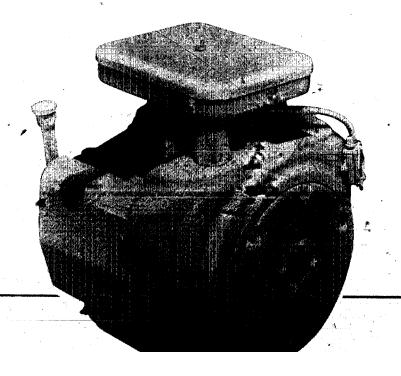
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Chan

Parts Manual

B43E-GA016 Engine

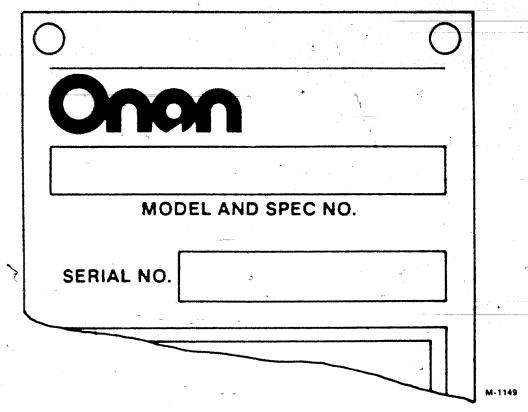


For parts or service, contact the dealer from whom you purchased this equipment or refer to your Neare

Authorized Onan Parts and Service Center.

General Information

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



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

AWARNING

TAKE ALL NECESSARY PRECAUTIONS WHEN CHECKING OR CHANGING ENGINE OIL NOT TO INGEST, BREATHE THE FUMES OR CONTACT THE OIL. USED ENGINE OILS HAVE BEEN IDENTIFIED BY FEDERAL AND SOME STATE AGENCIIES AS CAUSING CANCER.

AWARNING

TAKE ALL NECESSARY PRECAUTIONS WHEN HANDLING ENINGE GASKETS. DO NOT INGEST, BREATHE, OR CONTACT DUST FROM GASKETS. USE ADEQUATE VENTILATION AND WEAR PROTECTIVE GLOVES, MASK AND CLOTHING. ASBESTOS HAS BEEN IDENTIFIED BY FEDERAL AND SOME STATE AGENCIES AS CAUSING CANCER.

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		Housing Air Cleaner B1
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8000 011 -	A13	Housing Starter . 89
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5 lywhêre 1	A10	Switch, Pressure = 0.11 C6,C11
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· · · · · · · · · · · · · · · · · · ·		

Introduction

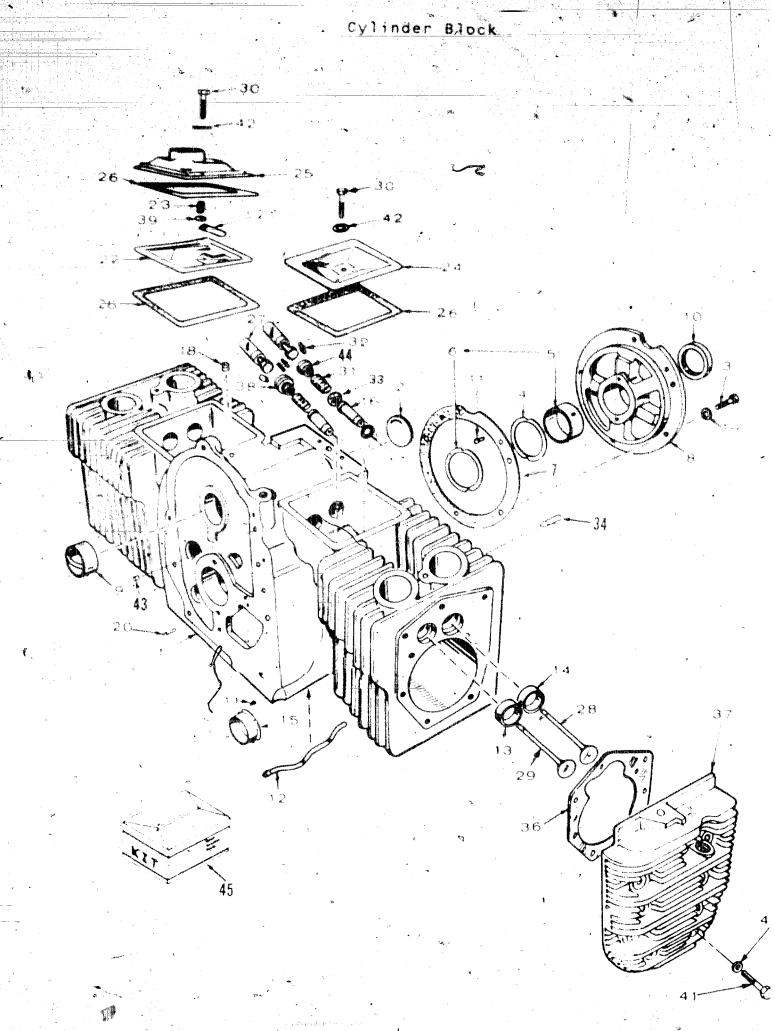
This catalog applies to the standard B43E-GA016 Engines. Parts are arranged in goof related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Partillustrations are typical. Using the Model and Spec No. from the nameplate, seld Parts that apply to your engine. Unless otherwise mentioned in the description, are interchangeable between models. Right and left sides are determined by facing blower end (front) of the engine.

This engine is not designed or intended for use in any type of aircraft.

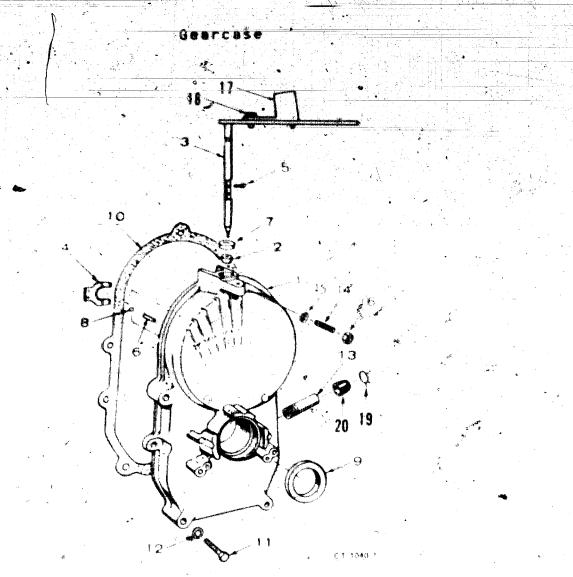
Use of this engine in aircraft may result in engine failure and cause serious bodily injury, death and/or property damage.

NOTICE!

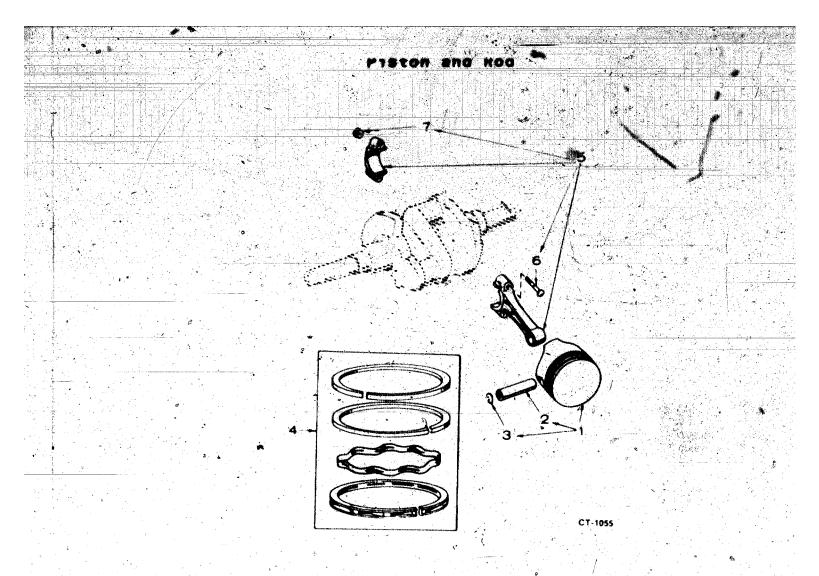
Items referenced as Optional Indicate part is factory installed and not be applicable to all models. For field conversions additional are usually required.



