

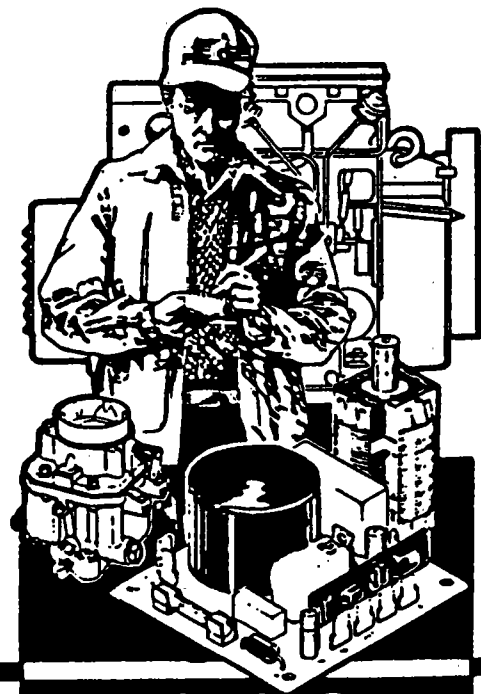
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Onan

Parts Manual

LK

GenSet



Onan Service Parts

930-0221
2-89 (Spec A-N)
Replaces 4-82 (SPEC A-N)
Printed in U.S.A.

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Introduction

This parts manual applies to the standard LK Generator Sets as 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. Using the model and Specification Number from your generator set nameplate, select the Parts Key Number (1, 2, etc. in the last column) that applies to your set. This Parts Key Number represents parts that differ between models. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table

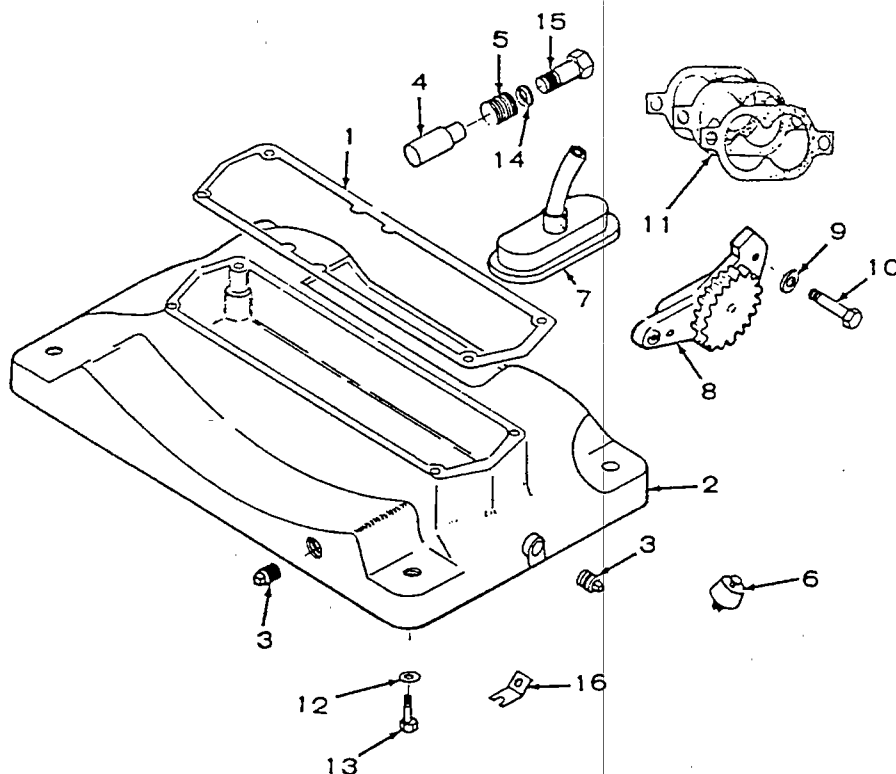
MODEL AND SPEC. NO.#	TYPE OF STARTING	ELECTRICAL OUTPUT				PARTS KEY NO.
		WATTS	VOLTS**	HERTZ	RPM	
2.0LK-1M/*	Manual	2,000	120	60	1800	1
2.5LK-1M/*	Manual	2,500	120	60	1800	1
1.5LK-51M/*	Manual	1,500	120	60	1500	1
1.7LK-51M/*	Manual	1,700	120	50	1500	1
2.0LK-2M/*	Manual	2,000	240	60	1800	2
2.5LK-2M/*	Manual	2,500	240	60	1800	2
1.5LK-52M/*	Manual	1,500	240	50	1500	2
1.7LK-52M/*	Manual	1,700	240	50	1500	2
2.0LK-3M/*	Manual	2,000	120/240	60	1800	3
2.5LK-3M/*	Manual	2,500	120/240	60	1800	3
1.5LK-53M/*	Manual	1,500	120/240	50	1500	3
1.7LK-53M/*	Manual	1,700	120/240	50	1500	3
2.0LK-1R/*	Remote	2,000	120	60	1800	5
2.5LK-1R/*	Remote	2,500	120	60	1800	5
1.5LK-51R/*	Remote	1,500	120	50	1500	5
1.7LK-51R/*	Remote	1,700	120	50	1500	5
2.0LK-2R/*	Remote	2,000	240	60	1800	6
2.5LK-2R/*	Remote	2,500	240	60	1800	6
1.5LK-52R/*	Remote	1,500	240	50	1500	6
1.7LK-52R/*	Remote	1,700	240	50	1500	6
2.0LK-3R/*	Remote	2,000	120/240	60	1800	7
2.5LK-3R/*	Remote	2,500	120/240	60	1800	7
1.5LK-53R/*	Remote	1,500	120/240	50	1500	7
1.7LK-53R/*	Remote	1,700	120/240	50	1500	7

* - Specification letter advances with manufacturing changes (A to B, B to C, etc.)

** - Reference to 120, 240, and 120/240 volt also applies to 115, 230, and 115/230 volt.

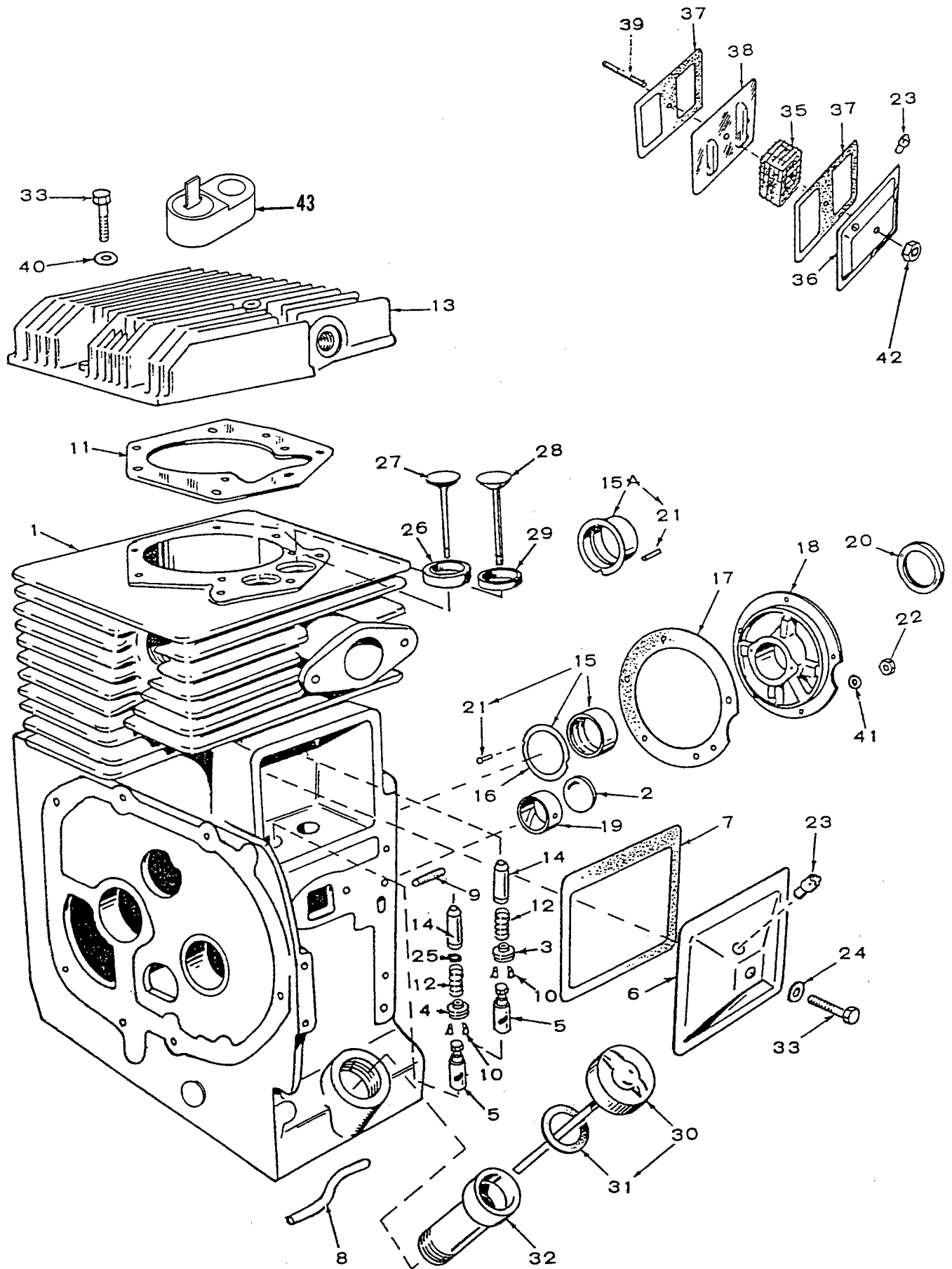
- New model designations shown began during 1969. Previous designations did not use a decimal in the KW rating. EXAMPLE: 2.0LK was formerly 2LK and 2.5LK was formerly 205LK. Also previously a V was used in the model to designate Vacu-Flo cooling.

Oil System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-0107	1	Gasket, Oil Base Mounting	10	800-0007	2	Screw, Cap - Hex Head (1/4-20 x 1") Pressure Lube Units - Begin Spec N
2	102-0100	1	Sets Without Oil Base Heater	11	120-0161	1	Kit, Gasket - Oil Pump - Pressure Lube Units - Begin Spec N
	102-0362	1	Sets With Oil Base Heater - Optional	12	850-0050	4	Washer, Lock - Spring (3/8")
3	505-0110	2	Plug, Oil Drain (3/8")	13	800-0056	4	Screw, Cap - Hex Head (3/8-16 x 2-1/2")
4	120-0398	1	Plunger, Oil Bypass - Pressure Lube Units - Begin Spec N	14	526-0066	1	Washer, Flat - Oil Bypass - (25/64 ID x 9/16 OD x 1/16" THK) Pressure Lube Units - Begin Spec N
5	120-0140	1	Spring, Oil Bypass - Pressure Lube Units - Begin Spec N	15	801-0050	1	Screw, Cap - Hex Head (3/8-24 x 1") Oil Bypass - Pressure Lube Units - Begin Spec N
6	309-0237	1	Switch, Lopko - Pressure Lube Units - Begin Spec N	16	167-0188	1	Support, Lopko Lead - Pressure Lube Units - Begin Spec N
7	120-0666	1	Cup, Oil Intake (Includes Cup, Pipe and Screen) - Pressure Lube Units - Begin Spec N				
8	120-0651	1	Pump Assembly, Oil - Pressure Lube Units - Begin Spec N				
9	850-0040	2	Washer, Lock - Spring (1/4") - Pressure Lube Units - Begin Spec N				

