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Parts Manual

B48M-GA018 Engine

965-0261 12-88 (Spec A) Replaces 6-84 (Spec A) Printed in U.S.A.

MILLER ELECTRIC MFG. CO.

General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

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

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Or	M			
•				
	MODEL AN	D SPEC N	0.	
		3 U		¢
SERIAL	NO.	J.		
- 				

For handy reference, insert "YOUR" nameplate information in the spaces above.

		Index	
	GRID	G	RÍD
			2
Arm. Governor,	<u>A</u> 11		v5⊶ vo
Armature, Starter	B8		88
	A L		이 집에서 가슴을 알았다.
• Baffle, Breather.Valve	A5		ki – 39€–
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Bracket, Governor Control 🔹		에는 사업회가 가장 이 것 같아요. 이	37. 37.
Brush, Ground - Starter	B8 ,	Kit, Tuneup - Ignition B	्रम् -/ः १९७९-अन्द्रभाषिः
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			A5
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		Valve, Intake v	

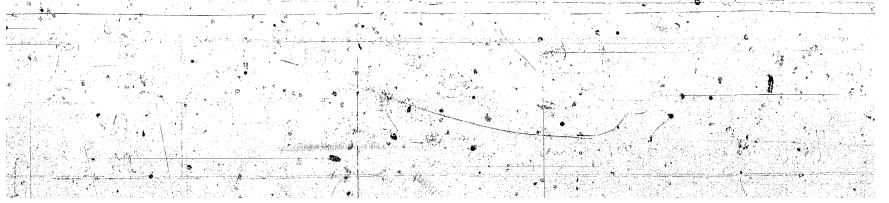
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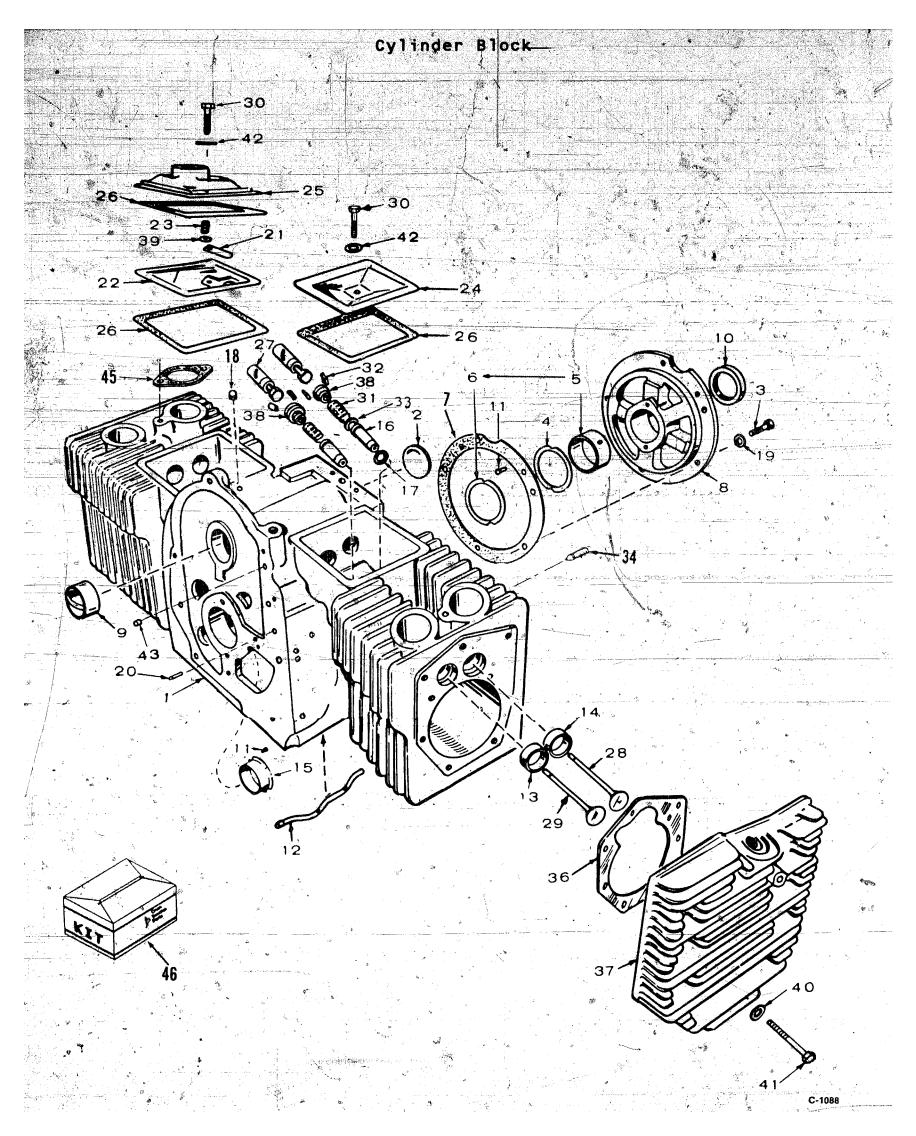
Introduction

This catalog applies to the B48M-GA018 Engines listed below. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts "Illustrations are typical. Using the MODEL and SPEC NO, from the nameplate, select the Parts that apply to your engine. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left sides are determined by facing the clower end (front) of the engine.

Data Table

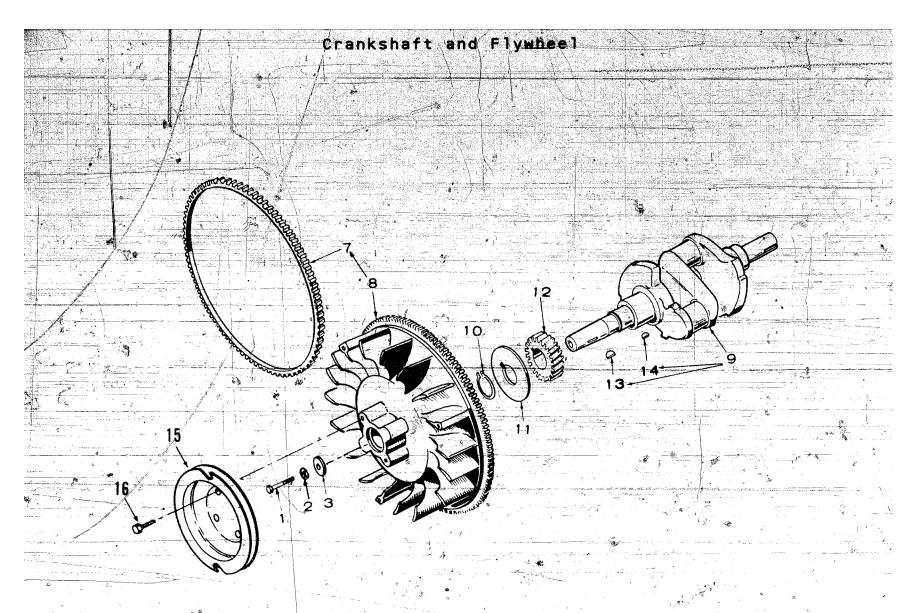
Model an'd 🍾	Features	Key
	2-Speled Governor, Manual Choke	
B48M-GAD18/4107A	Electric Start, Gasoline Fuel	-1
a martin and a survey of the second	3,000 RPM, Battery Ignition	1
	2-Speed Governor, Manual Ghoke,# /	
848M-GA018/4108A	Manual Start, Gasoline Fuel, 5	2
n de la participa de la companya de Enterna de la companya	3,000 RPM, Magneto Ignition	
	2-Speed Governor, Manual Choke	
B48M-GA018/4109A	Electric Start; Gasoline Fuel/	3
	3,600 RPM, Battery Ignition	
A CONTRACTOR OF A CONTRACTOR A	2-Speed Governor, Manual Choke	
B48M-GA018/4381A	// Electhic Start Gasoline Fuel	4
an a	3,000 RPM Battery Ignition	6



