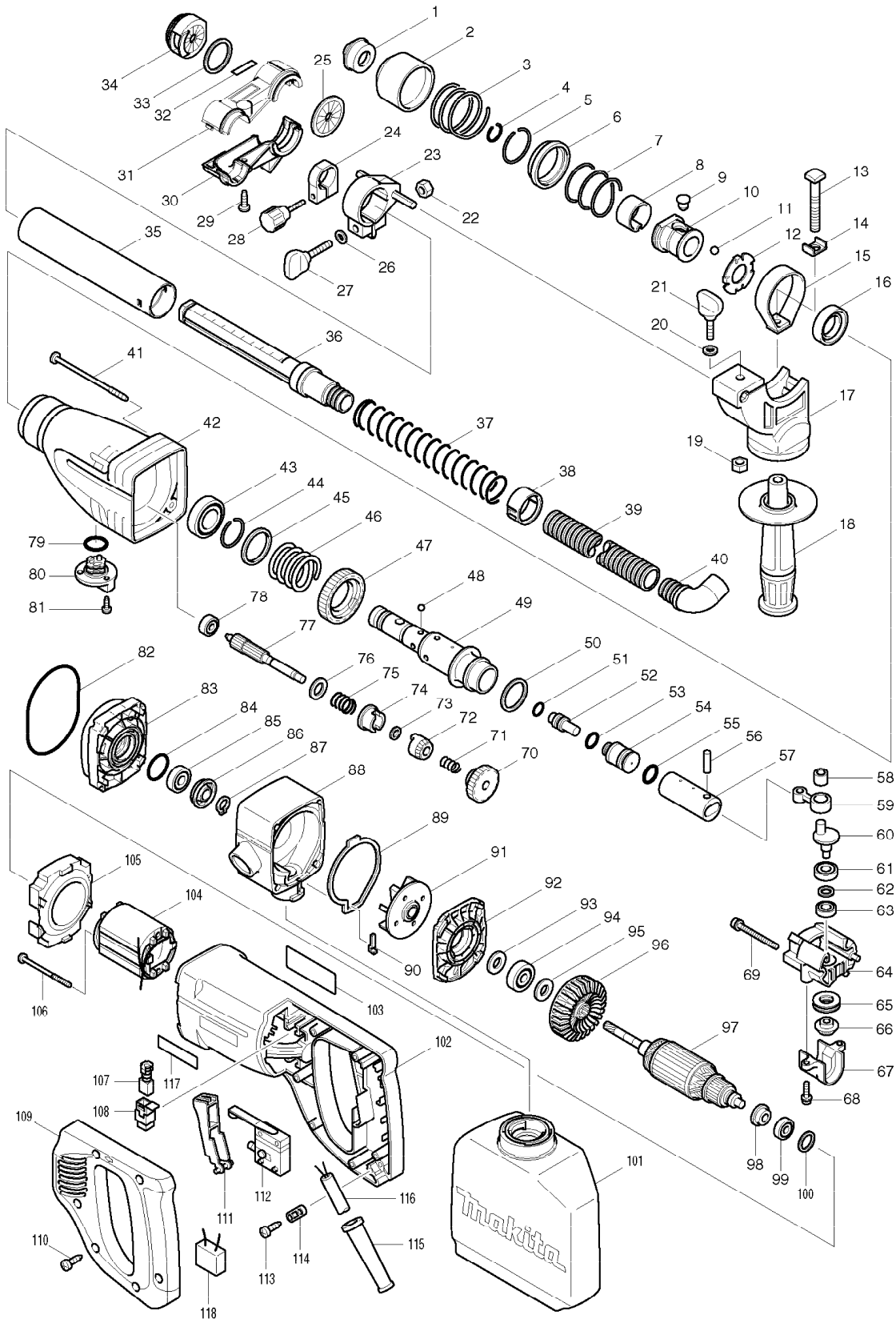


# SERVICE DRAWING

MODEL NO. HR2431



# SPARE PARTS LIST

MODEL NO. HR2431

ITEM	PART NO.	DESCRIPTION	QTY	NOTE
001	*****	*****	***	*****
002	416410-5	CHUCK COVER	1	
003	233203-3	COMPRESSION SPRING 38	1	
004	231979-6	RING SPRING 17	1	
005	231936-4	RING SPRING 30.5	1	
006	323819-3	SPRING GUIDE	1	
007	233234-2	COMPRESSION SPRING 35	1	
008	232190-3	LEAF SPRING 26	1	
009	256447-8	PIN 8	1	
010	323820-8	CHUCK RING	1	
011	216022-2	STEEL BALL 7.0	1	
012	344690-2	GUIDE WASHER	1	
013	266092-1	SQUARE BOLT M8X60	1	
014	267719-6	SQUARE WASHER 9	1	
015	344205-5	BELT	1	
016	213313-2	OIL SEAL 20	1	
017	417157-4	GRIP BASE	1	
018	152521-9	GRIP 36 COMPLETE	1	
019	931202-6	HEX. NUT M5	1	
020	941101-4	FLAT WASHER 5	1	
021	251878-6	SCREW M5X20	1	
022	931302-2	HEX. NUT M6	1	
023	417156-6	PIPE HOLDER	1	
024	414795-3	STOPPER RING	1	
025	421384-7	SEALING CAP 40	1	
026	941151-9	FLAT WASHER 6	1	
027	265705-1	THUMB SCREW M6X30	1	
028	265706-9	THUMB SCREW M4X24	1	
029	265926-5	TAPPING SCREW 4X16	1	
030	414800-6	COLLECTOR 25L	1	
031	414799-5	COLLECTOR 25R	1	
032	819071-4	MAKITA LABEL	1	
033	267091-6	FLAT WASHER 28	1	
034	421726-5	FITTING RUBBER	1	
035	414797-9	SUPPORT PIPE	1	
036	414796-1	SLIDE PIPE	1	
037	233015-4	COMPRESSION SPRING 25	1	
038	414794-5	SPRING STOPPER	1	
039	414898-3	HOSE 19	1	
040	417153-2	CUFFS 19-22	1	
041	266243-6	TAPPING SCREW 4X90	4	
042	150965-7	GEAR HOUSING COMPLETE	1	
043	211323-3	BALL BEARING 6904LLU	1	
044	231962-3	RING SPRING 26	1	
045	267132-8	FLAT WASHER 29	1	
046	233109-5	COMPRESSION SPRING 29	1	
047	226290-9	SPUR GEAR 48	1	
048	216011-7	STEEL BALL 5.6	4	
049	323822-4	TOOL HOLDER	1	
050	267129-7	FLAT WASHER 27	1	
051	213063-9	O RING 10	1	
052	323818-5	IMPACT BOLT	1	
053	213117-2	O RING 11	1	
054	322740-3	STRIKER	1	
055	213214-4	O RING 16	1	
056	256099-5	PIN 6	1	

# SPARE PARTS LIST

MODEL NO. HR2431

ITEM	PART NO.	DESCRIPTION	QTY	NOTE
057	331446-2	PISTON CYLINDER	1	
058	212005-0	NEEDLE BEARING 810	1	
059	331447-0	CONNECTING ROD	1	
060	322741-1	CRANK SHAFT	1	
061	211098-4	BALL BEARING 699ZZ	1	
