OPERATION AND MAINTENANCE MANUAL

AC-TYPE 全自動手按

AC-TYPE 全自動下壓

AC-TYPE 半自動手按

DC-TYPE 全自動手按

DC-TYPE 全自動下壓

AC-TYPE Automatic Trigger Start Series

AC-TYPE Automatic Push Start Series

AC-TYPE Semi-Automatic Trigger Start Series

DC-TYPE Automatic Trigger Start Series

DC-TYPE Automatic Push Start Series

KILEWS INDUSTRIAL CO., LTD.

http://www.kilews.com

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INDEX

NOTICE

Metal Assembly Screwdrivers are designed for installing threaded fasteners in light industrial and appliance manufacturing applications.
KILEWS is not responsible for customer modification of tools for applications on which KILEWS was not consulted.

WARNING

Important safety information enclosed.
Read all these instructions before placing tool in service or operation this tool and save these instructions. It is the responsibility of the employer to place the information in this manual into the hands of the operator. Failure to observe the following warnings could result in injury. When using electric tools, Basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

Important Safety Instructions

WARNING! Read all instructions Failure to follow all instructions listed below may result in electric shock fire and/or serious injure. The term “power tool” in all of the warning listed below refer to your mains operated (corded) power tool or battery operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1) Electrical Safety

a) **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.

b) **Do not operate power tools in explosive atmosphere, such as in the presence of flammable liquids, gases or dust.** Power tools creat sparks which may ignite the dust of fumes..

c**) Keep children, and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical Safety

a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools**. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

c) **Don’t expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

d) **Do not abuse the cord. Never use the cord to carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.**Use of cord suitable for outdoor use reduces the risk of electric shock .

3) Personal Safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use power tool while you are tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.

b) **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Rubber gloves and non-skid footwear are recommended when working outdoors.

c) **Avoid accidental starting. Ensure the switch is in the off position before plugging in.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.

d) **Remove any adjusting keys or wrench before turning the power tool on.** A wrench or a key that is left attached to a rotating part of the power tool may result in personal injury.

e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair,clothing, and gloves away from moving parts.** Loose clothes, jewellery, or long hair can be caught in moving parts

g) **Secure work.**Use clamps or a vice to hold the work. It is safer than using your hand and frees both hands to operate the tool.

h) **If devices are provided for the connection of dust extraction and collection facilitys, ensure these are connected and properly used.** Use of these devices can reduce dust related hazards.

4) Power tool Use and Care

a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

b) **Do not use power tool if switch does not turn it on or off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) **Store idle power tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

Do not let visitors touch the tool or extension cord. All visitors should be kept away from work area.

e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are cause by poorly maintained power tools.

Inspect extension cords periodically and replace, if damaged.

f) **Keep cutting tools sharp and clean**, Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) **Use the power tools, accessories and tool bits ect., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from intended could result in a hazardous situation.

5) SERVICE

a) Have your power tool serviced by qualified repair person using only indentical replacement parts, This will ensure that the safety of the power tool is maintained.

Additional information shall be provide

a) Instruction for putting into use
   1. Setting-up or fixing power tool in a stable position as appropriate for power tools which can be mounted on a support.
   2. Assembly
   3. Connection to power supply, cabling, fusing, socket type and earthing requirements.
   4. Illustrated description of functions.
   5. Limitations on ambient conditions.
   6. List of contents.

b) Operating Instructions.
   1. Setting and testing.
   2. Tool changing.
   3. Clamping of work.
   4. Limits on size of work piece.
   5. General instructions for use.

c) Maintenance and servicing.
   1. Regular cleaning, maintenance, and lubrication.
   2. Servicing by manufacture or agent, list of addresses.
   3. List of user-replaceable parts.
   4. Special tools which may be required.