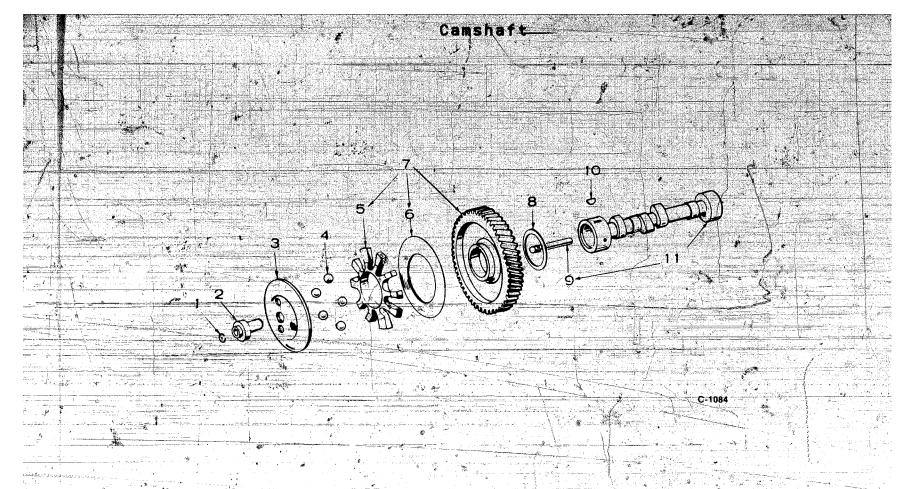


				Cylinde	r B1	ock	**************************************	
	REF NO.	PART NO.		PART DESCRIPTION /	REF NO:	PART NO.	ÓTY USED	PART . DESCRIPTION
	· · · · · · · · · · · · · · · · · · ·	110-3148	1 . *	Block Assembly, Cylinder (All	16		$\frac{1}{2}$, p	*Guide: Valve
- 1		1997 - 1998 - 1997 -	$\int d^{n} d^$. Replacement Cylinder Block —		110-1807	<u> </u>	Exhaust .
	이 지말을			Assemblies Use Intake Valve		110-3161/	2	'Intake
	المطلقين الميدونيين. إيرين	and the second sec	<u> </u>			110-0068-	· 2 ;	*Gasket, Intake Valve Guide _l -
-11-	<u> </u>	and the second second		Marked *) (Engines with		517-0120.		*Plug, Breather Hole
1		and the second	- 7	Standard Bearing Plate)	The second se	850-0050	· •5/	*Washer, Lock - Spring (3/8")
	- . 2 :	517-0048/	\mathbb{F} , \mathbb{F}	*Plug, Welch (1-5/8") Camshaft	-20	516-0141	1 - 2	*Pin, Gear Cover Alignment
			<u></u>	Opening	21	123-1175	1.58 	Reed, Breather Valve
그렇는	3	800-0051	5	*Screw, Cap - Hex Head		123-1173		Baffle, Breather Valve
		104 0777	an ann a san an a	(3/8-16 × 1-1/4")		123-1174		Spring, Breather Valve
이 있는 것 이 같이 하는 것 같이 같이 하는 것	4	104-0776	AS Kęq.	*Shim, Crankshaft End Play		110-1879	· +	Cover, Valve Box - RH - Cover, Valve Box - LH
i i			Commentaria de la competitiva de la competitiv	(005")		'110-2274 110-1921	/ .	- Cover, valve box - Gasket, Valve Cover*
	<u> </u>		an a	Bearing, Crankshaft - Rear	20	11071921	the second second	a Tappet, Valve
		101-0460		(Includes Thrust Washer) *Standard	man Kalifa	115-0006		Standard
- 10 C	÷	101-0450	12-1		지말로	115-0006-	-02 4	
	83	101-0450-		010" Undersize	- 1 - [-	115-0006-		005" Oversize
25 K.	\$	101-0450-		020"_Undersize	28	110-2368		Valve, Intake
	e,	101-0450-		.030" Undersize	29	110-1955		Valve, Exhaust
	-16	104-0575	2000 - 1990 2010 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -	*Washer; Thrust - Special (30	800-0010	2 -2	Screw, Cap - Hex Head
		101-0415		*Gasket, Bearing Plate	$\sim r$		Ality of the description of the	$(1/4-20 \times 1-3/4^{n})$
		-101-0439	2	*Plate, Bearing - Rear	31	110-0539	4	Spring, Valve
うちょ		101-0405		*Bearing, Camshaft	:	110-0639	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lock, Valve Spring
	.10		1	Seal, Oil - Crankshaft Rear	33	509-0168	2	Seal, Valve - Intake
	11	516-0072	0 4	*Pin, Drive - Bearing Stop	34 ,	803-0071	2	Screw, Socket - Set
	12	120-0735	1	*Tube, Oil - Cylinder Block		and the second se		(3/8-16 x 5/8")
	13			Insert, Valve Seat - Exhaust	36	110-0892	2	Gåsket, Cylinder Head
2.3		110-1824	2	*Standard	37			Hearylinder
	в. — —		02 2	002" Oversize	· · · · · · -	110-2564		Right Side
	1910 - P	110-1824-	05 - 1- 2			110-2563		Left Side
2		110-1824-	a particular to the second	.010" Oversize	- 38	110-0904		Roto Cap - Valve
	•	110-1824-		.025" Oversize	39	526-0018		Washer, Flat (1/4" Screw)
	- 👽 14	<u> </u>		- Insert, Valye Seat - Intake		526-0122	-18	Washer, Flat (5/16" Screw)
		110-0197	2	*Standard	41			Screw, Cap - Hex Head (Spec
		110-0197-		.002" Oversize	ery Arris	800-0540		
		110-0197-		.005" Oversize		800-0571		2" Long
s. S	1. A.	110-0197-		.010" Oversize	42	526-0063	2	Washer, Flat - Copper (1/4"
		110-0197-	25 2	.025" Oversize			an an tha an tha	Screw)
	15	C		Bearing, Crankshaft = Front	43	517-0067		Riug, Core Hole
			 	(Elanged)	45	154-1725	2	Gasket Exhaust - Key 1.4
		101-0432	1	*Standard	46	100.0140	netasi ana	Kit, Gasket
	- Aren	101-0432-		- 002" Undersize	e e que di	168-0140		Valve Grind/Carbon Remova
1.1		101-0432-	9	.010"/Undersize	1	168-0153	, ^L	Engine
• .	t d	101-0432-	1. A 10 A	.020 [#] Undersize	· -			
	-	101-0432-	-30 1	.030" Undersize	· •	Den T		n 110-3148 Cylinder Block Asse

