S7D-S8D ENGINE MODELS

Important Notice

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As with any printed data, the information contained in these manuals may not be the most up-to-date available. It is provided as a convenience to our customers and all information should be verified before making repairs to an engine or component.

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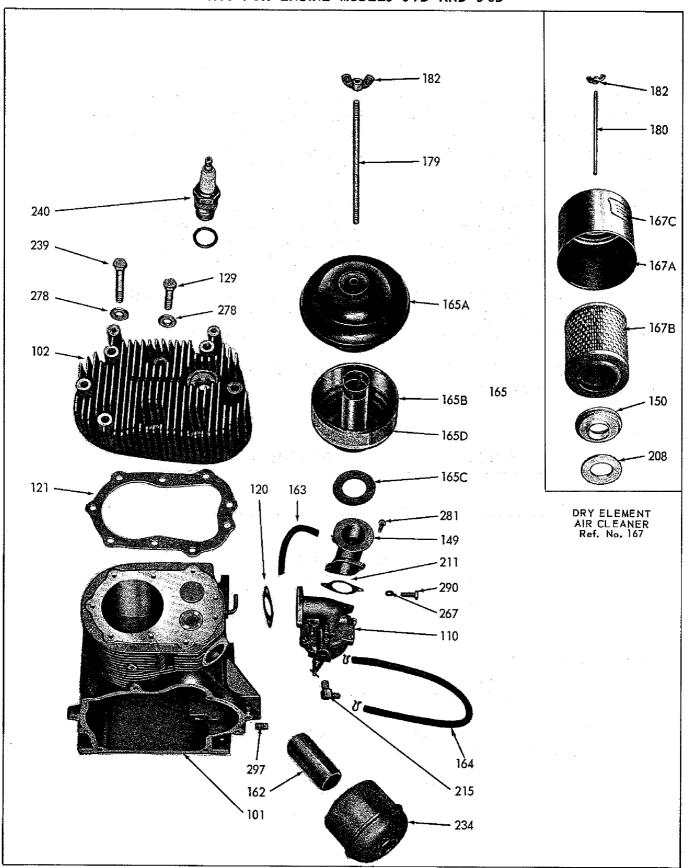
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The MODEL, SPECIFICATION and SERIAL NUMBER of your engine must be given when ordering parts. The MODEL, SPECIFICATION and SERIAL NUMBER are on the engine nameplate.



Sales Office

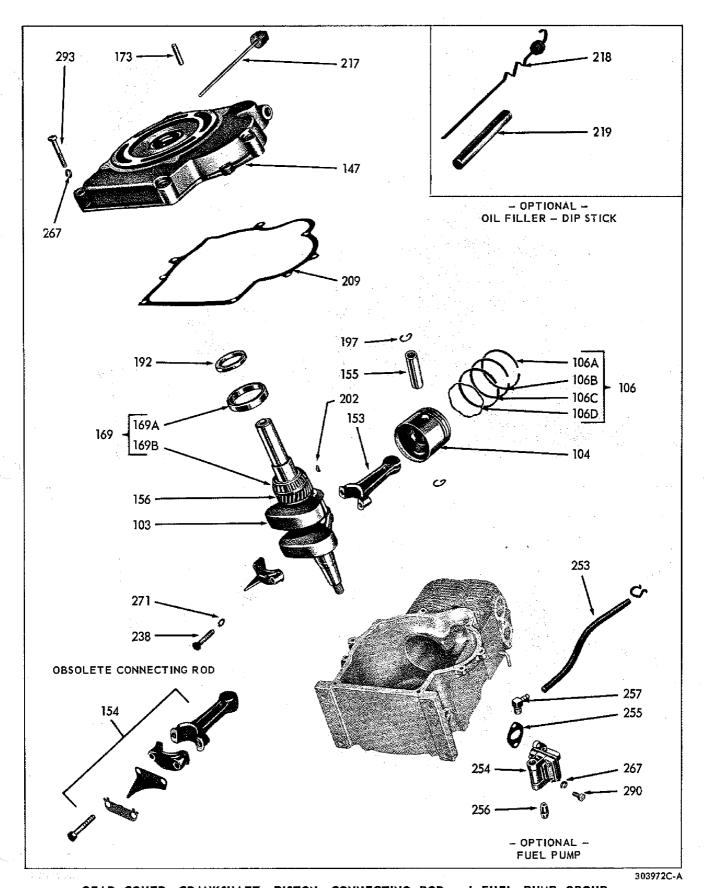
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CRANKCASE, CYLINDER HEAD, CARBURETOR and AIR CLEANER GROUP

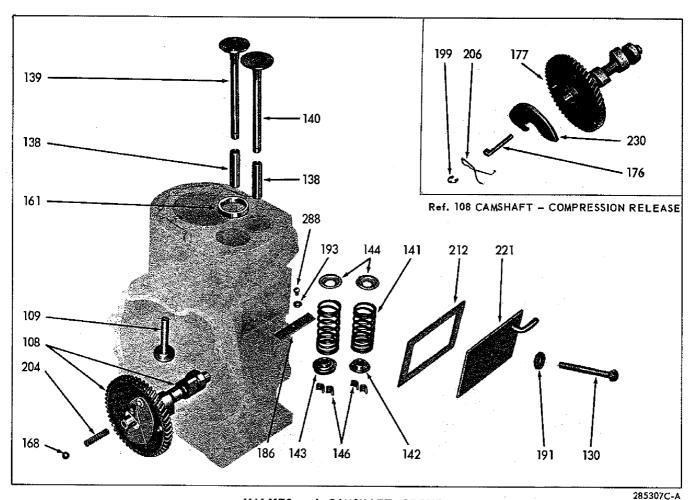
Parts are identified by reference number. See parts list for correct part number.

