Fuel Tanks By Engine Model

MODEL	DESCRIPTION	PART NO.
ACN, BKN	Round tank	WE112E
ACN, BKN	Rectangular tank	WE413S1
ADH, AEH, AFH	Rectangular tank	WE14K
ADH, AEH, AFH	Oblong tank (Obsolete)	WE371
AGH, AHH	Oblong tank (Obsolete)	WE371
AGH, AHH	Round tank	WE14K
AENL	Round tank	WE14K
AENL	Oblong tank	
AENL	Round tank (Repl. by WE425S1)	WE414S1
AENL	Round tank	WE425S1
AENL	Oblong tank	WE415S1
AGND	Oblong tank	WE417S1
MACND, MBKND	Rectangular tank	WE411B
MAENLD	Oblong tank	WE37H
MVG4D	Rectangular tank (NLA)	WE278DS1
S7D, S8D	Rectangular tank	WE413S1
S7D, S8D	Rectangular tank	WE413AS1
S10D, S12D, S14D	Oblong tank	WE415S1
TE, TF	Oblong tank	WE302
TF	Rectangular tank	WE187HS1
THD	Oblong tank	the state of the s
THD	Rectangular tank, underslung (Obsolete)	WE304
THD	Oblong tank	WE412S1
TJD	Oblong tank	WE260A
TJD	Rectangular tank	
TJD	Rectangular tank (Obsolete)	
TJD	Oblong tank	
TRA10D	Rectangular tank	WE413S1
TRA10D	Rectangular tank	WE413AS1
TRA12D	Rectangular tank	
TRA12D	Rectangular tank	
TRA12D	Oblong tank	
VE4D, VF4D	Rectangular tank, side mount	WE187S1
VE4D, VF4D	Rectangular tank, side mount	WE187ES1
VE4D, VF4D	Oblong tank	
VE4D, VF4D	Oblong tank, underslung	
VE4D, VF4D	Oblong tank, underslung	WE204A

Fuel Tanks By Engine Model (Cont.)

MODEL	DESCRIPTION	PART NO.
VG4D	Oblong tank	WE250
VG4D	Rectangular tank, underslung	WE277S1
VG4D	Rectangular tank, side mount,	
	(Repl. by WE427S1)	WE278\$1
VG4D	Rectangular tank	WE278GS1
VG4D	Rectangular tank, side mount	WE427S1
VH4D	Rectangular tank, side mount	WE187ES1
VH4D	Oblong tank	WE192
VH4D	Oblong tank, underslung	WE204
VH4D	Oblong tank, underslung	WE204A
VH4D	Rectangular tank	WE427S1
VH4D	Rectangular tank, side mount	WE187S1
V465D	Rectangular tank	WE427S1
V465D	Rectangular tank	WE278GS1
W2-880	Oblong tank	WE412S1
W4-1770	Rectangular tank, side mount	WE187S1
W4-1770	Rectangular tank, side mount	
W4-1770	Rectangular tank	WE427S1
W2-1230	Rectangular tank	WE187ES1
W2-1230	Rectangular tank	WE427S1
W2-1235	Oblong tank	WE412S1
W2-1235	Rectangular tank	WE187ES1
W2-1250	Rectangular tank	WE187E\$1
W2-1250	Rectangular tank	WE427S1

Fuel Tanks By Part Number

PART NO.	DESCRIPTION MODEL
WE14K	Round tankADH, AE, AEH, AFH, AGH, AHH, AENL
WE37F	Obround tankADH, AE, AEH, AFH, AGH, AHH, AENL
WE37H	Obround tankMAENLD
WE112E	Round tankACN, BKN
WE187S1	Rectangular tank, side mountVE4D, VF4D
WE187ES1	Rectangular tank, side mountVE4D, VF4D, VH4D
WE187H	Rectangular tankTF
WE192	Obround tankVF4D, VH4D
WE204	Obround tank, underslungVE4D, VF4D, VH4D
WE204A	Obround tank, underslungVE4D, VF4D, VH4D
WE250	Obround tankVG4D
WE260A	Obround tankTHD, TJD
WE277S1	Rectangular tank, underslungVG4D
WE278S1	Rectangular tank, side mount (replaced by WE427S1)VG4D
WE278DS1	Rectangular tankMVG4D
WE278GS1	Rectangular tankVG4D, V465D
WE278J	Rectangular tank
WE302	Obround tankTE, TF
WE304	Rectangular tankTHD
WE411B	Rectangular tank
WE412S1	Obround tankTHD, TJD, TH, W2-880
WE413S1	Rectangular tankS7D, S8D, TRA10D, ACN, BKN, TRA12D
WE413AS1	Rectangular tankS7D, S8D, TRA10D, ACN, BKN, TRA12D
WE414S1	Round tankAENLD
WE415S1	Obround tankS10D, S12D, S14D, TRA12D, AENL
WE417S1	Obround tank
WE425S1	Round tankAENL
WE427S1	Rectangular tankVG4D, W4-1770, VH4D V465D
WE187S1	Side mount-mountingVH4D, VE4, VF4, W4-1770
WE192	Engine house with
VA/E304C1	fuel tank at take-off endVE4D, VF4D, VH4D
WE204S1 WE250	Engine house with underslung fuel tankVE4D, VF4D, VH4D
WE304	Engine house with fuel tank
	Underslung fuel tank
WE412S1	MountingTHD, TJD, W2-880
WE427S1	Side mount fuel tankVG4D