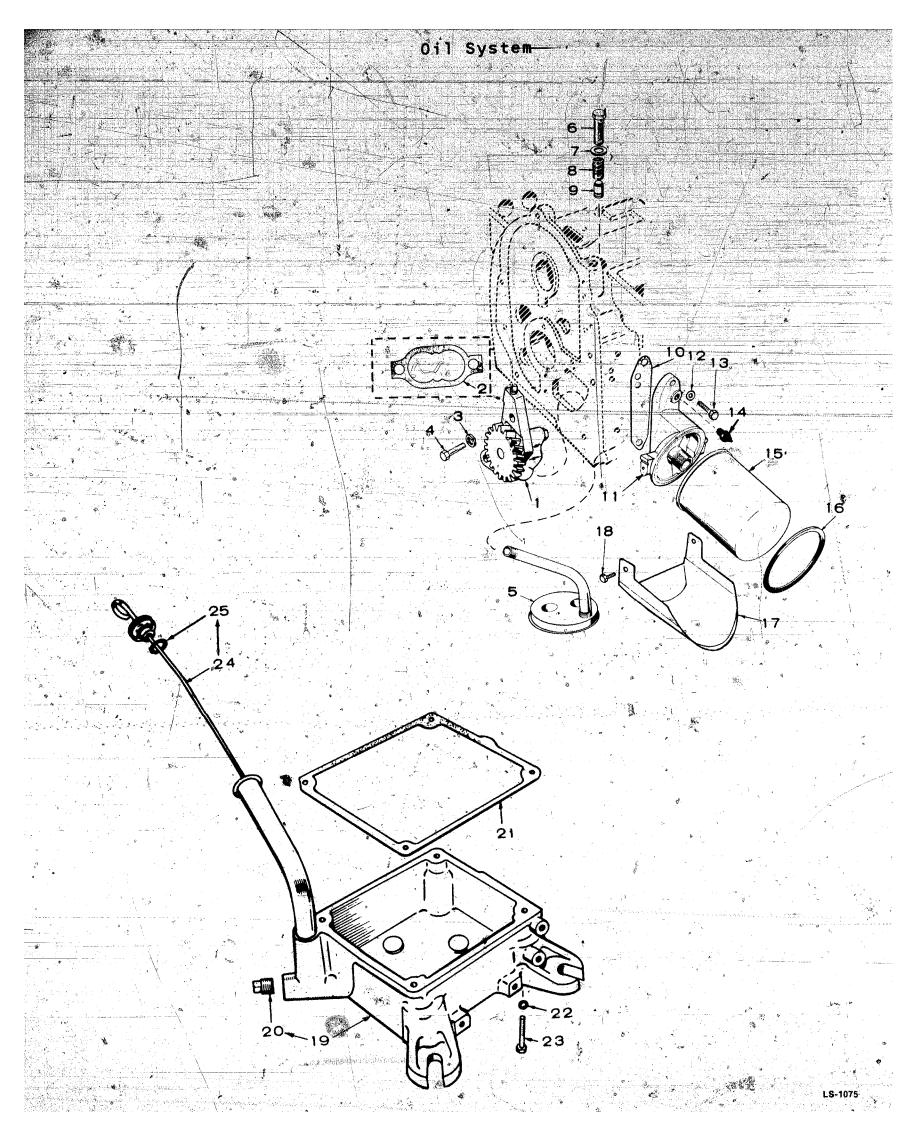
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		an a		· · · · · ·			New Contractory	an an an an an Albert and Albert
•	REF	PART	≥ QTY	PART	 RÉE 	PART	- QTY	PART
	NO.	NO.	ÚSED	DESCRIPTION	NO	NO.	USED	DESCRIPTION
		1		0-5 * 1	· .	18 A. 19 1	4	
-	1	104-0170	1	Screw, Cap - Hex Head -	11	104-0043	1 1	Washer, Gear Retaining -
	<u> </u>	104 0170	*, ▲	Special	· • •	104 0040	1	Special
					• •	101 0000	• • • •	
	2	850-0055	1	Washer, Lock - Spring (7/16") 🍉	12	104-0032	1	Gear, Crankshaft
4	3	526-0017	1	Washer, Flat (7/16" Screw),	13	515-0263	1	*Key, Flywheel
Lique .		104-0779	- 1 -	Gear, Ring	14	515-0001	« -1	*Key, Crankshaft Gear
	8	• • •		Flywheel (Includes Ring Gear)	15	192-0398	. 1	Sheave, Rope - Manual Start
		134-4734	1	Élèctric Start Engines -		3		Engines - Key 2
				Keys 1, 3, 4	16	821-0016	. 4 .	<pre>Screw, Hex Washer Head - Self-</pre>
مەر مەر		160-1307	1	Manual Start Engines - Key 2	÷ ÷		· · · · · · · · · · · · · · · · · · ·	- Lock (5/16-18 x 37/4") Manual
		104-1502	1	Crankshaft (Kit) (Includes			• • •	Start Engines
		•	e .	Parts Marked *)			្តីផ្ស	
	.10,	518-0014	1	Ring, Retaining		•		
• .		P ⁴	2	· · · · · · · · · · · · · · · · · · ·	* .	- Parts Incl	uded in	104-1502 Crankshaft Kit

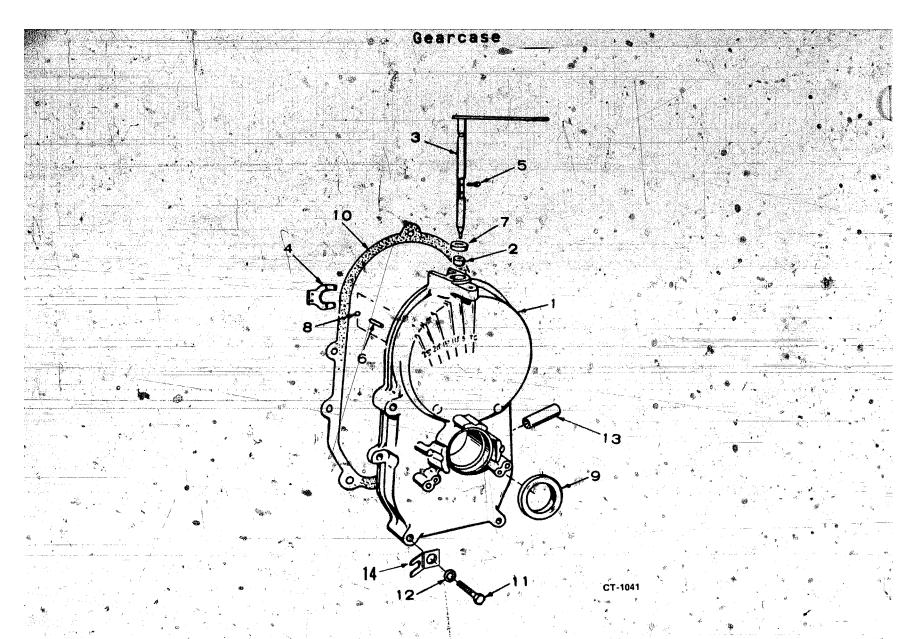


-		REF	PART	OTY	i dat mengenangan sebelah kerekan sebelah kerekan sebelah kerekan sebelah kerekan sebelah kerekan sebelah kerek Sebelah kerekan sebelah kerekan sebelah kerekan sebelah kerekan sebelah kerekan sebelah kerekan sebelah kerekan s	PART	na ann a chuir à chailtean a an	REF	PART	OTY		PART	n in a geológi ng d e <u>de se</u> n Here i sen en se
		NO.	NO.	USED		DESCRIPTION		NO.	NO.	ູ້ ບໍຣED	DI	SCRIPTION	
	5 J		a da ser qu	in the second			and the second sec	All and a second s	and a second	- 1	11. K	ç.	
	i s with States	1	150-0078	11	Ring	Retaining		8	105-0541	1	Washer,	Thrust - S	pecial
		2	150-1519	· · 1		Governor Čup		9	150-0075	1	Pin, Cen		·
ul.		3	150-1520	1	Cup,	Governor	\$	10	515-0001	1	Key, Woo	druff - Ca	mshaft Gea
an ai	ý.	4	· · · · · · · · · · · · · · · · · · ·		Ball	Governor		11	an tan		Camshaft	(Includes	Center P
÷.	1		510-0015	10	300	DO_RPM Engines		and a the second and an an a the second and a s	105-0639	1	Key 3	n generalisen en service en service. Na service en service e	36
•			510-0015	5	360	0 RPM Engines	- Key* 3		105-0637	· 1 ·	Key 1,	2, 4	
		্র 🗍	105-0332	1		Assembly, Cams				i ta ing sa			a a commence a com
•	، بریڈر ک				(Ind	ludes Spacer &	Plate)						
	an thurse	a a shiqal					4.				ng Marina ang Kanalanan. Tang kanalan		



