Washer, Lock - Spring (M6)
55				Screw, Cap - Hex Head 30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	800-2039		4	35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA
	800-2042		4	
56				Stator, Exciter 30MCGBA, 35MCGBA, 30MDGBA, 35MDGBA
	220-4293-04		1	35MCGCA, 40MCGCB, 45MCGCA, 45MCGGA, 55MCGCB, 55MCGGA, 35MDGCA, 40MDGCB, 45MDGCA, 45MDGGA, 55MDGCB, 55MDGGA
	220-4293-05		1	
57	508-1057		1	Grommet (Begin Spec B)

* - Parts Included in the Rotor Assembly

§ - Parts Included in Exciter Rotor Assembly

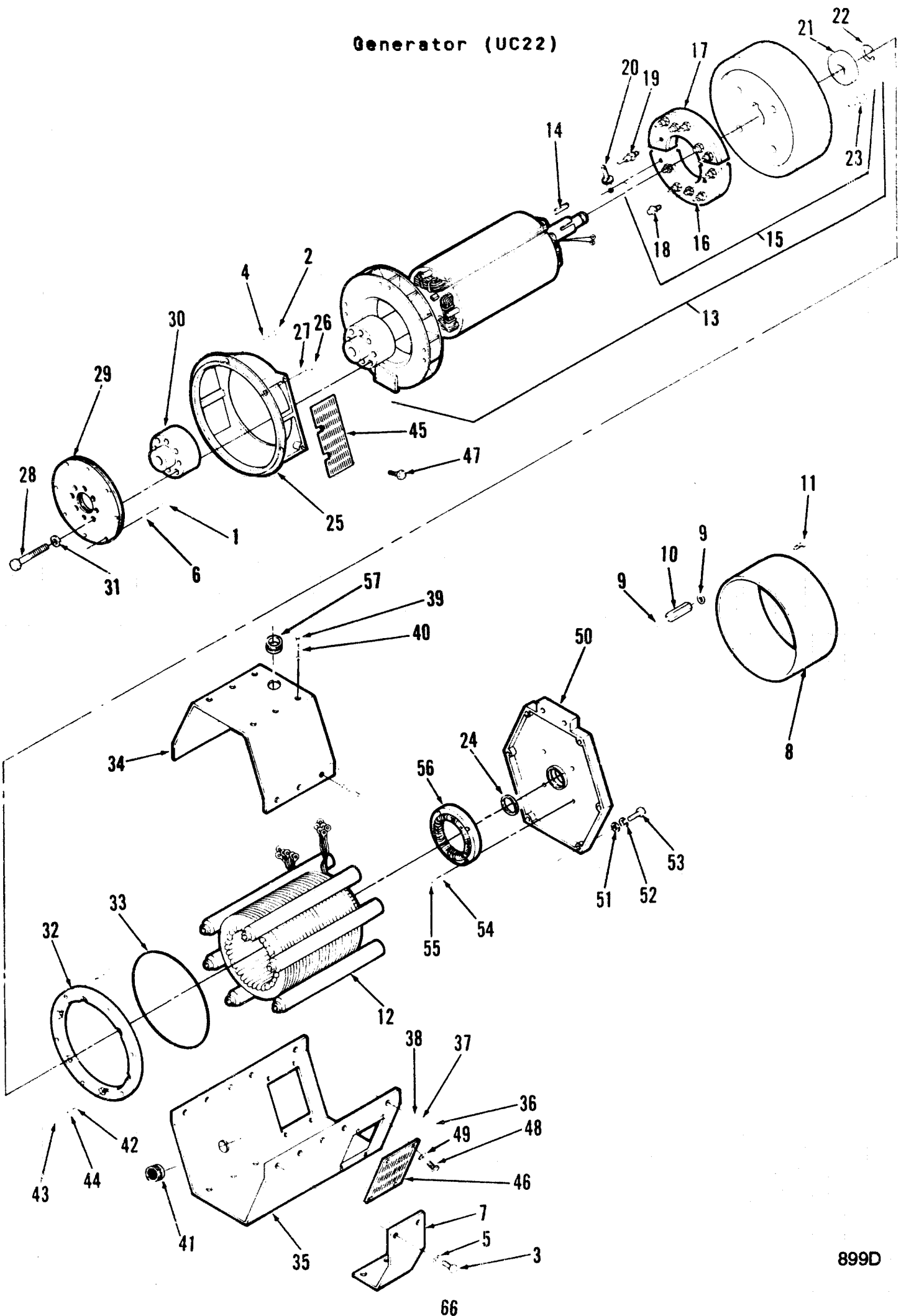
Generator (UC22)



