## PAGE 1 OF 2 BULLETIN NO. 55-46-2451

DATE Nov. 2003

REVISED BULLETIN

# **SERVICE PARTS LIST**

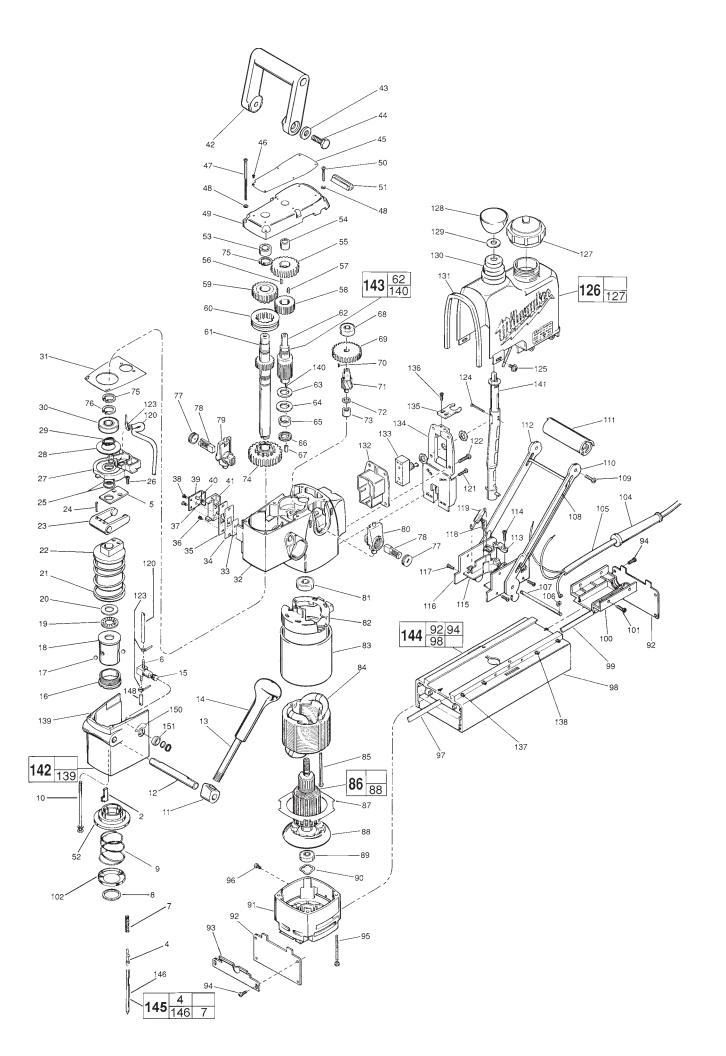
milwaukee ®

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

STEEL HAWG™ METAL BORING SYSTEM

CATALOG NO. 4245-2 STARTING SERIAL NUMBER 782-1001 58-01-0512

	<b>/</b>	EXAMPLE:	CATALOG NO. 42	1 <del>4</del> 5-2	SERIAL NUME	BER 762	-1001	36-01-0312	
	00		Parts (Small #) Are Included		FIC	PART NO.	DESCRIP	TION OF PART	OTV
			ng The Assembly (Large #).		FIG.		Retaining		QTY.
FIG.	PART NO.		IPTION OF PART	QTY.	76 77	34-60-2520 23-44-0220	Brush Ca	NIIY n. Serow	(1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
2	43-96-0160	Cutter K		(1)	77	22-18-0715	Carbon B	rush Assembly	(2)
4	42-70-5070	Spring C		(1)	79	22-22-1350		sh Holder Assembly	(1)
5	44-66-0795		ide Plate	(1)	80	22-22-1355		Holder Assembly	\ <u>\</u> \
6	42-86-0140	Fitting	ide i late	\ <u>\</u> 2\	81	02-04-1050	Ball Bearin		\ <u>\</u> \
7	40-50-8130	Ejector	Spring	(2) (1)	82	31-55-0180	Coil Shield		\ <u>\</u>
8	34-60-2115	Retainin	ng Ring	(1)	83	23-16-1455		ating Sleeve	\ <u>i</u> \
9	40-50-8400	Release	Spring	}i{	84	18-56-0230	Field	durig ciceve	\i\
10	06-82-9662	8-32 x 4	1.062 Sems Pan T-20	(1) (1)	85	06-82-7375		2" Pan Plast. T-20	(2)
11	42-90-0220		andle Coupling	(1)	86	16-56-0230	Armature	r an r laot. T 20	\ <del>1</del> 1
12	45-08-0230	Feed Sh		(1) (1) (1)	87	42-14-0330	Baffle		(1)
13	43-62-0980	Feed Ha		(1)	88	22-84-0660	Fan Asse	mbly	(1)
14	43-62-0970	Feed Ha	andle Grip	(1)	89	02-04-0911	Ball Bearing		(1)
15	45-80-0220	Valve	•	(1) (1)	90	45-88-7110		oring Washer	(1)
16	44-40-0630	Retainin	ng Nut	(1)	91	28-12-0320	End Cap	J	(1)
17	02-02-0250	1/4" Ste		(3) (1) (1)	92	42-52-0300	Base End	Cap	(2)
18	42-46-0180	Feed Ca	age	(1)	93	44-66-0800	Tube Prot	ector Plate	(1)
19	02-80-1300	Needle '	Thrust Bearing	(1)	94	06-82-5316	8-32x1/2"	Pan Slt. Tapt. T-20	(8)
20	45-88-8035	Thrust \		(1)	95	06-82-5516		3" Pan Hd. Slt. T-20 Screw	(4)
21	40-50-8020	Feed Re	eturn Spring	(1) (1)	96	06-95-5200		" Slt. Hex Hd. Screw	(1)