062	267130-2	FLAT WASHER 9	1	
063	211099-2	BALL BEARING 689ZZ	1	
064	159761-0	CRANK HOUSING COMPLETE	1	
065	212110-3	THRUST NEEDLE BEARING 1224	1	
066	226726-8	STRAIGHT BEVEL GEAR 12	1	
067	415630-8	GEAR COVER	1	
068	911526-6	PAN HEAD SCREW M4X16	2	
069	911576-1	PAN HEAD SCREW M4X50	3	
070	226434-1	HELICAL GEAR 31	1	
071	233110-0	COMPRESSION SPRING 8	1	
072	226725-0	STRAIGHT BEVEL GEAR 14	1	
073	267131-0	FLAT WASHER 8	1	
074	322743-7	CLUTCH CAM	1	
075	233089-5	COMPRESSION SPRING 12	1	
076	253744-3	FLAT WASHER 12	1	
077	226293-3	SPUR GEAR 10	1	
078	211012-0	BALL BEARING 606ZZ	1	
079	213261-5	O RING 17	1	
080	152471-8	CHANGE LEVER COMPLETE	1	
081	251392-2	+ PAN HEAD SCREW M4	1	
082	213720-9	O RING 67	1	
083	152616-8	INNER HOUSING COMPLETE	1	
084	213953-6	O RING 24	1	
085	210060-6	BALL BEARING 609LLU	1	
086	317332-1	DUST GUARD	1	
087	961006-2	RETAINING RING S-10	1	
088	417158-2	FAN HOUSING	1	
089	421725-7	DUSTPROOF SHEET	1	
090	344853-0	PLATE	1	
091	241664-3	FAN 56	1	
092	317334-7	DUST COVER	1	
093	267213-8	FLAT WASHER 10	1	
094	210054-1	BALL BEARING 6000LLU	1	
095	267213-8	FLAT WASHER 10	1	
096	240032-7	FAN 60	1	
097	517353-5	ARMATURE ASS'Y 220V	1	
098	681600-1	INSULATION WASHER	1	
099	211021-9	BALL BEARING 607LLB	1	
100	253842-3	FLAT WASHER 14	1	
101	122614-6	DUST BAG ASS'Y	1	
102	416926-0	MOTOR HOUSING	1	
103	852336-1	NAME PLATE HR2431	1	
104	633353-8	FIELD 220V	1	
105	415628-5	BAFFLE PLATE	1	
106	266052-3	TAPPING SCREW 4X60	2	
107	191962-4	CARBON BRUSH CB-419	1	
108	643923-5	BRUSH HOLDER	2	
109	416248-8	HANDLE COVER	1	
110	265995-6	TAPPING SCREW 4X18	6	
111	415629-3	SWITCH LEVER	1	

# SPARE PARTS LIST

MODEL NO. HR2431

ITEM	PART NO.	DESCRIPTION	QTY	NOTE
112	*****	*****	***	*****
113	265995-6	TAPPING SCREW 4X18	2	
114	687052-4	STRAIN RELIEF	1	
115	682516-3	CORD GUARD 9.3-85	1	
116	665865-3	POWER SUPPLY CORD 1.0-2-2.5	1	
117	819063-3	MAKITA LABEL	1	
118	645200-1	NOISE SUPPRESSOR	1	
A01	*****	*****	***	*****
A02	421727-3	CAP	1	
A03	824575-3	PLASTIC CARRYING CASE	1	
B01	122610-4	DUST COLLECTOR ASS'Y	1	
B02	134902-9	GRIP 36 ASS'Y	1	