Cylinder Block

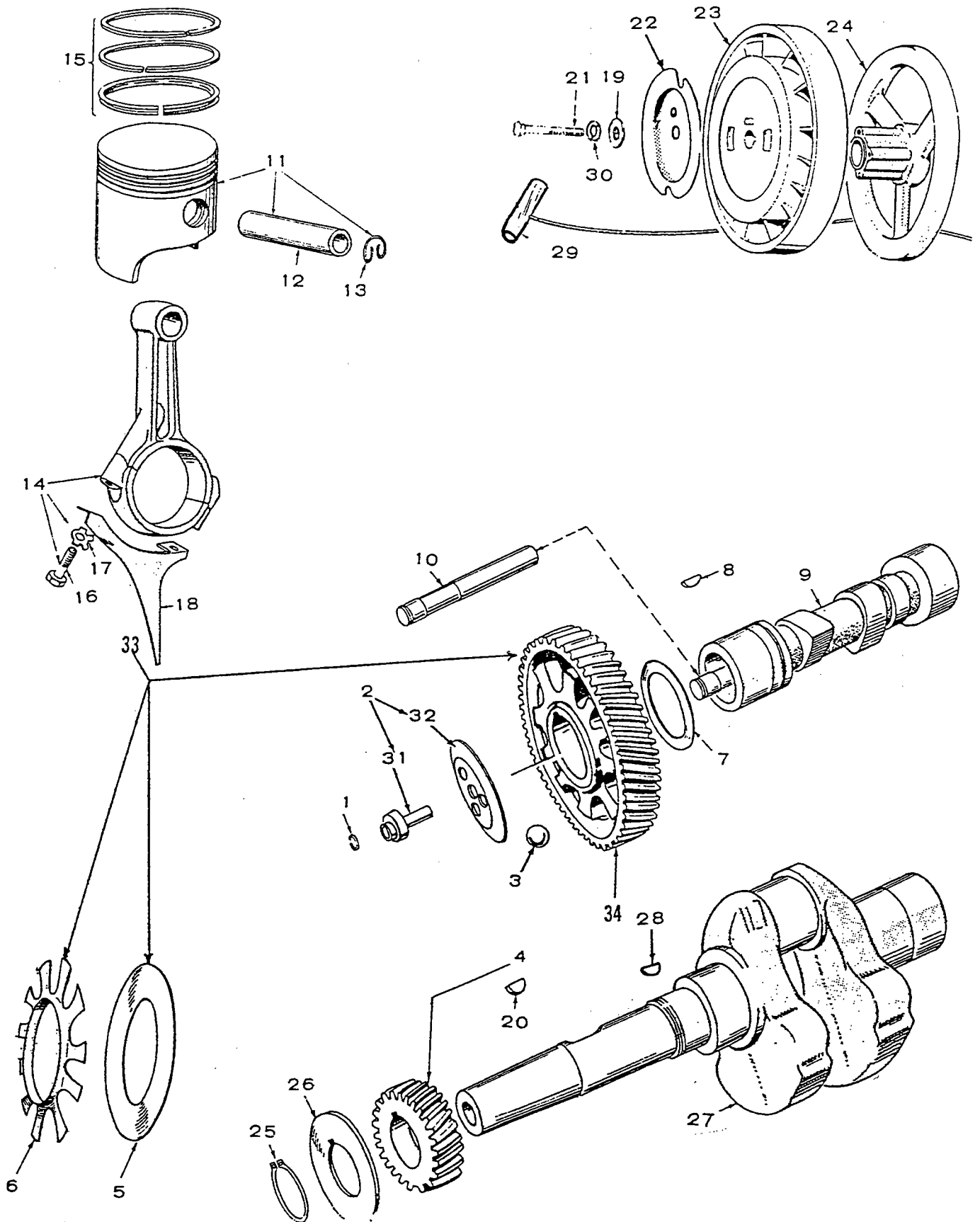


Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Block Assembly, Cylinder (Includes Parts Marked *)	21	516-0072	4	*Pin, Stop - Main Bearing (2 Only Spec A through C) - Also Pressure Lube Units
	110-1622	1	Splash Lube System - Spec A through M				Spec N
	110-3185	1	With Valve Stem Oil Seals - Pressure Lube System -	22	110-0445	5	*Nut, Stud - Bearing Plate (Special)
	110-3186	1	Begin Spec N - Key 1,2,3 Without Valve Stem Oil Seals - Begin Spec N - Key 5,6,7	23	123-0486	1	Valve, Breather
2	517-0048	1	*Plug, Expansion - Camshaft	24	526-0063	1	Washer, Flat (Copper) - Valve Compartment Cover (17/64 ID x 7/16 OD x 1/32" THK)
3	110-0904	1	Rotocap, Valve - Exhaust	25	509-0090	1	*Seal, Oil - Intake Valve (Includes Retainer Rings) - Pressure Lube Units Only
4	110-0893	1	Retainer, Valve Spring - Intake	26			*Insert, Seat - Intake Valve (Pressure Lube Units Only)
5	115-0006	2	Tappet, Valve		110-1000	1	Standard
6	110-1595	1	*Cover, Compartment - Valve		110-1000-02	1	.002" Oversize
7	110-0667	1	Gasket, Valve Cover		110-1000-05	1	.005" Oversize
8	120-0415	1	*Line, Oil - Begin Spec N - Pressure Lube System		110-1000-10	1	.010" Oversize
9			*Stud, Mounting - Rear Bearing Plate	27	110-0881	1	Valve, Intake
	520-0114	4	5/16 x 1-5/16"	28	110-0880	1	Valve, Exhaust (Chrome Cobalt)
	520-0532	1	5/16 x 1-3/16"	29			*Insert, Seat - Exhaust Valve (Chrome Cobalt)
10	110-0639	4	Lock, Valve and Spring Retainer		110-0872	1	Standard
11	110-0892	1	Gasket, Head - Cylinder		110-0872-02	1	.002" Oversize
12	110-0539	2	Spring, Valve		110-0872-05	1	.005" Oversize
13			Head, Cylinder		110-0872-10	1	.010" Oversize
	110-0891	1	Standard Compression (Gasoline Fuel)		110-0872-25	1	.025" Oversize
	110-0883	1	Hi-Compression (Gaseous Fuel) - Optional	30	123-0519	1	Indicator, Oil Fill
14	110-0902	2	*Guide, Valve	31	123-0191	1	Gasket, Cap - Oil Fill
15A			*Bearing, Crankshaft - Spec A through C	32	123-0517	1	Tube, Fill - Oil
	101-0181	2	Standard	33			Screw, Cap - Hex Head
	101-0181-10	2	.010" Undersize		114-0171	1	Cylinder Head - Special - High Air Temperature
	101-0181-20	2	.020" Undersize				Switch Mounting
	101-0181-30	2	.030" Undersize		110-0879	4	Cylinder Head - Special
15			Bearing, Crankshaft - Begin Spec D		114-0022	5	Cylinder Head - Special
	101-0450	2	Standard		800-0014	1	Valve Compartment (1/4-20 x 2-3/4")
	101-0450-02	2	.002" Undersize	35	123-0996	1	Element, Compartment - Valve - Optional
	101-0450-10	2	.010" Undersize	36	110-1782	1	Cover, Compartment - Valve - Optional
	101-0450-20	2	.020" Undersize	37	110-1791	2	Gasket, Compartment - Valve - Optional
	101-0450-30	2	.030" Undersize	38	110-1783	1	Baffle, Compartment - Valve - Optional
16	104-0575	2	*Washer, Crankshaft - Bearing Thrust - Begin Spec D (Special)	39	520-0746	1	Stud, Cover - Valve Compartment - Optional
17	101-0115	1	*Kit, Gasket - Bearing Plate	40	526-0122	9	Washer, Flat (11/32" ID x 23/32" OD x 10 Ga. Thk)
18			*Plate, Bearing - Rear (Excludes Bearing)	41	850-0045	5	*Washer, Lock - Spring (5/16")
	101-0259	1	Spec A through C	42	862-0001	1	Nut, Hex - Valve Cover (1/4-20)
	101-0398	1	Begin Spec D through M	43	309-0255	1	Switch, High Air Temperature - Optional (S4)
	101-0396	1	Pressure Lube System - Begin Spec N				
19	101-0367	2	*Bearing, Camshaft Front and Rear (Precision)				
20	509-0041	1	Seal, Bearing Plate (Note: in Gasket Kit #168-0065)				

* Parts Included in Cylinder Block Assemblies.

Crankshaft, Camshaft, Flywheel and Piston

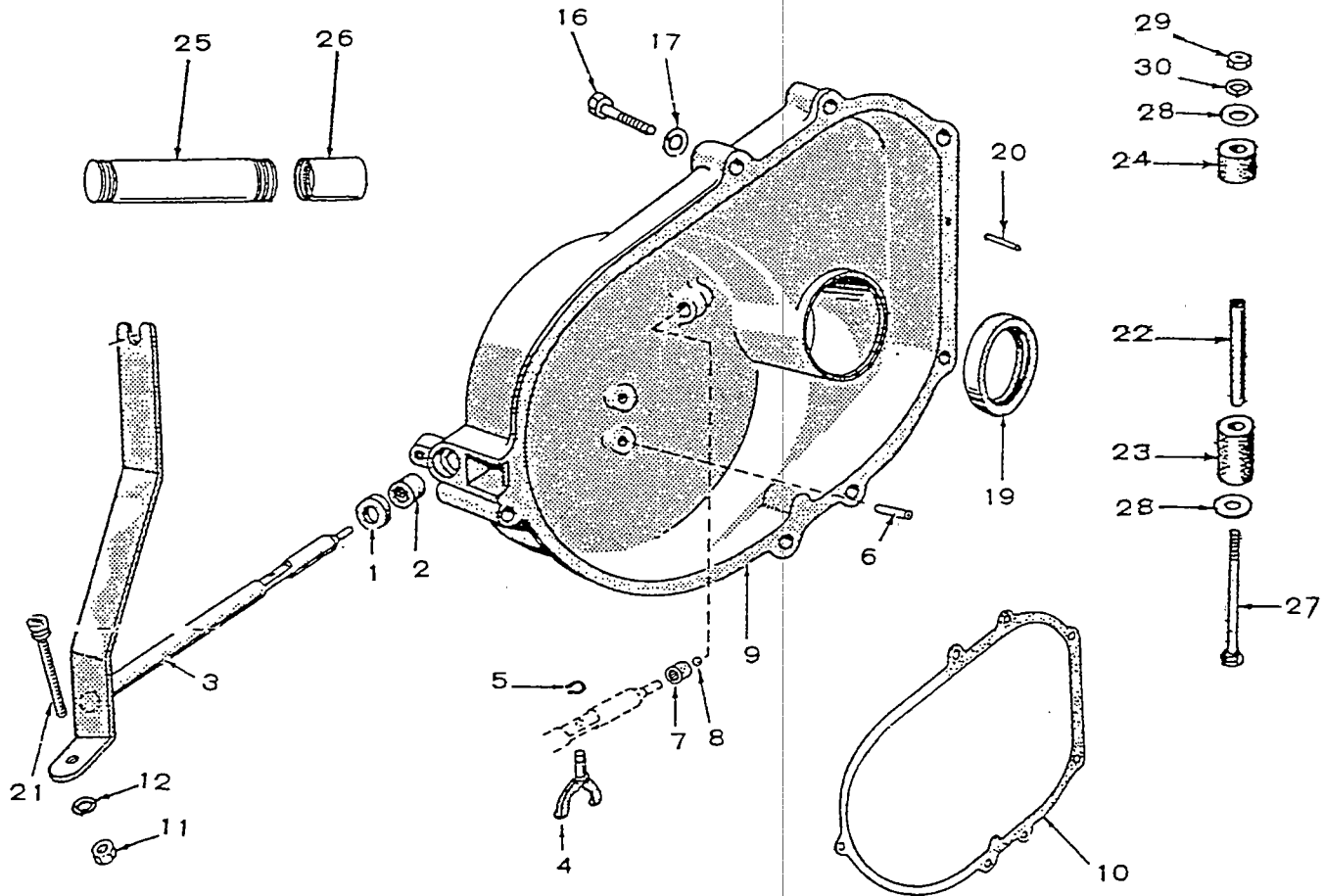


Crankshaft, Camshaft, Flywheel and Piston

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078	1	Ring, Pin - Camshaft Center	16	800-0540	2	Screw, Cap - Hex Head (Special)
2	150-1695	1	Cup, Governor Kit (Includes Parts Marked †)	17	114-0059	2	Washer, Lock - Connecting Rod
3	510-0015	10	Ball, Fly - Governor	18	114-0108	1	Dipper, Oil - Spec A through M - Splash Lube Systems
4	104-0032	1	Gear, Crankshaft	19	526-0017	1	Washer, Flat (15/32" ID x 1-1/4" OD x 1/4" Thk)
5	150-0077	1	*Plate, Governor Ball - Spec A Through D and Begin Serial #800755	20	515-0227	1	Key, Mounting - Wheel (Kit)
6			*Spacer, Governor Flyball	21	104-0170	1	Screw, Mounting - Wheel (Special)
	150-1257	1	Spec A Through D	22			Sheave, Rope - Starter
	150-1257	1	Begin Serial #800755		160-0222	1	Key 1,2,3, Spec A Only
7	105-0541	1	Washer, Thrust - Camshaft Gear		192-0308	1	Key 5,6,7, Spec A Only - Pressure Cooled
8	515-0001	1	Key, Mounting - Camshaft Gear		192-0308	1	All Pressure Cooled Sets - Begin Spec B
9			Camshaft (Includes Center Pin)		192-0272	1	Vacu-Flo Cooled Sets - Key 5,6,7
	105-0141	1	Splash Lube Systems	23			Flywheel - Pressure Cooled Sets
	105-0551	1	Pressure Lube Systems		160-0202	1	Includes Magnets Key 1,2,3, Spec A Only
10	150-0075	1	Pin, Center - Camshaft		160-0650	1	Includes Magnets Key 1,2,3, Spec B Only
11			Piston and Pin (Includes Retainer Rings)		160-0975	1	Includes Magnets Key 1,2,3, Begin Spec C
	112-0136	1	Standard		134-0591	1	Key 5,6,7, Spec A and B
	112-0136-05	1	.005" Oversize		134-1649	1	Key 5,6,7, Begin Spec C
	112-0136-10	1	.010" Oversize	24			Flywheel - Vacu-Flo Cooled Sets
	112-0136-20	1	.020" Oversize		104-0691	1	Key 5,6,7, Spec A and B
	112-0136-30	1	.030" Oversize		104-0615	1	Key 5,6,7, Begin Spec C
	112-0136-40	1	.040" Oversize	25	518-0014	1	Lock, Washer - Crankshaft Gear
12	112-0069	1	Pin, Piston	26	104-0043	1	Washer, Gear - Crankshaft Retainer (Special)
13	112-0003	2	Ring, Retainer - Piston Pin	27			Crankshaft (Includes Keys)
14			Rod, Connecting (Includes Lock Washers and Screws)		104-1342	1	Splash Lube System
			Spec A through M - Splash Lube Systems		104-1298	1	Pressure Lube System
	114-0254	1	Standard	28	515-0001	1	Key, Crankshaft Gear
	114-0254-10	1	.010" Undersize	29	192-0023	1	Rope, Starting - Manual
	114-0254-20	1	.020" Undersize	30	850-0055	1	Washer, Lock - Spring (7/16")
	114-0254-30	1	.030" Undersize	31	150-1519	1	†Hub, Cup - Governor
			Begin Spec N - Pressure Lube Systems	32	150-1520	1	†Cup, Governor
	114-0098	1	Standard	33	105-0332	1	Gear Assembly, Camshaft (Includes Parts Marked *)
	114-0098-10	1	.010" Undersize	34	105-0030	1	*Gear, Camshaft
	114-0098-20	1	.020" Undersize				
	114-0098-30	1	.030" Undersize				
15			Ring Set, Piston				
			Spec A through M - Splash Lube Systems				
	113-0087	1	Standard				
	113-0087-05	1	.005" Oversize				
	113-0087-10	1	.010" Oversize				
	113-0087-20	1	.020" Oversize				
	113-0087-30	1	.030" Oversize				
	113-0087-40	1	.040" Oversize				
			Begin Spec N - Pressure Lube Systems				
	113-0176	1	Standard				
	113-0176-05	1	.005" Oversize				
	113-0176-10	1	.010" Oversize				
	113-0176-20	1	.020" Oversize				
	113-0176-30	1	.030" Oversize				
	113-0176-40	1	.040" Oversize				

† - Parts Included in 150-1695 Governor Cup Kit.
 * - Parts Included in 105-0332 Camshaft Gear Assembly.