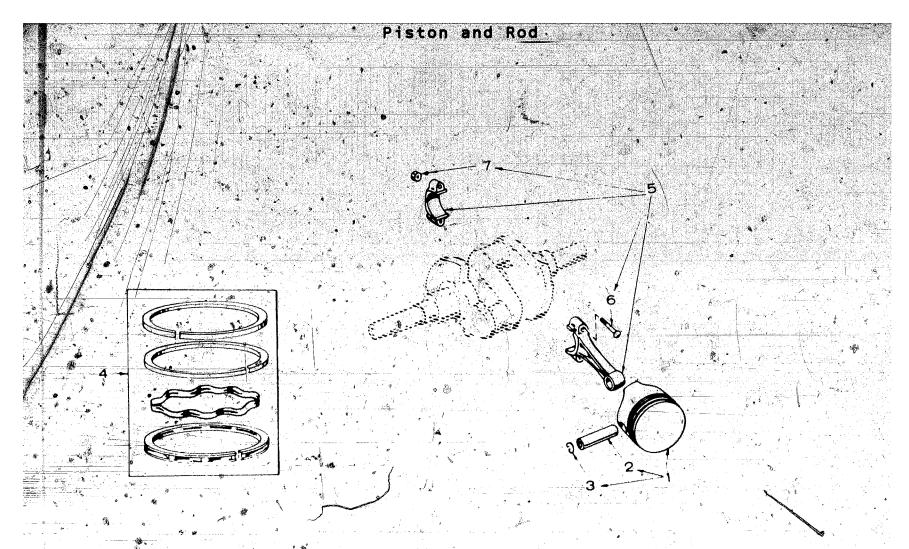
0il System*

	REF	to startly the first Debugsters, and the	OTY/ USED	PART DESCRIPTION	REF	A. 我们们,我们还有些情况的。"他们还是你有能能的情况。		DESCRIPTION
	-1	120-0491		Pump, 011 (Components Not Sold Separately)		800-0028	2	Screw, Cap - Hex Head (5/16-18" x 1")
alian di sana	2	120-0161	\\ \ _}∢	Gasket Kit, Oil Pump	14	505-0057	1 1	Rlug, Pipe
Stran Colo	3	850-00'40	2	Washer, Lock Spring (1/4")	. 15	122-0645	1	Filter, Oil
	4	800-0007	2*	Screw, Cap - Hex Head	- 16	122-0347	1.1	Séal, Air - Filter to Housi
	S. 6. 7 4/2			(1/4+20 × 1")	17,	122-0360	1 17	Drain, Oil Filter
2	· 5.	120-0751	1	Cup, Intake'- Oil Pump	18	816-0194	`2	Screw, Cap - Hex Head w/ET
	6	801-0050	\sim 1 \cdot 1	Screw Cap - Hex Head	a da anti ang	%	میں بین کی ایک ایک ایک ایک ایک ایک 1993ء کی میں ایک	(#10-32 × 3∕8") 📜 – – –
				(3/8€24 × 1") → → → → → → → → → → → → → → → → → → →	19	102-0802	. 1	Base, Oil
	7	526-0066	<u></u> 1	Washer, Flat - Copper	20	505-0056	1 . 1	Plug, Pipe - Oil Drain
1 .			A	(3/8" Screw).	···· 21	102-1200 *	· · · 1	Gasket, Oil Base
	. 8	120-0140	▶ 1	Spring, Bypass Valve	22	850-0050	4	_Washer, Lock = Spring (3/8"
	······ 9.	120-0398	1 1	Rlunger, Bypass Valve	23_	800-0056		Screw, Cap - Hex Head
and the second sec	/ 10	122-0375	. 11	Gasket, Oil Filter Adapter	in the second			(3/8-16 × 2-1/2")
	′ <u>11 </u>	122-0320		Adapter, Oil Filter	24	_123-1660_*	1	Cap and Indicator, Oil Fill
5 6 8	1.2	526-0065	2	Washer, Flat - Copper	25	509-0142	° 1 *	-Gasket, Oil Fill Cap
	· · · · · · · · · · · · · · · · · · ·		و بر منه در از از از منظره شمستان از آسا	+ (5/16" Screw)	10월 4일 전 1			- ("O" Ring)



		REF	PART		QTY	PART REF PART QTY PART	
	5 N	NO.	NO.	- <u>-</u>	USED	DESCRIPTION NO. NO. USED DESCRIPTION	
alar Al		• • •		2	B		
- 18. 11.	14	1	103-0737		1	Gearcase Assembly (Includes 🐵 9 509-0040 / 1 - *Seal, Oil - Grankshaft .	
1.	1 .		819-y			Parts Marked *) 10 103-0408 1 Gasket, Gearcase Mounting	
		2	510-0105			*Bearing, Governor Shaft 11 11 Screw -Cap - Hex Head	
۰	. <u>.</u>	-3_	150-1542		_ 1 🤎	*Shaft and Arm, Governor 800-0032, 4 5/16-18 × 1-3/4"	5
-		. 4	150-1187	• •	1.	*Yoke, Governor Shaft 800-0545 1 [2-3/4" Long (Special)	
	n An an	5	815-0046		2	*Screw, Machine - Pan Head 12 526-0065 5, Washer, Flat - Copper	
	4	e.	6 _ F	,		(#8-32 × 3/8")	
e je		6	516-0130		1	*Pin, Dowel - Governor Cup Stop 13 149-1299 1 *Tube, Vacuum Port	
	/	7	509-0008	n an	1	*Seal, Oil - Governor Shaft 14 167-0188 . 4. Clip. Cable - Manual Start	
· • •		8	*510-0014		1	*Ball Bearing - Governor Shaft Engines - Key 2	
- S -	1.00		S.				

* - Parts Included in 103-0737 Gearcase Assembly

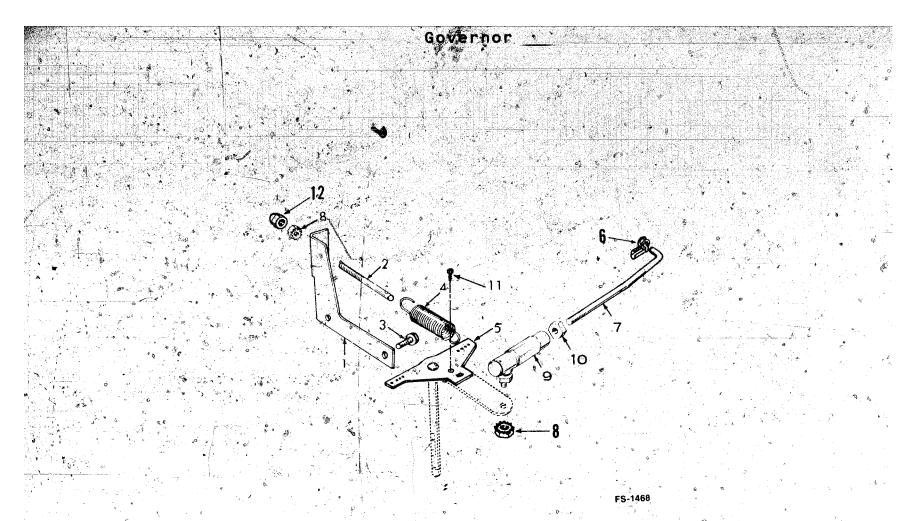


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	REF NO.	PART [*] NO.	QTY USED	PART DESCRIPTION	• • •	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
¥	1	4. 	5	Piston and Pin (Inc	ludes	5	91 [°] . S	•	Rod, Connecting (Includes Bolt and Nut)
1		112-0186	2	Retaining Rings) Standard		ler.	114-0257	2	Standard
		112-0186-05	2	.005" Oversize			114-0257-10	2	.010" Undersize
		112-0186-10	2	.010" Oversize		1 A.	114-0257-20	2	.020" Undersize
÷.		112-0186-20		1.020" Oversize		·	114-0257-30	2 5	.'030" Undersize
	\$	112-0186-30		.030" Oversize		6	114-0240	4	Bolt, Special - Connecting Ro
		112-0186-40	2	.040" Oversize		• 7.	870-0302	4 👘	Nut, Hex'- Crown Lock
£.	ູ່ 2	112-0229	-2	Pin,"Piston					(5/16-24)
	° 3	518-0311	4	Ring, Retaining	٩	ø . X .			
	.4	atar b	-, * -, .	*Ring Set, Piston		t	6 . 0	e e e	34
÷ ,		113-0189	2	Standard		,e	a		
		113-0189-05	2	005" Oversize			2	1 - 11	
a i		113-0189-10							n de la construcción de la constru Nota de la construcción de la const
ets -	•	113-0189-20		.020" Oversize				р., с. 	¢ 6
er i		113-0189-30	°2	.030" Oversize	100 A. 100 A.				v