Generator (UC27)
55MCGCB, 65MCGDA, 75MCGDA, 75MCGDB, 95MCGDB,
55MDGCB, 65MCGDA, 75MDGDA, 75MDGDB, 95MDGDB

REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
1	805-0015		8	Bolt, Place (3/8-16 x 3/4")
2	800-2088		12	Screw, Cap - Hex Head (M10 x 1.5 x 35)
3				Screw, Cap - Hex Head
	800-2112		8	Spec A (M12 x 1.75 x 30)
	800-2113		8	Begin Spec B (M12 x 1.75 x 35)
4	850-2010		12	Washer, Lock - Spring (M10)
5	850-2012		8	Washer, Lock - Spring (M12)
6	526-0174		8	Washer, Flat (3/8")
7				Bracket, Mounting - Generator
	403-3119		2	Spec A
	232-3454		2	Begin Spec B
8	234-0875-01		1	Cover, Bell - End
9	526-2080		8	Washer, Flat (M6)
10	232-3462-01		4	Spacer, Cover
11	821-2020		4	Screw, Cap - Locking Head (M5 x 0.8 x 10)
12				Stator
	220-4298-32		1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA
	220-4298-33		1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB
13				Rotor Assembly (Includes Parts Marked *)
	201-3485-02		1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA (Spec A)
	201-3485-03		1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB (Spec A)
	201-3497-02		1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA (Begin Spec B)
	201-3497-03		1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB (Begin Spec B)
14				*Key
	515-0298-02		1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA
	515-0298-03		1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB
15				*Rotor Assembly, Exciter (Includes Parts Marked \$)
	201-3434-02	210-1037	1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA
	201-3434-03	210-1028	1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB
16	357-0091		1	*\$Rectifier Assembly, Forward (Includes Diodes)
17	357-0092		1	*\$Rectifier Assembly, Reverse (Includes Diodes)
18	358-0135-01		3	*\$Diode, Positive (Forward) Includes Lead
19	358-0135-02		3	*\$Diode, Negative (Reverse) Includes Lead
20	304-0807		1	*Varistor
21	510-0164		1	*Bearing, Ball
22	518-0083		1	*Ring, Retaining
23	821-2021		2	*Screw, Cap - Locking Head (M5 x 12)
24	509-0266-02		1	Ring, "O"
25	231-0317		1	Adapter, Generator (SAE 2)
26				Screw, Cap - Hex Head
	800-2091		5	M10 x 50
	800-2093		1	M10 x 60
27	850-2010		6	Washer, Lock - Spring (M10)
28	720-1119		8	Screw, Cap - Hex Head (M16 x 40)
29				Disc, Drive - Generator (SAE 11.5)
	232-3443		3	Spec A
	232-3699		3	Begin Spec B
30	232-3456-01		1	Spacer, Disc - Drive
31	526-0259		8	Washer, Flat (M16)
32	231-0319		1	Ring, Adapter
33	508-0139		-	Seal, Edging (Order by the foot - 3 feet required)
34				Cover, Stator - Upper
	234-0855-01		1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA (Spec A)
	234-0855-02		1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB (Spec A)
	234-0937-01		1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA (Begin Spec B)
	234-0937-02		1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB (Begin Spec B)
35				Cover, Stator - Lower
	234-0853-01		1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA
	234-0853-02		1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB
36	800-2112		8	Screw, Cap - Hex Head (M12 x 30)
37	850-2012		8	Washer, Lock - Spring (M12)
38	526-2140		12	Washer, Flat (M12)
39	800-4073		2	Screw, Cap - Hex Head (M4 x 10)
40	850-2004		2	Washer, Lock - Spring (M4)
41	517-0135		1	Plug
42	526-0077		6	Washer, Flat (M10)