Gearcase and Mounting Hardware



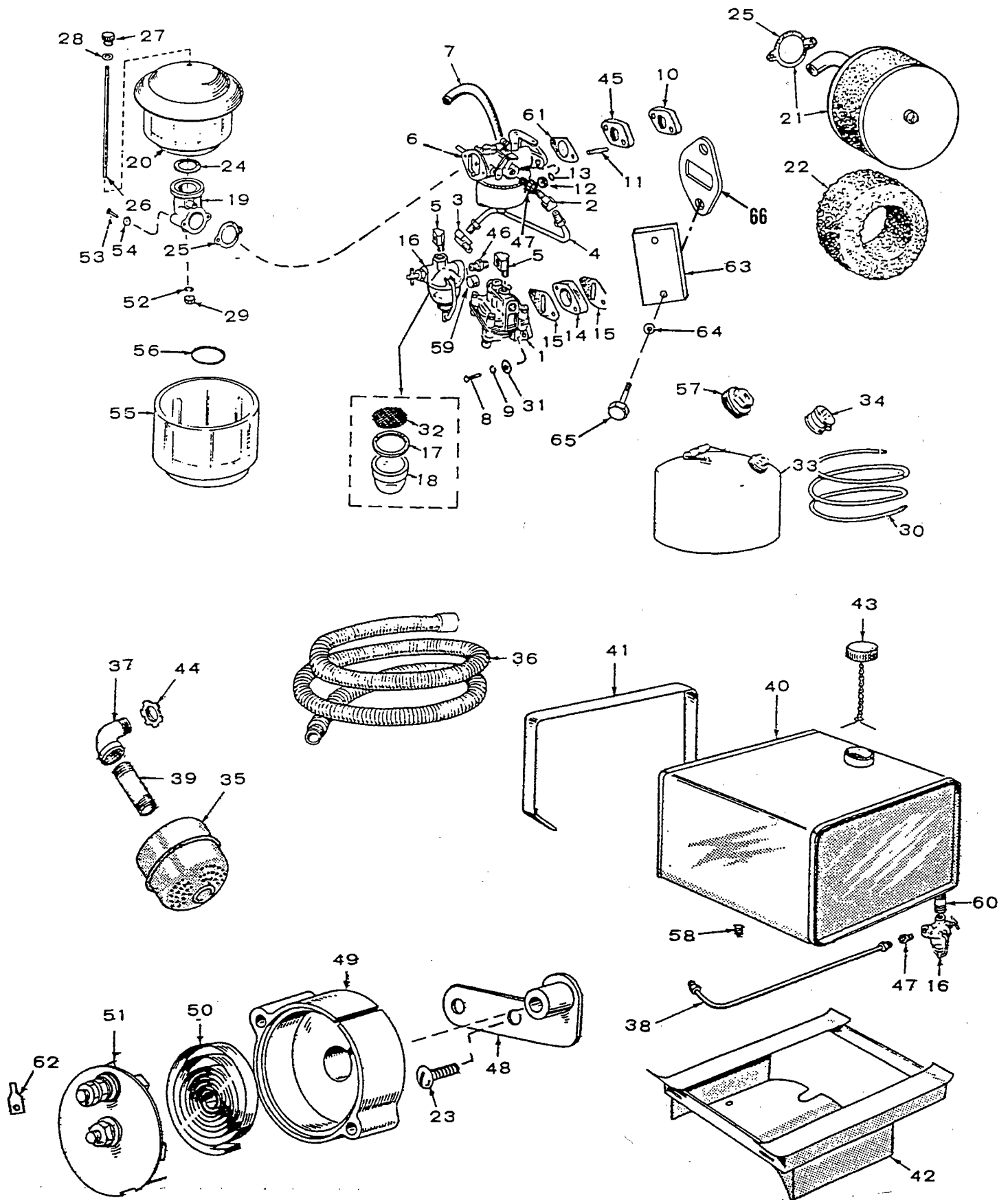
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	402-0149	4	Cushion Assembly, Mounting (Includes Parts Marked †)
1	509-0008	1	*Seal, Oil - Governor Shaft
2	510-0013	1	*Bearing, Shaft - Governor (Upper)
3	150-0610	1	*Shaft and Arm, Governor
4	150-0620	1	*Yoke, Shaft - Governor
5	518-0129	1	*Ring, Retainer - Yoke
6	516-0130	1	*Pin, Stop - Governor Cup (In Gear Cover)
7	510-0008	1	*Bearing, Shaft - Governor (Lower)
8	510-0014	1	*Ball, Bearing - Governor Shaft
9	103-0640	1	Gearcase Assembly (Includes Parts Marked *)
10	103-0011	1	Gasket, Cover - Gear
11	870-0053	1	*Nut, Hex (#10-32)
12	850-0030	1	*Washer, Lock - Spring (#10)
16			Screw, Cap - Hex Head
	800-0034	1	5/16-18 x 2-1/4" Lg
	800-0032	4	5/16-18 x 1-3/4" Lg

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
17	850-0045	5	Washer, Lock - Spring (5/16")
19	509-0040	1	*Seal, Cover - Gear
20	516-0141	2	Pin, Cover - Gear (5/16 x 1-1/8")
21	150-0136	1	*Stud, Sensitivity - Governor
22	402-0148	4	†Bushing, Spacer - Mounting Cushions
23	402-0146	4	†Cushion, Mounting - Lower
24	402-0147	4	†Cushion, Mounting - Upper
25	505-0076	1	Nipple, Drain - Oil
26	505-0028	1	Coupling, Drain - Oil
27	816-0114	4	†Bolt, Carriage (5/16-18 x 4-1/2") - Cushion Mounting
28	526-0076	8	†Washer, Flat (11/32" ID x 1-1/2" OD x 1/16" THK)
29	862-0015	4	†Nut, Hex (5/16-18)
30	850-0045	4	†Washer, Lock - Spring (5/16")

* - Parts Included in 103-0640 Gearcase Assembly.

† - Parts Included in 402-0149 Mounting Cushion Assembly.

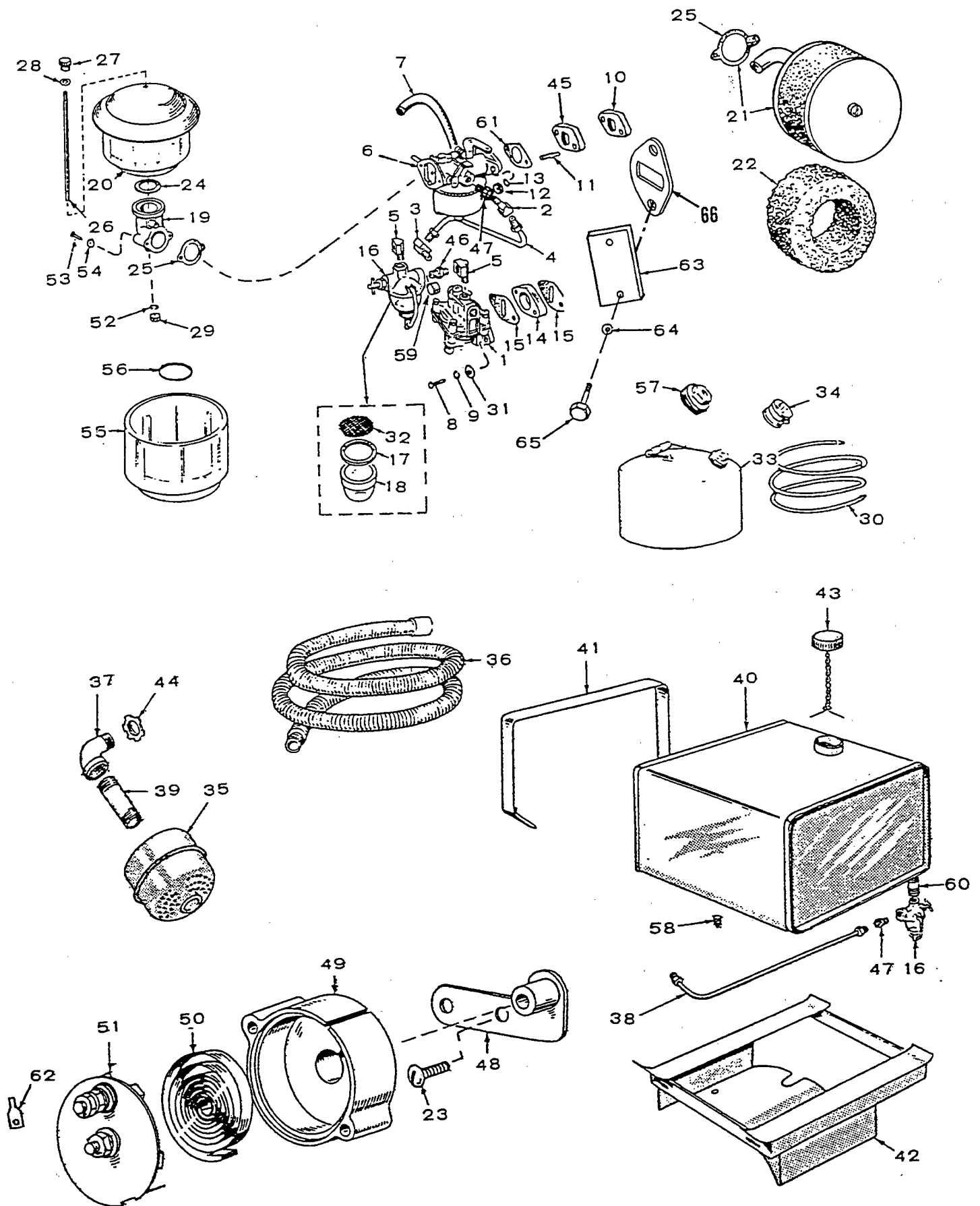
Fuel System



Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-1784	1	Pump, Fuel (Includes Mounting Gasket) See Separate Group for Components - Key 5,6,7	23	815-0190	2	Screw (#8-32 x 3/8") - Adapter Mounting
2	502-0002	1	Elbow, Inlet - Carburetor (Electric Choke)	24	140-0443	1	Gasket, Cleaner - Air, Begin Spec C (Optional Spec A and B)
3	502-0002	1	Elbow, Outlet - Fuel Pump	25	145-0111	1	Gasket, Adapter to Carburetor
4			Line, Fuel Pump to Carburetor - Key 5,6,7	26	520-0538	1	Stud, Cleaner - Air, Begin Spec C (Optional Spec A and B)
	149-0614	1	Spec A Through D	27	140-0587	1	Nut, Cleaner - Air, Plastic - Begin Spec C (Optional Spec A and B)
	149-1112	1	Begin Spec E	28	850-0030	1	Washer, Lock (#10)
5	502-0020	2	Elbow (1) Fuel Filter (1) Fuel Pump Inlet - Key 5,6,7	29	870-0053	2	Nut, Hex (#10-32) - Air Cleaner Stud
6			Carburetor - Complete (Includes Mounting Gasket) (See Separate Group for Components) Gasoline	30	501-0007	1	Line, Fuel (Flexible) - Key 1,2,5,6,7
			Key 1,2,3 - Manual Choke	31	526-0063	2	Washer, Flat (Copper) - Pump Mounting - Key 5,6,7 (17/64 ID x 7/16 OD x 1/32" Thk)
	146-0130	1	Spec A Through D	32	149-0202	1	*Screen, Filter - Fuel - All Models
	146-0296	1	Begin Spec E	33	415-0126	1	Tank, Fuel - Key 5,6,7
			Key 5,6,7 - Electric Choke	34	415-0124	1	Cap, Rain - Fuel Tank - Key 5,6,7
	146-0131	1	Spec A Through D	35	155-0484	1	Muffler, Exhaust
	146-0297	1	Begin Spec E	36	155-0127	1	Tube, Exhaust (Flexible - Includes Coupling) - Key 5,6,7
		#	Gas	37	505-0003	1	Elbow, Pipe - Exhaust
	146-0127	1	Spec A Through D	38	159-0536	1	Line, Filter to Carburetor - Key 1,2,3
	146-0091	1	Begin Spec E	39			Nipple, Exhaust
		#	Gas-Gasoline		505-0087	1	1 x 3"
			Key 1,2,3 - Manual Choke		505-0089	1	1 x 5" - All Housed Sets
	146-0128	1	Spec A Through D	40	159-0530	1	Tank, Mounted - Fuel - Key 1,2,3
	146-0094	1	Begin Spec E	41	159-0537	2	Strap, Tank - Mounted Fuel - Key 1,2,3
			Key 5,6,7 - Electric Choke	42	159-0531	1	Bracket, Tank - Mounted Fuel - Key 1,2,3
	146-0129	1	Spec A Through D	43	159-0020	1	Cap, Tank - Mounted Fuel - Key 1,2,3
	146-0299	1	Begin Spec E	44	331-0053	1	Locknut, Elbow - Exhaust (1")
7	503-0736	1	Hose, Breather	45	145-0469	1	Plate, Mounting - Carburetor
8	806-0009	2	Screw, Cap - Counterbore Fuel Pump Mounting - Key 5,6,7 (1/4-20 x 1")	46	502-0082	2	Nipple, Filter - Fuel
9	850-0040	2	Washer, Lock (1/4") Key 5,6,7 Fuel Pump Mounting	47	502-0003	2	Connector, Line - Fuel Filter (1) Key 1,2,3 (1) Carburetor Inlet (Manual Choke)
10	145-0110	1	Spacer, Mounting - Carburetor	48			Adapter, Choke - Electric - Key 5,6,7
11			Stud, Mounting - Carburetor		153-0196	1	Spec A through D
	520-0363	2	Spec A through D		153-0420	1	Begin Spec E
	520-0632	2	Begin Spec E	49	153-0058	1	Housing, Choke - Electric - Key 5,6,7
12	868-0001	2	Nut, Hex - Jam (1/4-28)	50	153-0017	1	Bimetal, Choke - Key 5,6,7
13	853-0013	2	Washer, Shakeproof (1/4)	51	153-0113	1	Element and Cover, Choke - 12 Volt Element - Key 5,6,7
14	149-0045	1	Spacer, Mounting - Pump - Key 5,6,7	52	854-0010	1	Washer, Lock (#10)
15	149-0003	2	Gasket, Mounting - Pump - Key 5,6,7 (Key, 1,2,3 Use 1)	53	812-0082	2	Screw (#8-32 x 3/4") - Adapter Mounting
16	149-0079	1	Filter, Fuel - All Models (Includes Parts Marked *)	54	850-0025	2	Washer, Lock (#8)
17	149-0149	1	*Gasket, Bowl - Filter (All Models)	55	140-0469	1	Cup, Bath - Oil (Plastic)
18	149-0150	1	*Bowl, Filter - Fuel (All Models)	56	509-0135	1	Seal, "O" Ring
19	140-0493	1	Adapter, Cleaner - Air	57	415-0313	1	Cap, Tank - Fuel
20	140-0441	1	Cleaner Assembly, Air - Oil Bath, Begin Spec C (Optional Spec A and B)	58	505-0057	1	Plug, Drain
21	140-0397	1	Cleaner, Air - Dry - Spec A and B (Optional Begin Spec C)	59	149-1861	1	Valve, Safety - Fuel - Electric (Kit)
22	140-0408	1	Element, Cleaner - Air - Spec A and B (Optional Begin Spec C)				