PARTS FOR ENGINE MODELS S-7D AND S-8D



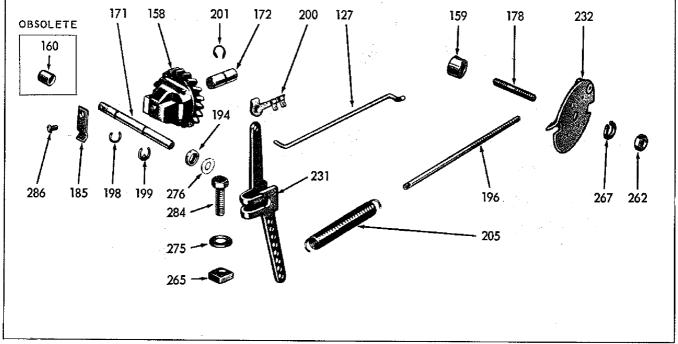
GEAR COVER, CRANKSHAFT, PISTON, CONNECTING ROD and FUEL PUMP GROUP

PARTS FOR ENGINE MODELS S-7D AND S-8D



VALVES and CAMSHAFT GROUP

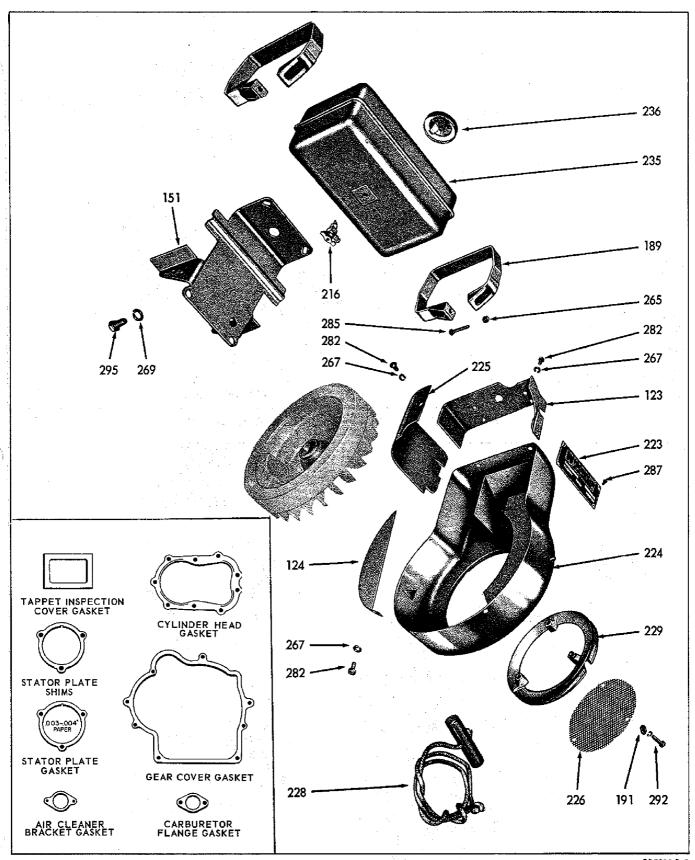
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285314C-1

Ref. No. 126, GOVERNOR ASSEMBLY

Parts are identified by reference number. See parts list for correct part number.



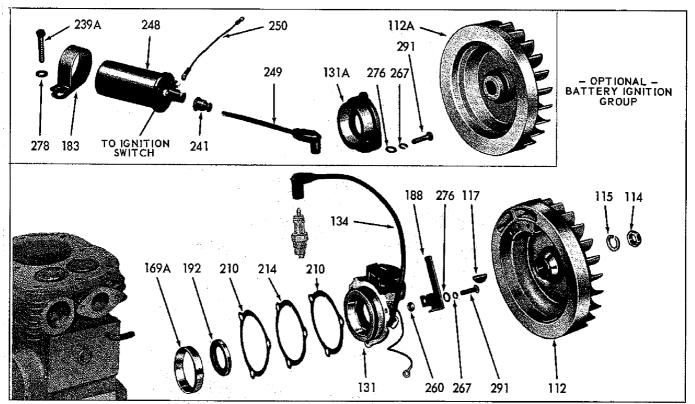
Ref. No. 119, GASKET SET

AIR SHROUDING and FUEL TANK GROUP

Parts are identified by reference number. See parts list for correct part number.