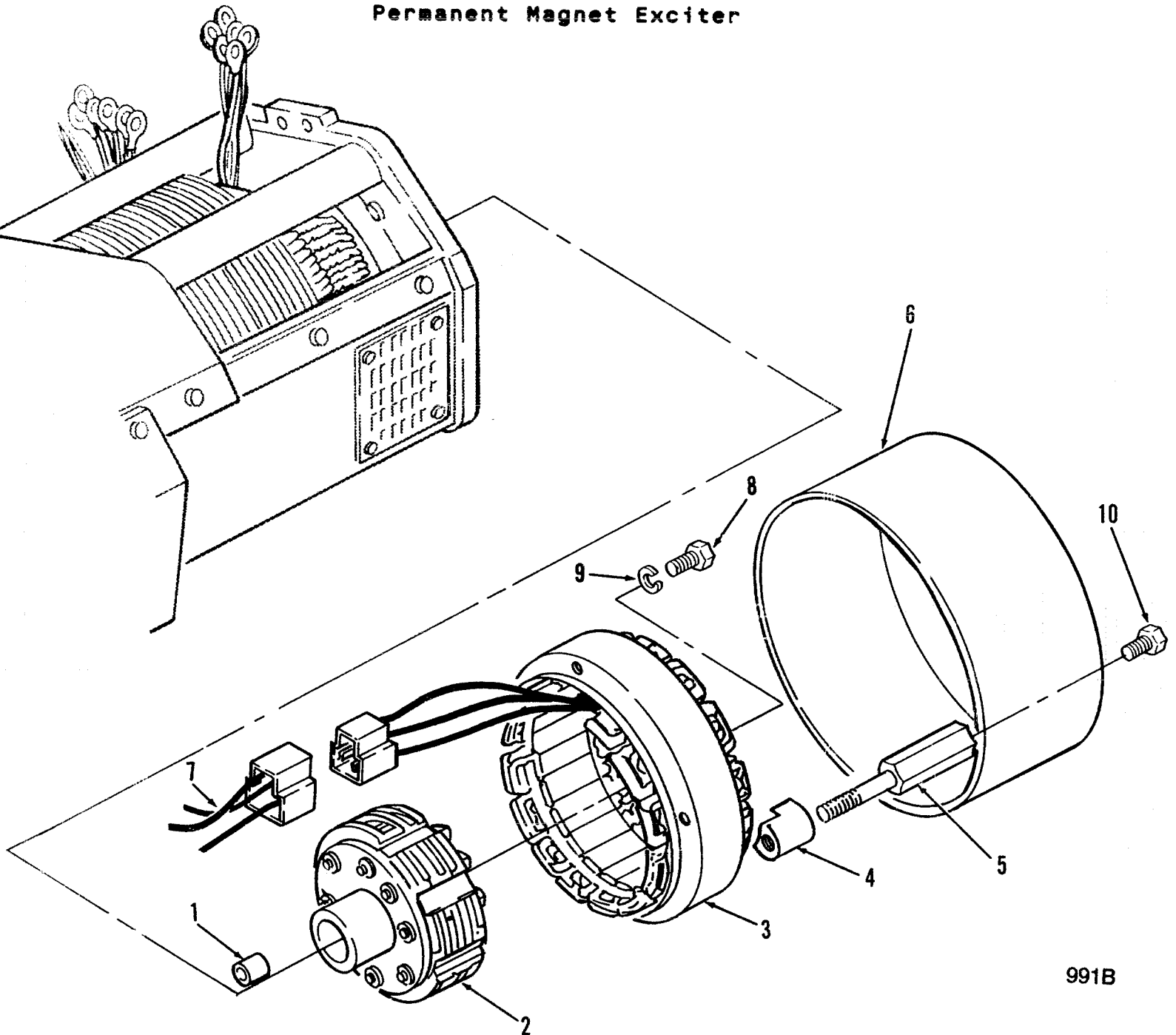
Generator (UC22)