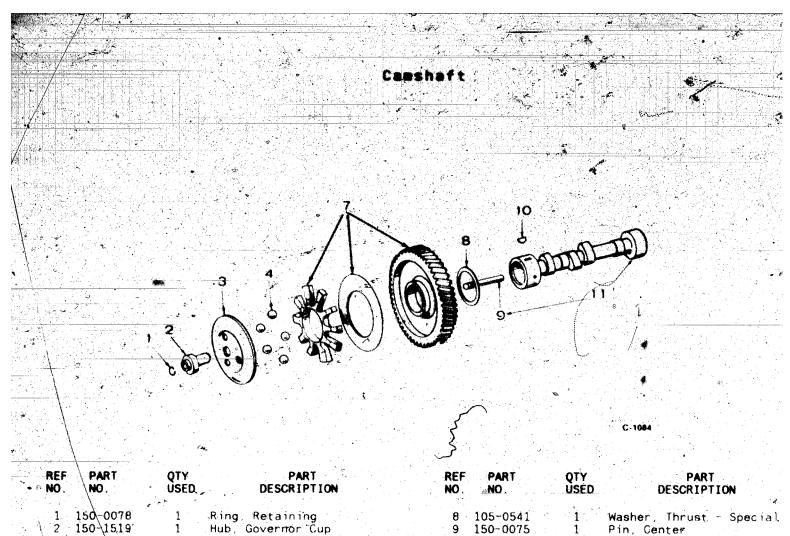
			Cylind Cylind	rc B	OCK		
> REF	PART	QTY USED	DESCRIPTION	REF	PART	USED	
				₩.			
			Block Assembly, Cylinder		110-0068	2	"Gasket, Intake Valve Gui
			(All Replacement Cylinder Block Assemblies Use Intake	18 19	517-0120 850-0050	1	*Plug. Breather Hole *Mesher. Lock - Spring (3
			Valve Seals and Include		516-0141	2	*Pin, Gear Cover Alignmen
	110 2145		Parts Marked *)		123-1175	411	Reed, Breather Valve
	110-3148		Engines with Standard Rear Bearing Plate	22 23	123-1173		Baffle, Breather Valve Spring, Breather Valve
	110-9151	1	Engines with 4 Boss Bearing	24	110-1879	1	Cover Valve - RH
			Plate		110-2274	- T	Cover. Valve - LH
	110-3154		Engines with SAE A or SAE B Rear Bearing Plate (Does	26 27	110-1921	3	Gasket Valve Cover
- <u> </u>			NOT Include Rear Bearing		115-0006	4	Standard
		1.0	Plate)		115-0006-	A CONTRACTOR OF THE PARTY OF TH	002" Oversize
	517 0048	1.1	*Plug / Weich (1-5/8")	20	115-0006-	05 4	005" Oversize
3	800-0051	5	Camshaft Opening. *Screw Cap - Hex Head		110-2368 110-1955	5	Valve Intake Valve Exhaust
	<u> </u>	<u> </u>	(3/8-16 × 1-1/4")	30	3 1 2 2 3 3 3 1 3 5 1 3 5 1 1 1 1 1 1 1 1 1 1 1		Screw Cap Hex Head
	.104-0776	AR	*Shim Crankshaft End Play		فتسميد يووو		(1/4-20 x 1-3+4*)
S. S.		÷.,.	(005*) k. Bearing, Crankshaft - Rear		110-0539 110-0639	, 4 · · ·	Spring Valve Lock Valve Spring
			(Includes Thrust Washer)	33	509-0168	. ?	Seal Valve - Intake
in the second se	101-0450	4	*Standard				(Optional)
	101-0450-02	1	002" Undersize	34	803-0071	2	*Screws Set (3/8-16 x 1/2
	101-0450-20	A 1	020 Undersize	36	110-2287	2	Gasket, Cylinder Head Standard
- 1	101-0450-30		030™ Undersize	•	110-3181	.,2	Optional (Graphoil)
6	104-0575	1	*Washer Thrust	3.7			Head Gylinder
8	101 0415	•	*Gasket, Bearing Plate Plate Bearing - Rear	9	110-3214 110-3213	1	Right Side '
5	101-0439	1	*Standard	38	110-0904	4	*Roto Cap : Valve
1	101-0551	1 .	*Optional - 4 Boss		-526-0018	1	Washer, Flat (1/4" Screw
I.	101-0430 101-0437	1	> Optional - SAE B Optional - SAE A	. 40 41	526-0122	18	Washer, Flat (5/16" Scre Screw, Cap - Hex Head
9	101-0405	2	*Bearing, Camshaft	41	•	. *	(Special)
10	509 [£] 0041	1	*Seal: Oil = Crankshaft Rear		800-0540	8	5/16-18 x 1-5/8"
11 12	516-0072 120-0735	. 4	*Pin, Drive - Bearing Stop	4.0	800-0571	10	?" tong
13	120-0135	4 -	*Tube: Oil'- Cyli nder Block Insert: Valve Seat - Exhaust	42	526-0063	2	Washer, Flat - Copper (1/4" Screw)
*	110-1824	2	*Standard	43	517-9067	1	Plug, Core Hole
2.]	110-1824-02	2	002" Oversiže	44	110-0893	2	Washer, Intake Valve
	110-1824-05 110-1824 10	2	.005" Oversize 010" Oversize	45		•	Spring Retainer - Optic Kit, Gasket
at	110-1824-25	2	025" Oversize	40	168-0140		Gasket Kit, Valve Grin
14	. `4	_	Insert, Valve Seat - Intake		!		Carbon Removal (Stanc
	_110-0197 	2	*Standard - 002" Oversize		168-0183	4	Head Gaskets)
	110-0197-05	2 .	005" Oversize		100.0103	ı	- Gasket Kit," Valve Grir Carbon Removal (Graph
	110-0197-10	2	010" Oversize			. * .	Head Gaskets)
1.0	110-0197-25	2	025" Oversize		168-0153	1 .	Gasket Kit, Complete
15			Bearing, Crankshaft - Front (Flanged)	†	168-0182	1	(Standard Head Gasket Gasket Kit, Complete
	101-0432	1	*Standard	1		•	(Graphoil Head Gasket
	101-0432-02	1	.002" Undersize			* /	
	101-0432-10 101-0432-20	1	010" Undersize 020" Undersize	*	Parts Inc	Auded in	the Cylinder Block Assemb
	101-0432-30	i	.030" Undersize	** 1	an Co Arry	111	The system of the state of the
16			Guide, Valve	j			• • • • • • • • • • • • • • • • • • •
			Engines w/o Intake Valve		3		
	110-1807	2	Intake	}	•		
· · · · · · · · · · · · · · · · · · ·	110-1807	2	Exhaust	1.			
See			Engines with Intake Valve	ļ		4	
	110-1807	2	Seals *Exhaust				
•	110-3161	2	*Intake		· ·		克拉耳克 化氯苯基基基 医二



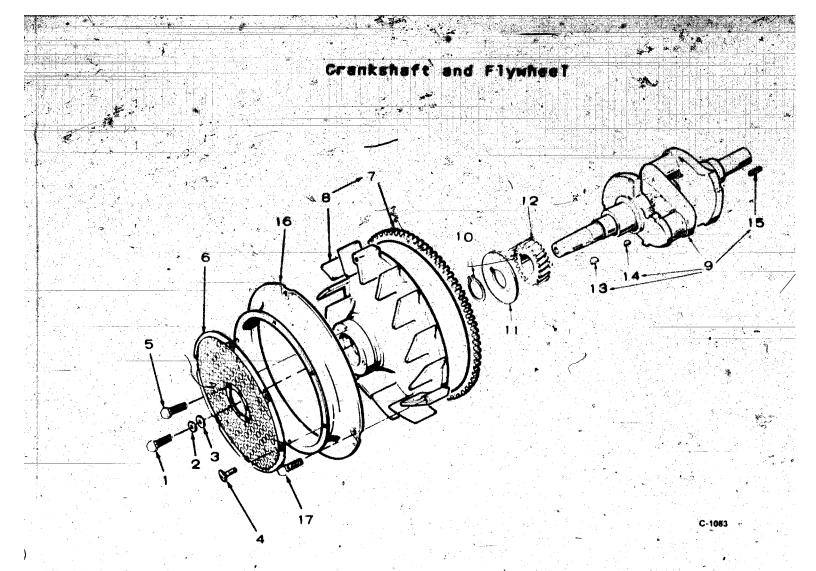
REF NO	PART NO	QTY USED	PART DESCRIPTION	REF NO		QTY U S ED	
* -	103-0738	. 1	Gearcase Assembly (* 11) (Includes Parts Marked *:	12	526-0065	*5	. Washer . Flaff Copper (5/16" Sörew)
	510-0105	1	*Bearing Governor Shaft	13	149-1299	1	*Tube Yacuum Pon*
	150-1470-	1	*Shaft and Arm Governor	14	520-0933	-1	Stud Gear Cover
4	150-1187	ĺ	*Yoke Governor Shaft	15	5 26 -0065	1	"Washer, Flat - Gear Cover
5	815-0046	?	*Screw: Machine Pan Head				(5/16" Screw)
			(#8-32 x 3/8))	16	862 -0015	*	Nut. Hex (5/16-18)
. 6	516-0130	1	*Rin Dowel - Governor Cup Stop	7	150-2090	, 1 , 1	Bracket: Dashpot - Govern Arm - Begin Spec B
7	509-0008	;	*Seal Oil - Governor Shaft	18	815-0194	2	Screw. Hex Head - W/ET
8	510-0014	1	*Ball, Bearing - Governor Shaft	,	r q		$(10-32 \times 3/8")$
9	509-0040	1	*Seal, Oil - Crankshaft	1.9	503-0301	1	*Člamp. Vacuum Port Cap
10	103-0408	1	Gasket: Gearcase Mounting	-20	-149-1321 =	1.	*Cap: Vacuum Porti
1.1			Screw Cap - Hex Head				•
	800-0032	4	5/16-18 × 1-3/4"				
	800-0545	1	5/16-18 x 3-3/4" (Special)	196	Parts Inclu	ded in	103-0738 Gearcase Assembly



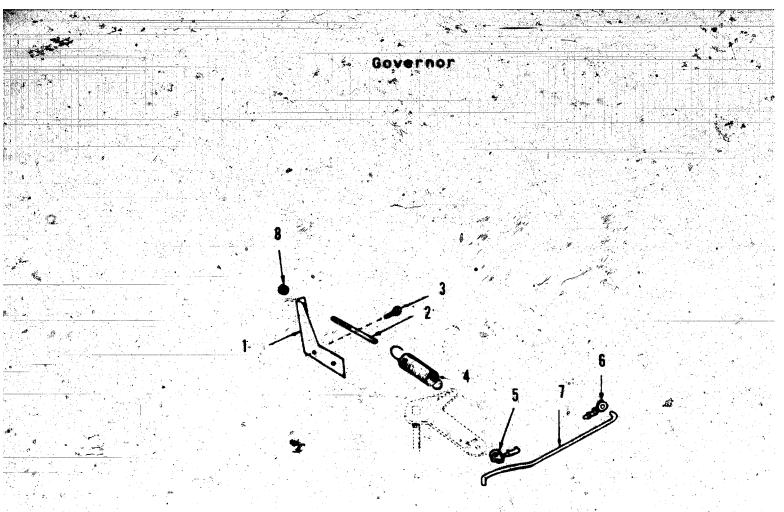
REF NO.	PART QTY NO. USED	PART DESCRIPTION	•	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	112-0186 2 112-0186-05 2 112-0186-10 2 112-0186-20 2 112-0186-30 2 112-0186-40 2	Piston and Pin (Included Retaining Rings) Standard .005" Oversize .010" Oversize .020" Oversize .030" Oversize .040" Oversize	ides	. 1 . 1 . 6 1	14-0300 14-0300-10 14-0300-20 14-0300-30 14-0240 170-0302	2 2 2 4	Rod Connecting (Include Bolt and Nut) Standard .010" Undersize .020" Undersize .030" Undersize Bolt Connecting Rod (Sonut, Hex - Crown Lock
2 3 4	112-0180-40 2 112-0229 2 518-0311 4	Pin, Piston Ring, Retaining Ring Set, Piston			, 10-0302	•	(5/16-24)
	113-0189 2 113-0189-05 2 113-0189-10 2 113-0189-20 2 113-0189-30 2 113-0189-40 2	Standard .005" Oversize .010" Oversize .020" Oversize .030" Oversize .040" Oversize					