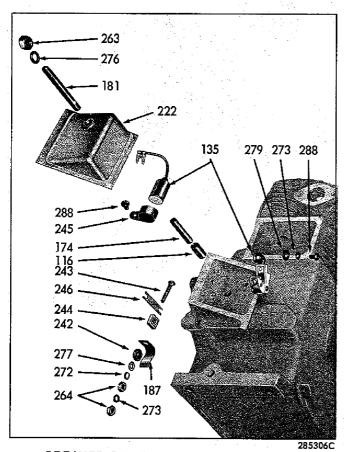
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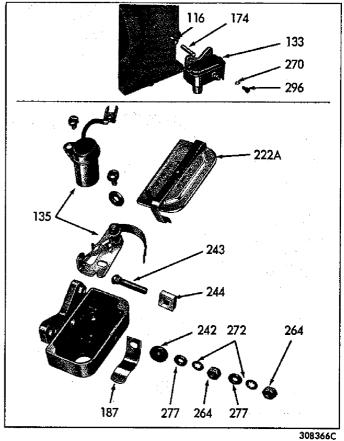
PARTS FOR ENGINE MODELS S-7D AND S-8D



MAGNETO STATOR PLATE and FLYWHEEL GROUP

303973C





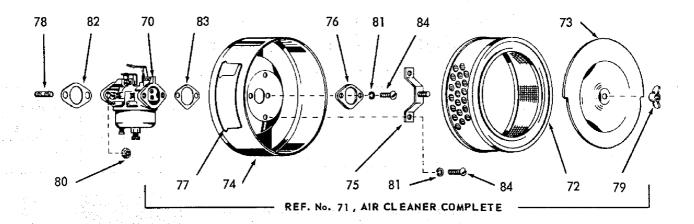
BREAKER POINT GROUP for MODEL \$-8D

BREAKER POINT GROUP for MODEL S-7D

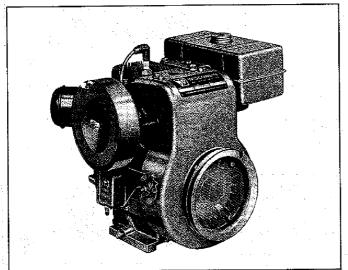
Parts are identified by reference number. See parts list for correct part number.

WALBRO CARBURETOR and AIR CLEANER GROUP for model S-8D

Beginning with engine serial number 5558441



SERVICE PARTS LIST of all parts related to this change.



Ref.	Port	Part					
No.	Number	Description	Req	Lb	02		
70	L-104-S1	CARBURETOR, WALBRO No.LME-73	1	1			
		LQ-52 Repair Kit	1		6		
		Q-45 Gasket Set (carburetor)	1		1		
	carburetor, w	fy the part number or model designation, so when ordering replacement carburetor or po- ulletin ML-33-3 in back of manual for servi-	rts.	Se	е		
163 page	20		1		1		
71	LO-194	AIR CLEANER, complete	1	1	8		
72	LO-194-A	ELEMENT	1		6		
73	LO-194-C	COVER	1		4		
74	LO-194-D	HOUSING	1		12		
75	LO-194-E	BRACKET	1		1		
76	QF-119	SPACER	1		1		
77	SD-308	INSTRUCTION DECAL			1		

Ref. No.	Part Number	Description	No. Req		₩t
78	PC-631	STUD, carburetor mounting	2		1
79	PD-147	WING NUT, air cleaner mounting	1		1
80	PD-254	LOCKNUT (special), carburetor mtg	2		1
81	PE-14	LOCKWASHER, no. 10, spring lock For air cleaner mounting	4		1
11 9	Q-36-C 31	engine gasket setQ-36-B, replaced by Q-36-C	1		8
82	QC-53-C	GASKET, carburetor flange (1/8")	1		1
83	QD-849	GASKET, air cleaner to carburetor	1		1
221 page	SA-149 30	COYER, valve tappet	1		5
126 page	T-112 30	GOVERNOR ASSEMBLY complete	1	1	
127	page 30	VE-844 Rod replaces VE-783-C	1		1
200	page 30	PK-178 Clip, replaces PK-177	1		1
84	XA-7	SCREW, 10-32 x 3/8 long round head For air cleaner mounting	4		1
	tank mounting	carburetor change requires a 1-3/8" high , with the fuel line passing thru the flyw fore use the following.			
151 page	BK-125	FUEL TANK BRACKET BK-125-\$1 TANK-BRACKET Assembly with strapping	1	2 4	8
Not	Рн-515	GROMMET, fuel line, in flywheel shroud	3		1
		in the second of			
		11:			
		l .		1	

Order parts from nearest WISCONSIN DISTRIBUTOR or SERVICE CENTER.

PARTS LIST

For Standard MAGNETO IGNITION Engines, and BATTERY IGNITION REWIND STARTER, form MU - 4A - 3 in rear section of manual