22	42-76-0415		ollar Assembly	(1)	97	43-48-0130	End Cap C		(1)
23	42-50-0220	Feed Ca		(1)	98	28-06-1005	Magnetic	Base	(1)
24	06-65-3620	Groove	Pin	(2)	99	43-48-0140	Container		(1)
25	34-40-4110	O-Ring	1/0" Fl-t II-l O	(2)	100	31-10-0120	Container	Mounting Bracket	(1)
26	06-81-2575	8-32 X 1	1/2" Flat Hd. Screw	(2)	101	06-82-7270		Pan Slt. Plast. T-20	(4)
27	31-50-0621	Pump H	ousing	(1)	102	45-88-8230	Cup Wash		(1)
28 29	45-88-8025	Retainin	ng Washer	(1) (2) (2) (2) (1) (1) (1) (1)	104 105	44-76-0050	Cord Prot	ector	\ <u>\</u> \
30	34-60-2400 02-04-1700	Ball Bea		\ <u>\</u> \	105	22-64-4520 34-60-0400	Cord Set	etaining Ring	(1)
31	45-36-1420		ousing Spacer	\ <u>\</u> {	107	44-60-0820	Pivot Pin	etairiing King	(2)
32	28-50-6285	Motor H	lousing Assembly	\ <u>\</u> \	107	44-20-0240	Handle Lo	ck	\ <u>\</u> \
33	44-66-5740	Grease	Retaining Plate	(1) (1) (1)	109	06-82-7270	8-16x5/8"	Pan Slt. Plast. T-20	\2\
34	43-44-0840	Shift Ga	rketailing riate	}i{	110	42-36-1605	Left Hand		(1)
35	44-66-5735	Shift Pla		\i\	111	31-44-1485		Base Handle	\ <del>\</del> \
36	06-81-8400		4" Pan Hd. Sems	\ <u>2</u> {	112	42-36-1600		dle Bracket	\i\
37	40-50-8030		ssion Spring	₹1	113	31-17-0156	Cord Clam		(1)
38	06-95-0075		8" Truss Hd. Taptite	(2)	114	06-82-7270		Pan Slt. Plast. T-20	(2)
39	44-66-5555	Shift Le	ver Plate	(1)	115	31-10-0110		np Bracket	(1)
40	02-02-0180	3/16" St	eel Ball	(1)	116	42-36-1590	Base Side	Bracket	(2)
41	43-98-0310	Shift Kn	ob	(1) (2) (1) (2) (1) (1) (1) (1) (2) (2) (1) (6)	117	06-82-5316	8-32x1/2"	Pan Slt. Tapt. T-20	(4)
42	31-44-1100	Spade F	Handle	(1)	118	06-82-5316	8-32x1/2"	Pan Slt. Tapt. T-20	(2)
43	45-88-0605	Flat Wa		(2)	119	40-50-8050	Handle Lo		(2)
44	06-75-0500		1" Hex Hd. Screw	(2)	120	45-76-0350	6" Lubrica	nt Tube	(1)
45	12-99-1160	Service	Nameplate	(1)	121	06-82-5320		Pan Slt. Tapt. T-20	(1)
46	06-81-8400		4" Pan Hd. Sems	(6)	122	06-82-5574		" Pan Tapt. T-25	(4)
47	06-82-9620		3/4" Fil. Hd. T-20	(2) (6)	123	23-78-0100	Tie		(3)