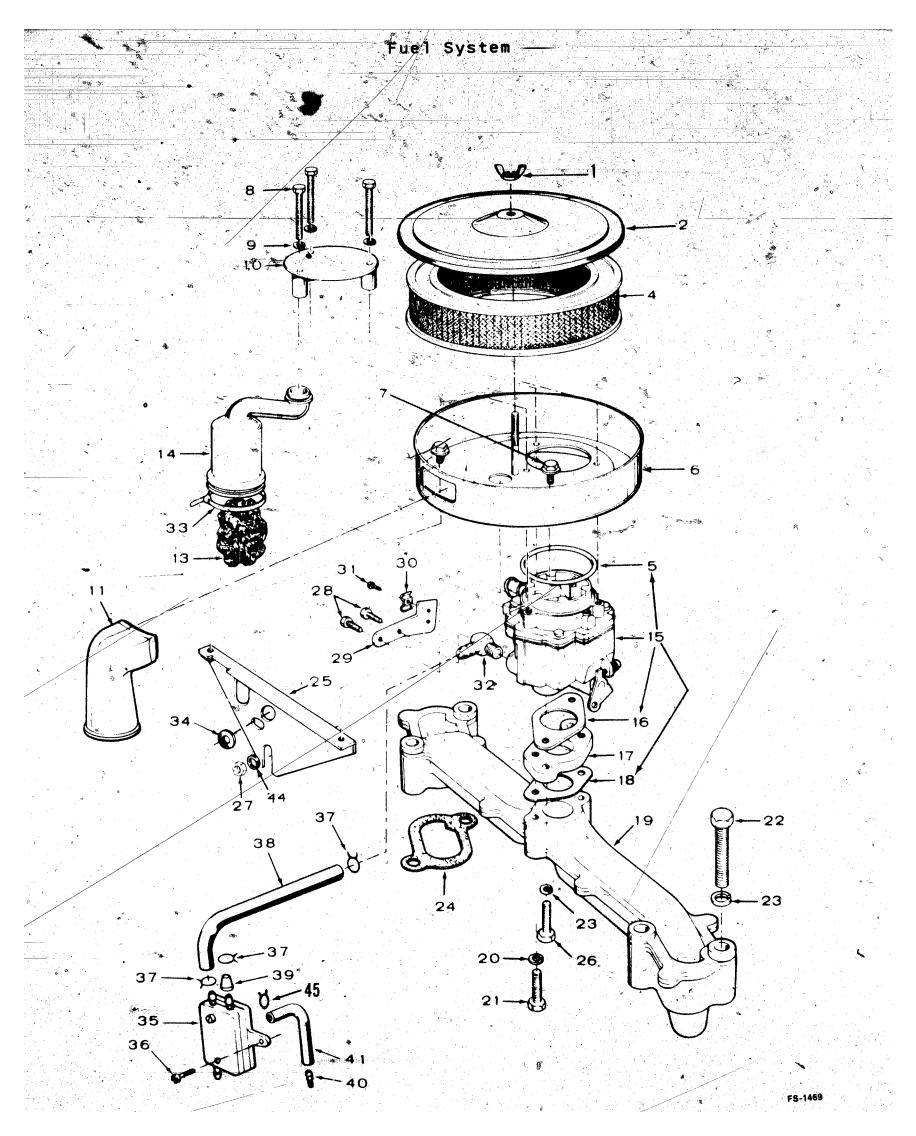
.040" Oversize

113-0189-40

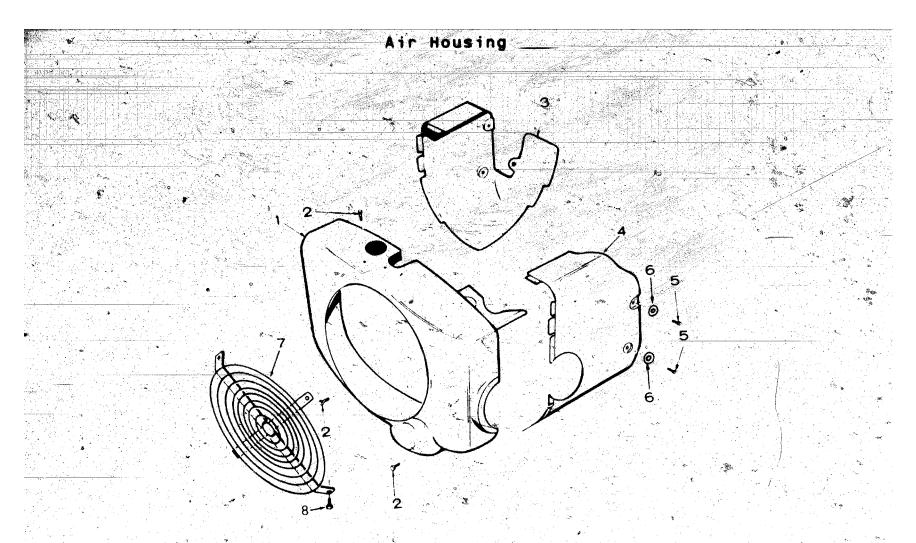


REF NO	PART NO.	, , ,	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	150-1433		1	Bracket, Governor Conti	rol 8	870-0131	2	*Nut, Hex - w/EI Governor
2	150-0694		.1	Stud, Adjusting				Adjusting (10-32)
3	821-0010	ē	2	Screw, Cap - Hex Head I	_ocking9	150-0639	. 1	*Joint, Ball
e a ¹ de la Saga		1		(1/4-20 [°] × 1/2")	10	870-0053	, 1	*Nut,*Hex (3/8")
4		•		Spring, Governor	11	815-0181	1	Screw, Tapping - Hex"Head
	150-1214		1		ey 3	× × ·		w/ET (#10-32 x 1/2")
	150-1740	ę	' 1	3000 RPM Engines - Ke	ey 1,2,4 12	150-0621	1	Nut, Ácorn - Governor
5	150-1734		1	Arm, Governor	- 13	150-0630	1	Linkage, Governor (Includes
6	518-0004		1	Clip, Retaining - Conti	rol Rod	•	1.	Parts Marked *)
7	150-0629		1	*Rod, Control	*.	2		