Models S-7D and S-8D

THE FOLLOWING ARE NON-INTERCHANGEABLE PARTS BETWEEN MODELS 5-7D AND 5-8D

REF.		NUMBER	DESCRIPTION	NO.	NET WEIGHT	
NO.	MODEL S-7D	MODEL S-8D		REQ.	LBS	oz
101	See Fig. A 3" Bore	See Fig. A 3-1/8" Bore	CYLINDER and CRANKCASE ASSEMBLY	. 1	29	
			NOTE: The basic and standard cylinder-crankcase part number is AA-103 for Model 5-7D and AA-107 for Model 5-8D. Any special machining is indicated by a number stamped on the case, in the location shown in Fig. A. Add this number to the basic cylinder-crankcase part number. The further addition of an S1, specifies the cylinder-crankcase is complete with valves, springs, seats and etc. Order by this number and by giving the			PART NO.
		# · · · · · · · · · · · · · · · · · · ·	Model, Specification and Serial numbers of the engine.	6 85-00	J	Ì
				E.		200456
*	•			Fig. A	λ 1	908450
102	AB 108 D	AB 112 A	AB 108 B, replaced by AB 108 D.		2	12
103	CA 79 etc. (Ref. to Note o	CA 82 etc.	CRANKSHAFT ASSEMBLY	1	9	
	,	.	2 ME 170 Bearings 1 PL 21 Key	1	ı	1
			NOTE: The standard and basic engine crankshaft part			
	•		number, as listed in part number column, can be identi- fied by raised letters on the side of the counter-weight.			
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dash numbers are added to the basic part number to			
1.0	,		identify special machining at the take-off end. The dash			Sec. Sec.
:			(-) number will be found stamped on the cheek facing the flywheel end of the shaft, as illustrated in Fig. B.	- 6		
			Order by complete part number, (dash number added to			
*			basic number), and by giving Model, Specification and Serial Numbers of the engine.	Fig. (3	2906520
104	DB 224	DB 230	Piston, standard size, cam ground	1		. 8 :
106	DR 53	DR 54 A	PISTON RING SET, standard size	ı		4
106A	DC 318	DC 347	COMPRESSION RING, top groove	1		,
106B	DC 319	DC 315	SCRAPER RING, 2nd groove	1		1
106C 106D	DC 294 DC 295	DC 316 DC 317	OIL RING, 3rd groove EXPANDER for oil ring, 3rd groove	1		1
	DR 51	DR 55	TRI CROME RE-RING SET, standard size NOTE: Piston ring sets are also furnished .010", .020" and .030" oversize			
: 108	EA 129 A	EA 130 C	CAMSHAFT ASSEMBLY with gear and compression release		_	
			For engines beginning with Serial No. 4289760.		1	14
			EA 121 B Comshaft (less compression release) for \$-70		2	8
			EA 123 D Camshaft (less compression release) for 5-8D		2	8
		i	- 100 M tot 0-00, tepideed by LA 130 C.			

NON-INTERCHANGEABLE PARTS of Models S-7D and S-8D

REF.			DESCRIPTION	NO.		ET GHT
	S-7D	NOTE: Beginning with engine Serial #5558441, the L 104 51 Walbro corburetor along with related Air Cleaner and linkage on page 32 a, replaces the Zenith carburetor on all standard production Model 5-8D engines. Zenith carburetors and parts are available for service. 80 L 51 (12924) (12931) (12931) L 80 K 51 L 80 K 51 L 80 K 51 L 80 B 51 L 80 P 51 L 94 Repair Kit	REQ.	LBS	ΟZ	
1 10	L 80 L S1 (12924)	(12931)	ZENITH CARBURETOR, for gravity feed	1	1	8 2
	L 80 M S1 (12925)	I .	ZENITH CARBURETOR, for engines with fuel pump LQ 42 Repair Kit	1		2
112	NC 198 A (11 lbs.)	l I	FLYWHEEL, with magnet — used with Wico magneto and Rewind Start FLYWHEEL, — additional tapped holes for Rope or Motor-Generator Pulley NC 203 Flywheel, replaced by N 109 A 1	1 1	11 11	12 8
	NC 198 (12 lbs.)	N 109 A 1 S1	FLYWHEEL assembly — used with obsolete Fairbanks-Morse magneto NOTE: Fairbanks-Morse and Wico flywheels are not interchangeable with each other, unless the corresponding manufacturers coil-stator plate,	1	11	-
112A	NC 202	NC 202-2	FLYWHEEL, battery ignition engines — with tapped holes for drive sheave	1	13	
114	PD 162 (5/8 *- 18)	1 ' '	NUT, for mounting flywheel — with Rope or Motor-Generator Pulley	1		1
115	PE 37 (5/8" spr.)	1	LOCKWASHER, for mounting flywheel	1		1
116	PF 150 A S1	PF 157 A S1	For field replacement of PF 150 bushing on S-7D, or PF 157 for \$-8D.	1		3
117	PL 17 (#13)	PL 47 (#18)				1
119	Q 35 B	Q 36 C	ENGINE GASKET SET	-1		. 8
120	QC 53 B	4.7	GASKET, carburetor flange - 1/8" thick for Walbro carburetor	1		1
121	QD 797	QD 825	GASKET, cylinder head	1		1
123	SE 272 B	SE 297	COVER, cylinder head	1		. 2
124	None Used	SE 282	BACK PLATE, for flywheel shroud	1		
126	T 105 B	4 24	GOVERNOR assembly (see page 30), with Zenith corburator	1 1	1	
127	VE 783 B	1	ROD, governor control with Zenith carburetor	1		1
129	XD 20 (1-3/8* long)	L .		4 (S- 5 (S-		1
130	XD 74 (2-1/4" long)	XD 147 (2-1/2* long)	SCREW, 1/4"-20 thread, hexagon head	1		1
131	Y 126 A S1	Y137 S1 (Beginning with S/N	STATOR PLATE assembly, for Wico magneto	1	1	8
		6039991)	PH 529 Oil seal 90 X 13000 Cail assembly (includes ignition cable)			
	V 101 01		90 11409 Coil clip		_	
	Y 126 \$1	Y 131 S1	STATOR PLATE assembly, for obsolete Fairbanks-Morse magneto	1	1	8
	·		31 D 2476 Coil clip E: Fairbanks-Marse and Wico stator plate assemblies are not interchangeable other unless the corresponding manufacturer's flywhael (Ref. 112) is used.	 with 		

Order parts from nearest WISCONSIN DISTRIBUTOR or SERVICE CENTER.