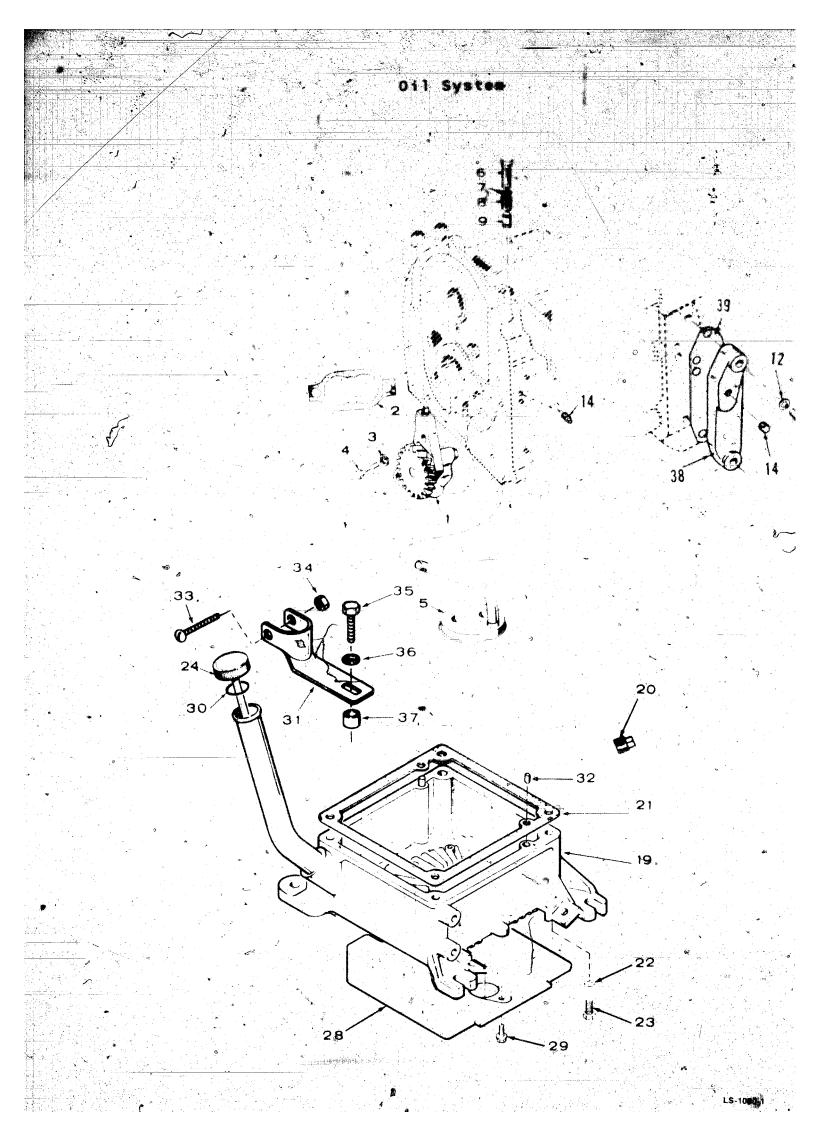
REF	PART NO.	QTY USED	PART DESCRIPTION	REF		QTY USED	PART DESCRIPTION
1.	150-0078		ng Retaining	8	105-0541		Washer, Thrust - Special
√ 2	150-\15.19	1 Hu	b, Governor Cup	9	150-0075	$ar{f 1}$	Pin, Center
\ 3	150-1520		ip Governor	10	515-0001	1	Key, Woodruff - Camshaft
1. 1.46	510-0015		ill, Governor	- 11	105-0376	1	Camshaft (Includes Center
	105-0332		ear Assembly, Camshaft, Includes Plate and Spacer)		يعير	
	<i>Y</i>						



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0170	1	Screw, Cap - Hex Head -	9			Crankshaft (Includes Part Marked *)
. 2	850~0055	1	Washer, Lock - Spring (7/16")		104-1548	1	Spec A through D
3	526-0017	1	Washer, Flat (7/16" Screw)		104-1441	1	1-7/16" Stud - Begin St
4	815-0519	6 -	Screw, Tapping - Hex Washer Head (#10-32 x 1/2")		518-0014 104-0043	1 1	Ring, Retaining Washer, Gear Retaining
5	821-0014	4	Screw, Cap - Hex Head Locking				Special
		,	$(5/16-18 \times 1/2")$	12	104-0032	1	Gear, Crankshaft
6	134-4120	. 1	Guard, Flywheel	. 13	515-0263	1	*Key, Flywheel
7	104-0779	1	Gear, Ring	14	515-0001	1	*Key, Crankshaft Gear
8,			Flywheel (Includes Ring Gear)	15+	515-0103	1	*Key, Crankshaft Stub
	134:3806	1	Engines without Flywheel	16	134-3847	1	Venturi, Blower Wheel
	1.		Alternator	17	821-0010	5	Screw, Cap - Hex Washer !
	e e e e e e e e e e e e e e e e e e e		Engines with Flywheel Alternator		/ F.		$(1/4-20 \times 1/2")$
	134-3938	1.	Without Imbalance Weight	i i			
india. National	134-3912	1	With Imbalance Weight	* *	Parts Inclu	ded in	Crankshaft Kit.
•		•	(Identify by 3/4" Drilled Holes on Backside of Flywheel)				

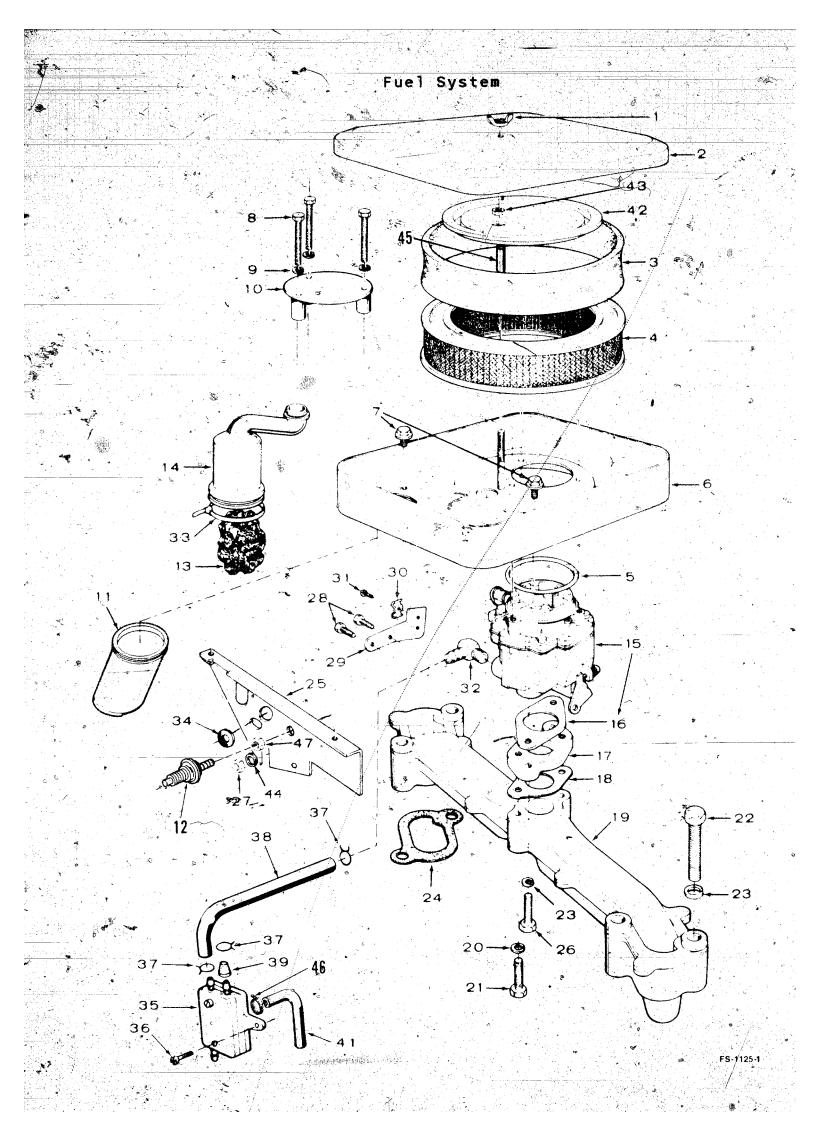


REF PART NO. NO.	QTY USED	PART DESCRIPTION		REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1 150 1433		et, Governor C	ontrol		518-0406 518-0004	1	Clip Retaining - Contro
2 150-0694 3 821-0010	2 Scr ew	Adjusting Cap - Hex He	ad Locking	7	150-1924	1	Clip Retaining - Contro Rod, Control
4 150-1214		-20 x 1/2") g. Governor	to de la companya de La companya de la co	. 8	870-0131		Nut, Hex - Governor Adju (WET 10-32)



	90					(
5		CITY Card					
	120-0491		Pump Oil (Components Not	13			
	**************************************		Sold Seperately)		800-0056		
	120-0161		Gasket Kir Oil Puns		800-0661		√ Begin Shac D
	850-0040		Weaher Lock Spring (1/4")	24	123-1402	,	Cap and Indicator, Cil f
	800-0007		Screw Cap - Nex Head	100	134-3864	1.	Baffle Dil Base Air
		6	1/4-20 x 131		815-0340	•	Screw, Tagping - Hex Was
5	120-0713	1	Cup Intake - 0-1 Pump		V.V VY.TV		Head (#10-32 x 3/8")
K)	₹801±0049		Screw Cap - Hex Head	10	509-0142		O-Ring, Oil Fill Gap
			(3/8-24 × 7/8")		123-1612	1	Bracket, Fill Tube
17	526-0066		Washer Flat - Copper (3/8"		516-0212	-2	+Pin, Dowell
			Screw)		815-0576	ī	Screw, Round Head
- 8	120 0140		Spring, Bypass Valve				$(*10 \times 1-1/4")$
9	120-0398	1	Plunger, Bypass Valve	34	870-0120	1	Nut Speed
	526-0065	7	Washer Flat Copper		800-0034	1	Screw, Hex Head - Cap
			(5/16" Screw)				(5/16-18 × 2-1/4",)
13	000-0028	2	Screw Cap - Hex Head	36	850-0045	1	Washer, Lock (5/16")
			(5/16-18 × 1°)	37	123-1611	1	Spacer, Fill Tube Brack
	505-0057	1	Plug Pipe	38.*	122-0438	1.	Cover, Oil Filter Padm
. 19	102-1220	, , , , ,	Base Oil (Includes Parts Marked +)	****		er en gerindig. Her gygne	(Engines without Oil F - Optional
····(20 ·	505-0056		+Plug, Pipe - Oil Drain (1/2")	39	122-0375	1	Gasket; Oil Filter Pad
21	102-1200	i	Gasket Oil Base			•	(Engines without Oil F
22	850-0050	4	Washer Lock - Spring (3/8")			4	

+ - Parts Included in 102-1220 Oil Base.