Fuel Tank Information

PART NO.	SHAPE	CAPACITY GALLONS	NECK STYLE	LENGTH	WIDTH	HEIGHT	DIAM.	MODEL
WE14K	Round	1.35	1-3/4 diam. Bayonet	11"			6-5/32	ADH, AE, AEH, AFH, AGH, AHH, AENL
WE37F	Obround	2.75	1-3/4 diam. Bayonet	13"	6" .	10°		ADH, AE, AEH, AFH, ABH, AHH, AENL
WE37H	Obround	2.75	1-5/8 diam. Bayonet	1"	6"	10"	. :	MAENLD
WE112E	Round	1	1-3/4 diam Bayonet	10"		•	5-3/4	ACN, BĶN
WE187S1	Rectangular, side mount	6	2-9/32 diam. Bayonet	14-3/4"	11"	9"	-	VE4D, VF4D
WE187ES1	Rectangular, side mount	5.3	2-9/32 diam. Bayonet	13-3/8"	11"	9"		VE4D, VF4D, VH4D
WE187H	Rectangular	6	2-3/8 diam. Neck	14-3/4"	11"	9"	.*	TF
WE192	Obround	6	2-3/8 diam. Neck	21-1/2"	8-3/8"	10-1/8"		VF4D, VH4D
WE204	Obround, underslung	6	1-3/4 diam. Bayonet	19-1/4"	15-1/2"	6-1/4"		VE4D, VF4D, VH4D
WE204A	Obround underslung	6	1-3/4 diam. Bayonet	19-1/4"	15-1/2"	6-1/4"		VE4D, VF4D, VH4D
:WE250	Obround	9	2-3/8 diam. Neck	24"	9-1/2"	11" ·		VG4D
WE260A	Obround	4	2-3/8 diam. Neck	9-1/16"	8-3/16"	7-7/8°		TJD, THD
WE277S1	Rectangular, underslung	9 '	1-3/4 diam. Bayonet	22"	16"	6-1/4"		VG4D
WE278S1	Rectangular	9	2-1/4 diam. Bayonet	16"	15"	. 9-1/2"		VG4D
	Rectangular Rectangular	9 . 15	4-21/32 diam. 2-1/4" diam.	16" 26"	15" . 15"	9-1/2" 9-1/2"		MVG4D VG4D, V465D
WE278J	Rectangular	9	Bayonet 2-3/8" diam.	16"	15"	9-1/2"		TJD
WE412	Obround	3.4	Neck 2-7/8 diam.	13"	10-1/16"			TE, TF
(replaces WE302)	B I		Neck					TUC
WE304 WE411B	Rectangular Rectangular	1	1-5/8 diam. Neck	10-1/4"	5-5/16"	4-7/16"		THD MACND, MBKND
WE412S1	Obround	3.4	2-1/4 diam. neck	11-1/2"	6-9/16"	13-1/16"		THD, TJD, TH, W2-880
WE413S1	Rectangular	1	Screw 1-3/4"-6	10-1/4"	5-5/16"	4-7/16"	. *	S7D, S8D, TRA10D, ACN, BKN, TRA12D
WE413AS1	Rectangular	1 .	Screw 1-3/4"-6	10-1/4"	5-5/16"	4-7/16"		S7D, S8D, TRA10D, ACN, BKN, TRA12D
WE414S1	Round	1.7	Screw, 1-3/4"-6	12"			6-1/2	AENLD
WE415S1	Obround	1.5	Screw, 1-3/4"-6	10-7/8"	5-15/32"	6-15/32"		S10D, S12D, S14D, TRA12D, AENL
WE417S1	Obround	2.4	Screw, 1-3/4"-6	13"	6"	8-1/2"		AGND
WE425S1	Round	1.7	Screw, 1-3/4"-6	12"		٠.	6-1/2	AENL
WE427\$1	Rectangular	8.5	2-1/4 diam. Neck	24"	9-1/2"	11" ¹		VG4D, W4-1770, VH4D, V465D

Non-Leaded Gasoline

There have been lead compounds added to gasoline for many years. This was a relatively inexpensive method to increase the octane rating of gasoline.

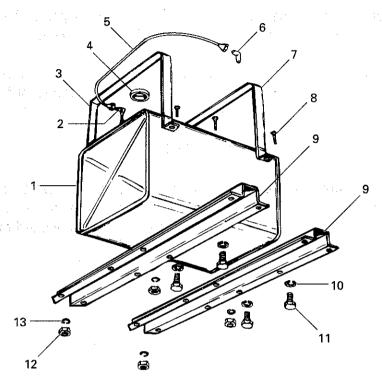
The non-leaded gasoline that is now available can be used in Wis-Con Total Power engines. The octane rating of non-leaded gasoline must be equal to or higher than specified in the engine owner's manual if it is to be used.

CAUTION:

Engines previously operated on leaded fuel must have the combustion chamber cleaned prior to switching to non-leaded fuels. Severe damage to the engine could result if this procedure is not followed. New engines may be operated on non-leaded gasoline satisfactorily.

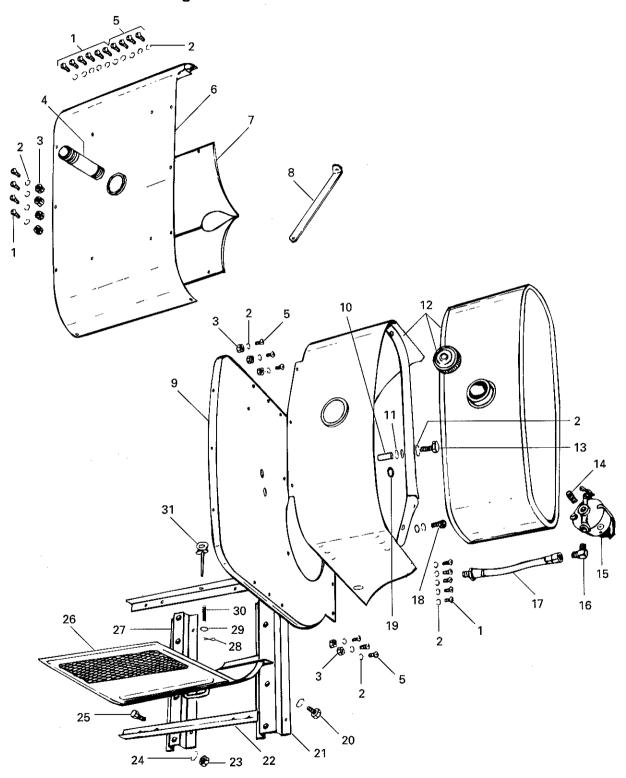
WE187S1, WE187ES1 Side Mount Fuel Tanks

USE WITH MODELS VH4D, W4-1770, VE4, VF4



ITEN	1 PART NO.	DESCRIPTION QTY
1	WE187S1	Fuel tank,
		6 gallon capacity1
	WE187ES1	Fuel tank (optional)
		(includes 2, 4)11
2	RM1206B	Suction tube assembly1
3	PH244A	Felt2
4	RC77	Cap1
5	RM1161	Fuel line, 22-1/2" long1
	RM822	Fuel line, 26-1/2" long,
		electric starter engines1
6	RF1225	Elbow1
7	PG321	Strap2
8	XD27	Screw,
		3/8"-16 thread x 1" long 4
9	WE188	Engine support2
_	WE188D	Engine support,
		electric starter engines2
10	PE7	Lock washer, 1/2"4
11	XD41	Screw,
		1/2"-13 thread x 1" long4
12	PD79	Nut, 3/8"-16 thread4
13	PE5	Lock washer, 3/8"4

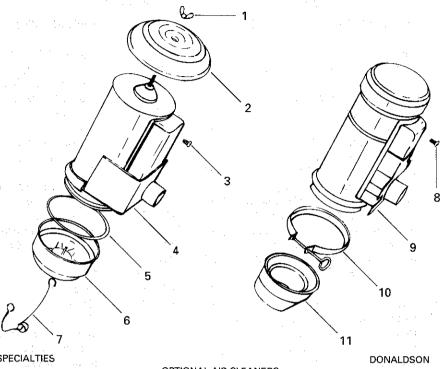
WE192 Engine House With Fuel Tank At Take-Off End



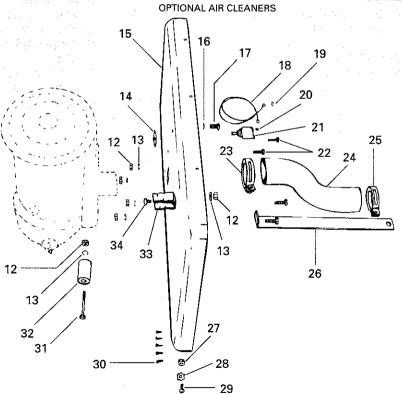
USE WITH MODELS VE4D, VF4D (see pg. 2)