IMPORTANT: Always give Model, Specification and Serial Numbers as shown on name plate.

NON-INTERCHANGEABLE PARTS of Models S-7D and S-8D

REF.	PART	NUMBER		NO.	NET Weight		
NO.	MODEL S-7D MODEL S-8D A BG 334 S1 BG 334-1 S1 BEARING PLATE assembly, (in place of stator plate)	DESCRIPTION	REQ.	LBS	oz		
131A	For battery igni			1	1		
133	(Includes	(Not serviced	BREAKER BOX assembly, complete (page 32)	1		6	
134	YL 339 B 18	YL 339 B 20	CABLE, high tension, magneto coil to spark plug	1	٠	2	
135	YQ 11	YQ 12	NOTE: The other serviceable component parts of the breaker assembly are contained in the following interchangeable listing of parts.	. 1	÷	4	

PARTS INTERCHANGEABLE for Models S-7D and S-8D, except where noted.

Ref.	Port	Description		Net		Ref.	Part	Description	No.		
No.	Number	Description	Reg	Lb	Oz	No.	Number		Req	Lb	Oz
138	AD 41 E	GUIDE, valve stem inlet and exhaust	2		1	. 149	BI 364C \$3	BRACKET, air cleaner	1		7
139	AE 74 D	VALVE, exhaust	1		4	1 : -		Consisting of: B1 364 C Bracket LL 178-5 Breather hose			
140	AE 96	VALVE, inlet	1.		4	150	B1 377	ADAPTER for ZENITH carburetor, dry			
141	AF 43 B	VALVE SPRING, inlet and exhaust	2		2			element air cleaner	1		2
142	AG 26	SEAT, valve spring inlet	1		1	151	BK 125	For WALBRO carbureter.	1	5	8
143	AG 31	ROTO-CAP and SEAT for exhaust valve			1	-	BK 120 B	BK 125 S1 tank-bracket with strapping BRACKET, fuel tank	1	2	
144	AG 34 A AH 9	CUP, valve spring locating			1			BK 120B \$1 tank-bracket with strapping NOTE: For tank service straps, see Ref. 189.	٠.	4	8
147		GEAR COVER assembly		7		153	DA 83A S1	CONNECTING ROD assembly, with			
132		Includes: 1 ME 170-1 Brg. cup 1 PH 529 Oil seal 1 PH 568 Oil seal					* *!	integral oil dipper	1		7½
	engine is BD cated by a n	andard gear cover part number for this ma 111 F. Any special machining would be i umber stamped behind the basic BD 11 ber, See Fig. C.	ndi-	٠.,		,		2 HF 617 Dowels 2 XD 20 Screws DA 80A S1, replaced by DA 83A S1.			
		number and by giving Model, Specifica	ti on			154	DA 73C 4 S1 (Obsolete)	CONNECTING ROD with steel stamped dipper. Includes: 2 HF 617 Dowels 1 PE 109 Lock			8
	BD 111 etc. G	ear Cover, replaced by BD 111 F etc.		I				1 PG 1075A Dipper 2 XD 22 Screws For complete replacement use DA 83A S1.			
			l					NOTE: Connecting rods are also furnished.010",.020" and .030" undersize.			
						155	DE 65	PISTON PIN	1		3
		19			.	156	GA 45	CRANKSHAFT GEAR	1	-	5
						158	GD 146 A	GOV. GEAR and FLYWEIGHT assembly GD 137 F, replaced by GD 146 A.	1		4
		PART NO.						GD 137 E Assembly (not available), used on engines to and including serial No. 3909151. For replacement of obsolete GD 137 E, use GD 146A S1 Service Kit.			
		Fig. C 290653C-1						(Continued)			

Order parts from nearest WISCONSIN DISTRIBUTOR or SERVICE CENTER.

IMPORTANT: Always give Model, Specification and Serial Numbers as shown on name plate.

PARTS INTERCHANGEABLE for Models S-7D and S-8D, except where noted.