48	06-97-3200		olit Ring Lock Washer	(6)	124	44-60-1070	Cotter Pin	C" Dan III Tank Cares T 25	- (1)
49 50	28-20-1260		ase Cover	(1)	125	06-82-8865 42-51-0410	TU-32X7/T	6" Pan Hd. Tapt. Sems T-25	, (2)
50 51	06-82-2362 42-92-0750	Vent Co	" Slt. Pan Hd.T-20	(4) (1) (1)	126 127	42-51-0410		Housing Assembly	\ <u>\</u> \
52	42-76-0510	Release		\ <u>\</u> {	128	43-98-0340	Container Switch Kr		11
53	02-50-4018	Needle l		(1)	129	45-88-5261	Flat Wash		\ <u>\</u> \
54	02-50-2750	Needle		(1)	130	45-12-0450	Plunger B		
55	32-44-1360		rmediate Gear	(1)	131	45-06-0460	Container		71
56	06-42-0800	Woodru	ff Kev	(1)	132	31-50-0610	Switch Ho		\i\
57	06-42-1200	Woodru	ff Kev	(1)	133	23-66-1480	Switch		(1)
58	32-60-2350		eed Pinion Gear	(1)	134	31-15-0390		ousing Cover	(1)
59	14-08-0170	High Sp	eed Clutch Gear Assv	(1)	135	42-36-1630		unger Bracket	(1)
60	44-90-4260	Shifter F	Ring	(1)	136	06-82-7409	8-16x1/2"	Pan Plast. T-20	(2)
61	38-50-5731	Spindle	9	(1)	137	06-83-2670	1/4-20x1/2	2" Knrl. Set Screw	(2)
62	36-66-4440		rmediate Shaft	(1)	138	06-83-2650		8" Knrl. Set Screw	(2)
63	42-24-0350		Thrust Bearing	(1)	139	06-65-1527	Roll Pin		(2)
64	45-88-0510		Bearing Washer	(1)	140	06-65-3605	Pump Dov		(1)
65	02-50-4016	Needle		(1)	141	44-70-0215	Switch Pl	unger Assembly	(1)
66	45-06-0470	Oil Seal		(1)	142	28-50-0445	Feed Hou	sing Asssembly	(1)
67	42-24-0330	Pump B		(1)	143	36-66-4445		mediate Shaft Assembly	(1)
68	02-04-1020	Ball Bea		(1)	144	42-20-0610	Perm. Ma	g. Base Assembly	(1)
69	32-42-1350		mediate Gear	(1)	145	44-60-1285	Locating F	in Assembly	(1)
70 71	06-42-0400	Woodru		(1)	146	44-60-1280	Locating F	'III nt Tubo	(1)
71 72	36-66-4430		mediate Shaft	(1)	148	45-76-0360	8" Lubrica	IIL TUDE	(1)
72 73	45-88-7100 02-50-2020	Washer Needle l		(1) (1)	150 151	10-15-0210 45-36-1470	On-Off La	INCI	(1)
73 74	14-08-0180		eed Clutch Gear Assy		101	43-74-0080	Spacer Chain Hoo	ık	(1) (1) (1) (1) (1) (1) (2) (2) (2) (1) (1) (1) (1) (1) (1) (1) (1)
74 75	34-60-1290	Retainin		(1) (2)		42-60-0120	Chain	TIX.	\ <del>\</del> \
13	JT JU-123U	iverallill	9 1 1119	(2)		50 0 120	CHAIL		(')