ITEN	1 PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
1	XA33	Screw,	14	RF794	Nipple, 1/8" x 3/4" long1
		1/4"-20 thread x 3/8" long 16	15	LP19	Fuel strainer,
2	PE3	Lock washer, 1/4"31			Tillotson no, OW418T1
3	PD77	Nut, 1/4"-20 thread15	16	RF1225	Elbow (replaces RF270)1
4	LJ188	Nipple, 1-1/4" x 6" long1	17	RM1049A	Fuel line1
5	XA35	Screw,	18	XD7	Screw,
		1/4"-20 thread x 5/8" long 11		•	1/4"-20 thread x 1" long1
6	WE198A1	Canopy (beginning with	19	PH198	Grommet1
		engine serial no. 84249)1	20	XD41	Screw,
	WE198	Canopy (to and including			1/2"-13 thread x 1" long 4
		engine serial no. 84248) (NLA)	21	WE193A	Engine support, take-off end 1
		(use WE198A2 with WE218-1	22	WE195	Side rails2
		partition plate)1	23	PD79	Nut, 3/8"-16 thread 4
7	WE218	Partition plate (beginning	24	PE5	Lockwasher, 3/8" 4
		with engine serial no. 84249) 1	25	XD25	Screw,
_	WE200	Partition plate			3/8"-16 thread x 3/4" long 4
		(to and including	26	WE196	House doors, standard2
		engine serial no. 84248)1		WE196F	House doors, bumped out to
8	PG401	House brace1			clear distributor for units with
9	WE199A	Rear panel1			generator and distributor on
10	HF380	Spacer1			left hand side of engine
11	PH196	Washer,			(replaces WE196A)1
		1/4" I.D. x 1/16" thick3	27	WE194A	Engine support,
12	WE192	Fuel tank assembly			flywheel end1
		(includes WE192-9, RC77	28	XI23	Cotter pin, 1/8" x 3/4" long2
		[RC92, RC92-1 for	29	PH2	Washer,
		screw type flange])1			7/16" I.D. x 1/16" thick2
_	WE192-4	Tank (includes cap)1	30	PM137	Door clip spring2
13	XD120	Screw,	31	PG323AS1	Door clip2
		1/4"-20 thread x 3-1/4" long 1			

WE192 Engine House With Fuel Tank At Take-Off End

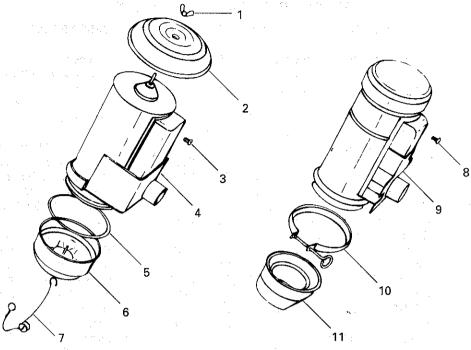


UNITED SPECIALTIES



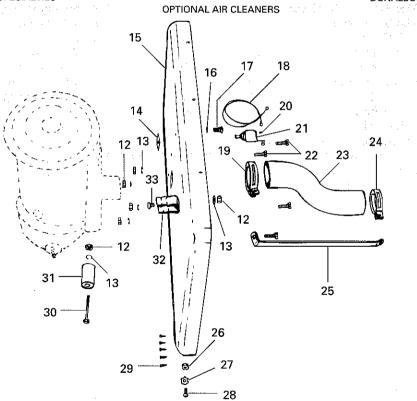
USE WITH MODELS VE4D, VF4D (see pg. 4)

ITEM	PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
_	LO66S1	Air cleaner, United Specialties no. CT50-10505 (obsolete)	16	PH77A	Washer, 5/16" I.D. x 1/16" thick1
		(for complete replacement use LO158S2)	17		Screw, 5/16"-18 thread x 1/2" long1
		(includes item 17)1	18	YL352-21	Ignition wire
1	A1317	Wing nut1]		(replaces YL181)1
2	A10713	Top cap and screw	19	PD152	Nut, no. 6-32 thread1
		assembly1	20	PE72	Lock washer1
3	A10962	Screw1	21	YC9FS1	Ground switch assembly
4	C10724	Body assembly (less fittings) 1			(includes 14, 20)
5	A9986	Gasket1			(replaces YC9A, YC9C)1
6	A10141	Oil cup and baffle assembly 1	22	XD6	Screw,
7	B9982	Roller and bail assembly1			1/4"-20 thread x 3/4" long 4
_	LO158S2	Air cleaner, 4-3/8" diameter,	23	LK8	Hose clamp, 2-1/8" I.D1
		Donaldson no. FGA04-2512	24	LL64	Rubber elbow1
		(includes item 17)1	25	LK11	Hose clamp, 1-7/8" I.D1
8		Support screw,	26	PG402	House brace, flywheel end1
		5/16"-18 thread x 1/2" long 1	27	PD115	Nut, no. 10-32 thread2
9 *	⁺ LO97	Body assembly (order	28	PE45	Lock washer, no. 102
		complete air filter) (replaced	29	XA8	Screw,
		by and interchangeable with			no. 10-32 thread x 1/2" long 2
		LO158S2) (P10498 oil cup	30	XA65	Self-tapping screw,
		assembly must be used			no. 8 x 1/2" long5
		on LO97 for service)1	31	XD11	Screw,
10	P9595	Clamp assembly1			1/4"-20 thread x 2" long1
11	P14889	Outer oil cup1	32	HF387	Crank mounting spacer (used
	P15463	Inner oil cup (not illustrated)1			only with LO66 air cleaner) 1
12	PD77	Nut, 1/4"-20 thread15	33	PK87	Crank mounting spring clip1
13	PE3	Lock washer, 1/4"31	34	XA34	Screw,
14	SD109	Ignition switch tag1	}		1/4"-20 thread x 1/2" long9
15	WE197	Front panel, standard1		_: _:	
_	WE197-2	Front panel, with additional	* Not	serviced sep	arately.
		holes for switch and ammeter			•
		for electric starting units 1			



UNITED SPECIALTIES

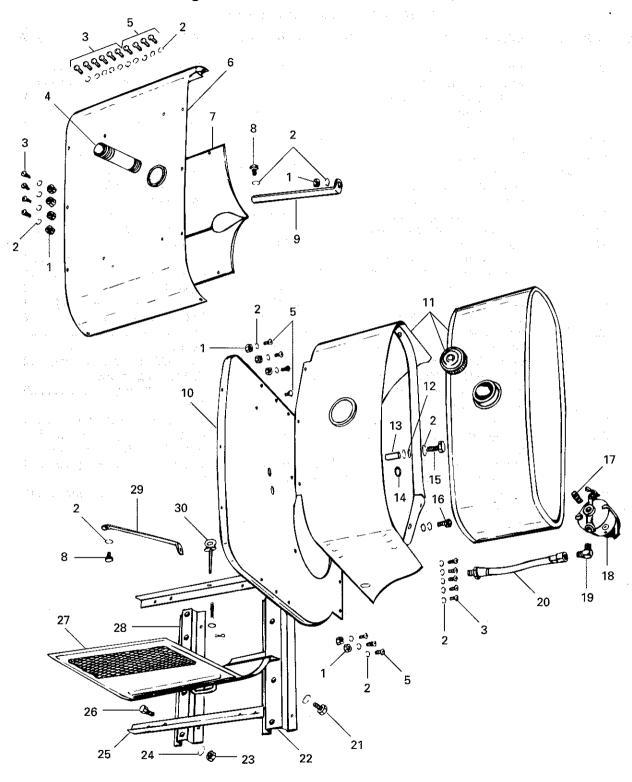
DONALDSON



USE WITH MODELS VH4, VH4D (see pg. 6)