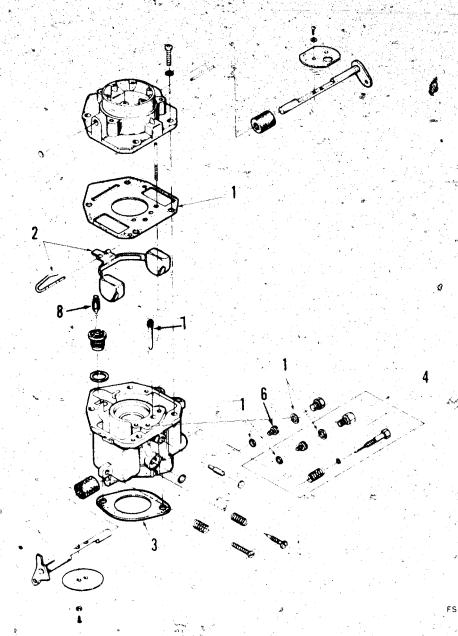


Fuel System

	REF NO:	PART NO.	QTY USED	PART DESCRIPTION	REF	PART NO.	OTY USED	PART DESCRIPTION
19				~: : : : : : : : : : : : : : : : : : :				
1	1	865-0020	1	Nux, Wing (1/4-20)	*	154-1744	2	Gasket, Manifold to Block:
	2	140-1663	1	Cover, Air Cleaner	1 2 2 2 2	140-1961		†Support, Air Cleaner ,
		140-1496	1	Wrapper, Air Cleaner Element	26	800-0028	2	Screw, +Cap - Hex Head
1	4 *	140-1228	1	Element, Air Cleaner (Paper)				(5/16-18 × 1")
JÖ.	5	509-0145	1	Seal, O-Ring	27	870-0399	1	tNut, Hex Washer Head (5/16
	6	140-1885	1	tHousing, Air Cleaner	- 28			Screw, Cap - Hex Washer He
1.5	7	815-0575	2	fScrew, Tapping - Hex Washer		821-0002	2	(#10-32 x 1/4") Spec A
-				Head $(1/4-20 \times 3/8")$		821-0004	2	(#10-32 x 5/16") Begin
	8	815-0470	3	Screw, Machine - Hex Head				Spec 8
				$(#10-32 \times 1-1/2")$	29	153-0515	1	Bracket, Choke Cable 0
	9.	526-0234	3	Washer, Flat (7/32 ID x	30	153-0514	2	Clip, Choke Cable - Begin
	7.57			17/32 OD × 105" THK)			4.4	Spec D - Use 1
	10	145-0521	1	Plate, Air Deflector	31	815-0359	1	Screw, Tapping - Slotted
		140-1661	1	Tube, Air Intake	100			Hex Washer Head
		150-2091	1	Dashpot - Begin Spec B				(#10-32 × 7/8")-
• • • [13	123-1417	1	Filter, Breather Tube	32	502-0313	1	Elbow, Hose
	7 1 4 4	123-1429	1-	Tube: Grankcase Breather	33	332-1567	1	Tie, Breather Tube
	15			Carburetor, Complete (See	-34	508-0021	, 1	Grommet, Rubber (3/4" Hole
1.1				Separate Page for Components)	35	149-1982	1	Pump, Fuel - Mounted on
	· 4.			(Includes Mounting Gasket)			for the fi	Blower Housing (Includes
25	. 1	146-0389	1	Without Semi-Automatic			1	Parts Marked *)
		240 0000		Choke	36	815-0555	2	Screw, Tapping - Pan Head
14		146-0428	1	, With Semi-Automatic Choke -				(#10-24 × 5/8")
	1 1	140 0420	•	Begin Spec D	37	503-0301	` 3	*Clamp, Hose (7/16")
-	16	154-0733	1	Gasket, Carburetor to Adapter	38	503-1199	1	*Hose, Fuel (13")
4.		154-1977	. 1	Adapter, Carburetor		149-1321	1	*Cap, Fuel Outlet
	•	145-0438	1	Gasket, Adapter to Manifold	41	503-0707	1	Hose, Fuel Pump Vacuum
. 6	h	154-2666	. 1	Manifold, Intake	4.2	140 1692	1	Cover, Element - Optional
	, 10	850-0040	2	Washer, Lock - Spring (1/4")		* 864-0001	1	Nut, Hex (1/4-20) - Option
11	21	800-0023	2 .	Screw, Cap - Hex Head	44	526-0041	1	tWasher, Flat - Air Cleaner
	2.1	000 0023	2 .	$(1/4-20 \times 1-3/8")$				Support (5/16" Screw)
c=	-30			Screw, Cap - Hex Head	45	301-0458	1	Air Cleaner - Spacer
	44	800-0033	3	5/16-18 × 2" - Spec D ▼	46		2	Clamp, Hose (7/16" Dia.)
	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 000-0033		- Use 4	70	140-1492	ī	Kit, Housing - Air Cleaner
•	1 2	800-0034	1	5/16-18 × 2-1/4"	• 1	140 1402		(Includes Parts Marked ±
	22	850-0034 850-0045	1	Washer, Lock - Spring (5/16")	47	868-0002	1	Nut, Hex - Jam (5/16-24)

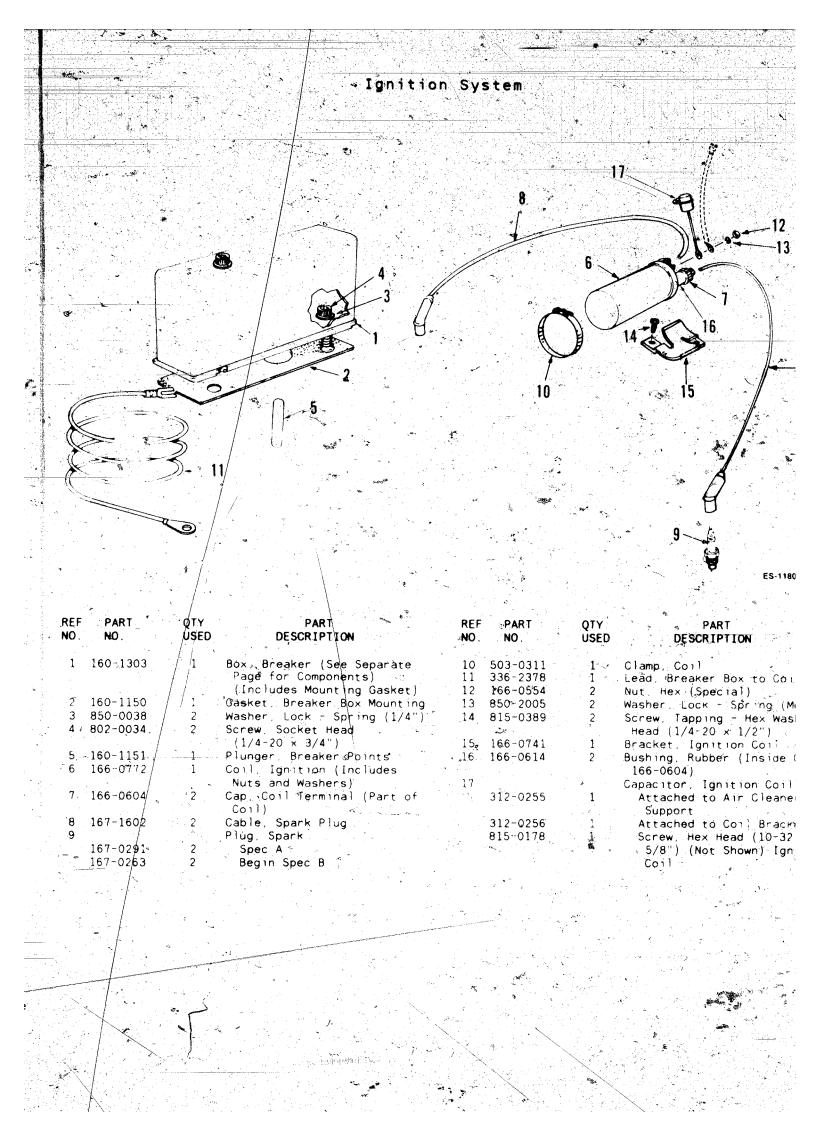
Parts Included in 149-1982 Fuel Pump Kit: Parts Included in 140-1942 Housing Kit

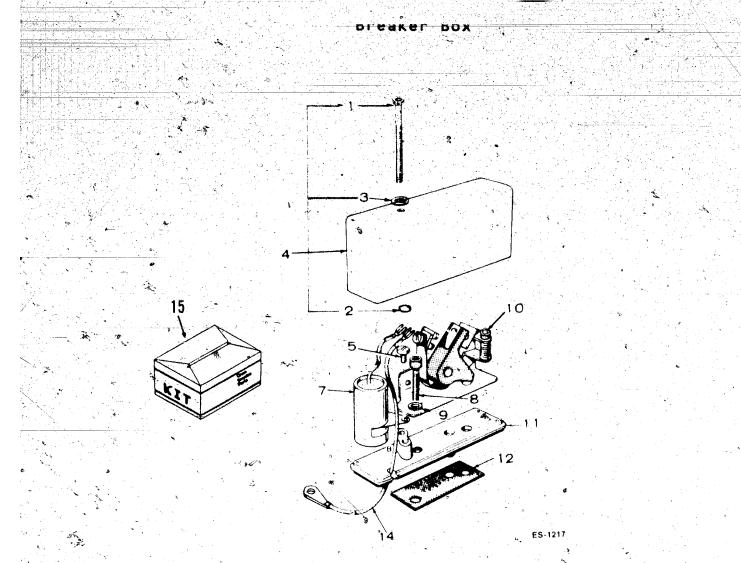
Carburetor Components



REF	PART	QTY .	PART	÷ 3.	REF		QTY.	PART
NO	NO-	USED	DESCRIPTION	. %	NO.	NO	USED	DESCRIPTION
Ž.			Carburetor, Complete (Includes Mounting Gasket)	•	- 4	146-0327	1	Variable Jet Kit Option (High Altitude Applicat
	146-0428	1	With Semi-Automatic Choke		. 5	,		Kit, Repair
	146-0389	1	🔪 "Without Semi-Automatić Ch	oke.	500	146-0356	1	Carburetors Without Sen
1			Gasket Package					Automatic Choke (Inclu
100	146-0326	1	*Carburetors Without Semi-		-			Parts Marked *)
	<u></u>	1 - 1 <u>-</u> 1 - 1	Automatic Choke		in the	146=0432	1	Carburetors With Semi-
- ' +- 'y	146-0438	1	+Carburetors With Semi-				100	Automatic Choke (Incl
		en en en en en en	Automatic Choke					Parts Marked +)
2			Float Package	*	6	146-0396	1	Jet, Power - Carburetor
	146-0325	1	Carburetors Without Semi-		. 7			Jét, Idle
10 M			Automatic Choke	,	•	146-0425	1	With Semi-Automatic Chc
	146-0437	1	Carburetors With Semi-	- 1 K.		146-0370	1	Without Semi-Automatic
			Automatic Choke		8	146-0423	1	Valve, Float
3	154-0733	2	+*Gasket, Carburetor Mounting		- Mag			