Fuel System

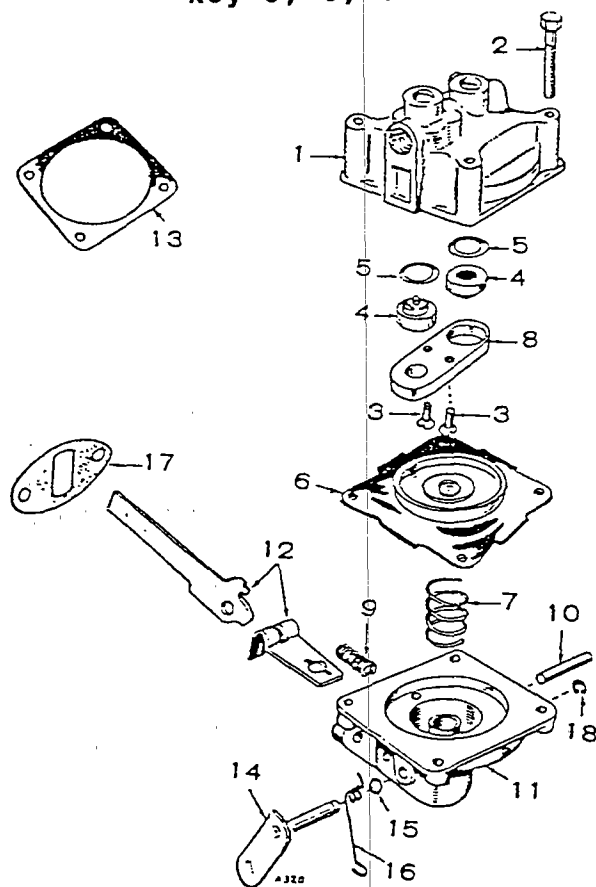


Fuel System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
60	502-0046	1	Nipple, Close - Mounted Fuel Tank - Key 1,2,3	65	812-0148	2	Screw, Machine - Round Head (1/4-20 x 1/2") Key 1,2,3
61	141-0078	1	Gasket, Mounting - Carburetor	66	149-0003	1	Gasket, Fuel Pump Hole - Key 1,2,3
62	332-0527	1	Terminal, Disconnect - Quick				
63	149-0136	1	Cover, Hole - Fuel Pump - Key 1,2,3				
64	526-0063	2	Washer, Flat (17/64 ID x 7/16 OD x 1/32" Thk) Key 1,2,3				

* - Parts Included in 149-0079 Fuel Filter
- See separate optional group for additional related replacement parts for Gas and Gasoline Fuel Systems.

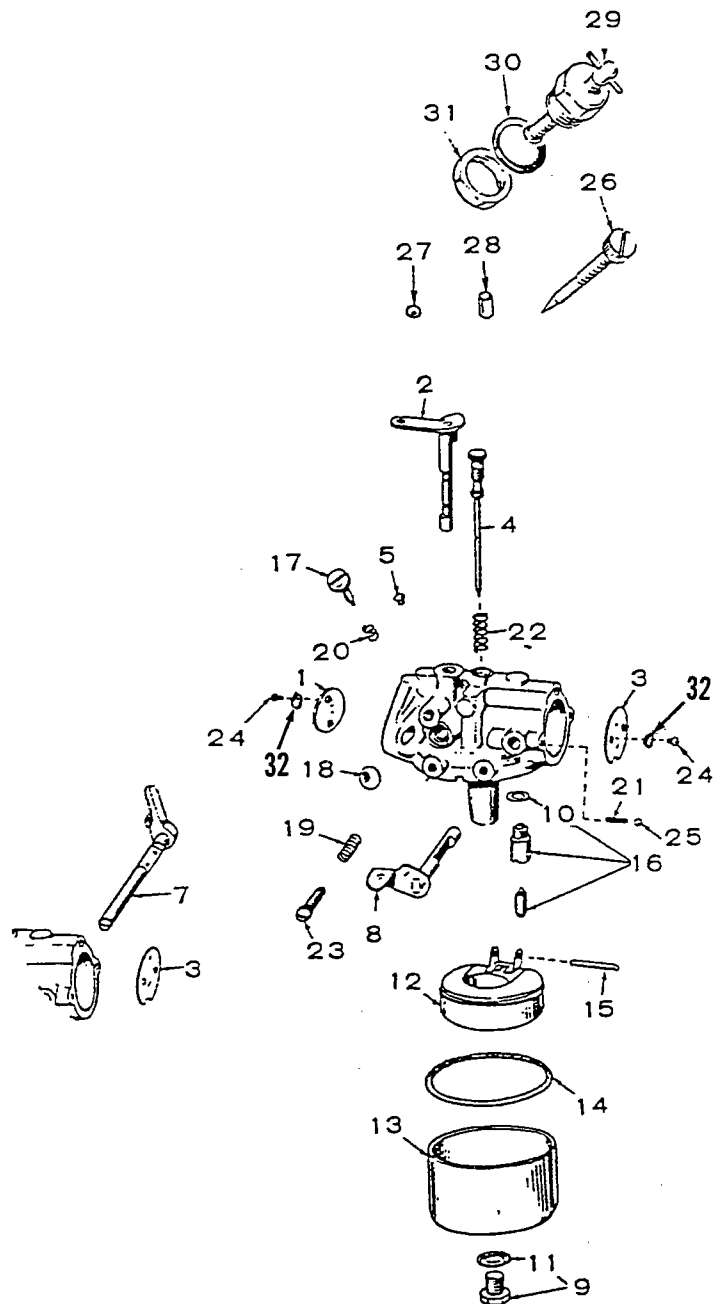
Fuel Pump Parts Key 5, 6, 7



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	149-1784	1	Pump, Fuel (Complete) (Includes Mounting Gasket)	8	149-0539	1	Retainer, Cage - Valve
	149-0526	1	Repair Kit (Includes Parts Marked *)	9	149-0675	1	*Spring
1		1	Body (Not Sold Separately)	10	516-0113	1	Pin, Arm - Rocker
2	815-0148	4	Screw, Hex Head - Slotted (#8-32 x 7/8")	11		1	Body (Not Sold Separately)
3	815-0147	2	Screw, Self Tapping - Phillips (#6-32 x 5/8") - Retainer	12	149-0710	1	Link and Arm, Rocker (Sold Only as a Set)
4	149-0096	2	*Valve and Cage	13	149-0858	1	*Gasket, Diaphragm - Lower Side
5	149-0095	2	*Gasket, Valve	14	149-0551	1	Lever, Primer
6	149-0582	1	*Diaphragm Assembly	15	509-0065	2	Seal, "O" Ring
7	149-0672	1	*Spring	16	149-0404	1	Spring, Lever - Prime
				17	149-0003	1	*Gasket, Mounting - Pump
				18	518-0129	1	Ring, Retainer - Primer Lever

* - Parts Included in 149-0526 Repair Kit.

Carburetor Parts
Specs A through D

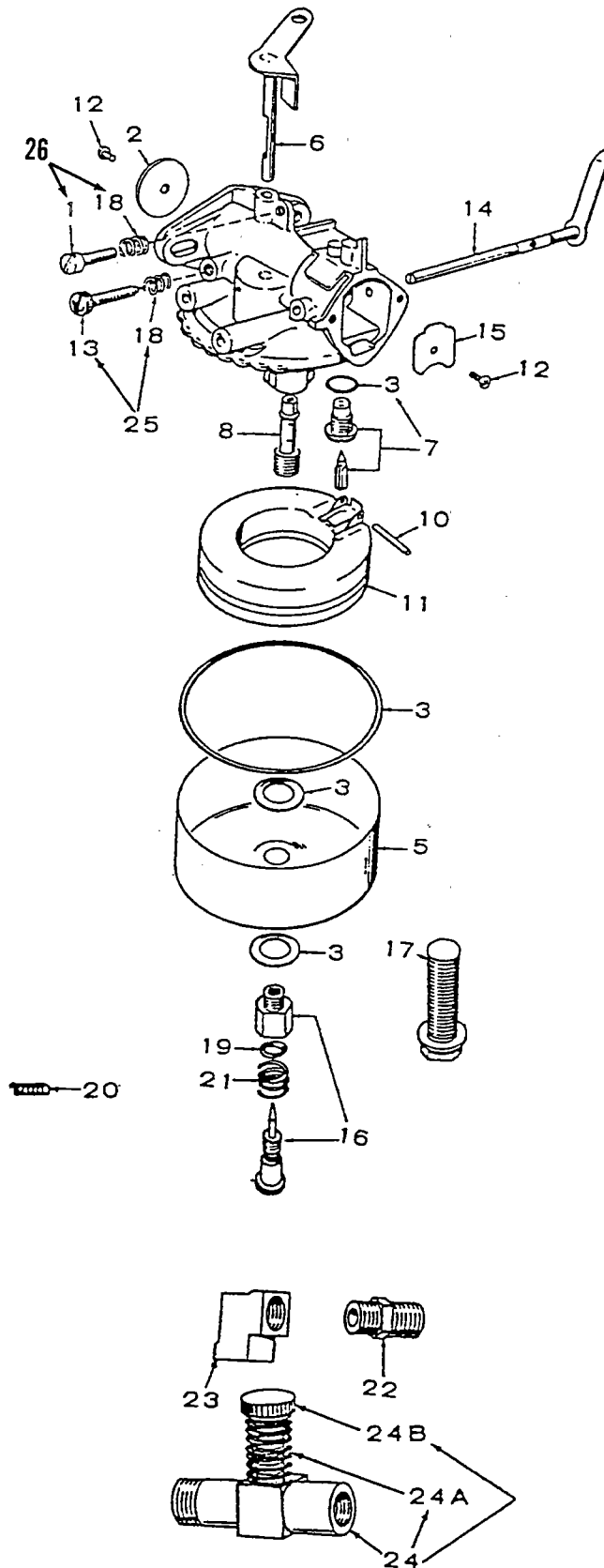


Carburetor Parts Specs A through D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor - Replacement (Includes Mounting Gasket)	17	143-0109	1	Screw, Adjustment - Idle
	146-0130	1	Gasoline - Keys 1,2,3 (Manual Choke)	18	143-0110	1	Plug, Welch
	146-0131	1	Gasoline - Keys 5,6,7 (Electric Choke)	19	143-0111	1	Spring, Screw - Throttle Lever Adjusting
	146-0127	1	Gas	20	143-0112	1	Spring, Screw - Idle Adjusting
	146-0128	1	Gas-Gasoline - Keys 1,2,3 (Manual Choke)	21	143-0113	1	§Spring, Shaft - Choke - Key 1,2,3
	146-0129	1	Gas-Gasoline - Keys 5,6,7 (Electric Choke)	22	143-0114	1	Spring, Needle - High Speed Adjusting
	143-0080	1	Kit, Gasket - Carburetor (Includes Parts Marked *)	23	143-0115	1	Screw, Adjusting - Throttle Lever
	143-0081	1	Kit, Repair - Carburetor (Includes Parts Marked †)	24	812-0014	4	§†Screw, Machine - Round Head (#3-48 x 3/16) Choke and Throttle Valve Attaching
1	143-0097	1	Valve, Throttle	25	143-0117	1	§Ball, Shaft - Choke - Key 1,2,3
2	143-0098	1	Shaft and Lever, Throttle	26	148-0268	1	Needle, Valve (Gas only Carburetor)
3	143-0099	1	§Valve, Choke	27	517-0062	1	Plug, Shot - Drop (Gas only Carburetor)
4	143-0078	1	§†Needle, Idle Jet and High Speed Adjustment	28	516-0120	2	Plug, Holes - Choke Shaft (Gas only Carburetor)
5	143-0030	1	Plug, Idle Passage	29	148-0135	1	Lock Assembly, Carburetor Float - Gas-Gasoline Carburetor
7	143-0100	1	§Shaft and Weight, Choke - Key 5,6,7 (Modification note: Customer must drill 3/16 diameter hole through weight at 9/32" from shaft center for choke lock pin for gas operation on Gas-Gasoline model.)	30	148-0017	1	Gasket, Mounting - Float Lock - Gas-Gasoline Carburetor
8	143-0101	1	§Shaft and Lever, Choke - Key 1,2,3	31	148-0038	1	Nut, Mounting - Float Lock - Gas-Gasoline Carburetor
9	143-0118	1	§Screw and Gasket, Bowl	32	854-0003	4	†Washer, Lock - IT (#3)
10	143-0015	1#§†	Gasket, Valve - Fuel Inlet				
11	143-0036	1#§†	Gasket, Screw - Bowl				
12	143-0105	1	§Float and Lever				
13	143-0119	1	§Bowl				
14	143-0077	1#§†	Gasket, Ring - Bowl				
15	143-0212	1	†§Pin, Lever - Float				
16	143-0341	1	§†Kit, Repair - Fuel Inlet Valve (Includes Parts Marked #)				

§ - Not Used with Gas Only Carburetor.
 * - Parts Included in 143-0080 Gasket Kit.
 † - Parts Included in 143-0081 Repair Kit.
 # - Parts Included in 143-0341 Fuel Inlet Valve
 Repair Kit.