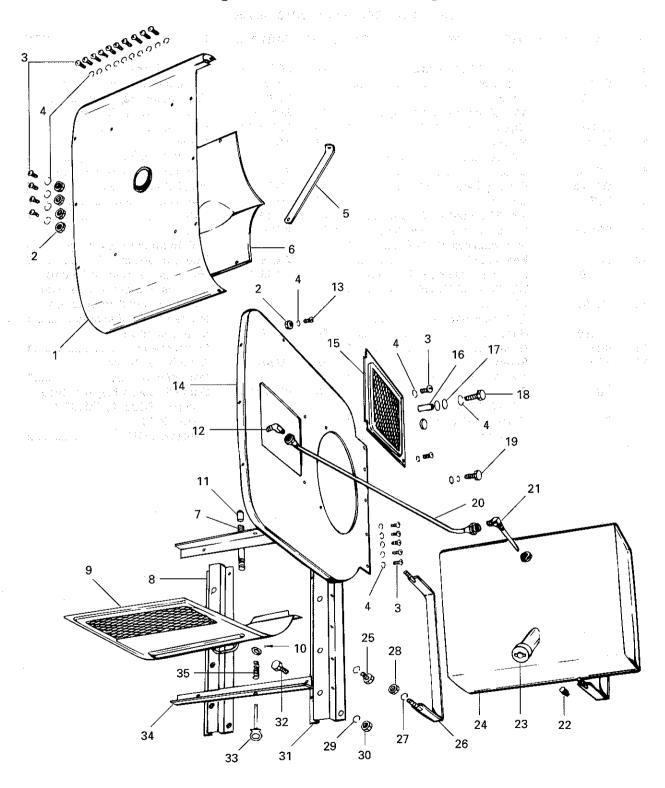
ITEM PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
— LO123S1	Air cleaner, United Specialties no. 47D1 (obsolete) (for complete	_	WE197-2	Front panel, with additional holes for switch and ammeter
	replacement use LO158S2)	16	PH77A	for electric starting units 1 Washer,
	(includes item 17)1			5/16" I.D. x 1/16" thick 1
1 81A1317	Wing nut1	17		Screw.
2 81A10713	Top cap assembly1			5/16"-18 thread x 1/2" long 1
3 81A10962	Screw	18	YL352-21	Ignition wire1
	5/16"-18 thread x 1/2" long 1	19	LK8	Hose clamp, 2-1/8" I.D1
4	Body assembly1	20	PE72	Lock washer1
5 81A9986	Gasket 1	21	YC9FS1	Ignition switch assembly
6 81-335B1	Oil cup and baffle assembly 1			(includes 14, 20)1
7 81B9982	Roller and bail assembly 1	22	XD6	Screw,
— LO158S2	Air cleaner, 4-3/8" diameter,			1/4"-20 thread x 3/4" long 4
	Donaldson no. FGA04-2512	23	LL64	Rubber elbow1
	(includes item 17)1	24	LK10	Hose clamp, 2" I.D1
8 ———	Support screw,	25	PG799	House brace, flywheel end1
	5/16"-18 thread x 1/2" long 1	26	PD115	Nut, no. 10-32 thread2
9 * LO120S1	Body assembly (order	27	PE45	Lock washer, no. 102
	complete air filter) (replaced	28	XA8	Screw,
*	by and interchangeable with			no. 10-32 thread x 1/2" long 2
	LO158S) (22P10498 oil cup	29	XA65	Self-tapping screw,
	assembly [replaces P16457]			no. 8 x 1/2" long5
	must be used on LO120S1	30	XD11	Screw,
	for service)1			1/4"-20 thread x 2" long 1
10 22P9595	Clamp assembly1	31	HF387	Crank mounting spacer (used
11 22P14889	Outer oil cup1			only with LO123 air cleaner) 1
— 22P15463	Inner oil cup (not illustrated) 1	32	PK87	Crank mounting spring clip 1
12 PD77	Nut, 1/4"-20 thread16	33	XA34	Screw,
13 PE3	Lock washer, 1/4"34		. :	1/4"-20 thread x 1/2" long 11
14 SD109	Ignition switch tag1			
15 WE197	Front panel, standard1	* No	t serviced sep	arately.

WE192 Engine House With Fuel Tank At Take-Off End



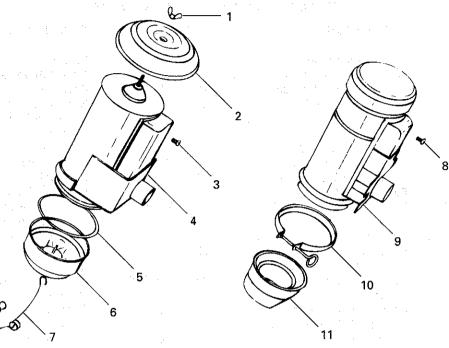
USE WITH MODELS VH4, VH4D (see pg. 8)

ITEN	I PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
1	PD77	Nut, 1/4"-20 thread 16	_	LQ31	Fuel strainer repair kit1
2	PE3	Lock washer, 1/4"34		LP19	Large fuel strainer (optional) 1
3	XA33	Screw,	_	LQ32	Fuel strainer repair kit1
		1/4"-20 thread x 3/8" long 16	1 9	RF1225	Elbow (replaces RF270)1
4	LJ175	Nipple, 1-1/4" x 8" long 1	20	RM1049A	Fuel line1
5	XA34	Screw,	21	XD41	Screw,
		1/4"-20 thread x 1/2" long 11			1/2"-13 thread x 1" long4
6	WE346	Canopy 1	22	WE193A	Engine support, take-off end1
7	WE345	Canopy partition plate1	23	PD79	Nut, 3/8"-16 thread4
8	XD4	Screw,	24	PE5	Lock washer, 3/8"4
		1/4"-20 thread x 1/2" long2	25	WE195	Side rails2
9	PG816	Left side house brace, take-off	26	XD25	Screw,
		end (replaces PG800)1		•	3/8"-16 thread x 3/4" long 4
10	WE199A	Rear panel1	27	WE196	House doors, standard2
11	WE192	Fuel tank assembly (includes	_	WE196F	House doors, bumped out to
		WE192-9, RC77, WE192-4) 1			clear distributor for units with
12	PH196	Washer,			generator and distributor on
		1/4" l.D. x 1/16" thick3			left hand side of engine1
13	HF380	Spacer 1	28	WE194A	Engine support,
14	PH198	Grommet1			flywheel end1
15	XD120	Screw,	29	PG801	Right house brace,
	VDZ	1/4"-20 thread x 3-1/4" long 1			take-off end1
16	XD7	Screw,	30	PG323AS1	Door clip assembly, wire type
47	DE704	1/4"-20 thread x 1" long 1			(includes PG323A, PM137-1,
17	RF794	Nipple, 1/8" x 3/4" long 1			PH196, XI16)
18	LP43	Small fuel strainer1			(replaces PG323)2

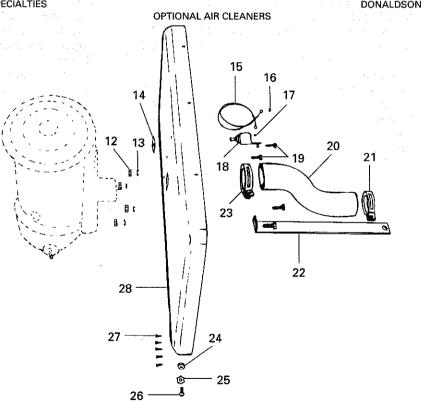


USE WITH MODELS VE4D, VF4D (see pg. 10)