Ref. No.	Part Number		No. Req			Ref. No.	Part Number	Description		N ei	
	GD 146 A S1	GOVERNOR GEAR and FLYWEIGHT KIT for engines to end including Serial				177	Not serviced	FULCRUM PIN for compression release flyweight	1		,
		No. 3909151	1		8	178	PC 377	STUD for governor control disc	1		1
		GD 146 A Gear and Flyweights PA 395 B Fulcrum Shaft PI 217-3 Adjusting Scrow				179	PC 561	STUD (6-7/16" long) for LO 87 oil bath air cleaner mounting	1		2
		PI 217-4 Adjusting Screw PK 135 Snap Ring PM 200 A Governor Spring				180	PC 600	STUD (7* long) for LO 173dry element air cleaner mounting	1		2
159	HF 52	SPACER for governor control disc	١,		,	181	PC 590	STUD for breaker cover (S-8D)	1		1
160	HF 426	SPACER for governor fulcrum shaft			1	182	PD 147	WING NUT, for air cleaner mounting	1	ŀ	1
100	(Obsolete)	Used on engines previous to Serial No. 3909152.	•		'	183	PG 556 PG 1019 A	STRAP, for battery ignition coil GOVERNOR VANE	1		4
		Replaced by PK 135 Retaining Ring and PA 395 B Fulcrum Shaft.				186	PG 1017 A	REED, for crankcase breather			1
61	HG 201 D	INSERT, valve seat exhaust	1		1	187	PG 1132	CLIP, magneto ground	1		1
162	LJ 158	NIPPLE, 1" x 3" long pipe	1		6	188	PG 1144-2	CLIP, for ignition wires support	1		3
		For muffler mounting.				189	PG 1201	FUEL TANK STRAP	2		6
163	LL 178 A	HOSE, breather line, 1/4" (.D. x 3-5/8" long	1		1		NOTE St	PG 733, replaced by PG 1201.	١.		
	LL 178-5	Used with WALBRO carbutetor. HOSE, breather line, ¼" I.D. x 5" long	1		1			Binder Strapping and Seal for mounting for nes sent out from the factory are not service			
		Used with ZENITH carburetor. LL 164-4 (3/16" i.D.) replaced by	•		•			ield. Order 2 PG 1201 straps with 2 ea. XA			
		LL 178-5 with 2 LK 30 clamps.				191	PH 442	WASHER, (rubber faced)	1		1
64	LL 178-16	HOSE, for fuel line, 1/4" 1.D LL 164-16 (3/16" 1.D.), replaced by	1		2	191	PH 196	For valve inspection cover. WASHER, 1/4" plain steel	3 .		-1
		LL 178-16 with 2 LK 30 clamps.				1		For starter sheave mounting. (Replaces PH 442 rubber faced washer)			
-	LK 30	HOSE CLAMPS for fuel line (not illust.)	2		1	192	PH 529	OIL SEAL, for crankshaft	2		2
65	LO 87	AIR CLEANER, oil bath type	1		2		***	l - in gear cover.	-		
65A		81 A 10187K01 Cover and element assem.			,,		٠.	PH 529 A (in gear cover) for engines with gear reduction units.			
65B 65C		81 A 10186K01 Body and tube assembly QD 744 A Gasket	1		10	193	PH 546	SPRING WASHER, for breather reed	1		1
65D !		SD 165 Instruction decal	1		1	194	PH 568	OIL SEAL, for gov. lever shaft (1/2" O.D.)			ĺ
67	LO 173	AIR CLEANER, dry element type Used with ZENITH carburator. Consisting of:	1	1				with BD 111 F geor cover PH 556 (7/16*0.D.) oil seal for obsolete BD 111 geor cover — use PH 568 and	1		1
67A		LO 173 A Cover	1		8			ctr, bare .502497", 3/16" deep	1		1
67B 67C		SD 276 Instruction decal	1		8	196	PI 217-3	ADJUSTING SCREW, governor spring, 5-5/8" long, beginning with engine No.			
68	ME 37	STEEL BALL for cam shaft, 3/8" dia.	1	``	1		or	3909152	1		1
69	ME 170	MAIN BEARING assembly	2		8	ŀ	PI 217-4	For speeds to and including 2900 R.P.M. 5¼" long, above 2900 R.P.M. load, and for engines previous to Serial No.			
69A 69B		1 ME 170-1 Bearing cup *	.		3 5			3909152, to and including 2800 R.P.M.			
		* Not sold separately - order ME 170.		İ	٦			Pi 217-1 (5" long) for engines previous to Serial No. 3909152, above 2800			
71	PA 395 B	FULCRUM SHAFT for governor lever PA 395, replaced by PA 395 B.	1		2	197	PK 52	R.P.M. load	2		1
72	PA 396 A	SHAFT for governor gearPA 396, replaced by PA 396 A.	i		1	198	PK 135	RETAINING RING, (inner) for governor lever shaft, on engines beginning with	-	٠.	
73	PA 425	DOWEL PIN for gear cover	2		1			Serial No. 3909152	1		1
74	PA 428 L S1	PUSH PIN and SPRING assembly For breaker points, includes: PM 221 SPRING	1		1	199	PK 144	RETAINING RING 1-for governor lever shaft (outer). 1-for compression release.	2		1
		PA 428 E, PA 428 K SI, replaced by PA 428 L SI.	1			200	PK 178	CLIP, throttle rod mountingPK 160, replaced by PK 178.	1		1
	-	PA 394 Push rod (1" long) Use with obsolete sheet metal breaker box (S-7D).	1		1	201	PK 167	SNAP RING, for governor gear, beginning with Engine Serial No. 3909152	1		1
76	PA 455-2	SPOILER CAM for compression release	1		1	202	PL 21	WOODRUFF KEY, No. 3	1		1

PARTS INTERCHANGEABLE for Models S-7D and S-8D, except where noted.