Generator (UC27)
55MCGCB, 65MCGDA, 75MCGDA, 75MCGDB, 95MCGDB,
55MDGCB, 65MCGDA, 75MDGDA, 75MDGDB, 95MDGDB

REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
43	800-2087		6	Screw, Cap - Hex Head (M10 x 30)
44	850-2010		6	Washer, Lock - Spring (M10)
45	234-0867		2	Guard, Fan
46	234-0879		2	Screen, Inlet - Air
47	821-2020		8	Screw, Flange - Locking (M5 x 10)
48	815-0793-03		8	Screw, Flange - Hex (M5 x .8 x 12)
49	850-2005		8	Washer, Lock - Spring (M5)
50	211-0423		1	Bell, End
51	526-0077		6	Washer, Flat (M10)
52	850-2010		6	Washer, Lock - Spring (M10)
53	800-2087		6	Screw, Cap - Hex Head (M10 x 30)
54	850-2006		4	Washer, Lock - Spring (M6)
55				Screw, Cap - Hex Head
	800-2042		4	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA (M6 x 1 x 60)
	800-2046		4	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB (6 x 1 x 80)
56				Stator, Exciter
	220-4293-05	230-1001	1	55MCGCB, 65MCGDA, 75MCGDA, 55MDGCB, 65MDGDA, 75MDGDA
	220-4293-06	230-1000	1	75MCGDB, 95MCGDB, 75MDGDB, 95MDGDB
57	508-1057		1	Grommet (Begin Spec B)

Permanent Magnet Exciter



991B

REF NO.	ONAN PART NO.	NEWAGE PART NO.	QTY. USED	PART DESCRIPTION
1	775-0049	054-20505	1	Pin, Dowel
2	201-3446	130-20136	1	Rotor, Exciter
3	220-4233	450-17200	1	Stator, Exciter
4	232-3511	130-20101	4	Clamp, Stator
5	232-3462-02	450-14370	4	Spacer, Mounting - Cover
6	234-0875-02	450-14360	1	Cover, Bell - End
7	338-2547		1	Harness, Wiring
8	815-0761-01	350-14950	1	Bolt (M10 x 1.5 x 110)
9	850-2010	028-31509	1	Washer, Lock - Spring (M10)
10	821-2020		4	Screw, Head - Locking (M5 x .08 x 10)

Labels and Paint

REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION	REF NO.	ONAN PART NO.	QTY USED	PART DESCRIPTION
			Label				
	98-5338	2	Warning (No Step)		98-5822	2	Warning (Lifting Points)
	98-5347	6	Warning (Danger - High Voltage)		98-5842	1	Caution (Generator Fan)
					98-6074-02	2	Warning (Exposure to Substances)
	98-6139	2	Identification (Cummins-Onan)		98-6195	1	Caution (Hot Surface)
	98-4730	2	Warning (Hot Pressurized Coolant)		98-5759	2	Warning (Hazardous Voltage)
					525-0529	1	Paint, White (13 oz. Aerosol Can)
	98-4732	1	Warning (Hazardous Voltage/ Rotating Parts)		518-0452	1	Sealant, Thread (50cc Bottle)
	98-4798	4	Warning (Rotating Parts)				

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