ITEN	I PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
1	WE198A1	Canopy (beginning with engine serial no. 84249)1	19	XD7	Screw, 1/4"-20 thread x 1" long1
_	WE198	Canopy (to and including	20	RM900	Fuel line1
	,	engine serial no. 84248)1	21	RM1206C	Suction tube assembly1
2	PD77	Nut, 1/4"-20 thread9	_	RF270	Ebow (for fuel tanks with
3	XA33	Screw,		= / -	built-in suction tube)1
_		1/4"-20 thread x 3/8" long 21	22	XK1	Plug, 1/8" square1
4	PE3	Lock washer, 1/4"26	23	RC87	Fuel tank cap1
5	PG401	House brace, take-off end 1	24	WE204S1	Fuel tank
6	WE218	Partition plate1			(includes RC87, RM1206C)1
7	RE1086A	Nipple (replaces RF1086)1	l —	WE204AS1	Fuel tank (filler neck relocated
8	WE203	Engine support,			for units with electric starter
		flywheel end1			and generator)1
9	WE209	House door2	25	XD41	Screw,
	WE209E	House door, bumped out to	·		1/2"-13 thread x 1" long 4
		clear distributor for units with	26	PG329B	Strap (for fuel tank with
		generator and distributor on			2" corner radius)2
		left hand side of engine	 —	PG329A	Strap (for fuel tank with
		(replaces WE209A)1			1-1/8" corner radius)2
10	XI23	Cotter pin,	27	PE4	Lock washer, 5/16"4
		1/8" x 3/4" long2	28	PD78	Nut, 5/16"-18 thread4
11	RF937	Coupling, 3/8"1	29	PE5	Lock washer, 3/8"4
12	RF1225	Elbow (replaces RF320-3) 1	30	PD79	Nut, 3/8"-16 thread4
13	XA34	Screw,	31	WE202A	Engine support, take-off end 1
		1/4"-20 thread x 1/2" long 1	32	XD25	Screw,
14	WE207A	Rear panel1			3/8"-16 thread x 3/4" long 4
15	WE211	Rear panel cover1	33	PG323A	Door clip2
16	HF380	Spacer 1	34	WE208	Side rail2
17	PH196	Washer,	35	PM137	Door clip spring2
		1/4" I.D. x 1/16" thick3			
18	XD120	Screw,			
		1/4"-20 thread x 3-1/4" long 1		•	

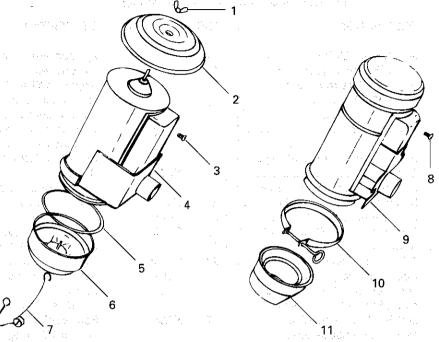


UNITED SPECIALTIES



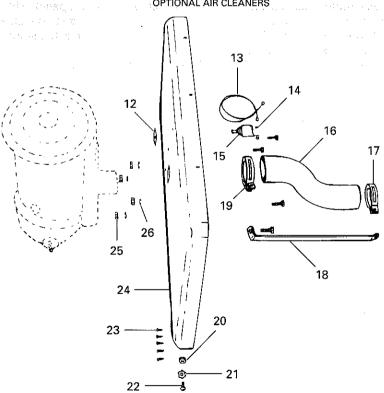
USE WITH MODELS VE4D, VF4D (see pg. 12)

ITEN	M PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
	LO66S1	Air cleaner, United Specialties no. CT50-10505 (obsolete) (for complete replacement	14 15	SD109 YL352-21	Ignition switch tag1 Ground wire (replaces YL181)1
		use LO158S2)1	16	PD152	Nut, no. 6-32 thread1
1	A1317	Wing nut1	17	PE72	Lock washer1
2	A10713	Top cap assembly1	18	YC9FS1	Ground switch assembly
3	A10962	Screw1			(includes 14, 17)
4	C10724	Body assembly (less fittings) 1			(replaces YC9A, YC9C)1
5	A9986	Gasket1	19	XD6	Screw,
6	A10141	Oil cup and baffle assembly 1			1/4"-20 thread x 3/4" long 4
7	B9982	Roller and bail assembly1	20	LL64	Rubber elbow1
	LO158S2	Air cleaner, 4-3/8" diameter,	21	LK11	Hose clamp, 1-7/8" I.D1
		Donaldson no. FGA04-2512 1	22	PG402	House brace, flywheel end 1
8		Support screw,	23	LK8	Hose clamp, 2-1/8" I.D1
		5/16"-18 thread x 1/2" long 1	24	PD115	Nut, no. 10-32 thread2
9	* LO97	Body assembly (order	25	PE45	Lock washer, no. 102
		complete air filter) (replaced	26	XA8	Screw,
		by and interchangeable with			no. 10-32 thread x 1/2" long 2
		LO158S2) (P10498 oil cup	27	XA65	Self-tapping screw,
		assembly must be used			no. 8 x 1/2" long5
		on LO97 for service)1	28	WE206	Front panel, standard1
10	P9595	Clamp assembly1	—	WE206-6	Front panel, with additional
11	P14889	Outer oil cup1		•	holes for switch and ammeter
_	P15463	Inner oil cup (not illustrated) 1			for electric starting units1
12	PD77	Nut, 1/4"-20 thread9			
13	PE3	Lock washer, 1/4"26	* Not	t serviced sepa	arately.



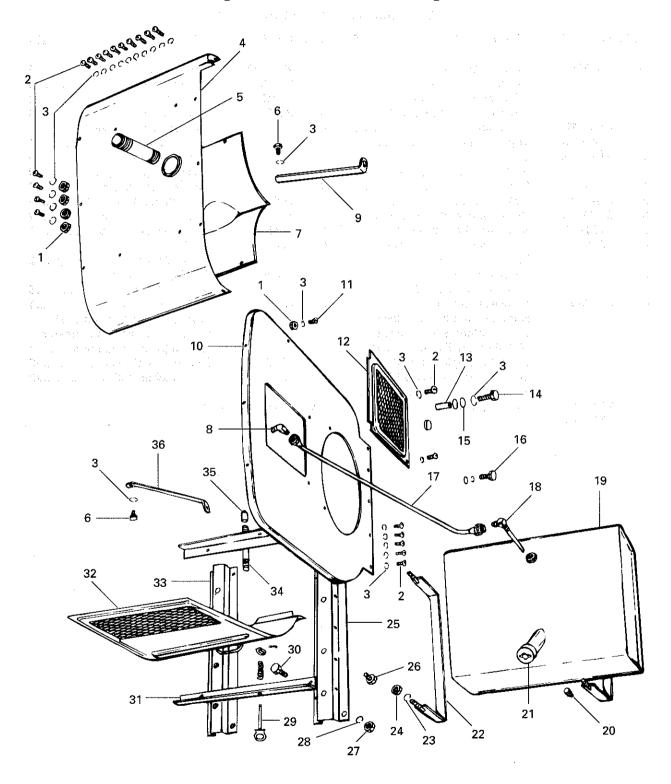
UNITED SPECIALTIES

OPTIONAL AIR CLEANERS



USE WITH MODELS VH4, VH4D (see pg. 14)