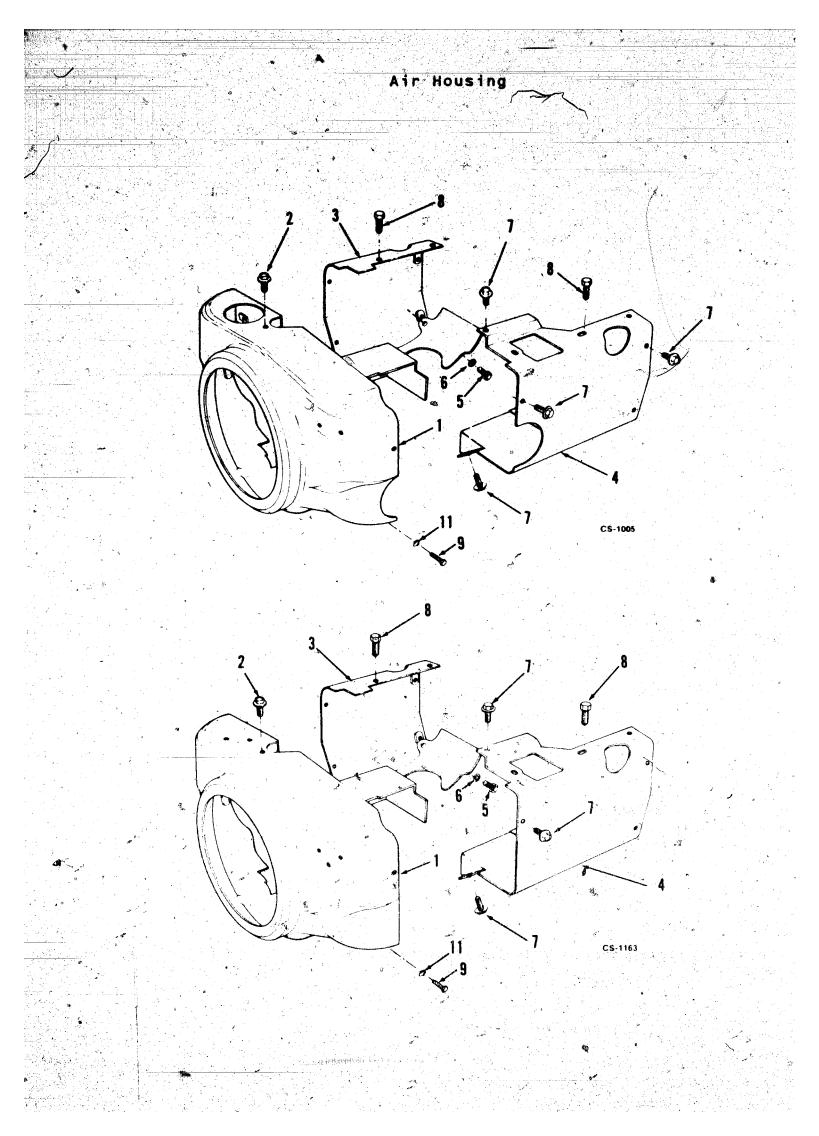
* - Parts Included in 146-0356 Repair Kit. + - Parts Included in 146-0432 Repair Kit.



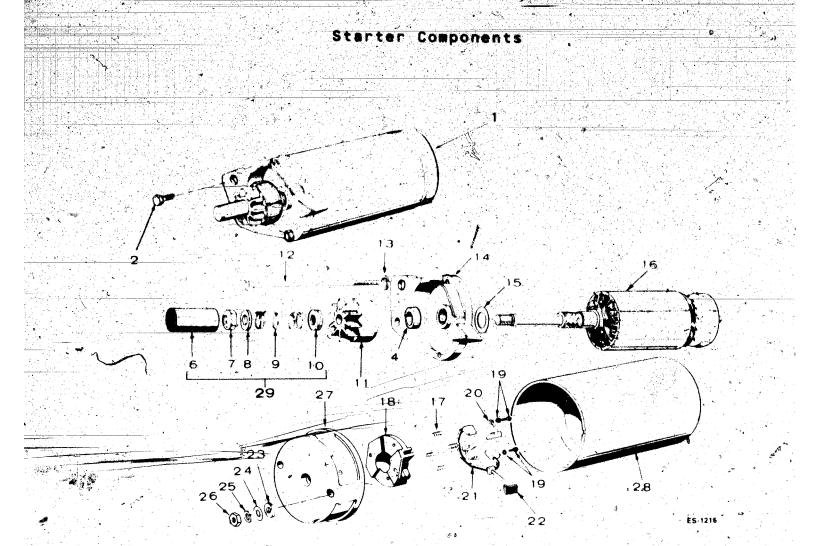


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	The second secon	QTY USED	PART. DESCRIPTION
	160-1303	1	Box, Breaker (Includes Parts Marked *)	8	802-0034	2	*Screw, Cap - Socket Head (1/4-20 x 3/4")
1	802-0022	1	*Screw, Cap - Hex Socket	9	850-0040	2	*Washer, Lock (1/4")
			$(#10-24 \times 1-1/2")$	10	160-1183	1	*Point Set, Breaker
2*	509-0065	1	*Retainer ("O" Ring)	11	160-1219	1	*Base Breaker
. 3	526-0008	1	*Washer, Flat (#10 Screw)	1 2 ₀	160-1150	1 -	*Gasket, Breaker Box
4	160-1285	1	- *Cover, Breaker Box	14	336-2378	1	Lead, Breaker Box to Coil
~ 5	815-0358	11	<u>*Screw, Cap - Slotted </u>	15	160-1311	1	Fune Up Kit (Includes Poin
	7		(#8-32 × 5/16")				and Condenser)
7	312-0246	21	*Condenser				

⁻ Parts Included in 160-1303 Breaker Box



			Air Ho				
REF NO.	PART	QTY USED	PART DESCRIPTION (REF NO.	PART NO.	OTY USED	PART DESCRIPTION
1			Housing Blower				Engines Without Oil (
	34-4288	* 1	Engines with Mounted Oil Filter		134-3518	1	Use Without Top Mo Voltage Regulator
	34-4257		With Standard Air Cleaner - Without Oil Filter		134-4297		Without Weld Nuts
% 1	34-4285	1	With Remote Air Cleaner With Oil Filter	67 6	1104-429		Use With Top Mounte , Voltage Regulator Ampere With Weld N
	15-0261	1	Screw, Tapping - Hex Washer Head (1/4-20 x 7/16")		134-4340	1	Use Without Top Mou Voltage Regulator
	34-3862	1	Housing, Cylinder Air - Left Side For Models Without Overheat		134-4476	1	With Weld Nuts Use With Top Mounte Voltage Regulator
			Switch, Without Weld Nuts For Models With Overheat Switch		1,34-4512	1	Ampere Without We Use Without Top Mo
. 1	34-3803	1 .	With Weld Nuts - 6.64"				Voltage Regulator Without Weld Nuts
- 1	34-4265	1	Long With Weld Nuts - 7.33"		815-0290	2	Screw, Tapping - Hex W Head (1/4-20 x 5/8")
4			Long	6	526-0021	2	Washer, Flat (1/4" Scr
A			Housing, Cylinder Air - Right Side	<i>!</i> .	821-0008	5	Screw, Cap - Hex Washe (1/4-20 x 1/4")
		•	Engines With Mounted Oil	8	821-0016	2	Screw, Cap - Hex Washe $(5/16-18 \times 3/4")$
1	34 ₈ 4270	1	Use Without Top Mounted Voltage Regulator -		815-0290	2	Screw, Tapping - Hex William Head (1/4-20 x 5/8")
1	34-4272	1	With Weld Nuts - Use With Top Mounted Voltage Regulator - 15	11	526-0018	2	Washer, Flat (1/4" Scr
. 1	34-4276	1	Ampere With Weld Nuts Use With Top Mounted Voltage Regulator - 20	ه د ساران			
1	34-4280	1	Ampere Without Weld Nuts : ' Use With Remote Oil Filter } - With Top Mounted				



REF	PART Q	TY PART	REF	PART	QTY	PART
NO,	NO. U	SED DESCRIPTION	NO.	NO.	USED	DESCRIPTION
1	191-1567	1 Motor, Starter (Complete)	20	6	2 +*#	rush, Ground
	815-0570	2 Screw, Cap - Hex Washer Head	21	Z.		tud and Brush Assembly,
- 4	615 0570	(5/16-18 × 1")		3		Input
Δ	191-1534	1 Cap, Dust - Drive End	22	§		ushing, Insulation - Inp
6	•	1 #Cover, Dust				Stud
7	Š	1 #Nut, Stop	23	Ş	1 fw	asher, Insulation - Inpu
8	Š	1 #Washer, Stop Nut				Stud a
9	Š	1 #Spring, Anti-drift	2.4	§	1 , tW	asher, Flat - Input Stud
10	Š	1 #Spacer, Dust Cover	25	§	1 tW	asher, -Lock - Input Stud
11	191-1036	1 Drive Assembly	26	§	T th	ut, Securing - Input Stu
12	191-1048	2 Screw, Hex Cap = Special 3	27: 1	91-1532	1 C	ap Assembly, Commutator
13	850-0040	2 Washer, Lock (1/4")				(Includes Parts Marked t
14	191-1597	1 Cap Assembly Drive End	28	Š	1 H	ousing Starter/Motor
15	191-1038	1 Washer Armature Thrust	. 29 1	91-1359	1 D	ust Cover Assembly
16	191-1039	1 Armature	1			(Includes Parts Marked #
17	•	4 t*Spring, Brush	1	91-1533	1 R	epair Kit, Brush Spring
18	Ş	1. fBrush Helder				Stud (Includes Parts Mar
19	Š	2 Screw and Lockwasher				
4 7 7				•		

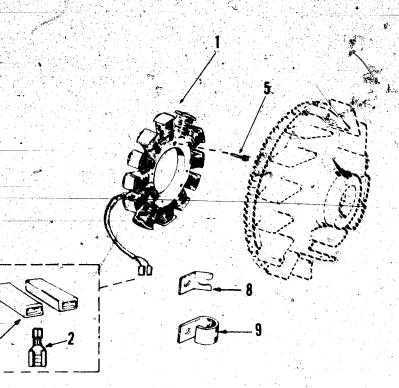
Included in the 191-1532 Cap Assembly. Included in the 191-1533 Brush, Spring and Stud Kit.

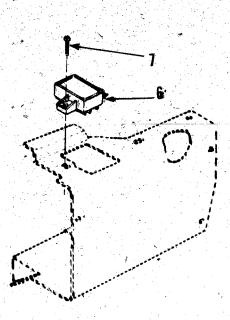
Included in the 191-1359 Dust Cover Assembly Not Sold Separately.

OPTIONAL EQUIPMENT SECTION

This section contains illustrated parts listing of factory installed options for these industrial engines: Options may not be applicable to all models: for field conversions additional parts are usually required. Optional parts listed in this section are in addition or in place of those shown in the standard engines parts section.