Ref. No.	Part Number	Description	No. Req	Net Lb		Ref. No.	Part Number	Description		-	Wt.
204	PM 108	SPRING, comshaft thrust	1		1	234	WD 64 S5	MUFFLER, (less pipe nipple)	1	1	
205	PM 200 A	GOVERNOR SPRING, (47 coils) for engines beginning with Serial No. 3909152 PM 200 (55 coils) for engines previous to Serial No. 3909152	1		-1	235	WE 413 51	FUEL TANK with RC 122 filler cap WE 409 and WE 411 tank with RC 77 cap, replaced by WE 413 S1.	ī	2	
206	PM 232	SPRING, for compression release	1		ı			See Ref. 151 for Bracket-Tank assembly WE 343 C (small seam tank) for engines	1		
208	QD 744 A	GASKET, air cleaner base, ZENITH carburetor	1		1			provious to Serial No. 4213945, no longer available — for teplacement order			
209	QD 798 A	GASKET, for gear cover	1		1		·	BK 120 B S1 Assembly (WE 413 Tank, BK 120 B bracket and steel binder			
210	QD 848	GASKET, stator plate, .003004" thick QD 799 A, replaced by QD 848.	*		1			strapping). k is mounted to bracket with steel binder			
	QD 848 A	GASKET, .006007" thick * Use as required with QF 121 Shims to give .002 to .005" crankshaft end	•		1.	l P	hich is not ser lacement straps RC 122	viceable. When replacing fuel tank only, s (Ref. 189). CAP, (screw type) for WE 413 tank	orde	erre	2
211	QD 800	play. 2 and 3 furnished in gasket set. GASKET, air cleaner bracket Usad with ZENITH carburetor.	. 1 .		1	230	RC 123 A	CAP, with gauge, available for WE 413 fuel tank	ľ		4
212	QD 801	GASKET, for tappet inspection cover	1		1			WE 343 bayonet neck type fuel tanks			2
214		SHIM, for stator plate, .010" thick steel QF 114 A (plastic, replaced by QF 121. * Use as required to give.002 to .005" crankshaft end play. 3 in gasket set.	*		1	238	XD 20	SCREW, (Special hardness) 5/16"-18 thread x 1-3/8" long, hexagon head For connecting rod (DA 80 A S1). XD 22, 1%" long for DA 73 C 4 S1	2		1
215	RF 1439	ELBOW, in carburetor, for fuel line	1		1	239	XD 140	SCREW, (Special hardness) 5/16"-18 thread x 2½" long, hexagon head	-4		1
216	RG 41	VALVE and STRAINER,Fuel tank shut-off.	1		2	2397	XD 162	For mounting cylinder head. SCREW, (Special hardness) 5/16*-18	~		
217	RJ 141-5 Optional	DIP STICK, (screw in)Saber Type	1		3		Na st	thread x 2½" long, hexagon head For mounting cylinder head and battery ignition coil strap.	1		1
218	RJ 171 RJ 171 A LJ 438	DIP STICK, (long hook)		-	2 2	240	YD 6 S1 Optional	SPARK PLUG, 18mm, Champion #D-16J	1		3
221	SA 124	COVER, valve tappet, with ZENITH					YD 6 S2	SPARK PLUG, AC #C86 Commercial .			3
	SA 149	COVER, valve tappet, with WALBRO carburetor	1		5	241	YD 20 A	RUBBER NIPPLE, for coil terminal (Battery ignition engine).	1		1
	SA 130 A SA 126 A	COVER, for breaker points (S-8D) COVER, for breaker box (S-7D)	1		3 2	242	YD 316	INSULATING WASHER (outer) for ground stud	1		1
223	SD 312 A	NAME PLATE	1	Ì	1	243	YD 321	TERMINAL STUD, for ground clip	ì		1
	.*	When ordering name plate, give model, specification and serial numbers for correct stamping.				244	YD 324	INSULATING WASHER, (inner) for ground stud	1		1
224	SE 270 B 1	FLYWHEEL SHROUD, Rewind Starting	1	2		245	ĺ	CLAMP, condenser (S-8D)	1		.1
225	SE 270 B SE 271	Rope Starting, less rewind mtg. holes CYLINDER SIDE SHROUD			4	246	YD 326	For breaker arm (\$-8D).	1		1
226	SE 273	SCREEN, for rope sheave	;		1	248	YF 38 A	COIL, (12 volt) for battery ignition YF 5 B, replaced by YF 38 A.	1	1	6
228	U 268	STARTING ROPE assembly	1		6	249	YL 339-6	HIGH TENSION LEAD	1		2
229	UC 203 A	STARTING SHEAVE, (sheet metal) Order screen separately.	1.	1		250	YL 352-16	For battery ignition coil. IGNITION WIRE, breaker box to battery			
sto	OTE: Rope inters are osolete and	UC 203 replaced by UC 203A. UC 184 (Aluminum sheave), replaced by				230	12 332-16	ignition coil	1		1
re	placed by coil starters.	UC 203 A and 3 XD 150 screws 3 PH 196 washers 3 PE 3 lockwashers.						FUEL PUMP MOUNTING (Not part of standard engine)		:	
230	VB 260	FLYWEIGHT, compression release	1		2	253		FUEL LINE, pump to carburetor	1		1
231	VB 234 A S1	GOVERNOR LEVER assembly	1		2	254	LP 62 E \$1 LP 62 G \$1	FUEL PUMP, with gasket (S-7D) FUEL PUMP, with gasket (S-8D) LQ 51 Repair Kit for LP 62 E, G S1	1 1 1		10 10 4
232	VC 43 A	PH 27 A Washer. DISC assembly, for gov. control rod Includes:	ı		3			LP 42 L S1, replaced by LP 62 E S1. LP 42 N S1, replaced by LP 62 G S1. LQ 28 Repair Kit for LP 42 L, N S1 NOTE: Refer to fuel pump instruction	1		4
		1 PH 324 Washer 1 VE 814 Swivel block		<u> </u>				sheet in rear of manual for maintenance and repair.			