WARNING！

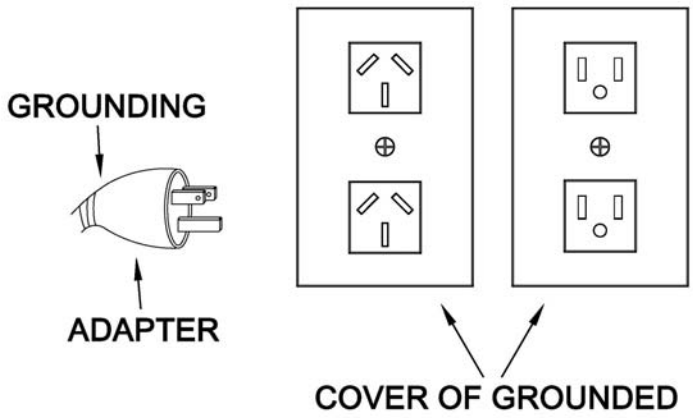
DO NOT OPERATE THIS TOOL WITHOUT PROTECTIVE EARTH CONNECTED

Grounding Instructions

1、This tool should be grounded while in use to protect the operator from electric shock. NOTICE ! To ensure the grounding result, the grounding conductor of the power cord must be well connected with the grounding terminal of power facility. This tool is equipped with grounding conductors. The Green(or Green and Yellow)conductor in the Power Cord is the grounding wire. Never connect Green (or Green and Yellow) to a live terminal. The grounding wires in this tool can not only earth the electric leakage safely, but also can eliminate ESD-the electrostatic that tool occurred while in use.

2、The grounding is the most important task a user. Periodically, depends on the working condition and circumstance, for maintaining a good function the user has to check the grounding condition every 3~6 months by an electric meter and following simple steps; Set the Ohm meter to level R*100(Ohm). Touching 2 test rods (“＋”&”－”) together and reset the meter to “0”. Using the Red(“＋”) rod to touch the Grounding wire on the Plug of controller’s cord, and the Black(“－”) rod to the end of Bit Head. It stands for the grounding is normal if the meter is read as close as to “0”. For getting a normal indication on the meter while in testing, need to press the test rods firmly to the testing objects.

3、The instrument QC of the tool is performed before the tool ex-factory. The grounding continuity test is conducted by input 26A voltage to the end of earth terminal, and subject to the resistance value lower than 0.3Ohm.



Operations Cautions

1) Whenever changing a bit, make certain the Forward / Reverse Switch is in the “ OFF “ position and tool is unplugged.
2) Do not allow chemicals such as acetone, benzene, thinner, trichloroethylene ketone, or other similar chemicals to come in contact with the screwdriver housing as damage will result.
3) Do not drop or abuse the screwdriver.
4) Do not adjust the torque setting higher than 8 on the torque scale.
5) There should be a tool rest interval when cycles three seconds or longer. This tool is intended for a duty cycle of 1.0 sec on, 3.0 sec off.
6) Do not use this screwdriver for tightening wood screws. This is “ Metal Assembly Screw Driver ”
7) Do not operate the Forward / Reverse Switch the motor is running.
8) Whenever a tool is not being used, move the Forward / Reverse Switch to the “OFF” position and unplug the screwdriver.
9) Don't touch For&Rew Switch during operating for keeping system from wrong judgement.

CAUTION

- Do not drop or abuse the tool.
- Whenever a tool is not being used, position the Power Switch to the “OFF” position and unplug the power cord.

Description of Operation

Attaching / detaching bit and bit type
Push up the holder clamp by finger tip, and it will be unlocked. Thus, the bit can be freely attached and detached (single finger notion type) select such a bit whose shank is equal to the size shown below.

☑ Insert the power plug into a receptacle and set the changeover switch to "**F**" position.
☑ Apply the bit to the screw head and press the lever or push main body to, then the switch will be turned ON to start the motor running.
☑ When the screw is tighten and reach the torque that you had set, The tool will stopped automatically.
☑ To reset the tool by releasing the lever to the original position or releasing the bit From the screw head.
☑ To return the screw, set the changeover switch to "**R**" position.

Servicing

Maintenance and Inspection:

1. The screw driver must be operated in top condition, one day working hour must be not more than eight hours.
2. Periodically check for wear of motor 、Carbon brush, one day for eight hours use is normal, replace it after every five to six months.
3. Please note don't let the motor get over heated, every minute use 10~15 screws to operate.
4. The frequency use of this electric screw driver is over than eight hours a day, still it needs periodically testing and treatment. Every 5-6 months.
5. Inspect tool cords periodically and if damaged, have them repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged.
6. Do not remove any labels. Replace any damaged label.

CAUTION

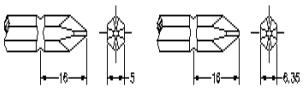
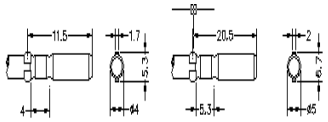
1. The use of other than genuine KILEWS replacement parts may Result in decreased tool performance and increased maintenance, and may invalidate all warranties.
2. All repairs and maintenance of this tool and its word must be performed by an authorized service center.
3. KILEWS is not responsible for customer modification of tools for applications on which KILEWS was not consulted.
4. Repairs should by made only by authorized, trained personnel. Consult your nearest KILEWS authorized service center.
5. It is the responsibility of the employer to place the information in this manual into the hands of the operator.