* - Parts Included in 150-0630 Governor Linkage. 🛸



				Fuel S	<u>xax</u>			
	REF	PART	QTY	PART	REF	PART	QTY	PART
	NO.	NO.	USED	DESCRIPTION	NO.	NO	USED	DESCRIPTION
	1	865-0006	1	Nut, Wing (1/4-20)	25	140-1720	1.	Support, Air Cleaner
	2	140-1652 .	. 1	Cover, Air Cleaner	26	800-0028	2	Screw, Cap - Hex Head
	4	140-1228	1	Element, Air Cleaner (Paper)	이는 아이는 아이가 National Action		同時の	(5/16-18 × 1")
	5.	509-0145	1	Seal, O-Raing	27	870-0048	1	Nut, Hex Washer Head
	/ 76	140-1721	1	Housing, Air Cleaner				(5/16-18")
	$\mathbb{I} \otimes [\mathbb{A}, 7)$	815-0389	2	Screw, Tapping - Hex Washer	28	821-0004	•	Screw, Cap - Hex Washer He
73.77	le en			Head (1/4-20 x 3/8")				(#10-32 × 5/16")
	8	815-0470	3	Screw, Machine - Hex Head	29	153-0515	4	Bracket, Choke Cable
				(#10-32 × 1-1/2")		153-0514	៍រិ	Clip, Choke Cable
	9	526-0234	3	Washer, Flat (#10 Screw)		815-0359	1	Screw, Tapping - Slotted H
	10	145-0521	1	Plate, Air Deflector	가 문문 : 2011년 - 1911년 - 1911년 - 1911년 - 1911년 - 1911년 2011년 - 1911년 - 19			Washer Head (#10-32 × 7/8
	11	140-1495	1	Tube, Air Intake	32	502-0313	े ।	Elbow, Hose
37.2.1	13	123-1417	1	Filter, Breather Tube	33			Tie, Breather Tube
	14	123-1429	1	Tube, Crankcase Breather		503-1138	1-	Keys 1- 4
	15			Carburetor, Gasoline (See		332-1567		Keys 2, 3
				Separate Page for Parts)	34	508-0021	៍	Grommet, Rubber (3/4" Hole
				(Includes Mounting Gasket)	35			Pump, Fuel
		146-0381	1	Fixed Main Jet - Keys 1,2,3		149-2187-01	1	Keys 1, 4
		146-0430		Semi-Automatic Choke - Key 4		149-1982	1	Keys 2, 3 (Includes Fuel
n na statution de la constatution d Constatution de la constatution de l	16	154-0733	1	Gasket, Carburetor to Adapter				Cap and Hose Clamp)
		154-1977	1	Adapter, Carburetor	36	815-0555	2	Screw, Tapping - Pan Head
	18	145-0438	1	Gasket, Adapter to Manifold		0.0		Special
	19	154-2720	1	Manifold, Intake	37	503-0301	3	Clamp, Hose (7/16")
	20	850-0040	2	Washer, Lock - Spring (1/4")	38	503-1279	ĩ	Hose, Fuel
	21	800-0023	2	-Screw, Cap - Hex Head		149-1321	1	Cap Fuel Outlet
				$(1/4-20 \times 1-3/8")$	40	149-1299	1	Tube, Vacuum Port
	22	800-0033	. 4	Screw, Cap - Hex Head	41	503-0707	1	Hose, Fuel Pump Vacuum
				$(5/16-18 \times 2")$	44		*	Washer, Flat (5/16" Screw
en de la	23	850-0045	6	Washer, Lock - Spring (5/16")	45	503-0731	1	Clamp, Wire (1/2")
		154-1744	2	Gasket, Manifold to Block			.	



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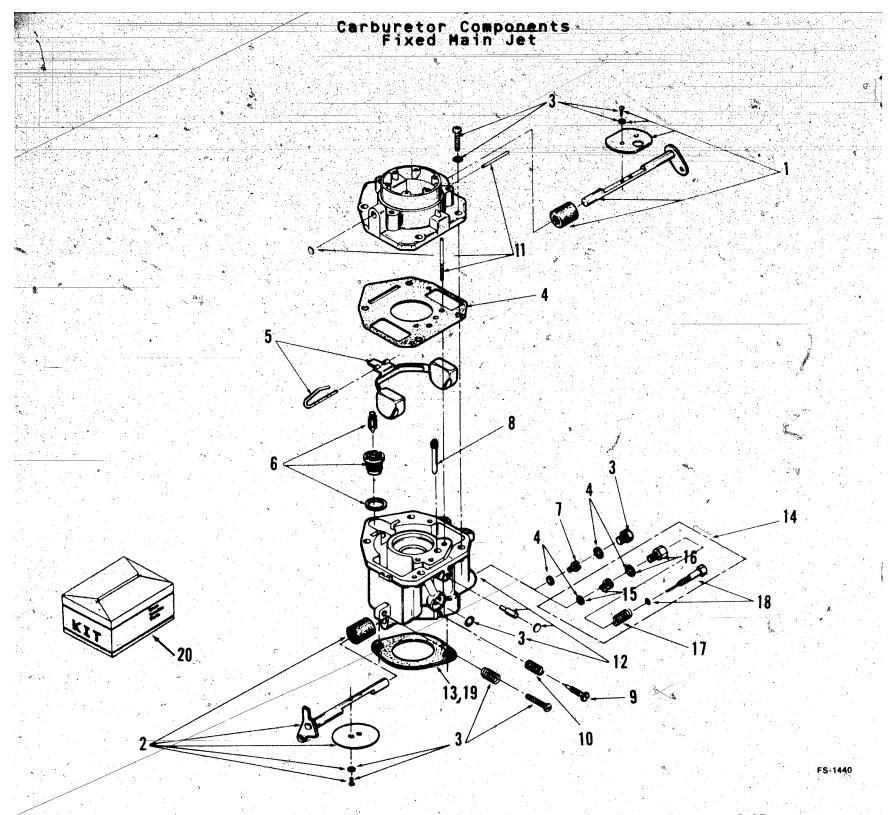
	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.		QTY USED	PART DESCRIPTION
	1	.134-4398	1	Housing, Blower Electric Start Engines	5	815-0290	4	Screw. Cap * Hex**Head (1/4-20 x 5/8")
•				Keys 1, 4	6	526-0021	3 4	Washer, Flat (1/4" Screw)
÷		134-4397	1	Manual Start Engines -	, 7	104 0500	ŝ,	Guard Flywheel
	2	815-0261	3	Keys 2, 3, Screw, Cap - Hex Head 		134-3527	1	Electric Start Engines Keys 1, 4 Manual Start Engines
	3	134-4371	*- 1	Housing, Cylinder Air - Left	0	815-0378	<u>,</u>	Keys 2, 3 Screw, Tapping - Hex Head
	4	الا		Side Housing, Cylinder Air - Right	0	010-0370	**	(#14 x 1/2")
•		134-3523	. 1	Side w/o Baffle - Electric Start Engines - Keys 1, 3, 4				8 8 1
		134-4325	1	w/Baffle - Manual Stärt Engines - Key 2				

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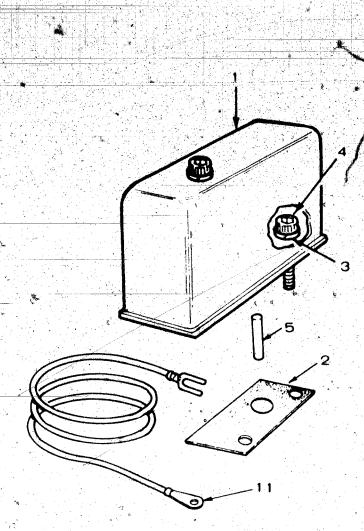
Carburetor Components With Semi-Automatic Choke	
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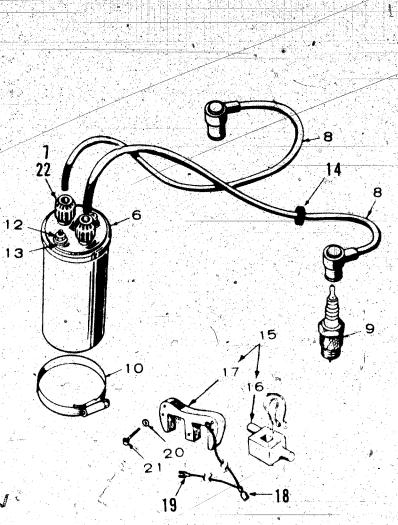
RE		QTY USED	PART DESCRIPTION	REF PART NO. NO.	QTY USED	PART DESCRIPTION
	146-0430	1	Carburetor, Complete	5 146-0432	1 1	Repair (Includes Screw
	140 0430	•	(Includes Mounting Gasket) **			nd Plug Package Gasket
1	146-0438	1	Gasket Package		Pa	ackage, Float Valve, 1dle
2	146-0437	1	Float Package (Includes			djust Needle and Spring.
en de la seconda de la seco La seconda de la seconda de	₽	•	Float, Pin and Valve)	na ser en la ser en La ser en la	1. S.	ounting Gaskets. Tele Lim
• 3	154-0733	2	Gasket, Carburetor Mounting	6 °146-0391		ap) t, Power
. 4	146-0327	- 1	Variable Jet Kit - Optional (High Altitude Application)	7 146-0425		t, Idle
e.			(Angludes Power Jet and	8 146-0433		oke Shaft Kit
<u> </u>			Gasket, Retainer, Power	9 146-0435		oke Lever Kit
		Ł	Needle Spring, Power Needle			
		10	and Power Plug Gasket)		14	
					\$	