Carburetor Parts Begin Spec E

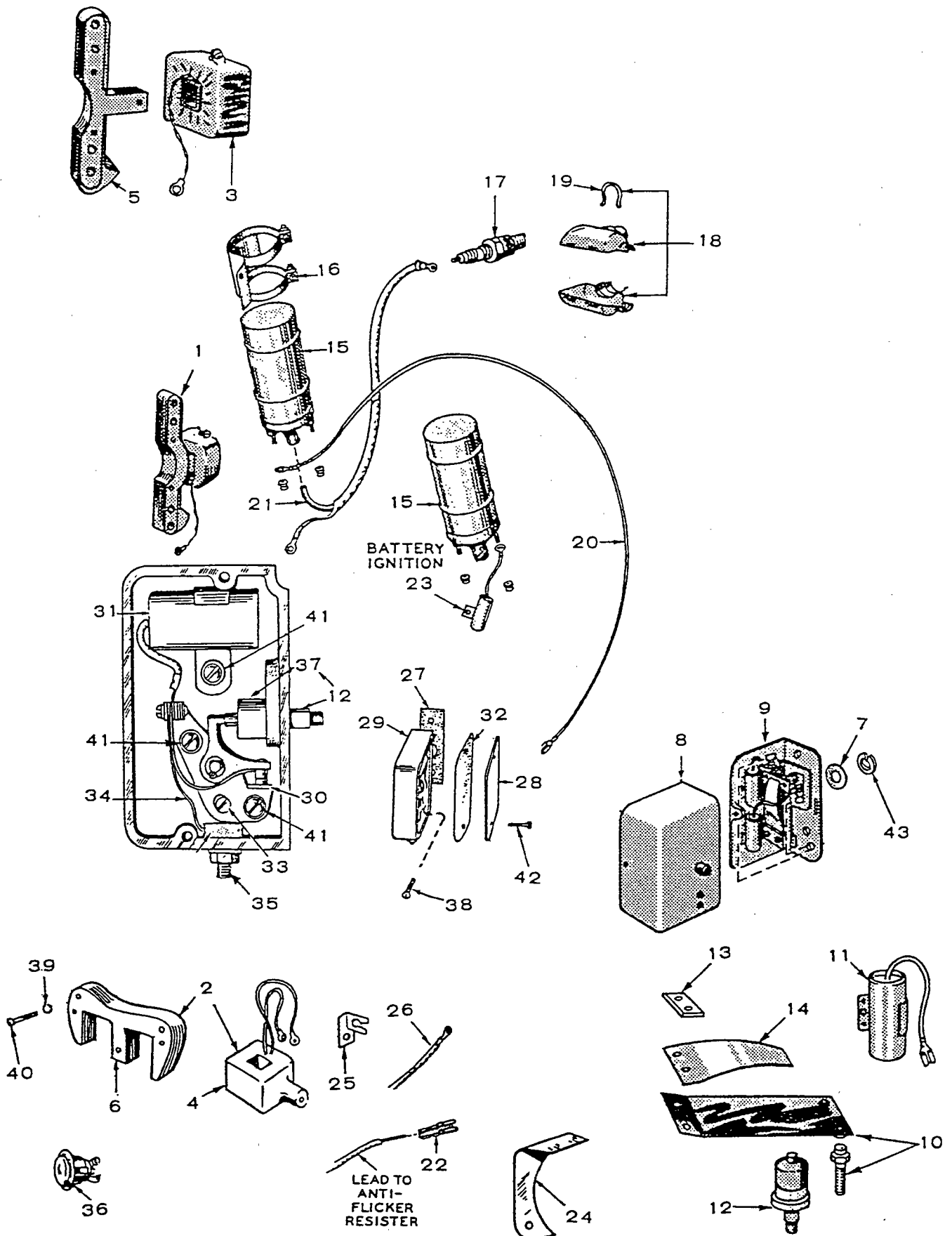


Carburetor Parts Begin Spec E

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor, Gasoline (Includes Mounting Gasket)	15			Valve, Choke (Gasoline Carburetors)
	146-0296	1	Keys 1,2,3 (Manual Choke)		146-0105	1	Manual Choke
	146-0297	1	Keys 5,6,7 (Electric Choke)		146-0104	1	Electric Choke
			Carburetor, Gas-Gasoline (Includes Mounting Gasket)	16	146-0102	1	*Needle Assembly, Power (Gasoline and Gas-Gasoline Carburetor)
	146-0094	1	Key 1,2,3 (Manual Choke)				
	146-0299	1	Key 5,6,7 (Electric Choke)	17	146-0103	1	Screw, Retainer - Bowl (Gas Carburetor)
	146-0091	1	Carburetor, Gas				
	146-0123	1	Kit, Repair - Carburetor (Includes Parts Marked *)	18	146-0186	2	*\$Spring, Throttle Stop Screw and Idle Screw
			Gasoline and Gas-Gasoline Units	19	146-0120	1	Seal, "O" Ring - High Speed Needle (Gasoline and Gas-Gasoline Carburetors)
1	146-0122	1	*Screw, Stop - Throttle				
2	146-0119	1	Valve, Throttle	20	146-0114	1	Spring, Stop - Choke (Gasoline and Gas-Gasoline Carburetors with Manual Choke)
3	146-0124	1	*Gasket, Carburetor (Pkg)				
5	146-0118	1	Bowl, Fuel	21	146-0117	1	Spring, Needle - High Speed (Gasoline and Gas-Gasoline Carburetor)
6	146-0112	1	Shaft Assembly, Throttle				
7			Float, Valve				
	146-0115	1	Seat and Gasket Assembly (Gasoline & Gas-Gasoline Carb.) - Not used on Rough Service Carburetors	22	502-0082	1	Nipple, Gas (Gas or Gas-Gasoline)
				23	502-0055	1	Elbow, Gas (Gas or Gas-Gasoline)
	146-0145	1	Seat, Spring and Gasket Assembly - For Rough Service Carburetors	24	148-0178	1	Adjustment Assembly, Gas (Gas or Gas-Gasoline) (Includes Parts Marked †)
8	146-0113	1	Nozzle (Gasoline and Gas-Gasoline Carburetors)				
10	146-0111	1	*Shaft, Float (Gasoline and Gas-Gasoline Carburetors)	24A	148-0010	1	†Spring, Gas Assembly
				24B	148-0131	1	†Screw, Gas Assembly
11	146-0110	1	Float Assembly (Gasoline and Gas-Gasoline Carburetors)	25	146-0209	1	Needle Assembly, Idle Adjust - Package (Includes Parts Marked \$)
12	146-0109	2	Screw and Washer (One only for Gas Carburetors)				
13	146-0116	1	\$Needle, Idle (Gasoline and Gas-Gasoline Carburetors)	26	146-0261	1	Screw Package - Throttle Adjust (Includes Parts Marked *)
14			Shaft Assembly, Choke (Gas-Gasoline and Gasoline)				
	146-0108	1	Manual Choke				
	146-0107	1	Electric Choke (Gasoline Carburetor)				
	146-0106	1	Electric Choke (Gas-Gasoline Carburetors)				

- * - Parts Included in 146-0123 Repair Kit.
- † - Parts Included in 148-0178 Gas Adjustment Assembly.
- \$ - Parts Included in 146-0209 Idle Needle Assembly.
- - Parts Included in 146-0261 Throttle Adjust Screw Package.

Ignition System

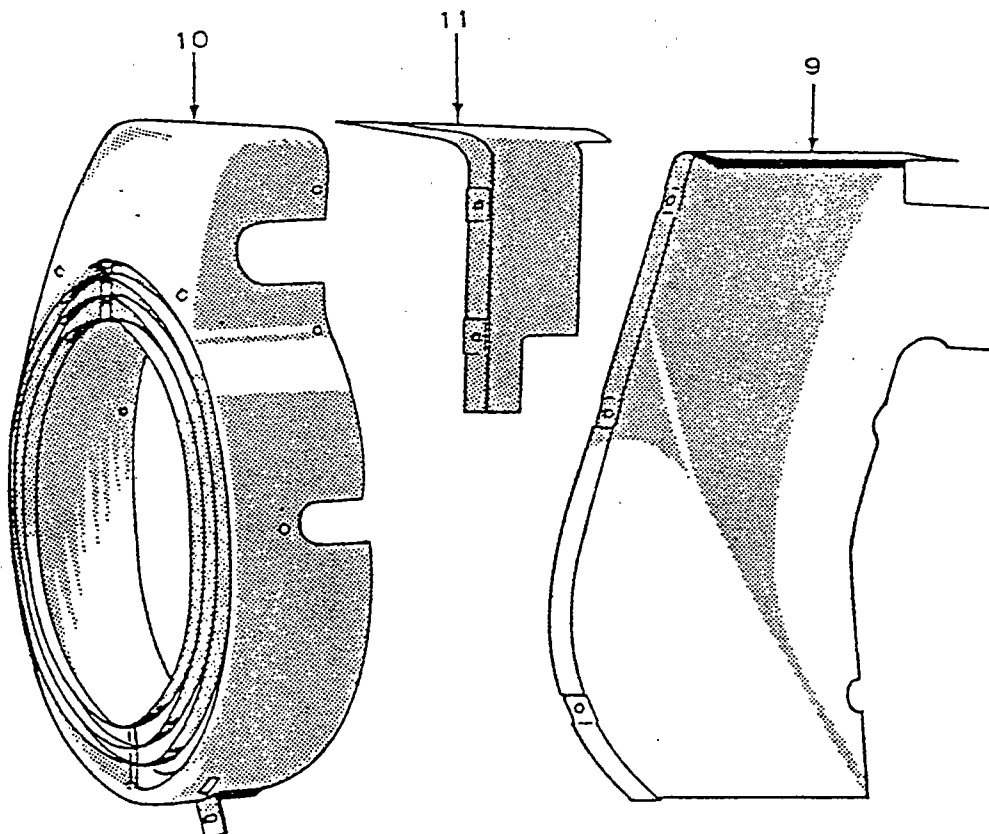
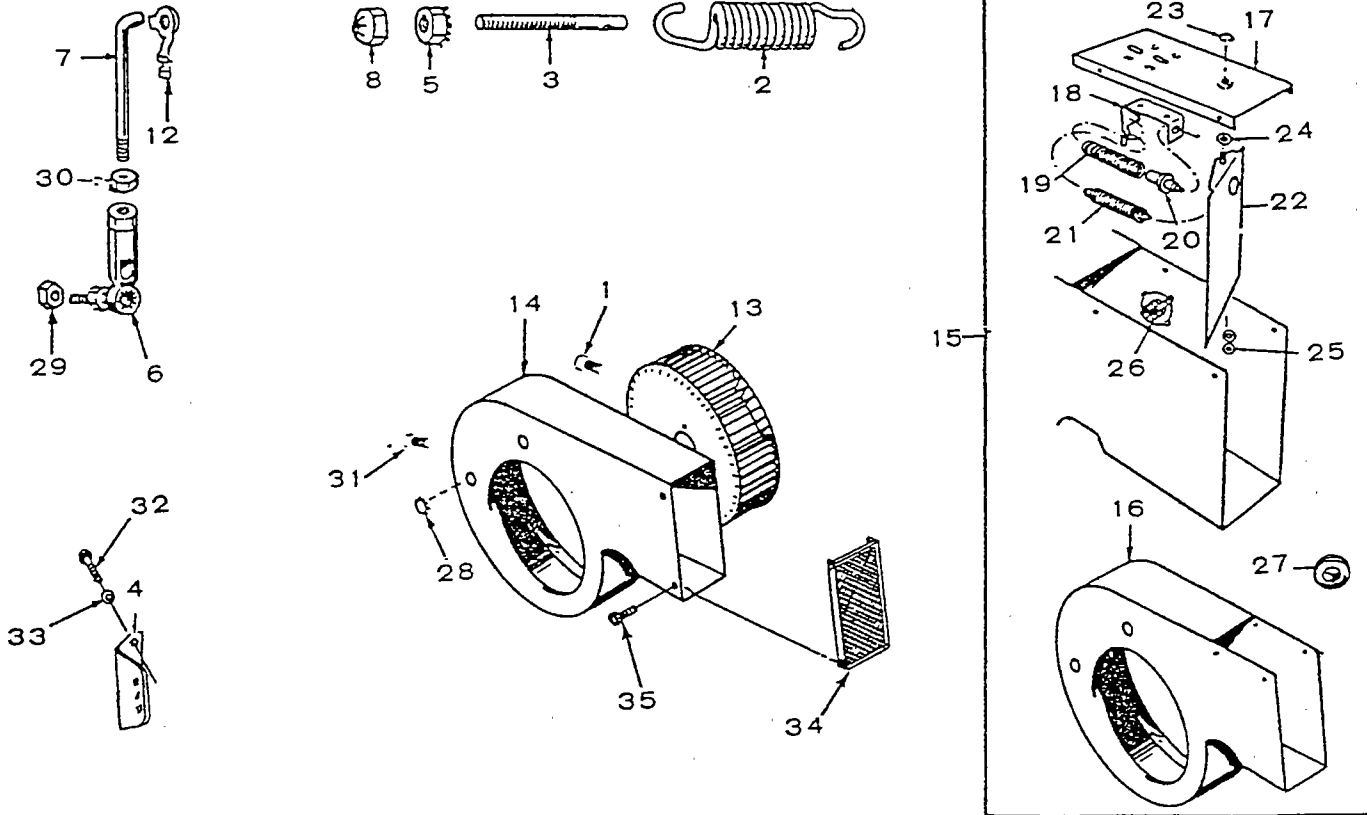