DO NOT ATTEMPT TO REPAIR THIS ELECTRIC SCREW DRIVER

CAUTION

SAVE THESE INSTRUCTIONS DO NOT DESTROY

SPECIFICATIONS

機　　型		SK-205LS	SK-215LS	SK-218LS	SK-2205LS	SK-2215LS
輸入電壓		AC110V~120V　50HZ/60HZ			AC220V~240V	50HZ/60HZ
額定功率		48W				
扭 力	(kgf.cm)	0.5~7	2~15	3~18	0.5~7	2~15
	(Lbf.in)	0.44~ 6.10	1.77~13.00	2.57~15.58	0.44~ 6.10	1.77~13.00
	(N.m)	0.05 ~0.69	0.2~1.47	0.29~1.76	0.05 ~0.69	0.2~1.47
扭力精度 (%)		±5%				
扭 力 調 整		無段式				
空轉速 n0: (r/min)		1200	1200	1000	1000	1000
無負荷電流(A)		0.3A	0.3A	0.3A	0.2A	0.2A
適用螺絲直徑(mm)	機械牙	1.6~3.0	2.0~4.0	2.0~4.0	1.6~3.0	2.0~4.0
	自攻牙	1.4~2.0	2.0~3.0	2.0~3.0	1.4~2.0	2.0~3.0
重　　量 (g)		480				
長　　度 (mm)		230				
適用扭力固定環		KC-3				
適用起子架		KH-2				
適用起子頭		 HEX 5mm, HEX 6.35mm		 Ø4mm, Ø5m		