Option 1 Flywheel Alternator - 20 Ampere (Phelon)





ES-1353

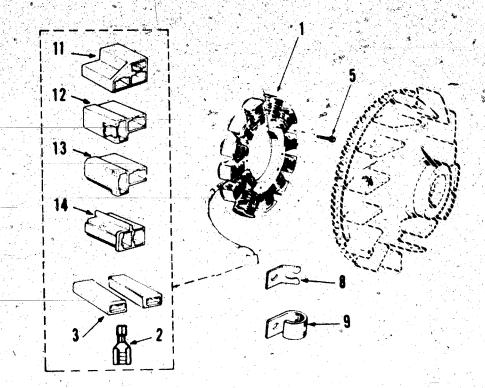
REF NO	PART NO.	QTY PART USED DESCRIPTION	
1	191-1276	1 Stator (Includes Terminals and Connector Bodies)	<u> </u>
2	332-2493	35 *Terminal, Stator Leads	
3.	323-1257	2 Body, Terminal Connector - Kit (Includes Parts Marke	
ે5 ે	815-0470	3 Screw, Machine - Hex Head Self-Lock (#10-32 x 1-1/2	

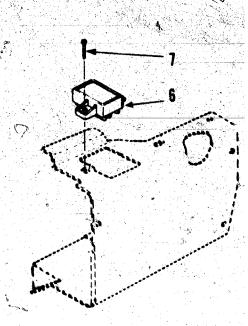
	PART NO	QTY USED	PART DESCRIPTION
6 19	91-1275	1	Regulator, Voltage
	21-0007	1	Screw, Cap - Hex Washer H
•			$(1/4-20 \times 1/4")$
8 10	67-0188	1	Clip, Cable
9 3	32-2319	1	Clamp, Wire - Alternator

- Parts Included in 323-1257 Alternator Connec Body

Landing on the first from the first from

Flywheel Alternator - 15 Ampere (Phelon)



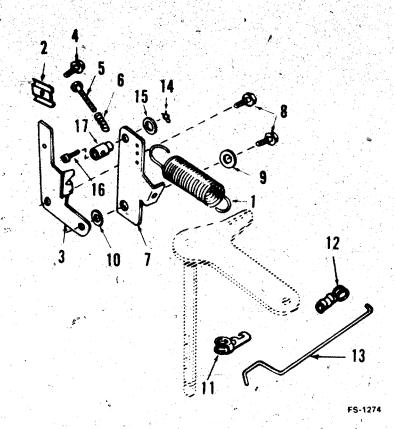


FQ.	1754

REF NO.	PART NO.	٠٠,	QTY USED	PART REF PART QTY PART DESCRIPTION NO. NO. USED DESCRIPTION
1	191-1256		1	Stator (Includes Terminals 7 821-0007 1 Screw, Cap - Hex Washer H
			: 2"	and Connector Bodies) (1/4-20 x 1/4")
2	332-2423	Ş	3	*Terminal Stator Leads 8 167-0188 1 Clip Cable
- 3	323-1257		2	Body, Terminal Connector - 9 332-2319 1 Clamp, Wire Alternator
		· +	i	Kit (Includes Parts Marked *) 11 323-0853 1 Body, Terminal Connector
5	815-0593		3	Screw, Machine - Hex Head - 12 323-1085 Body, Terminal Connector
	*			Self-Lock (#10-32 x 1-3/8") 13 323-0892 1 Body, Terminal Connector
6	191-1206.		1	Regulator, Voltage 14 323-0890 1 Body, Terminal Connector

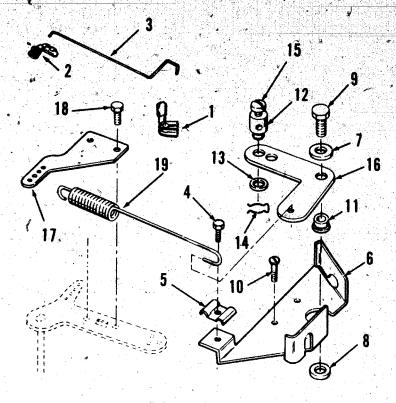
Parts Included in 323-1257 Alternator Connect Body Kit

Governor Control - Variable Speed *(Side Pull)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-1214	1.	Spring, Governor	9	526-0021	2	Washer, Flat (1/4" Sore
2	153-0514	1	Clamp, Cable	10°	150-1269	· 1	Bushing, Control Arm
3	150-1725	1	Bracket, Cable	11	518-0406	1	Clip, Retaining - Contr
4	815-0359	1	Screw, Tapping - Hex Head				to Governor Shaft
	• •		$(#10-32 \times 7/8")$	12	518-0004	1	Clip, Retaining - Contr
5	815-0510	1	Screw, Tapping - Hex Head				to Carburetor
	_		(#6-32 × 5/8")	13	150-1924	1	Rod, Governor Control
6	150-1398	1	-Spring, Idle Setting 👚 🚂	14	516-0059	1	Pin, Cotter
7	•		Arm, Governor Control	15	526-0006	1	Washer, Flat (#12 Screv
	150-1345	1	Use With Swivel	16	815-0104	1 -	Screw, Machine - Fillie
	150-1576	1	Use Without Swivel	,			$Head^0$ (#8-32 × 5/16")
8	815-0436	2	Screw, Cap - Hex Washer Head	17	152-0155	1	Swivel, Cable Holding
	*	•	$(1/4-20 \times 1/2")$. •			

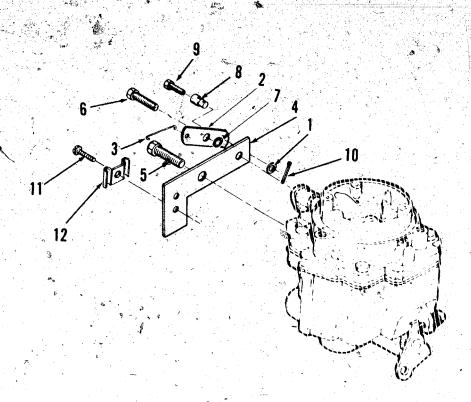
Option 4 Governor Control - Variable Speed (Front Pull)



FS-1138

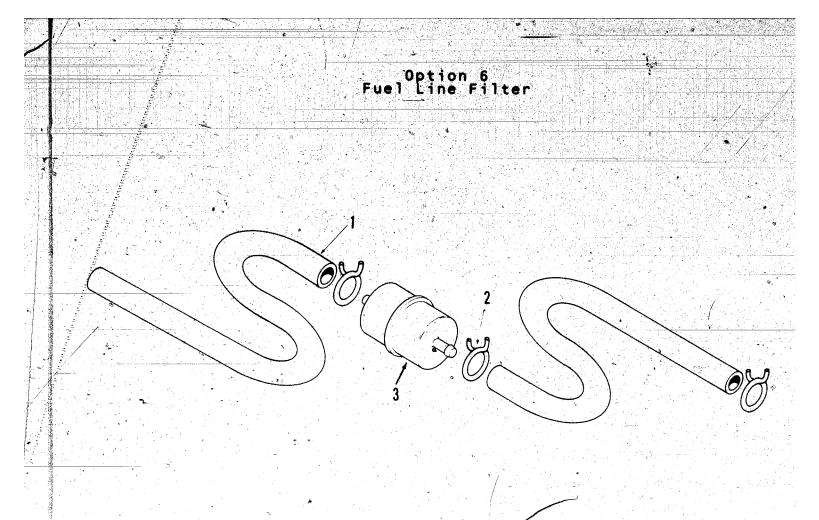
				*	and the second		
REF	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	7.6	QTY USED	PART DESCRIPTION
1	518-0406		Clin Consision Consul	10	815-0439	_	County Tanadan Hay Mada
1	518-0406	1	Clip, Retaining - Control Rod to Governor Arm	10	815-0439	3	Screw, Tapping - Hex Washe Head (8-15 x 1/2")
2	518-0004	1	Clip, Retaining - Control	11	150-1727	1	Bushing, Governor Control
>		•	Rod to Carburetor	12	152-0155	1	Swivel, Throttle Lever
3	150-1924	1	Rod, Control	13	526-0006	1	Washer, Flat (#12 Screw)
4	815-0359	1	Screw, Tapping - Hex Head	14	516-0059	1	Pin, Cotter
V.			(#10-32 x 7/8")	15	815-0104	1	Screw, Machine - Fillister
5	153-0514	1	Clamp, Throttle Cable				Head (#8-32 x 5/16")
6	150-1726	, 1	Bracket, Governor Control	16	150-1366	1	Link, Governor Control
		•	Mount ina	17	150-1754	1	Adapter, Governor Arm
7	526-0021	1	Washer, Flat (1/4" Screw)	- 18	815-0181	2	Screw, Tapping - Hex Head
8	850-0040	1- :	Washer, Lock - Spring (1/4")				w/ET (#10-32 × 1/2")
9	800-0007	. 1	Screw, Cap - Hex Head		150-1755	1	Spring, Governor
			$(1/4-20 \times 1")$,		

Option 5 Choke Control (Front Pull)



FS-1131R

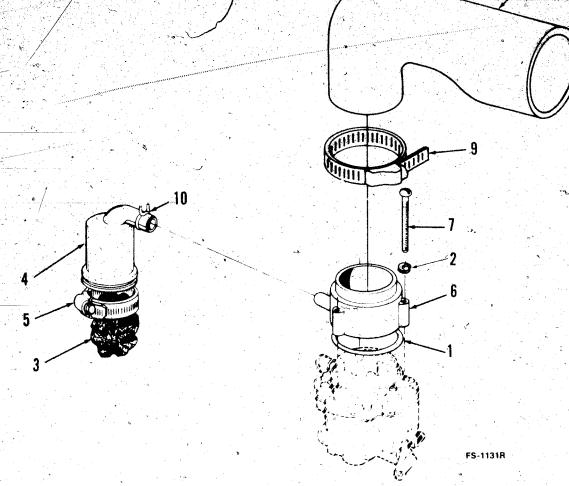
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART	QTY USED	PART DESCRIPTION
1	526-0140	1	Washer, Flat (#10 Screw)	8	152-0155	1	Swivel, Choke Lever
2	153-0523	1	Lever, Choke	. 9	815-0693	1	Screw, Machine - Hex
3	153-0500	* 1	Link, Choke				(#8-32 x 31")
4	153-0524	1	Bracket, Choke Cable	10	516-0059	1 1	Pin, Cotter
5	821-0002	1	Screw, Cap - Hex Washer Head	- 11	815-0359	1	Screw, Tapping - Hex
. 1			$(#10-32 \times 1/4")$				$(#10-32 \times 7/8")$
.6	815-0480	1 '	Screw, Shoulder (#10-32 x	12	153-0514	1	Clip, Choke Cable
			.34")				
· 7 ,	854-0010	1	Washer, Lock - IT (#10)				