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	REF PART	QTYSED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0381		ouretor, Complete (Includes	14	146-0327		ariable Jet Kit - Optional (High Altitude Application)
	1 . 146-0377		unting Gasket) ke Shaft Kit	5,1 1 - 1			(Includes Parts Marked +)
	2 146-0324		ottle Shaft Kit	15	146-0343		ower Jet, Variable
$\frac{1}{2} = \frac{1}{2} \left[\frac{2 \kappa_{1} + \frac{1}{2}}{2} \right]$	3 146-0322 .	1 *Scr	ew and Plug Kit				(Includes Gasket)
	4 146-0326	1 *Gas	ket Kit	16	146-0340		etainer, Power Needle
	5 146-0325		at Kit				(Includes Gasket)
	6 146-0329		ve and Seat Kit		146-0341		pring, Power Needle
	7 146-0347	• 2	, Power	- Televice	146-0342		eedle Complete, Power
	8 146-0337			199	145-0438		asket, Carburetor Mounting
	9 146-0335		dle, Idle Adjusting	- 20	146-0356	A. A. M. M. M. M. A.	it, Repair (Includes Parts
	10 146-0331		ing, Idle Adjusting Needle				Marked *)
	11. *		ake, Air (Not Sold parately)		이 1999년 1월 1993년 1월 1월 1993년 1월 1993년 1월 1월 1993년 1월		
	12	1 Bod	y (Not Sold Separately)				6-0356 Repair Kit
	13 154-0733	1 *Gas	ket, Carburetor Mounting	+ -	Parts Inclu	uded in 14	6-0327 Variable Jet Kit
							CELER AND

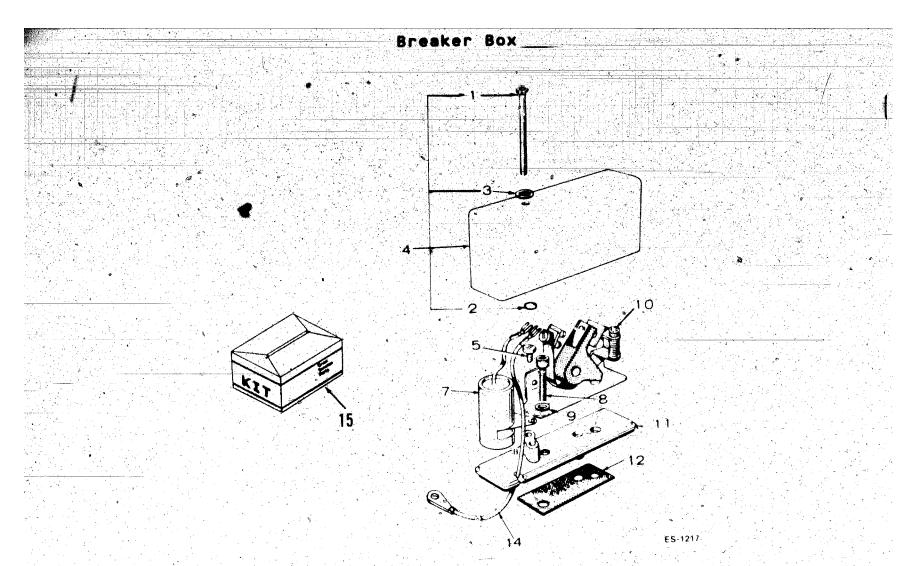




REF PART NO. NO.		PART RIPTION	REF NO	PART NO.	OTY USED	PART DESCRIPTION
1 160-1303	Separate P	y, Breaker (See age for Components)	/15	160-0752	e 1	Magneto Stator Assembly - Key 2 (Includes Parts
		Mounting Gasket)				Marked *)
2 160-1150		aker Box Mounting		160-0750		*Coil, Magneto Stator - Key 2
4 802-0038 4 802-0034	2 Washer, Loc 2 Screw, Sock	k - Spring (1/4") et Head	17	160-0749	1 -	*Shoe, PoleMagneto Stator Key 2
5 160-1151	(1/4-20 ×		18	332-1993	1	Terminal, Receptacle - Magneto Ignition Engines
6 166-0772 7 166-0604	1 Coil, Ignit	ion - Keys 1, 3, 4 erminal (Part of	19	332-0266	1	Terminal, Spade (#6) - 4 Magneto Ignition Engines
	Coil) Cable, Spar		20			Washer, Flat (Magneto Stator Assembly Mounting)
167-1602		gnition - Key 2		526-0015	2	1/4" Screw
167-1615-02		tion, 12" Long -		526-0184	2	17/64" ID x 5/8" OD x 10 Gauge Thk
167-1615-03		tion - 15" Long -	21	815-0259	• 2 .	Screw, Cap - Hex Head - Tapping (1/4-20 x 1-1/4) -
9 167-0298	2 Plug; Spark			4		Magneto Ignition Engines
10 503-0311	1 Clamp, Coil	🗁 Keys 1, 3, 4	22	166-0614	2	Bushing, Rubber (Inside of Cap 166-0604)
11 336-2378 12 166-0554 13 850-2005	2 Nut; Hex (S	er Box to Coil special)- k - Spring (Special))			
13 830 2003 14 508-0095	2 Grommet; Ru	ibber - Magnéto Ingines - Key 2	* +	Included	in 160-0'	752 Magneto Stator Assembly

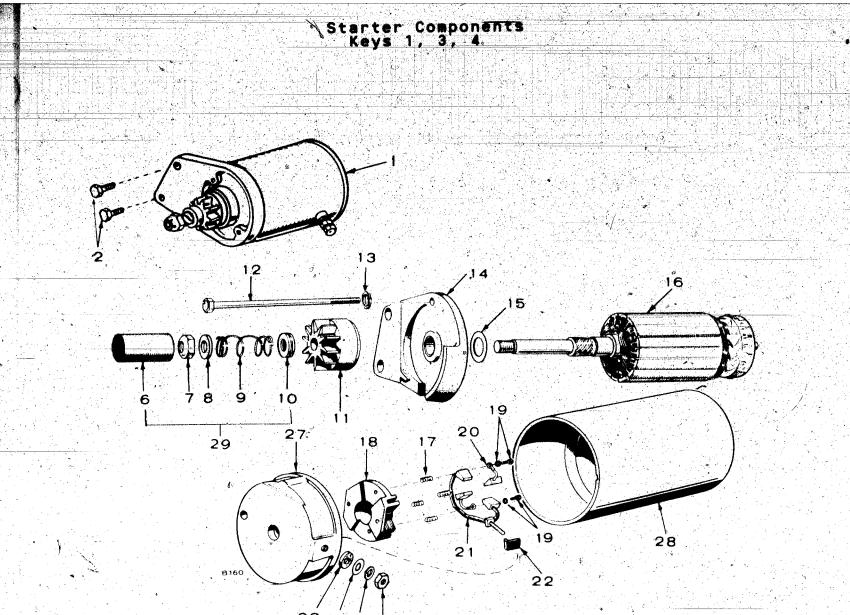
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 Ignition System