ITE	M PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
_	LO123S1	Air cleaner, United Specialties no. 47D1 (obsolete) (for complete	12 13	22P15463 SD109 YL352-21	Inner oil cup (not illustrated)1 Ignition switch tag1 Ignition wire1
1	81A1317	replacement use LO158S2) 1	1	PE72	Lock washer1
2	81A10713	Wing nut1 Top cap assembly1	15	YC9FS1	Ignition switch assembly (includes 12, 14)1
3	81A10962	Screw	16	LL64	Rubber elbow1
		5/16"-18 thread x 1/2" long 1	17	LK10	Hose clamp, 2" I.D 1
4		Body assembly1	18	PG799	House brace, flywheel end 1
5	81A9986	Gasket 1	19	LK8	Hose clamp, 2-1/8" I.D1
6	81-335B1	Oil cup and baffle assembly 1	20	PD115	Nut, no. 10-32 thread2
7	81B9982	Roller and bail assembly 1	21	PE45	Lock washer, no. 102
_	LO158S2	Air cleaner, 4-3/8" diameter,	22	XA8	Screw,
		Donaldson no. FGA04-2512 1		*.	no. 10-32 thread x 1/2" long 2
8		Support screw,	23	XA65	Self-tapping screw,
_		5/16"-18 thread x 1/2" long 1		•	no. 8 x 1/2" long5
9	* LO120S1	Body assembly (order	24	WE206	Front panel, standard1
		complete air filter) (replaced	—	WE206-6	Front panel, with additional
		by and interchangeable with		•	holes for switch and ammeter
		LO158S2) (22 P10498 oil cup			for electric starting units 1
		assembly [replaces P16457]	25	PD77	Nut, 1/4"-20 thread10
		must be used on LO120S1	26	PE3	Lock washer, 1/4"29
		for service)1		•	
10	22P9595	Clamp assembly1	* No	t serviced sep	arately.
11	22P14889	Outer oil cup1	1.		

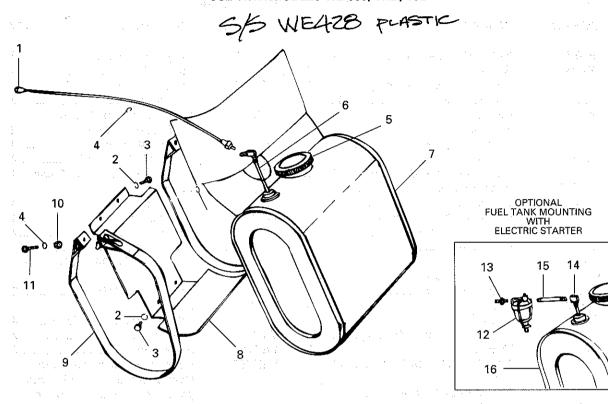


USE WITH MODELS VH4, VH4D (see pg. 16)

ITEN	/ PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
1	PD77	Nut, 1/4"-20 thread10	20	XK1	Plug, 1/8" square1
2	XA33	Screw,	21	RC87	Fuel tank cap1
		1/4"-20 thread x 3/8" long 21	22	PG329B	Strap, for fuel tank with
3	PE3	Lock washer, 1/4"29		•	2" corner radius2
4	WE346	Canopy1		PG329A	Strap, for fuel tank with
5	LJ279	Pipe nipple,			1-1/8" corner radius2
		1-1/4" x 3-1/2" W.l 1	23	PE4	Lock washer, 5/16" 4
6	XD4	Screw,	24	PD78	Nut, 5/16"-18 thread 4
		1/4"-20 thread x 1/2" long 2	25	WE202A	Engine support, take-off end 1
7	WE345	Partition plate1	26	XD41	Screw.
8	RF1225	Elbow1			1/2"-13 thread x 1" long 4
9	PG816	Left house brace, take-off	27	PD79	Nut, 3/8"-16 thread4
	**	end (replaces PG800)1	28	PE5	Lock washer, 3/8"4
10	WE207A	Rear panel1	29	PG323AS1	Door clip assembly, wire type
11	XA34	Screw,	-		(includes PG323A, PM137-1,
		1/4"-20 thread x 1/2" long 2		100	PH196, XI16)
12	WE211	Rear panel cover1			(replaces PG323)2
13	HF380	Spacer 1	30	XD25	Screw,
14	XD120	Screw,		*	3/8"-16 thread x 3/4" long 4
		1/4"-20 thread x 3-1/4" long 1	31	WE208	Side rail2
15	PH196	Washer,	32	WE209	House door2
		1/4" I.D. x 1/16" thick	<u> </u>	WE209E	House door, bumped out to
16	XD7	Screw,			clear distributor for units with
•		1/4"-20 thread x 1" long1			generator and distributor on
17	RM900	Fuel line1			left hand side of engine1
18	RM1206C	Suction tube assembly1	33	WE203	Engine support,
19	WE204S1	Fuel tank			flywheel end1
3		(includes RC87, RM1206C)1	34	RF1086A	Nipple1
	WE204AS1	Fuel tank (filler neck relocated	35	RF937	Coupling, 3/8" 1
		for units with electric starter	36	PG801	Right house brace,
	era de la companya della companya de	and generator)1		L	take-off end1
	Markette Allendaries				favoring the second section is
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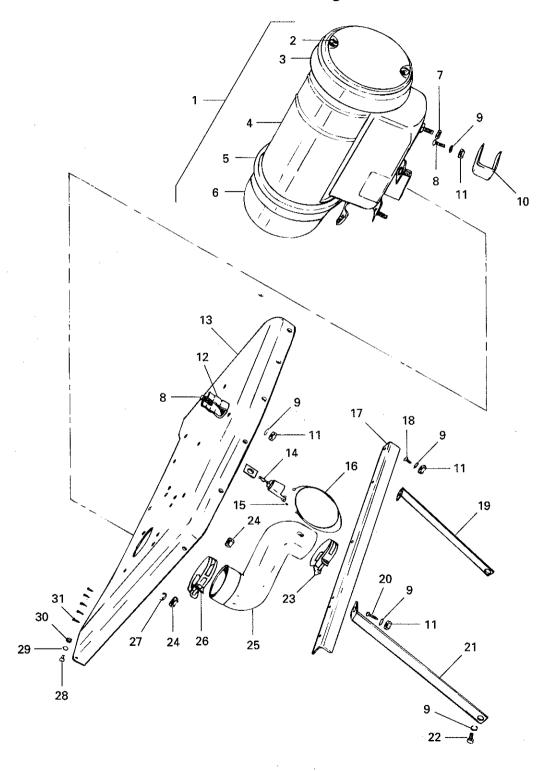
WE412S1, WE412S2 Fuel Tank Group