PARTS INTERCHANGEABLE for Models S-7D and S-8D, except where noted.

Ref. No.	Part Number	Description		Ne:	···	~ !'	Ref. No.	Part Number	Description	No. Req		
255 256	QD 670 RF 269	FLANGE GASKETSTRAIGHT FITTING, for fuel inlet	1		1		284	XA 36	SCREW, 1/4"-20 thread x 3/4" long, indented hexagon head	1		1
257	RF 1439	ELBOW, in pump outlet	1		1		285	XA 69	SCREW, 1/4"-20 thread × 2" long, round head	2		1
260	HF 390	SPACER, 9/32" I.D. x 5/8" O.D. x 1/8" thick	1		1		286	XA 66	For fuel tank service straps. SCREW, No. 5-40 thread x I/4" long, round head	1		1
262	PD 9	NUT, 1/4"-28 thread, hexagon steel For governor control disc stud.	1		1		287	XA 67	For governor vane to shaft. SCREW, No. 4 x 1/4* long, self-tapping sheet metal	4		1
263	PD 77	NUT, 1/4*-20 thread, hexagon steel For breaker cover (S-8D).	1		1		288	XA 126	For name plate to shroud. SCREW, No. 8-32 thread x 1/2" long,			
264	PD 153-2	NUT, No. 8-32, hexagon steel For ground terminal stud.	2		1				plated pan head	3		ī
265	PD 239	NUT, 1/4"-20 thread square steel 1 - for governor lever clamp. 2 - far fuel tank straps.	3		1				1-for condenser mounting (5-8D). 1-for breather reed mounting. XA 80, XA 118 (5/16" lg.}, replaced by XA 126.			
267	PE 3	LOCKWASHER, 1/4" spring lock 6-far gear cover to crankcase. 2-for carburetor mounting. 5-for shrouding.	22		1		2 9 0	XD 6	SCREW, 1/4"-20 x 3/4" long, hex head 2-for mounting carburetor. 2-for mounting fuel pump.	4		1
		1-far governor control disc. 3-far stator plate. 2-for fuel pump mounting.	:				29 1	XB 82	SCREW, 1/4"-20 x 1" long, hex head. For coil-stator plate, or fan end bear- ing plate mounting.	3		1
269	PE 5	3-for starter sheave mounting. LOCKWASHER, 3/8" spring lock For mounting fuel tank bracket.	2		1		292	XD 150	SCREW, 1/4"-20 x 1-1/8" long, hex head For UC 203 A starting sheave mounting. XD 5 (5/8" long), for absolete UC 203.	3		1
270	PE 45	LOCKWASHER, No. 10, external For breaker box mounting (5-7D).	2		1		293	XD 9	XD 8 (1½" long) for obsolete UC 184 SCREW, ½"-20 x 1½" long, hex head	3		1
271	PE 114	SCREW LOCK, for connecting rod PE 46 5/16* ext. tooth lockwasher replaced by PE 114.	2		1	2	295	XD 25	For gear cover to crankcase. SCREW, 3/8" - 16 x 3/4" long, hex head For mounting fuel tank bracket.	2		1
272	PE 72	LOCKWASHER, No. 8 internal	ı		1		296	XD 158	SCREW, No. 10-32 thread x 1/2" long, indented hex head	2		1
273	PE 89	LOCKWASHER, No. 8 spring lock 1-for ground clip (\$-8D), 1-for breaker point bracket (\$-8D).	2		1		297	XK 2	XA 8, replaced by XD 158. PIPE PLUG, 1/4" square head For oil drain.	1		1
275	PH 27 A	PLAIN WASHER, 1/4" 1.D. x 9/16" O.D. For gov. lever clamp screw.	1		1							ı
276	PH 30 A	PLAIN WASHER, 1/4" steel	5		1							
277	PH 86 B	PLAIN WASHER, 11/64" I.D. x 3/8" O.D. For ground terminal stud.	1		1							
278	РН 209 В	PLAIN WASHER, 5/16" steel For cylinder head mounting. 8 required for (S-7D).	9		1							
279	PH 236	PLAIN WASHER, 11/64*1.D. x ½*0.D. For breaker point bracket (S-8D).	1 '		1							
281	XA 9	SCREW, No. 10-32 thread × 5/8" long, round head	2		ו						İ	
282	XA 34	SCREW, ¼"-20 x ½" long, hex. head 2-for flywheel shroud to crankcase. 2-for flywheel shroud to cylinder head. 1-for cylinder side shroud to crankcase	5		1							