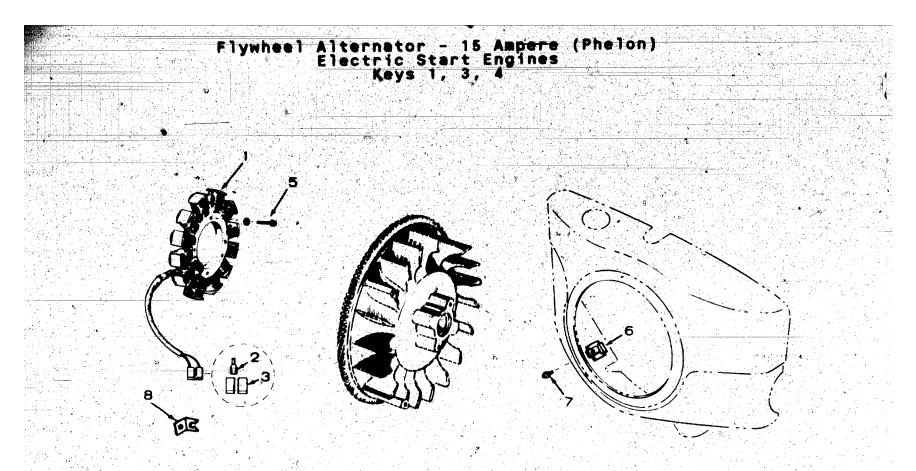


-	EF D.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	1	160-1303	1	Breaker Box (Includes Parts Marked *)	1997 - E.	802-0034	2	*Cap Screw (1/4-20 × 3/4) Socket Head
	1 8	902-0022		*Screw, Cap - Hex Socket (#10-24,x 1-1/2")	10	850-0040 160-1183		*Lock Washer (1/4") *Point Set, Breaker
		509-0065 526-0008		*Retainer ("O" Ring) *Flat Washer (13/64" ID x	12	160-1219 160-1150	1 1	*Base, Breaker *Gasket, Breaker Box
	4.	160-1285		7/16" OD x 1/32" Thk) *Cover, Breaker Box		336-2378 160-1311	1 1	Lead, Breaker Box to Coli Tune Up Kit (Includes Points and Condenser)
a	- -	815-0358	1	*Cap Screw (#8-32 × 5/16") Slotted				and Condenser)
	7 :	312-0246	1	*Condenser	4	Dames Inclu	مامما فأم	160-1203 Breaker Box

- Parts Included in 160-1303 Breaker Box



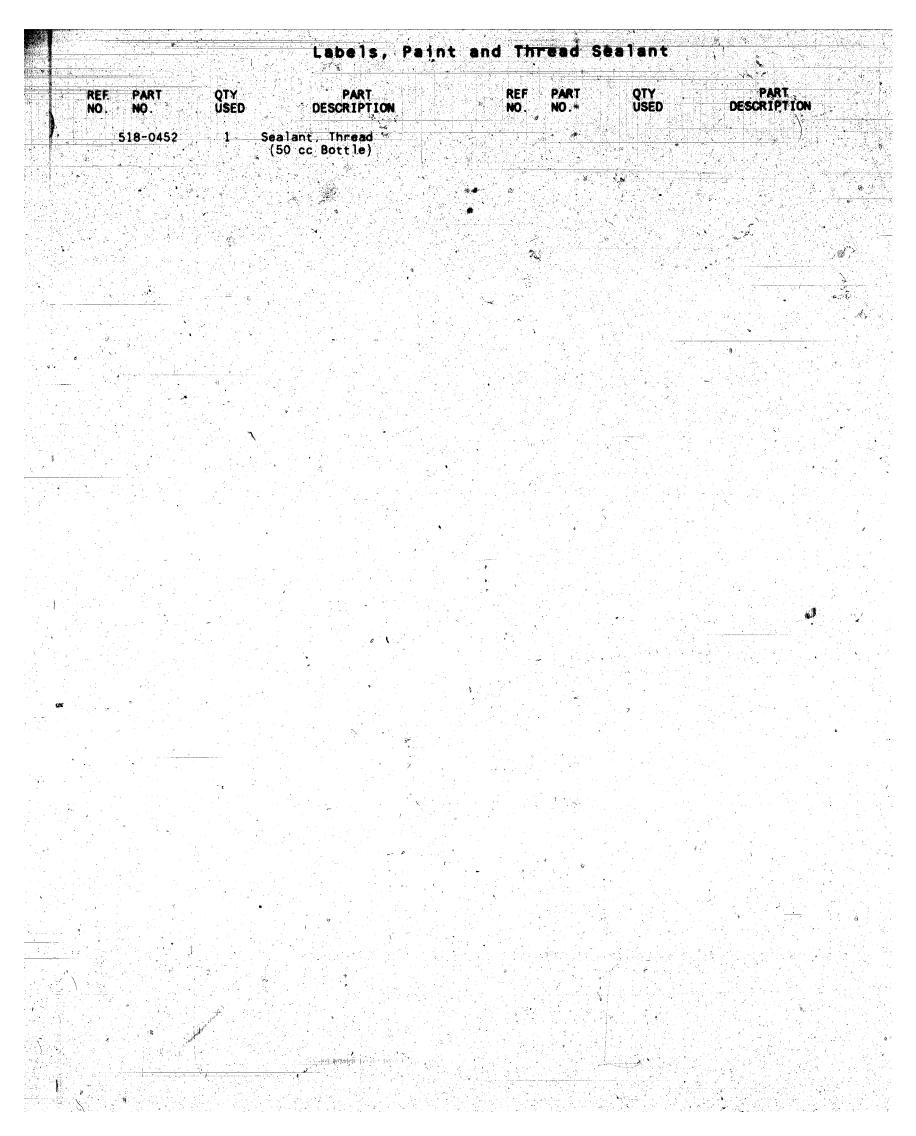
	-PART NO.	QTY USED	PART DESCRIPTION	REF NO	PART NO.	QTY USED	PART DESCRIPTION
	191-0933	1	Motor, Starter (Complete)	22	§	2	†Bushing, Insulation - Input Stud
2	815-0570		Screw, Cap - Hex Washer Heac - Special	23	ş	1	tWasher, Insulation - Input
6	Ş	1	#Cover, Dust #Nut, Stop	24	6	1	Stud Washer, Flat - Input Stud
8	Ś	1	#Washer, Stop Nut	25	Ş	1	tWasher, Lock - Input Stud tNut, Securing - Input Stud
9 10	Ş	1	#Spring, Anti-drift #Spacer: Dust Cover	26 , 27	9 191-1040	1	Cap Assembly, Commutator
11	191-1036	. <u>1</u>	Drive Assembly Screw, Hex Cap - Special	28	\$	1	(Includes Parts Marked †) Housing, Starter Motor
12 13	• 1.1	2	Washer, Lock (1/4")	20	191-1041	Î,	Repair Kit; Brush; Spring and Stud (Includes Parts Marked *
14 15	191-1037 191-1038	1 1	Cap Assembly, Drive End Washer, Armature Thrust	29	191-1359	1	Dust Cover Assembly (Includes
16	191-1039	Î.	Armature				Parts Marked #)
17 18		4 1	t*Spring, Brush †Brush Holder				
19 20	ş	1.1	tScrew and Lockwasher t*Brush, Ground	+ + * -	Included Included	in the 1 in the 1	91-1040 Cap Assembly 91-1041 Brush, Spring and Stud
20 21			t*Stud and Brush Assembly, In	out	Kit. Not Sold		
				, * -	Included	in the 1	91-1359 Dust Cover Assembly



	PART NO.	QTY USED	PART DESCRIPTION
1	191-1256	1	Stator (Includes Terminals and Connector Bodies)
2	332-2423		Terminal Stator Leads
3	323-1257	2	Body Kit, Terminal Connector (Includes Parts Marked +)
5	815-0593	3	Screw, Machine - Hex Head - Self-Lock (#10-32 × 1-3/8")

REF NO	PART NO.	QTY USED	DESCRIPTION					
6	191-1748	1	Regulator, Voltage	•				
7	821-0010		Screw, Cap - Hex Head (1/4-20 x 1/2")	Locking				
8	167-0188	1	Clip, Cable	9 9				

- Parts Included in 323-1257 Alternator Terminal Connector Body Kit



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