USE WITH MODELS W2-880, THD, TJD



ITEM	I PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
1	RM477	Fuel line, 18" long,	11	XA52	Screw,
<u>.</u>	RM892	standard (includes nuts)1 Fuel line, 22" long	12	LP19B	1/4"-20 thread x 1-1/2" long2 Large fuel strainer (obsolete)
_		(use with starting motor and side mount tank)1			(electric starter engines, mounted to tank)1
2 3	PE4 XD13	Lock washer, 5/16"4 Screw, 5/16"-18 thread x	_	LQ32	Repair kit, LP19B (includes bowl, gasket, screen)
_	XD15	1/2" long (for bracket BK79A) 3 Screw, 5/16"-18 thread x	13	RF269	Straight fitting, 1" fuel strainer (when mounted to tank)
4	PE3	3/4" long (for bracket BK80)3 Lock washer, 1/4"2	14	RM1211	Suction tube (obsolete) (for electric starter engines
5 6	RC112 RM1206	Fuel tank cap1 Suction tube1			and fuel strainer mounted to tank)1
7	WE412S1	Fuel tank assembly	15	RF948	Pipe nipple, 1/8"x 3" long1
8	BK79A	(includes 5,6)1 Bracket, standard1	16	WE412S2	Tank assembly (includes RM1211, for engines with
9	BK80 PG488	Bracket (for starting motor) 1 Fuel tank strap2			electric starter and fuel strainer mounted to tank)1
10	PD77	Nut, 1/4"-20 thread2			

WE250 Engine House With Fuel Tank At Take-Off End Or WE277 Underslung Fuel Tank

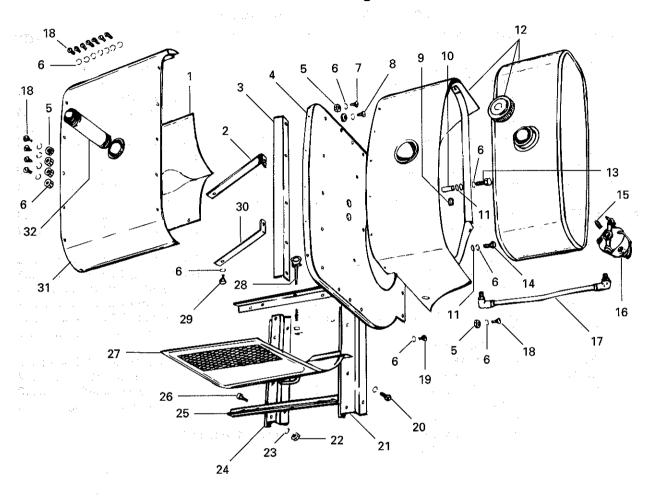


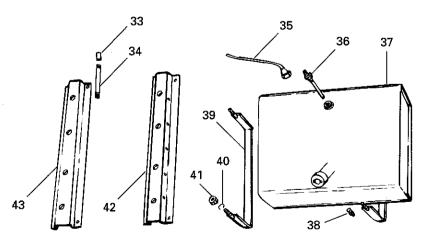
WE250 Engine House With Fuel Tank At Take-off End Or WE277 Underslung Fuel Tank

USE WITH MODEL VG4D (see pg. 19)

ITEM	PART NO.	DESCRIPTION Q	ΓΥ ITEM	PART NO.	DESCRIPTION QTY
1	LO160S1	Air cleaner, Donaldson no. FGA05-2523 (service parts include 2-6) (replaces LO89S1,		YC9FS1	Ground switch assembly (includes item 15; includes SD109)1
		Donaldson no. A5521 and	15	PE72	Lock washer1
		FCA06-5210)	. 16	YL352-23	Magneto ground wire1
		(interchangeable)	.1 17	PH525	Angle1
2	22P2274	Wing nut	.2 18	XA35	Screw,
3	22P8730	Hood assembly	.1		1/4"-20 thread x 5/8" long6
4 *		Body assembly	19	PG521	Brace, magneto side1
:		(order complete air cleaner)		XA36	Screw,
5	22P2706	Retaining clamp assembly			1/4"-20 thread x 3/4" long 4
6	22P10-2793	Outer oil cup		PG522	Brace, right hand side1
- 	22P17242	Inner oil cup	.1 22	XD5	Screw,
<u> </u>	SD161	Instruction decal	.1		1/4"-20 thread x 5/8" long 2
	22P8733	Oil cup assembly (must be	23	LK24	Hose clamp, 2-1/4" I.D1
		used on LO89S1 for service)	.1 24	PD78	Nut, 5/16"-18 thread9
7	PH77A	Washer,	25	LL88A	Rubber elbow1
	•	5/6" I.D. x 1/16" thick	.1 26	LK9	Hose clamp, 2-3/8" I.D 1
8	XA34	Screw,	- 27	PE4	Lock washer, 5/16"9
		1/4"-20 thread x 1/2" long		XA8	Screw,
9	PE3	Lock washer, 1/4"			no. 10-32 thread x 1/2" long 2
10	PG491	Starting crank bracket	.1 29	PE45	Lock washer, no. 102
11	PD77	Nut, 1/4"-20 thread		PD115	Nut, no. 10-32 thread2
12	PK87	Crank mounting clip		XA65	Screw, no. 8 x 1/2" long5
13	WE248	Front panel, standard	.1		•
	WE248-3	Front panel, with additional	* No	t serviced sepai	rately.
		holes for switch and ammeter			
		for electrical units	.1		

WE250 Engine House With Fuel Tank At Take-Off End Or WE277 Underslung Fuel Tank



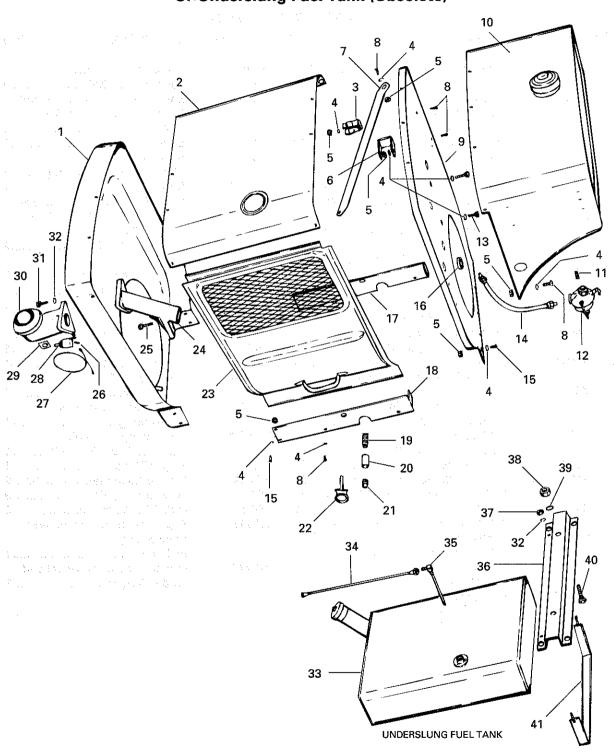


WE250 Engine House With Fuel Tank At Take-Off End Or WE277 Underslung Fuel Tank

USE WITH MODEL VG4D (see pg. 21)