Ignition System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	160-0836	1	Kit, Tune-Up - Ignition (Includes Parts Marked *) Begin Spec E	22	332-0529	2	Terminal, Lead - Anti-Flicker
1	160-0722	1	Stator Assembly, Magneto, Key 1,2,3 - Spec A and B	23	312-0058	1	Condenser, 0.1 Mfd. - Ignition Coil - Key 5,6,7
2	160-1028	1	Magneto Assembly, Key 1,2,3 - Begin Spec C (Includes Spark Plug Cable)	24	160-0500	1	Bracket, Timing - Vacu-Flo Set - Key 5,6,7
3	160-0282	1	Coil, Stator - Magneto	25	167-0188	1	Clip, Cable - Spark Plug - Coated - Key 1,2,3 - Begin Spec C
4			Coil, Magneto - Key 1,2,3	26	167-1486	1	Lead, High Tension - Ground - Key 1,2,3 - Spec C Only
	160-1027	1	Spec C through M	27			Gasket, Mounting - Breaker Box Spec E through M
	160-1002	1	Begin Spec N		160-1152	1	Begin Spec N
5	160-0281	1	Pole Shoe, Magneto - Key 1, 2,3 - Spec A and B		160-0043	1	Begin Spec N
6	160-0749	1	Pole Shoe, Magneto - Key 1, 2,3 - Begin Spec C	28	160-0930	1	Cover, Box - Breaker - Begin Spec E
7	160-0515	1	Gasket, Mounting - Breaker Box - Spec A through D	29	160-0257	1	Box Assembly, Ignition Breaker - Includes Cover and Gasket - Begin Spec E
8			Cover, Box - Breaker - Spec A through D	30	160-0002	1	*Point Set, Breaker - Begin Spec E
	160-0497	1	Key 5,6,7	31	312-0069	1	*Condenser, Points - Breaker - Begin Spec E
	160-0510	1	Key 1,2,3	32	160-0150	1	Gasket, Cover - Breaker Box - Begin Spec E
9			Box Assembly, Ignition Breaker - Less Cover	33	160-0075	1	Cam, Adjusting - Point Gap - Begin Spec E
	160-0498	1	Spec A and B	34	160-0428	1	Strap, Point Set to Terminal Block - Begin Spec E
	160-0976	1	Spec C through D	35	160-0349	1	Block and Terminal Assembly, Breaker Box - Begin Spec E
10	160-0513	1	Contact Point Set, Dual - Ignition and Anti-Flicker - Spec A through D (NOTE: Use the Ignition Contacts Only Begin Spec C)	36	313-0018	1	Switch, Stop - Key 1,2,3
11	312-0100	1	Condenser - .05 Mfd. - Ignition (Spec A and B, Use 1 for Anti-Flicker)	37	160-1143	1	Diaphragm, Plunger - Breaker (For early models only)
12	160-0262	1	Plunger Assembly (Includes Plunger, Diaphragm and Guide)	38	802-0034	2	Screw, Head - Socket - Breaker Box Mounting (1/4-20 x 3/4")
13	166-0067	1	Strip, Breaker - Dampener	39	850-0040	2	Washer, Lock - Stator Mounting (1/4")
14	166-0049	1	Dampener, Spring - Breaker	40	812-0155	2	Screw, Machine - Round Head - Stator Mounting (1/4-20 x 1-1/4")
15	166-0278	1	Coil, Ignition - Key 1,2,3 - Spec A and B (Also all Key 5,6,7)	41	518-0049	3	Screw, Head - Round W/ET (#8-32 x 1/4")
16	166-0433	1	Bracket, Mounting - Coil - Spec A and B (Also Key 5,6,7 - Begin Spec C)	42	812-0077	2	Screw, Machine - Round Head Breaker Box Cover Mounting (#8-32 x 3/8")
17			Plug, Spark	43	850-0040	2	Washer, Lock - Breaker Box Mounting (1/4")
	167-0241	1	Non-Resistor Type				
	167-0237	1	Resistor Type				
18	167-0139	1	Shield, Plug - Spark - Includes Clamp				
19	167-0064	1	Clamp, Shield - Spark Plug				
20	334-0028	1	Lead (4 ft. Piece of Wire)				
21			Cable, Plug - Spark				
	167-1296	1	Key 5,6,7 (Also Key 1,2,3 - Spec A and B)				
	167-1487	1	Key 1,2,3 - Begin Spec C				

* - Parts Included in 160-0836 Ignition Tune Up Kit.

Air Housing and Governor

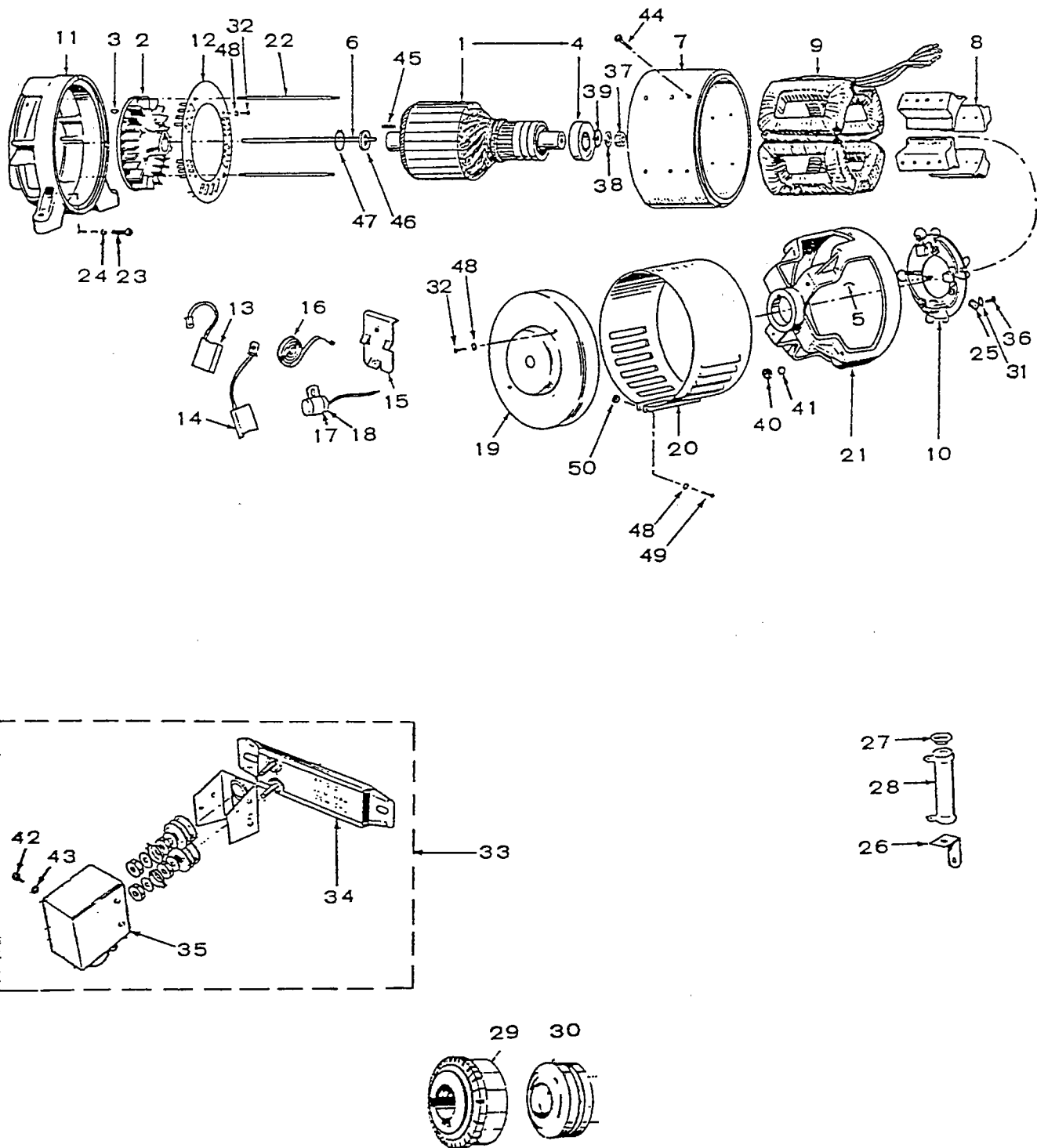


Air Housing and Governor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0018	4	Screw, Cap - Hex Head - Locking Blower Wheel - Key 5,6,7 (1/4-20 x 5/8")	16	134-0815	1	*Scroll, With Provision for Air Shutter
2	150-0098	1	Spring, Governor	17	134-0661	1	*Plate, Mounting - Vernatherm Element
3	150-0096	1	Stud, Adjustment - Speed	18	134-0660	1	*Bracket, Mounting - Vernatherm Element
4	150-0611	1	Bracket, Stud - Speed	19	134-0656	1	*Spring, Element - Vernatherm
5	870-0131	1	Nut, Hex - W/ET - Speed Adjustment (#10-32)	20	309-0085	1	*Element, Vernatherm
6	150-0974	1	Joint, Ball	21	134-0658	1	*Spring, Shutter
7			Link, Throttle	22	134-0655	1	*Shutter, Control - Circulated Air
	150-0732	1	For Sets with Gasoline or Gas-Gasoline Carburetor	23	518-0074	1	*Ring, Shaft - Retainer Shutter
	150-0786	1	For Sets with Gas Only Carburetor	24	526-0102	1	*Washer, Flat - Large-Spacing (25/64 ID x 1-5/16 OD x 1/32" Thk)
8	870-0188	2	Palnut, Locking (#10-32)	25	526-0016	3	*Washer, Flat - Small-Spacing (17/64 ID x 9/16 OD x 1/32" Thk)
9	134-0584	1	Housing, Air - Cylinder	26	309-0002	1	*Switch, Cut-Off - High Temperature
10	134-0590	1	Housing, Blower Pressure Cooled Sets (Prior to Serial #532241, Also order 192-0294 and 192-0295 Brackets)	27	508-0031	1	*Grommet, Rubber
			Vacu-Flo Sets - Key 5,6,7	28	517-0021	3	Button, Dot - (2) Air Scroll, (1) Timing Hole - Vacu-Flo Sets - Key 5,6,7
	134-0618	1	Sets Without Oil Base Heater	29	870-0131	1	Nut, Lock (#10-32)
	134-0707	1	Sets With Oil Base Heater - Optional	30	870-0053	1	Nut, Hex (#10-32)
11	134-0586	1	Cover, Air - Cylinder	31	821-0008	4	Screw, Cap - Hex Head Locking - Scroll (1/4-20 x 5/16")
12	518-0006	1	Clip, Governor Link to Carburetor	32	812-0150	2	Screw, Machine - Round Head (1/4-20 x 5/8")
13	134-0565	1	Wheel, Blower - Vacu-Flo Set - Key 5,6,7	33	850-0040	2	Washer, Lock (1/4")
14	134-3041	1	Scroll, Vacu-Flo Set (Includes Parts Marked +)	34	134-2956	1	+Guard, Outlet - Scroll
15	134-0816	1	Key 5,6,7 Shutter Assembly, Discharge Air - Optional on Vacu-Flo Cooled Sets - Key 5,6,7 (Includes Parts Marked *)	35	815-0421	4	+Screw, Tapping - Hex Head W/ET (#10-16 x 1/2")

* - Parts Included in 134-0816 Shutter Assembly.
+ - Parts Included in 134-3041 Air Scroll Assembly.