REF PART	QTY	PART	REF		QTY	PART
NO. NO.	USED	DESCRIPTION	NO		USED	DESCRIPTION
1 503-0707	2 Hose	(1/4" ID x 7/16" Long)		503-0301 1°49-2005	3 Clamp, 1 Filter	Hose (7/16") , Fuel

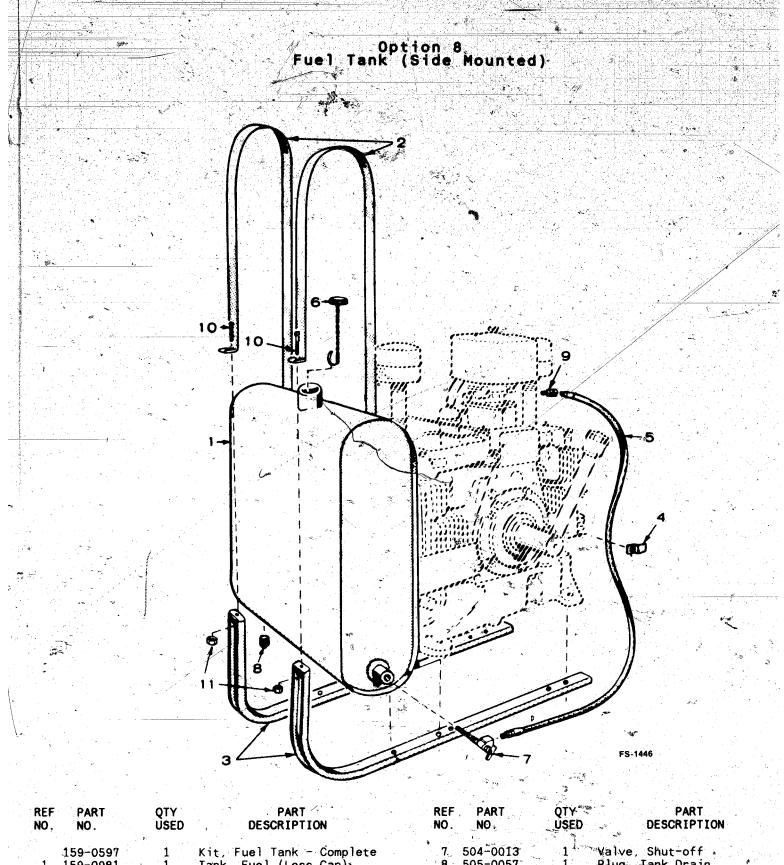
FS-1522

Option 7 Remote Air Cleaner Adapter



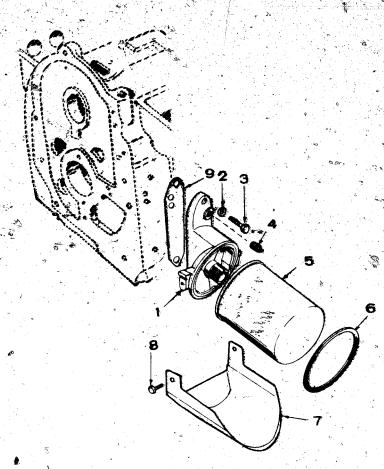
REF	PART NO.	QTY USED	PART DESCRIPTION		EF O.	PART NO.	QTY USED	PART DESCRIPTION
	140-1915	1	Kit, Remote Air Cleaner		5	503-0107	1	Clamp, Breather Tube
			Adapter (Includes Parts.		6	140-1714	1	*Adapter, Carburetor Air Int
			Marked *)		7	813-0106	3 ,	*Screw, Machine - Round Head
1	509-0145	1	Seal, O-Ring	**				(#10-32 'x 1-1/8")
2	850-0030	3.	*Washer, Lock - Spring (#10)		8	140-1428	1 /	*Elbow, Air Intake
3	123-1417	1	*Filter, Breather Tube		9	503-0274	1	*Clamp, Hose - Air Intake
4	123-1539	1	*Tube, Crankcase Breather	1	0	503-0171	 1	*Clamp, Hose
100							\sim_I	

* - Parts Included in 140-1915 Remote Air Cleaner Adapter,

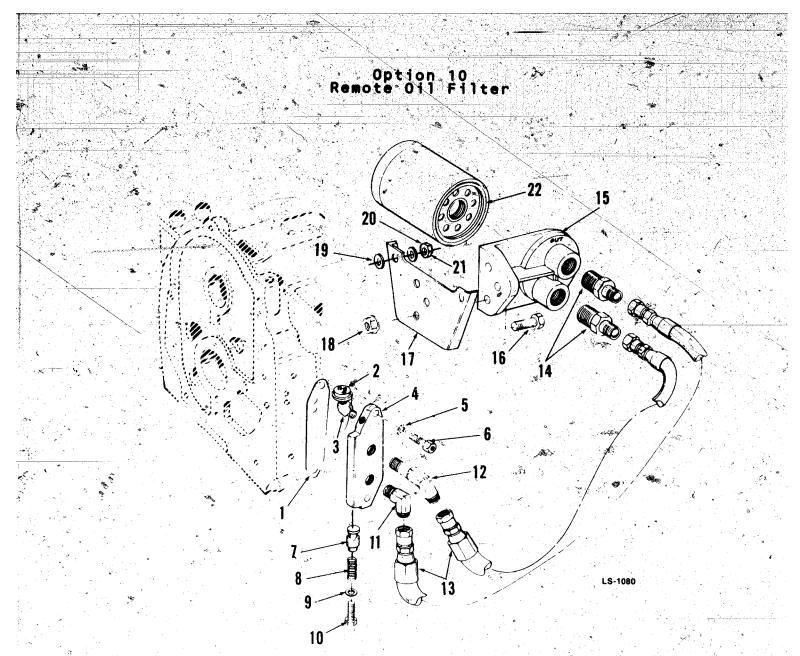


	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	4.4	QTY"." USED	PART DESCRIPTION
		159-0597	1	Kit, Fuel Tank - Complete	7.	504-0013		Shut-off
	1	159-0981	1	Tank, Fuel (Less Cap):	' 8 :			Tank Drain
		159-0596	2	Strap, Fuel Tank	9	502-0020		Carburetor Inlet
: :	3	159-0595	2	Bracket, Fuel Tank	10	813-0108		Machine - Round Hea
13	4	134-0599	1	Clip, Fuel Line	•			32 × 1-1/2")
1	5	501-0008	1	Line, Fuel	11	870-0053	. 2	ex (#10-32)
	6	159-0020	1	Cap, Fuel Tank				
on the substitution of the								

Option 9 Oil Filter (Spin-On)

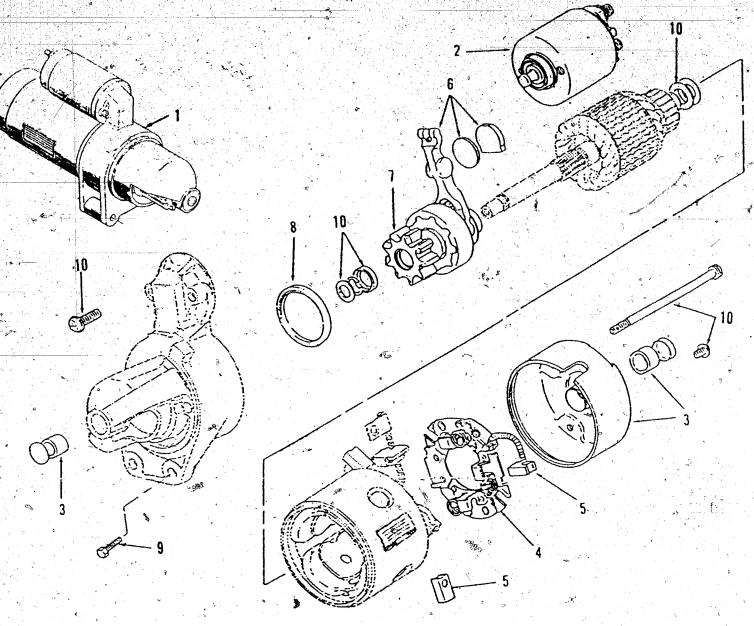


REF NO.		QTY USED	PART DESCRIPTION	-	REI NO		QTY USED	PART DESCRIPTION
1	122-0320	1 Adag	oter, Oil Filter		5	122-0645	`1.	Filter, Oil
2	526-0065	2 Wasi	ner, Flat - Copper		6	122-0347	1	Seal, Air - Filter to Hou
		(5,	/16" Screw)	* -	7	122-0360	1	Drain, Oil Filter
3	800-0028		ew, Cap - Hex Head /16-18 x 1")	. ±	-8	815-0194	2	Screw, Cap - Hex Head w/E (#10-32 x 3/8")
4	505-0067	1 Plug), Pipe (1/8")		9	122-0321	1	Gasket, Oil Filter Adapte



REF NO.	PART NO.	QTY USED	PART DESCRIPTION		REF NO.	PART NO.		TY SED	PART DESCRIPTION
1	122-0375	. 1	Gasket, Oil Filter Adapter	•	11	502-0805		1	Elbow, Male (From Filter)
<u>,</u> 2	309-0105	1	Switch, Low Oil Pressure		12	502-0806		1	Elbow, Male (To Filter)
, 3	502-0053	1	Elbow, Street (45°)		13 ,	501-0440		2	Hose, Oil
4	122-0369	1	Adapter, Oil Filter		14	502-0804	·	2	Connector, Male
. 5	526-0065	2	Washer, Flat - Copper		15	122-0476	,	1	Base, Remote Oil Filter
	•		(5/16" Screw)		16	800-0027		3	Screw, Cap - Hex Head
6			Screw, Cap - Socket Head					200	$(5/16" - 18 \times 7/8")$
	802-0057	2	Prior to 6/86	•	17 -	122-0559		1	Bracket, Remote Oil Filter
			$(5/16-18 \times 1-1/2")$	1,51	18	870-0257		3	Nut, Self-Lock (5/16-18")
٠	8 Q 2-0056	2	Begin 6/86		19	526-0030		2	Washer, Flat (3/8" Screw)
1Ç.	,	· Frankin	$(5/16-18 \times 1-1/4")$	200	20	526-0174	* * * * *	2	Washer, Flat (13/32" ID x
- 7	120-0398	1 1	Valve, Bypass Plunger		+ //	Re.			25/32" OD x .1345 Thk)
8 .	120-0140	. \1	Spring; Bypass		21	862-0003	i	2	Nut, Hex (5/16-18")
9	526-0066	1	Washer, Flat (3/8" Screw)		22	122-0469		1	Filter, Oil
10	801-0047	1	Screw, Cap - Hex Head (3/8-24 x 5/8")	. Er					

Option 11
Starter Components - Solenoid Shift
191-1682-01 & 191-1801-01 (Standard Begin Spec D)