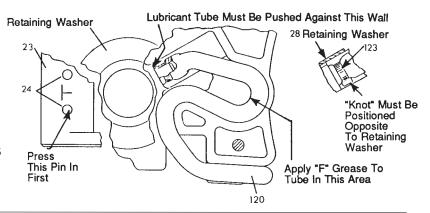
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#### FIG. NOTE

- 23 "T" marking on feed cam must face up.
- 24 Groove pins must be pressed in order shown.
- 120 One end of lubricant tube must be pushed against the wall of pump housing, as shown.
- 123 Set tie gun tension at its' maximum. "Knot" must be positioned opposite to retaining washer as shown.

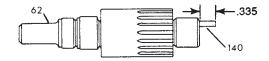
#### FIG. LUBRICATION

120 Apply a thin coating of type "F" grease, No. 49-08-4165 to areas shown on lubrication tube.



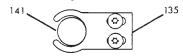
### FIG. NOTE

 Pin to be pressed into shaft to dimension shown, with no burrs or peening allowed on head of pin after assembly.



#### FIG. NOTE

135 Bracket must be positioned against plunger as shown before screws are tightened.



## FIG. NOTE

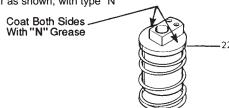
- 10,95, Apply Hernon #423 blue sealant. Keep grease away 137 from threaded holes. *IMPORTANT: Check Torque!*
- 12 Flats must face upward as illustrated on parts drawing.
- 16 Tighten securely with tool number 61-20-0050. Note: Left hand thread. 90-125 in./lbs.
- 33,34, One corner is rounded on all three parts. They must all face with the rounded corners closest toward the "H" engraved into the housing at the top.
- 66 Rubber seal to face inside of casting.
- 68 Open end to face gear.
- 89 Seal to face fan.
- 120 Push one end of lubricant tube 3/8" to 1/2" onto brass tube of lubricant container.
- 133 Mount switch with slot of switch facing towards end cap (Item 91).
- 124, Before removing cotter pin, make note of which slot,
  in switch plunger, the pin has been placed.
  Reassemble accordingly. Bend pin tabs around plunger.

## **SPECIAL NOTES:**

- 1. Check function of switch / base interlock system.
- After servicing unit, run a tank full of Hawg Wash through to check for proper fluid flow. It should empty in 4-1/2 minutes or less with fluid control valve com pletely open.

## FIG. LUBRICATION

Coat both areas of feed collar as shown, with type "N" grease, No. 49-08-4230.



#### FIG. LUBRICATION

- 19 "Bow" should face towards end of spindle.
- 19. Coat both sides of these items with type "N" grease.
- No. 49-08-4230, before placing in feed collar.
- 27 Apply a small amount of type "F" grease, No. 49-08-4165, to both inner grooves before inserting O-rings. Keep grease away from cross hole.
- 32 Apply 3 oz. of type "J" grease, No. 49-08-4220. 1 oz. into each gear cavity.
- After sliding pump housing onto spindle, coat entire spindle and inside of feed collar with type "F" grease No. 49-08-4165 before the feed housing and it's inside mechanism is assembled. Keep grease out of key slot at end of spindle after assembly.
- Apply a thin coat of type "N" grease, No. 49-08-4230, to outside diameters of spindle where items number 59 and 74 fit before assembling.
- 63,64 Coat both these items with type "J" grease before assembly.
- 140 Coat pin lightly with type "J" grease, No. 49-08-4220, before assembly of item 67.
- 49 Apply 1 oz. of type "J" grease, No. 49-08-4220 onto inside of gear case cover.

Run-in Specification								
	RPM-N	lo Load	AMPS-No Load					
Volts	LO	HI	LO	HI				
120	500	1000	4.0-6.0	4.0-6.0				

Mandatory Fasteners' Torque								
Fig. No.	Part No.	Size	Туре	Drive	Torque in./lb min/max. Seating			
95 36,46 94,117,118 101,109,114 47 10 138 137	06-82-5516 06-81-8400 06-82-5316 06-82-7270 06-82-9620 06-82-9662 06-83-2650 06-83-2670 23-44-0220	8-32 4-40 8-32 8-16 8-32 8-32 1/4-20 1/4-20 3/4-18	Machine Machine Taptite Plastite Machine Machine Machine Machine Machine	T-20 Slot T-20 T-20 T-20 T-20 1/8 Hex Hd. 1/8 Hex Hd.	23-28 3-6 30-40* 25-30** 18-23 8-11 12-15 25-35 9-12			

- Base end cap screws only 23-28 in./lbs.
- \*\* Container mounting bracket screws only 15-20 in./lbs. Switch hex nut 14-17 in/lbs.