Generator



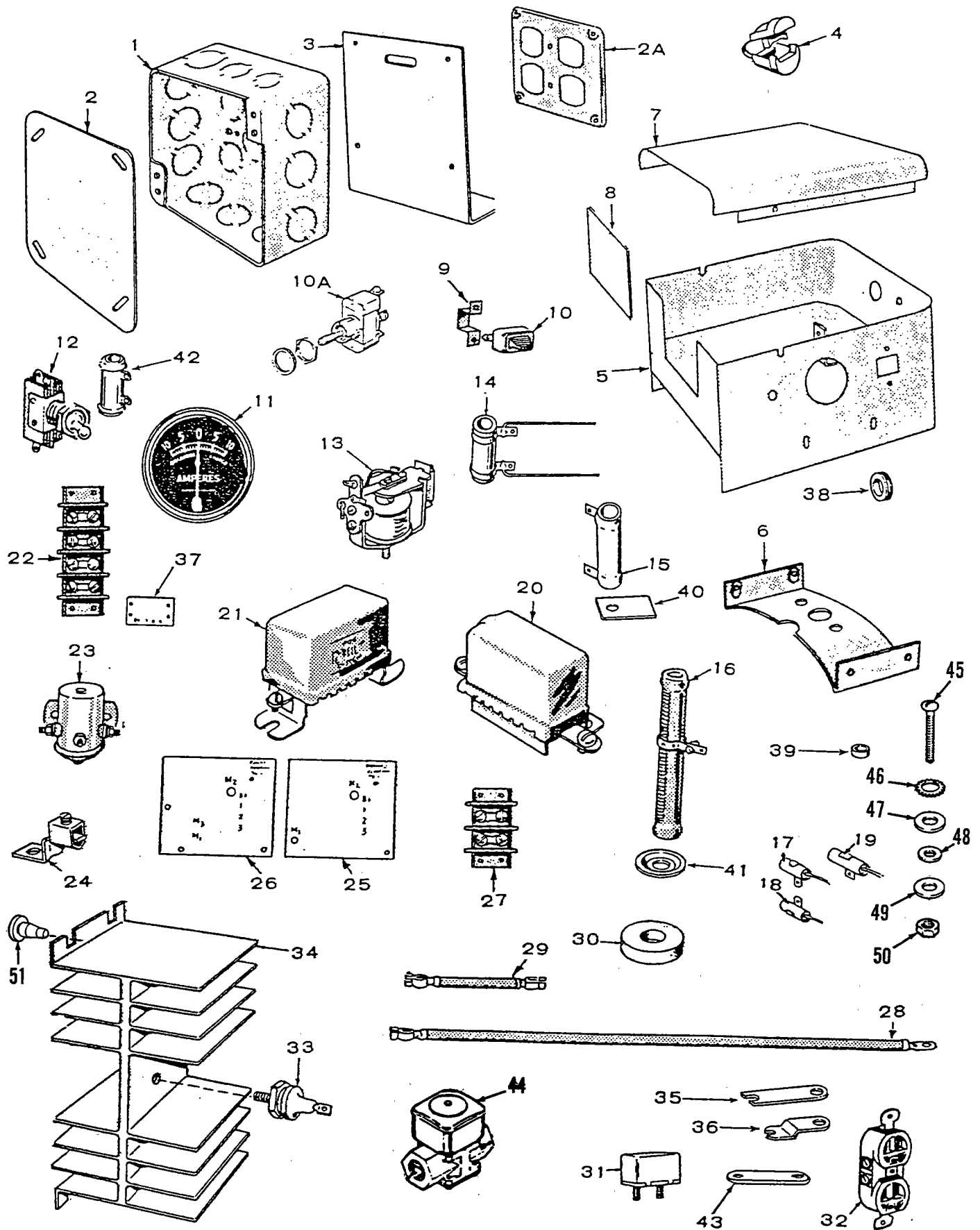
Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Armature Assembly (Includes Parts Marked †)	23	800-0050	4	Screw, Cap - Mounting - Hex Head Adapter (3/8-16 x 1")
	201-1303	1	60 Hertz	24	850-0050	4	Washer, Lock (3/8)
	201-1304	1	Keys 1 & 5	25	212-1214	4	Clamp, Assembly - Brush Rig
	201-1305	1	Keys 2 & 6	26	304-0323	1	Bracket, Mounting - Anti-Flicker Resistor - Spec A and B
			Keys 3 & 7	27	304-0015	2	Washer, Centering - Resistor Mounting - Spec A and B (Begin Spec L, Use 4)
	201-1306	1	50 Hertz	28			Resistor, Anti-Flicker - Spec A and B
	201-1307	1	Keys 1 & 5		304-0042	1	50 Hertz - Key 1,2,5 (Except Utility Models) 6
	201-1308	1	Keys 2 & 6		304-0377	1	60 Hertz - Key 1,2,3,5 (Except Utility Models) 6,7
	201-1308	1	Keys 3 & 7		304-0438	1	Key 5 (Utility Models)
2	205-0053	1	†Blower, Generator	29	203-0009	1	Commutator
3	515-0006	1	Key, Blower to Crankshaft	30			Ring, Collector
4	510-0047	1	†Bearing (Ball), Armature		204-0009	1	Key 1,2,5,6
5	232-0596	1	Clip, Stop - Bearing		204-0010	1	Key 3,7
6			Stud, Armature Through	31	853-0013	2	Washer, Lock - ET - Brush Rig (1/4")
	520-0350	1	Key 1,2,5,6	32			Screw, Machine - Round Head (#10-32 x 3/8")
	520-0527	1	Key 3,7		813-0098	2	End Bell Cover
7	210-0243	1	Frame Only, Generator (Machined and Drilled, Less Coils and Pole Shoes)		813-0098	3	Air Baffle
8	221-0086	4	Shoe, Pole - Field Coils	33	333-0137	1	Kit, Heater - Generator (Includes Parts Marked *)
9			Coil Assembly, Field (Set of 4 Coils)	34	333-0135	1	*Heater, Generator
	222-1638	1	Key 1,2,3	35	333-0136	1	*Cover, Terminals - Heater
	222-1633	1	Key 5,6,7	36	800-0004	4	Screw, Cap - Hex Head Brush Rig Mounting (1/4-20 x 5/8")
10			Rig Assembly, Brush	37	862-0004	1	Nut, Hex (7/16-14) - Armature Stud
	212-0294	1	Key 1,2,5,6	38	850-0055	1	Washer, Lock (7/16")
	212-0295	1	Key 3,7 - Spec A and B	39	526-0032	1	Washer, Flat (29/64 ID x 7/8 OD x 1/16" Thk)
	212-0296	1	Key 3,7 - Begin Spec C	40	862-0015	2	Nut, Hex (5/16-18) - Generator Through Stud
11	231-1006	1	Adapter, Generator to Engine	41	850-0045	2	Washer, Lock (5/16")
12	232-1256	1	Scroll, Baffle - Air	42	809-0043	1	Screw, Round Head (#10 x 3/8" Long) - Heater Cover Mounting
13			Brush, Ring - Collector	43	854-1007	1	*Washer, Lock - W/IT Heater Cover Mounting (#8)
	214-0050	4	Key 1,2,5,6	44	114-0022	8	Screw, Cap - Hex Head (Special)
	214-0032	3	Key 3,7 - Spec A and B	45	515-0122	1	Key, Drive - Armature
	214-0050	3	Key 3,7 - Begin Spec C	46	232-0029	1	Washer, Retaining - Blower (Special)
14			Brush, Commutator	47	518-0014	2	Ring, Retaining - Blower
	214-0061	4	Key 1,2,5,6	48			Washer, Lock (#10)
	214-0030	4	Key 3,7 - Spec A and B		850-0030	2	End Bell Cover
	214-0061	4	Key 3,7 - Begin Spec C		850-0030	3	Air Baffle
15			Spring, Brush		850-0030	2	End Bell Band
	212-1105	8	Key 1,2,5,6	49	815-0110	2	Screw, Machine - Round Head - End Bell Band (10-32 x 7/8")
	212-1105	7	Key 3,7 - Begin Spec C	50	870-0053	2	Nut, Hex - End Bell Band (#10-32)
16			Spring, Brush Key 3,7 - Spec A and B				
	212-1004	3	Collector Ring				
	212-1003	4	Commutator				
17			Condenser (.5 Mfd.) DC				
	312-0017	1	Key 1,2,5,6				
	312-0027	1	Key 3,7				
18			Condenser (.1 Mfd.) AC				
	312-0058	1	Key 1,2,5,6				
	312-0058	2	Key 3,7				
19	211-0099	1	Cover, Bell - End				
20			Band, Bell - End				
	234-0002	1	Key 1,2,5,6				
	234-0005	1	Key 3,7				
21			Bell, End				
	211-0097	1	Key 1,2,5,6				
	211-0098	1	Key 3,7				
22			Stud, Generator Through				
	520-0337	2	Key 1,2,5,6				
	520-0329	2	Key 3,7				

† - Parts Included in Armature Assemblies.

* - Parts Included in 333-0137 Generator Heater Kit.

Control

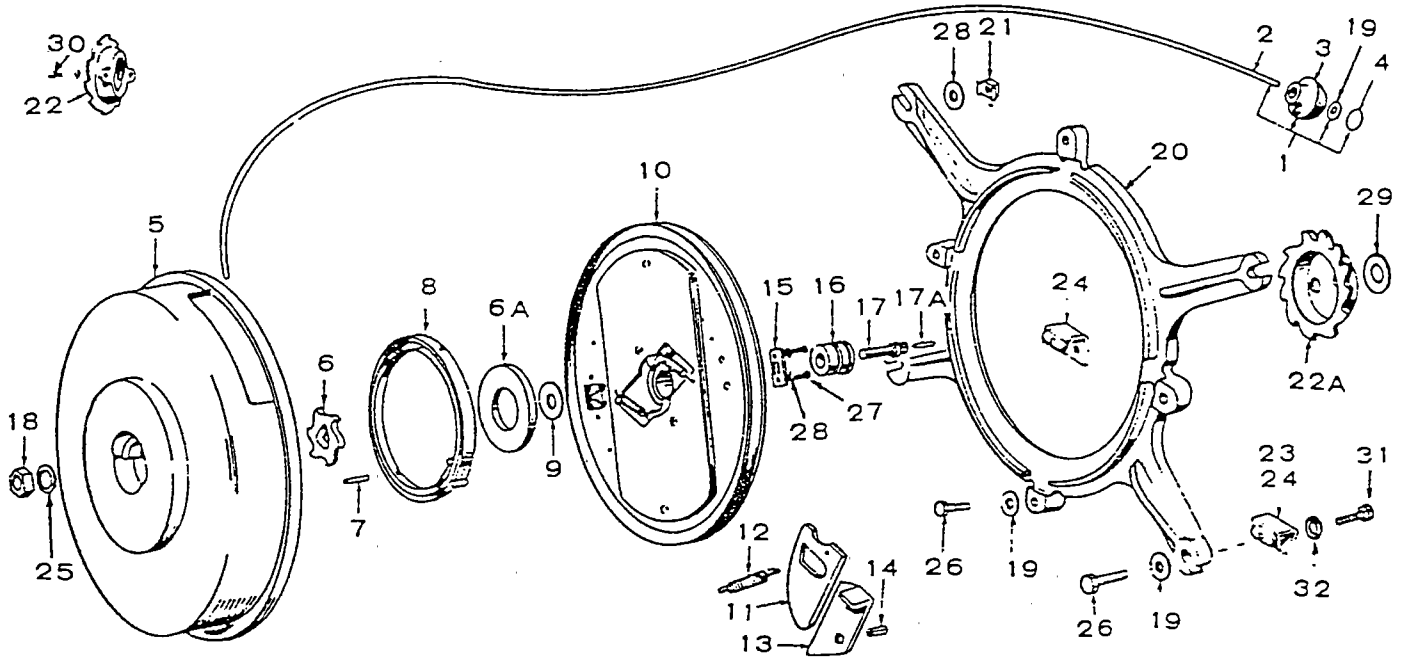


Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	330-0028	1	Box, Receptacle, or Junction - Key 1,2,3	22	332-0537	1	Block, Terminal - Remote Control (4 Terminal) - Key 5,6,7
2	330-0006	1	Cover, Box - Junction - Key 1,2,3 - Spec A and B	23	307-1046	1	Solenoid, Start - Key 5,6,7
2A	330-0042	1	Cover, Box - Receptacle - Key 1,2,3	24	332-0142	1	Terminal, Solderless
3	301-1276	1	Bracket, Mounting - Receptacle or Junction Box - Key 1,2,3	25	332-0540	1	Marker, Terminal - Load - Key 5,6,7
4	508-0098	1	Bushing, Insulator - Junction Box - Key 1,2,3	26	332-0539	1	Marker, Terminal - Load - Key 7
5			Box, Control - Includes Panel and Resistor Bracket	27	332-0231	1	Block, Terminal - Load - Key 5,7
	301-1160	1	Key 5 (Except Utility Models), 6,7	28	416-0077	2	Cable, Battery - Key 1,2,5 (Except Utility Models), 6,7
	301-1630	1	Key 5 (Utility Models) - Spec A through J	29	416-0133	1	Cable, Jumper - Battery - Key 1,2,5,6,7
	301-3432	1	Key 5 (Utility Models) - Begin Spec K	30	110-0300	1	Spacer, Mounting - Junction Box - Key 1,2,3
6	301-1198	1	Bracket, Mounting - Control Box - Key 5,6,7	31	320-0158	1	Breaker, Circuit - Key 5 (Utility Models)
7	301-1244	1	Cover, Box - Control - Key 5,6,7	32			Receptacle, Duplex - Begin Spec C
8	301-1271	1	Plate, End - Key 5,6,7		323-0184	1	2 Parallel Blades, 1 Grounding Pin - Key 1 Use 2
9	301-0974	1	Bracket, Switch - Start-Stop - Key 5,6,7 (Used with #308-0090 Switch Only)		323-0213	1	2 Tandem Blades, 1 Grounding Pin
			Switch, Start-Stop - Key 5,6,7	33	358-0019	1	Rectifier, Diode - Key 5 (Utility Models) - Begin Spec K
10	308-0090	1	Prior to Approximately 2-10-61 (Use #308-0166 to Replace)	34	363-0059	1	Sink, Heat - Rectifier Mounting - Key 5 (Utility Models) Begin Spec K
10A	308-0154	1	Begin Approximately 2-10-61	35	160-0144	2	Jumper, Receptacle - Duplex Key 1, Key 3 Use 1
11			Ammeter, Charge (Includes Hardware Package)	36	332-1695	1	Jumper, Receptacle - Duplex Key 3
	302-1360	1	10-0-10 - Key 5 (Except Utility Models), 6,7	37	332-0566	1	Strip, Marker (Use with 332-0537) Key 5,6,7
	302-1363	1	45-0-45 - Key 5 (Utility Models)	38			Grommet, Rubber
12			Switch, Toggle - Manual, Electric Start		508-0001	1	3/4" Hole, 1-9/32" OD - Key 5,6,7 Use 2
	308-0002	1	Key 5 (Except Utility Models), 6,7		508-0002	1	3/8" Hole, 5/8" OD
	308-0002	1	Key 5 (Utility Models) - Spec A through J		508-0009	1	1" Hole, 1-9/16" OD
13	307-0253	1	Relay, Stop - Key 5,6,7	39	508-0015	2	Washer, Fiber - Key 5,6,7
14	304-0251	1	Resistor, Fixed (30-Ohm, 5 Watt) - Key 5,6,7	40	304-0292	3	Insulator, Resistor - Key 5,6,7
15	304-0344	1	Resistor, Fixed (1-Ohm, 25 Watt) - Key 5 (Except Utility Models), 6,7	41	304-0014	2	Washer, Centering
16	304-0175	1	Resistor, Adjustable (10-Ohm, 50 Watt) - Key 5 (Except Utility Models), 6,7	42	304-0060	1	Resistor - 1.72-Ohm, 25 Watt - Key 5,6,7
17	312-0017	1	Condenser, 0.5 Mfd. - Load Terminal - Key 5	43	332-0592	1	Jumper, Relay - Stop, Key 5,6,7
18	312-0058	1	Condenser, 0.1 Mfd. - Load Terminal - Key 5,6, (1), Key 7 (2)	44	307-0312	1	Valve, Fuel Solenoid (K5) Key 7
19	312-0057	1	Condenser, 1 Mfd. - Start Solenoid - Key 5,6,7		307-0829	1	Coil (Replacement for K5 Fuel Solenoid Valve) Key 7
20	305-0001	1	Regulator, Voltage - Charge Circuit - Key 5 (Except Utility Models), 6,7	45	810-0072	2	*Screw, Machine - Round Head Brass (#8-32 x 3/4")
21			Relay, Current - Reverse	46	853-0005	1	*Washer, Lock - ET (#8)
	307-0180	1	Key 5 (Except Utility Models) 6,7	47	526-0048	2	*Washer, Flat (#8)
	307-0495	1	Key 5 (Utility Models) - Spec A through J	48	508-0016	1	*Washer, Fiber (#10)
	307-0454	1	Relay, Disconnect - Charge Key 5 (Utility Models)	49	508-0015	2	*Washer, Fiber (#8)
				50	871-0007	1	*Nut, Hex (#8-32)
				51	870-0196	4	Nut, Insulating

* - Lead tie hardware for K2, S2 and T1 leads.

