



SERVICE PARTS LIST

1/2" ELECTRIC DRILL

Catalog No. 1650

Starting Serial No. **117-24987**

Specify Catalog and Serial No. when ordering parts

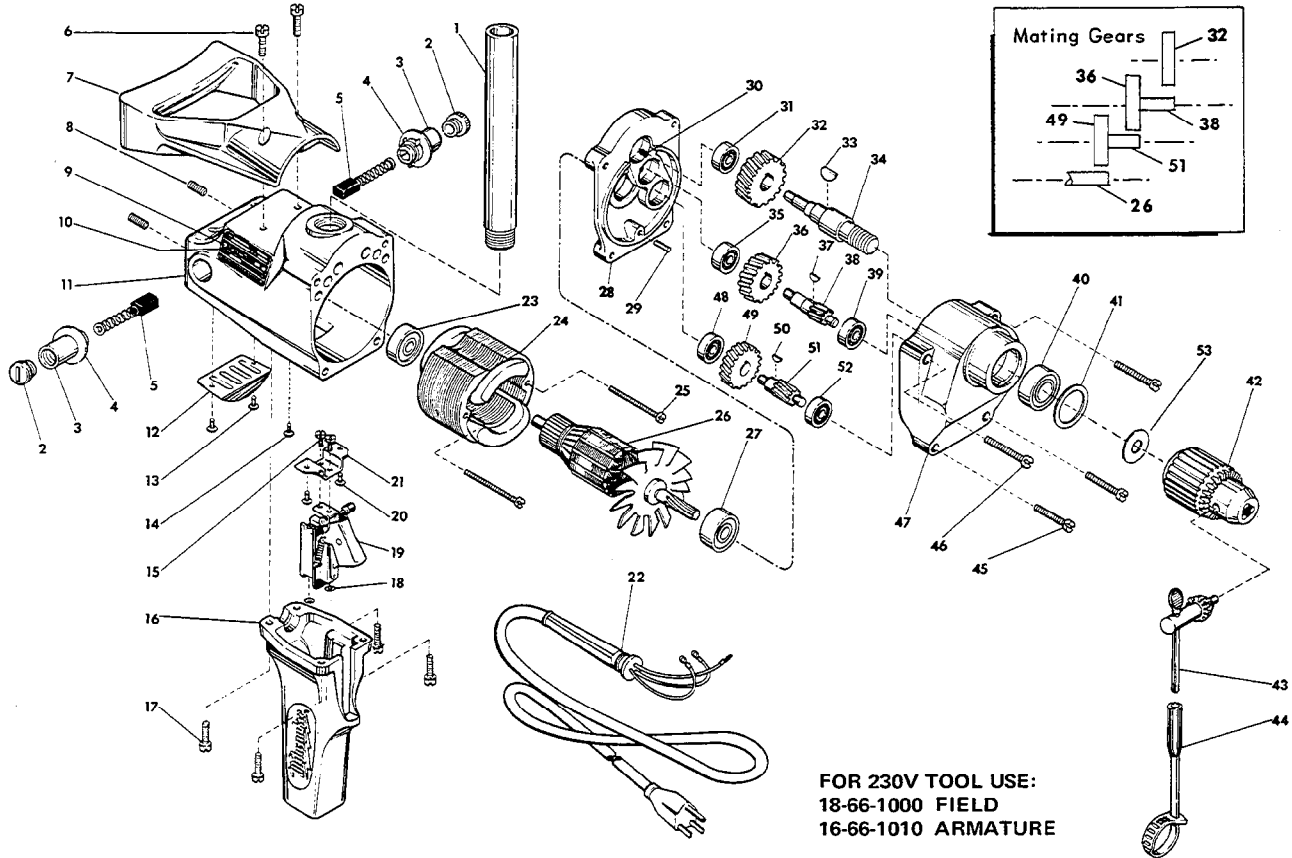
BUL. 54-10-2004

REVISED BUL.
54-10-2003

DATE
Dec. '73

WIRING INSTRUCTIONS
58-01-0500

450 R.P.M.



FOR 230V TOOL USE:
18-66-1000 FIELD
16-66-1010 ARMATURE

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
	1	43-62-0230 Pipe Handle		28	28-28-0701	Diaphragm (Includes Fig. 29 & 30)	
	2	23-44-0065 Brush Retaining Screw	(2)	29	06-65-0625	3/16x1/2 Groove Pin	
	3	22-22-0120 Brush Holder	(2)	30	45-30-0060	Brg. Retaining Slug	(3)
	4	23-36-0130 Washer	(2)	31	02-04-0820	Ball Bearing	
	5	22-18-0170 Carbon Brush	(2)	32	32-75-2701	Spindle Gear	
	6	06-81-7500 12-24x5/8 Fil. Hd. Sem	(2)	33	06-42-2000	Woodruff Key	
	7	28-44-7041 Spade Handle		34	38-50-2601	Spindle	
	8	06-83-2670 1/4-20x1/2 Knrl. Set Screw	(2)	35	02-04-0820	Ball Bearing	
★	9	06-85-0200 6x1/4 Rd. Hd. T type Z Screw	(2)	36	32-44-1161	Intermediate Gear	
★	10	12-99-0010 Nameplate		37	06-42-0800	Woodruff Key	
★	11	28-50-4646 Motor Housing		38	36-66-2252	Intermediate Shaft	
	12	44-66-0140 Cover Plate		39	02-04-0820	Ball Bearing	
	13	06-81-8650 6-32x1/4 Rd. Hd. Sem	(2)	40	02-04-1560	Ball Bearing	
	14	06-81-8625 6-32x1/4 Ground Screw		41	34-80-2500	Retaining Ring	
	15	06-81-5800 6-32x5/16 Fil. Hd. Sem	(2)	42	48-66-1280	1/2" Chuck	
	16	28-44-9121 Switch Handle		43	48-66-3280	Chuck Key	
	17	06-81-7500 12-24x5/8 Fil. Hd. Sem	(4)	★	44	48-66-4040 Key Holder	
	18	06-97-1800 Lock Washer	(4)	★	45	06-81-7450 10-32x1-3/16 Fil. Hd. Sem	(2)
	19	23-66-0190 Switch		★	46	06-81-7460 10-32x1-7/16 Fil. Hd. Sem	(2)
	20	06-81-8650 6-32x1/4 Rd. Hd. Sem	(2)	47	28-14-0762	Gear Case	
	21	42-36-0180 Switch Bracket		48	02-04-0820	Ball Bearing	
	22	22-64-0170 Cord Set		49	32-42-1221	Intermediate Gear	
	23	02-04-0970 Ball Bearing		50	06-42-0800	Woodruff Key	
	24	18-62-1000 115 Volt Field		51	36-66-2201	Intermediate Shaft	
	25	06-81-6700 8-32x1-7/8 Fil. Hd. Sem	(2)	52	02-04-0820	Ball Bearing	
	26	16-62-1010 115 Volt Armature		★	53	45-88-0375 Chuck Spacer Washer	
	27	02-04-1070 Ball Bearing		★	54	12-98-7081 Caution Plate (Not Shown)	