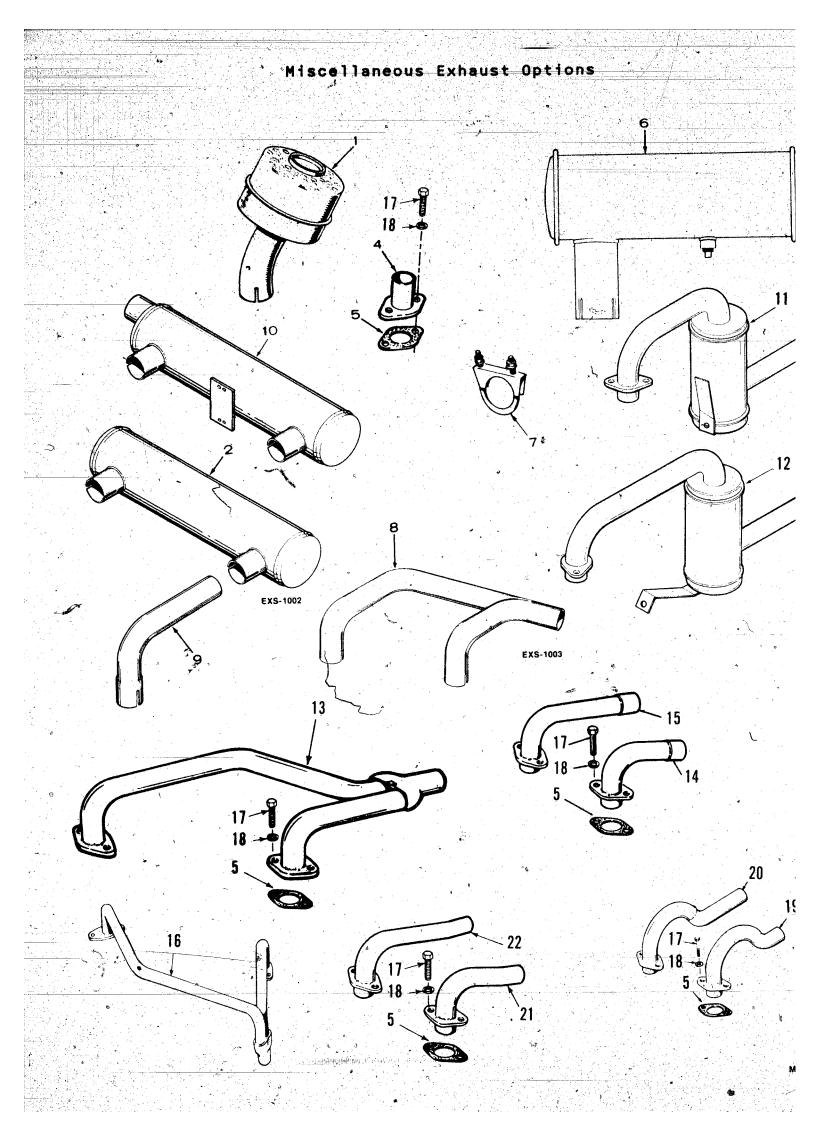


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF PART NO NO.	QTY USED	PART DESCRIPTION
1	•		Starter, Solenoid Shift	ή	and a second of the second of	Clutch Assembly, Starte
	191-1682-01	1 .	Without Dust Seal			(Includes Pinion Gear)
	191-1808-01	1	With Dust Seal	191-1767	1	Used on 191-1682-01 0
. ***	191-1682-02	1	Top Position	191-1810	1	Used on 191-1808-01 0
2 /	191-1809	1	Kit, Solenoid - Starter	8 191-1811	- 1	Seal, Dust (Used on
			(Includes Solenoid and		***	191-1808-01 Only)
			Spring Plunger)	9 815-0570	2	Screw, Cap - Hex Washer
ີ 3	191-1762	1.	Kit, Bushing - Starter			Start Mount (5/16-18 x
		1	(Includes Rear Cap with	10 191-1765	1	Kit, Hardware - Starter
N. C. State			Bushing and Front Bushing)			(Includes (2) Solenoid
. 4	191-1764	1	Holder, Brush (Includes 🌠		9.	Mounting Screws, 2 Thr
		100	Negative Brush)		de de	Bolts, Armature Shims,
² 5	191-1763	1	Kit, Brush - Starter		1 64	Pinion Collar and Reta
			(Includes (2) Negative and			Ring).
194		3	(1) Positive Brushes)		The second of th	
6°	191-1766	1	Kit, Shift Lever - Starter			
	 Control of the control of the control		(Includes Lever, Wear Plate		months and the second second second	

NOTE: Onan Part Number Stamped on the Starter Nameplate for Ideatification.

and Rubber Plug)

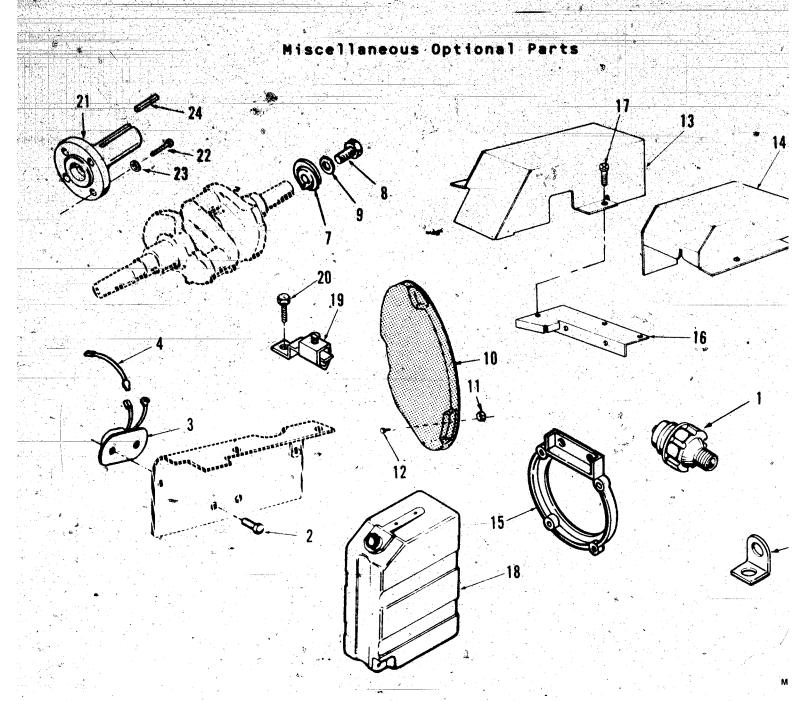
NOTE: Phantom Items Not For Sale, For Replace Order Complete Starter.



Miscellaneous Exhaust Options

NOTE: Various exhaust options are used on B43E industrial engines. Select according to illustration.

REF NO.		QTY USED	PART DESCRIPTION	REF NO.	· · · · · · · · · · · · · · · · · · ·	QTY USED	PART DESCRIPTION
1	155-1570	2	Muffler, Exhaust	13			Manifold, Exhaust
2	155-1692	1	Muffler, Exhaust		154-2243	1	Crossover (Rear Back Out
4	154-1958	2	Adapter, Exhaust (Flange Type)		154-2457	1	Right Rear Outlet
5	154-1725	2	Gasket, Exhaust Adapter	14	154-2128	1	Adapter, Exhaust - Right
6			Muffler, Exhaust - Raygun				(1-1/4" 00 Outlet)
	155-1697	2	With Spark Arrestor	15	154-2129	1	Adapter, Exhaust - Left
	155-1693	. 2	Without Spark Arrestor	1 d			(1-1/4" OD Outlet)
. 7			Clamp, Muffler	16	154-2178	1	Manifold, Exhaust (Right
146 1 1 1	155-1256	2	1-1/4"			4	Rear Downward Outlet)
	155-1257	2	1-3/8"	17	800-0026	4	Screw, Cap - Hex Head
8			Manifold, Exhaust - Crossover				$(5/16-18" \times 3/4")$
	154-1986	1	Left Rear Outlet	18	850-0045	4	Washer, Lock - Spring (5/1
	154-1669	1	Left Front Outlet	19	154-2158	1	Adapter: Exhaust - Right
	154-1986	1	Right Front Outlet				(1-1/8" OD Outlet)
	154-1669	1	Right Rear Outlet	20	154-2159	1	Adapter, Exhaust - Left
• 9			Pipe, Exhaust (90°)		e Santa e		(1-1/8" OD Outlet)
	155-1703	1	Left	21	154-2343	1	Adapter, Exhaust - Right
	155-1704	1 •	Right				(1-15/64" OD Outlet)
10	155-1848	ī	Muffler, Crossover	22	154-2344	1	Adapter, Exhaust = Left
11	155-1722	1	Muffler, RH				(1-15/64" OD Outlet)
12	155-1723	1	Muffler LH				



REF PART NO. NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1		Switch, Low Oil Pressure	14			Cover, Exhaust - RH
309-0105	. 1	2 Terminal		134-3890	. 1	Use with 154-2128 Exh
309-0237 •	1	1 Terminal	· 5			Adapter
2 818-0076	2	Rivet, Switch (1/8")		134-4341	1	Use with 154-2343 Exh
3 309-0497	1	Switch, High Air Temperature	1.5			Adapter
4 336-9501	1	Lead, High Air Temperature	15	190-0597	1 1	Adapter, Clutch - Elect
		Switch	400			Begin Spec 🚱
5 403-1523	2	Bracket, Lifting	16	134-3905	1	Support Assy, Exhaust (
6 526-0009	3	Washer, Flat (#10 Screw)	17	821-0009	2	Screw, Lock Head (1/4-2
7 104-1156	1	Weight, Balance				3/8")
8 801-0050	1	Screw, Cap - Hex Head	18	159-1150	1	Tank, Fuel - Plastic
	- -	$(3/8-24 \times 1")$				(3.5 Gal. Capacity)
9 850-0050	1 9	Washer, Lock - Spring (3/8")	19	332-1319	1	Terminal, Solderless -
10 134-3875	1	Screen, Flywheel (Stationary)	1	**		Begin Spec B
11 134-3868	3	Spacer, Flywheel Screen	20	815-0261	1	Screw, Tapping - Hex W
12 815-0359	-	Screw, Tapping - Hex Washer				Head $(1/4-20 \times 7/16")$
		Head (#10-32 x 7/8")	21			Shaft, PTO (2" Pilot)
13		Cover, Exhaust - LH		190-0546	1	1-7/8" Diameter
134-4028	- 1	Use with 154-2129 Exhaust		190-0687	1	1" Diameter
	The second	Adapter		800-0552	4	Screw, Cap - Hex Head
134-4254	1.	Use with 154-2344 Exhaust				$(5/16-18 \times 1-1/8")$
		Adapter	23	850-0045	4	
				515-0007	1	Key (1/4 x 2")

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