Readi-Pull Starter



Readi-Pull Starter

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			#Starter Kit - Includes Mounting Ring and Ratchet Wheel	20	192-0186	1	Ring, Mounting - Starter to Blower Housing
	192-0385	1	Begin Spec B	21	870-0110	2	Nut, Speed (1/4-20) Starter Ring to Blower Housing - Top
	192-0215	1	Spec A Only (NOTE: Also order #192-0294 and 192-0295 Brackets)	22	192-0170	1	Wheel, Ratchet - Spec A Only
				22A	192-0309	1	Wheel, Ratchet - Begin Spec B
1	192-0045	1	Rope and Grip Assembly	23	192-0294	1	Bracket, Mounting - Starter, Right Hand
2	192-0043	1	Rope, Starter, Less Grip, 83" Long	24	192-0295	1	Bracket, Mounting - Starter, Left Hand
3	192-0044	1	Handle, Starter Rope	25	850-0050	1	Washer, Lock - Cover Nut (3/8")
4	517-0025	1	Plug, Grip - Starter Rope	26			Screw, Cap - Hex Head
5	192-0152	1	Cover, Starter		800-0007	4	Starter Ring to Blower Housing (1/4-20 x 1")
6	192-0153	1	Wheel, Cog - Anti-Backlash		815-0137	4	Starter to Mounting Ring (1/4-20 x 5/8")
6A	526-0168	1	Washer, Flat - Spring Retainer (1-15/32 ID x 3 OD x 3/64" Thk)	27	815-0137	2	*Screw, Cap - Hex Head, Rope Clamp Mounting (1/4-20 x 5/8")
7	516-0138	1	Pin, Roll (3/16 x 9/16") - Recoil Spring				
8	192-0039	1	Spring, Recoil	28	526-0015	2	*Washer, Flat - Rope Clamp Mounting (9/32 ID x 9/16 OD x 1/16" Thk)
9	526-0123	1	Washer, Thrust (Flat) (25/64 ID x 1-1/4 OD x 1/16" Thk)	29	526-0014	1	Washer, Flat - Spacer (29/64 ID x 1-1/2 OD x 1/8" Thk)
10	192-0180	1	Sheave Assembly, Rope (Includes Parts Marked *)	30	192-0218	2	Screw, Socket Head - Ratchet Wheel - Spec A Only (Special)
11	192-0172	2	*Pawl	31	800-1004	2	Screw, Hex Head - Starter Bracket Mounting (Special)
12	192-0165	2	*Spring, Pawl	32	850-1040	2	Washer, Lock - Starter Bracket Mounting (1/4")
13	192-0168	2	*Arm, Ratchet				
14	516-0110	4	*Pin, Roll (5/16 x 1/2") (2) Ratchet Arm, (2) Pawl				
15	192-0167	1	*Clamp, Rope				
16	192-0163	1	Bearing, Hub - Sheave (Bronze)				
17	192-0323	1	Capscrew, Socket Head (Special)				
17A	516-0132	1	Pin, Spiral (Brass 1/8" x 5/8") Locating				
18	862-0003	1	Nut, Hex - Bushing to Cover Screw (3/8-16)				
19			Washer, Flat				
	526-0180	4	Starter to Mounting Ring (17/64 ID x 7/8 OD x 1/8" Thk)				
	526-0169	1	Starter Rope Grip (17/64 ID x 7/8 OD x 1/16" Thk)				
	526-0130	2	Starter Ring to Blower Housing - Top (17/64 ID x 1 OD x 1/16" Thk)				
	526-0158	4	Starter Ring to Blower Housing (17/64 ID x 1 OD x 1/8" Thk)				

* - Parts Included in 192-0180 Rope Sheave Assembly.

- NOTE: Starter does not fit Vacu-Flo cooled sets. Starter is optional on remote type sets.

Service Kits and Miscellaneous

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-1100	1	Decal Kit				Paint, Touch Up (13 oz. Pressurized Spray Can)
	168-0065	1	Kit, Gasket - Engine				
	412-0021	1	Cover, Canvas	525-0137	1		Silver Green
	405-2244	1	Housing Package - Optional - Vacu-Flo Sets Only	525-0305	1		Non-Metallic Green

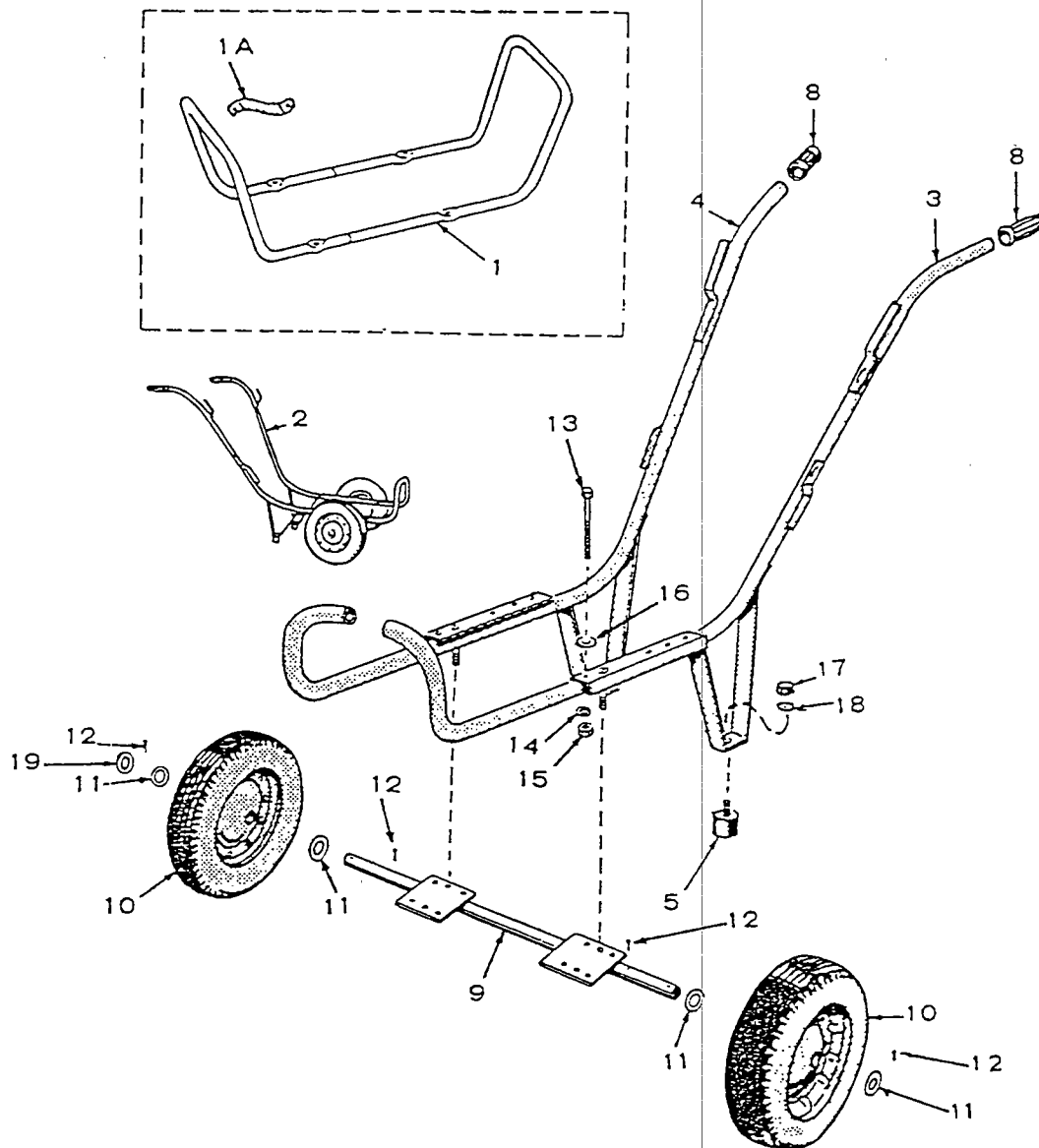
NOTE: For other kits refer to the related group.

Optional Equipment Section

This section contains parts listing of factory installed options.

NOTE: Options may not be applicable to all models; for field installations, additional parts are usually required.

Optional Carrying Frame and Dolly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-0376	1	Frame Kit, Carrying - Includes Frame, Mounting Bolts and Grounding Strap - Excludes Mounting Cushions
1A	337-0036	1	Strap, Grounding to Frame
2	410-0219	1	Dolly, Complete - 2 Wheel
3	410-0216	1	Base and Handle, Dolly - Left Hand
4	410-0216	1	Base and Handle, Dolly - Right Hand
5	402-0040	2	Cushion, Rubber
8	403-0205	2	Grip, Handle - Rubber
9	410-0222	1	Axle, Dolly
10	410-0223	2	Wheel and Tire - 10 x 2.50"
11	526-0112	4	Washer, Flat - Wheel Mounting (11/16 ID x 1-3/8 OD x 7/64" Thk)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	516-0042	4	Pin, Cotter - Wheel Mounting
13	800-0058	4	Screw, Cap - Hex Head (3/8-16 x 3") - Oil Base to Dolly
14	850-0050	8	Washer, Lock (3/8") - Oil Base Mounting
15	860-0017	8	Nut, Hex (3/8-16) - Oil Base Mounting
16	526-0030	4	Washer, Flat - Oil Base Mounting (13/32 ID x 7/8 OD x 1/8" Thk)
17	862-0015	2	Nut, Hex (5/16-18) - Cushion Mounting
18	850-0045	2	Washer, Lock (5/16") - Cushion Mounting
19	526-0123	4	Washer, Flat - Dolly Wheel Mounting (25/64 ID x 1-1/4 OD x 3/64" Thk)

**Optional
Gas and Gas-Gasoline Fuel System
(Not Illustrated)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	148-0336	1	Kit, Conversion - Gas (Includes Garretson Regulator, Carburetor and Associated Parts)		505-0017	1	Bushing, Reducer (3/8 x 1/4) Use with Garretson Regulator
					505-0021	1	Bushing, Reducer (1 x 3/4) Use with Ensign Regulator
	148-0428	1	*Regulator, Gas Pressure - (Ensign Manufacturing - Model "F1")		505-0099	1	Nipple (1/4 x 7/8") - Use with Garretson Regulator
					505-0038	1	Nipple, Half (1/4 x 1-1/2") Use with Garretson Regulator
	148-0300	1	Repair Kit, Gas Regulator - Ensign Model "F"		505-0057	1	Plug, Pipe (1/8)
	148-0522	1	Repair Kit, Gas Regulator - Ensign Model "F1"		502-0055	1	Elbow, 90° - Gas Inlet - Use with Gas-Gasoline Carburetor
	148-0311	1	*Regulator, Gas Pressure - (Garretson Manufacturing)		505-0061	1	Nipple (1/8 x 2") - Gas Inlet - Use with Gas-Gasoline Carburetor
	148-0390	1	Repair Kit, Gas Regulator - Garretson		148-0178	1	Adjusting Assembly, Gas - Use with Gas-Gasoline Carburetor
	501-0025	1	Hose, Regulator to Carburetor (Use with Ensign Regulator)		153-0319	1	Pin Assembly, Choke Lock - Use with Gas-Gasoline Carburetor
	503-0315	1	Hose, Regulator to Carburetor (Use with Garretson Regulator)				
	503-0032	2	Clamp, Hose (Use with Garretson Regulator Only)				
	148-0107	1	Vent, Atmospheric (Use with Garretson Regulator Only)				
	149-0943	1	Line, Fuel - Pump to Carburetor - Use with Gas- Gasoline Carburetor				

* - Manufacturer's name appears on Regulator. Order Parts Accordingly.

**Optional
Oil Base Heater
(Not Illustrated)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	333-0100	1	Heater, Base - Oil	335-0058	1	Cable, Heater Element to	
	309-0029	1	Thermostat, Heater			Thermostat	
	333-0012	1	Box, Mounting - Thermostat	335-0057	1	Cable, Connection - Heater	
	333-0013	1	Cover, Box - Thermostat	508-0005	3	Grommet - For 9/16" Hole	
			Mounting	503-0019	1	Clamp, Guard - Heater Element	
	133-0003	1	Guard, Terminal - Heater	520-0446	2	Stud, Mounting - Thermostat	

**Optional
Reservoir (Fuel) Tank
(Not Illustrated)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	159-0294	1	Tank, Reservoir (Day) - 1 Quart		501-0003	1	Line, Fuel - Flexible (9")
	159-0041	1	Cap, Vent - Reservoir Tank		504-0007	1	Valve, Shutoff - Tank Outlet
	159-0556	1	Band, Mounting - Reservoir Tank		505-0057	1	Plug (1/8), Pipe - Tank Drain
	502-0024	1	Elbow, Male (Compression Type) Tank Vent Line		502-0116	1	Connector (Compression Type) With Nut and Sleeve - For 5/16" OD Vent Line (Top)
	159-0557	1	Support, Mounting - Reservoir Tank		159-0345	1	Tubing, Copper - Vent Line (12 ft. of 5/16" OD)
	415-0055	1	Bracket, Mounting - Vent Cap		502-0043	1	Elbow, Male - Inverted (For 3/8" OD Fuel Return Line)
	501-0005	1	Line, Fuel - Flexible (18-1/2")		502-0020	1	Elbow, Street (1/8" Pipe) - Tank Inlet

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