		OOL WITH MODEL	VOTD	(see pg. 21)	
ITEM	PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
1	WE249A	Heat deflector1	22	PD79	Nut, 3/8"-16 thread4
2	PG523	Rear panel brace, left side 1	23	PE5	Lock washer, 3/8"4
3	PG526	Angle1	24	WE254	Engine support, flywheel end
4	WE251A	Rear panel for unit with	~ -	*****	(for units with fuel tank at
		tank at take-off end1			
	WE251A2	Rear panel, with hole to clear	25	WE255	take-off end)1
	110201/12	fuel pump for units with	26	XD25	Side rail2
		underslung fuel tank1	20	AD25	Screw,
5	PD77	Nut, 1/4"-20 thread24	27	WE252	3/8"-16 thread x 3/4" long 4
6	PE3				Door2
7	XA35	Lock washer, 1/4" 48	28	PG323AS1	Door clip assembly, wire type
, .	VW35	Screw,			(includes PG323A, PM137-1,
8	V400	1/4"-20 thread x 5/8" long6			PH196, XI16)
0	XA36	Screw,			(replaces PG323)2
^	DUMOO	1/4"-20 thread x 3/4" long 4	29	XD5	Screw,
9	PH198	Grommet1			1/4"-20 thread x 5/8" long2
10	HF380	Spacer1	- 30	PG524	Rear panel brace, right1
11	PH196	Washer,	31	WE247A	Canopy1
	· · · · · · · · · · · · · · · · · · ·	1/4" I.D. x 1/16" thick3	32	LJ337	Pipe nipple,
12	WE250	Fuel tank assembly,			1-1/2" x 9-1/4" long1
		(includes RC77, WE250-1)1	33	XK117	Coupling, 1/2" W.I 1
13	XD145	Screw,	34	LJ295	Pipe nipple, 1/2" x 4" long 1
	-	1/4"-20 thread x 3-1/2" long 1	35	RM450	Fuel line, 20-3/4" long
14	XD7	Screw,			(underslung tank)1
		1/4"-20 thread x 1" long 1	36	RM1209	Suction tube assembly
15	RF794	Nipple, 1/8" x 3/4" long1			(underslung tank)1
16	LP19	Fuel strainer,	37	WE277S1	Underslung fuel tank
		Tillotson no. OW4181			(includes RC87, RM1209)1
_	LQ32	Fuel strainer repair kit1	38	XK1	Plug, 1/8" square1
17	RM1049GS1	Fuel line, 23" long (includes	39	PG454	Tank strap (underslung tank) 2
		RF1225) (replaces RM1202A) 1	40	PE4	Lock washer, 5/16"9
18	XA34	Screw,	41	PD78	Nut, 5/16"-18 thread9
		1/4"-20 thread x 1/2" long 29	42	WE275	Engine support, take-off end
19	XA33	Screw,	-		(underslung
		1/4"-20 thread x 3/8" long5			fuel tank)1
20	XD51	Screw,	43	WE276	Engine support, flywheel end
	4.	5/8"-11 thread x 1-1/4" long 4			(underslung tank)1
21	WE253	Engine support, take-off end			(anderstong tank/
		(for units with fuel tank at			
		take-off end)1			
		Tana on one, minimum I			

WE304 Power Unit With Fuel Tank At Take-Off End Or Underslung Fuel Tank (Obsolete)

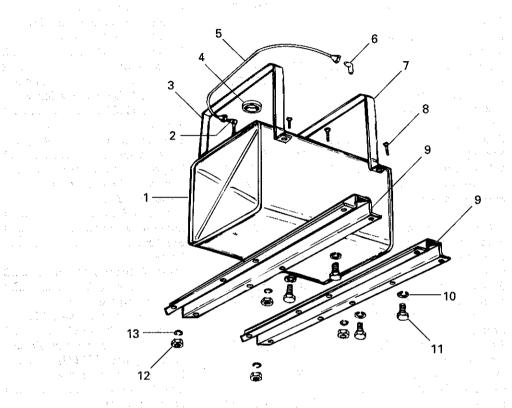


WE304 Power Unit With Fuel Tank At Take-Off End Or Underslung Fuel Tank (Obsolete)

USE WITH MODELS TH, THD, TJD (see pg. 23)

ITEN	1 PART NO.	DESCRIPTION QTY	ITEM	I PART NO.	DESCRIPTION	QTY	,
1	WE299 WE299-1	Front panel, standard1 Front panel, with holes for switch and ammeter for electrical unit	22	PG323AS1	Door clip asser wire type (inclu PM137-1, PH19	ides PG323A, 6, XI16)	
2	WE257A	Canopy1	23	WE262		3-1)2 2	
3	PK87	Clip1	24	B1-292S1		nection assem-	
4	PE3	Lock washer, 1/4"34			bly, TH, THD (ii		
5	PD77	Nut, 1/4"-20 thread16			SA52, LO84C).		
6	PG491	Bracket1	25	XD19	Screw,		
7	PG528	Brace1			5/16"-18 thread	x 1-1/4" long 1	
8	XA34	Screw,	26	PE72	Lock washer		
		1/4"-20 thread x 1/2" long 27	27	YL352-16	Magneto grour	nd wire1	
9 .	WE261A	Rear panel1	28	YC9FS1	Ground switch	assembly	
10	WE260A	Fuel tank assembly,		4	(includes 26, 29		
		take-off end (includes RC77,	ļ) 1	
	DE-4 -	WE260A1, WE260A2)1	29	SD109		tag1	
11	RF794	Pipe nipple, 1/8" x 3/4" long 1	30	BI176-5		1	
12	LP19	Large fuel strainer,	31	XD17	Screw,		
	LP43	with shut-off1				x 1" long3	
	LF43	Small fuel strainer,	32	PE4		/16"7	
		mounted to fuel pump for	33	WE304S1	Underslung fue		
13	XA36	units with underslung tank 1			assembly (inclu		
13	AA30	Screw, 1/4"-20 thread x 3/4" long2	24	DM7770A		WE304)1	
14	RM1049	Flexible fuel line,	34	RM773A		ng (underslung	
14	10011043	tank at take-off end	35	RM1206D		RM391)1	
		(replaces RM1203A)1	33	NIVI 1200D	Suction tube as		
15	XA34	Screw,	36	WE273A	Engine support	nk)1	
		1/4"-20 thread x 1/2" long6	50	WCZ/JA		nk)2	
16	PH198	Grommet1	37	PD78		read 4	
17	WE301	Left side rail1	38	PD81		ead4	
18	WE300	Right side rail1	39	PE7		′2" 4	
19	RF1186	Pipe nipple,	40	XD44	Screw,	~ •••••••	
		3/8" x 1-1/2" long1				c 1-3/4" long 4	
20	RF937	Pipe coupling, 3/8" 1	41	PG452		lerslung tank) 2	
21	XK3	Pipe plug, 3/8" square 1			•		
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WE427S1, WE278S1 Side Mount Fuel Tanks (Obsolete) USE WITH MODEL VG4D



ITEM	PART NO.	DESCRIPTION QTY	ITEM	PART NO.	DESCRIPTION QTY
1	WE427S1	Fuel tank, 8.5 gallon (includes 2, 4)	8	XD27	Screw, 3/8"-16 thread x 1" long4
		(replaces WE278S1)	9	WE279	Engine support2
2	RM1206A	Suction tube assembly	1-	WE281	Engine support, for engines
3	PH244A	Felt	:		with electric starter
4	RC77	Cap	10	PE37	Lock washer, 5/8" 4
5	RM822	Fuel line, 27-1/4" long	11	XD51	Screw,
_	RM524	Fuel line, 31-3/4" long, for			5/8"-11 thread x 1-1/4" long 4
		engines with electric starter	12	PD79	Nut, 3/8"-16 thread4
6	RF1225	Elbow	13	PE5	Lock washer, 3/8"4
7	PG455	Strap	:	•	