* 1N.m=10.2Kgf.cm　1N.m=8.85Lbf.in

※標　准　配　件

1・ 起子頭（ＢＩＴ）型號：　NO. 0#　適用於直徑 1.8~2.0mm 螺絲

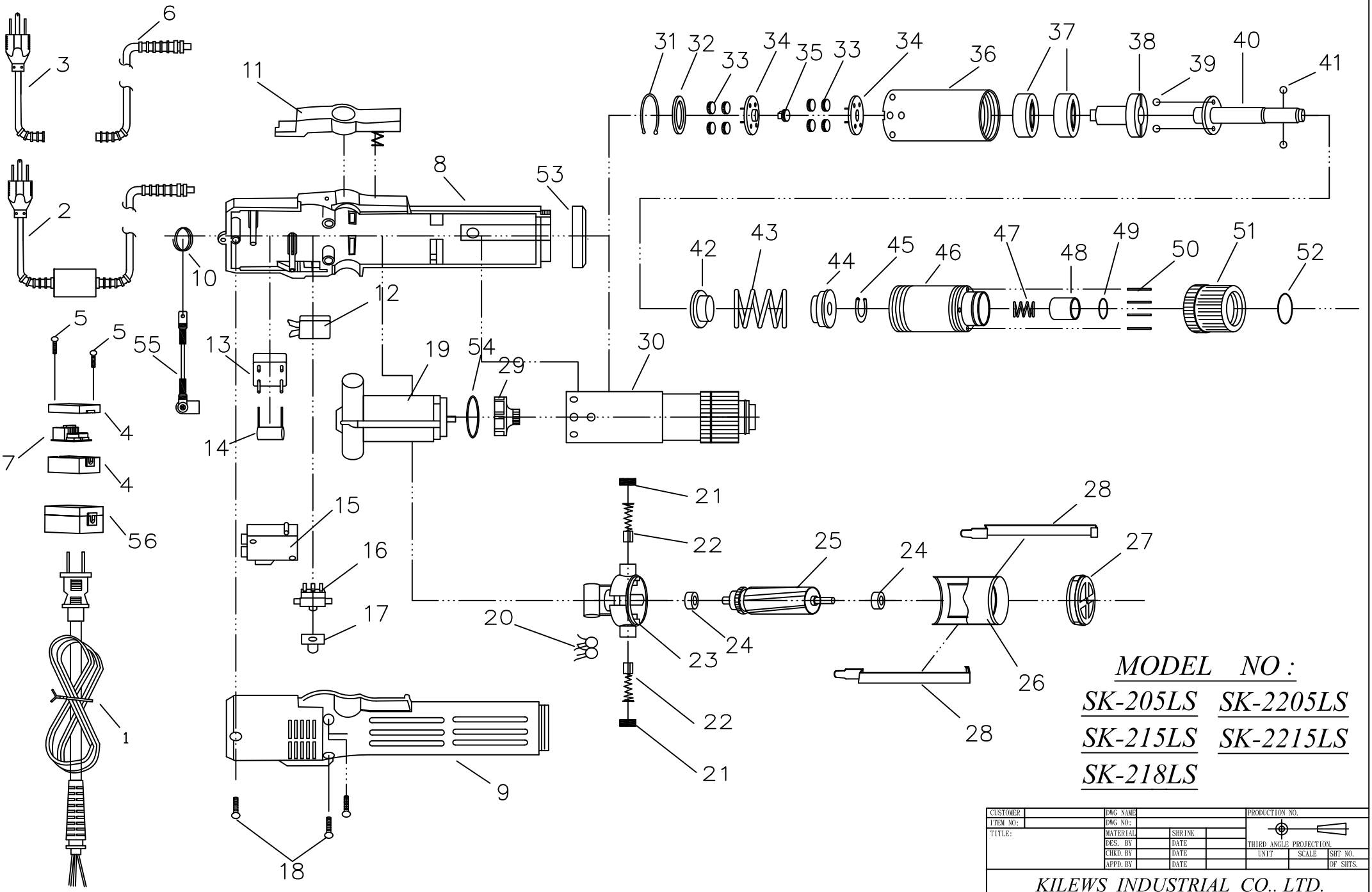
NO. 1#　適用於直徑 2.0~2.6mm 螺絲

NO. 2#　適用於直徑 3.0~3.5mm 螺絲

SK-205LS ； SK-2205LS　配附 BIT　0# & 1#　各１支

SK-215LS ； SK-2215LS ；SK-218LS　配附 BIT　1# & 2#　各１支

2・ 起子吊簧(30cm)一條。



MODEL NO :

SK-205LS SK-2205LS

SK-215LS SK-2215LS

SK-218LS

CUSTOMER		DWG NAME		PRODUCTION NO.	
ITEM NO:		DWG NO:			
TITLE:		MATERIAL	SHRINK		
		DES. BY	DATE	THIRD ANGLE PROJECTION.	
		CHKD. BY	DATE	UNIT / SCALE	SHT NO.
		APPD. BY	DATE		OF SHTS.

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No	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty	No	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty
1	AA20001	CORD	電源線整組 平插	1	29	MK20131-1	FAN 110V	風扇連主齒(110V)	1
2	AD30001-A	CORD American	電源線整組 美規	1		MK33091	FAN 220V	風扇連主齒(220V)	1
	AD30001-D	CORD Australia	電源線整組 澳規	1	30	GZ22141-1A	CLUTCH ASSY 205LA	離合器整組 205LA	1
	AD30001-F	CORD Europe	電源線整組 歐規	1		GZ22141-1B	CLUTCH ASSY 205LB	離合器整組 205LB	1
	AA30001-G	CORD UK	電源線整組 英規	1		GZ22141-1C	CLUTCH ASSY 205LC	離合器整組 205LC	1
	AD30001-J	CORD India	電源線整組 印規	1		GZ22141-1D	CLUTCH ASSY 205LD	離合器整組 205LD	1
3	AA30007-1	CORD American 1Ft	電源線美規 1呎	1		GZ22141-2A	CLUTCH ASSY 215LA	離合器整組 215LA	1
	AA30007-1D	CORD Australia 1Ft	電源線澳規 1呎	1		GZ22141-2B	CLUTCH ASSY 215LB	離合器整組 215LB	1
	AA30007-2	CORD Europe 1Ft	電源線歐規 1呎	1		GZ22141-2C	CLUTCH ASSY 215LC	離合器整組 215LC	1
	AA30007-5	CORD UK 1Ft	電源線英規 1呎	1		GZ22141-2D	CLUTCH ASSY 215LD	離合器整組 215LD	1
	AA30007-5E	CORD India 1Ft	電源線印規 1呎	1		GZ20141-3A	CLUTCH ASSY 218LSA	離合器整組 218LSA	1
4	EC30006	EMC-BOX CASE ONLY	EMC盒上下蓋	1		GZ20141-3B	CLUTCH ASSY 218LSB	離合器整組 218LSB	1
5	CH90152-1	SCREW	螺絲	2		GZ20141-3C	CLUTCH ASSY 218LSC	離合器整組 218LSC	1
6	AA30009-1T	CORD 9FT	9呎電源線	1		GZ20141-4D	CLUTCH ASSY 218LSD	離合器整組 218LSD	1
7	EG30005-4F	PCB	PC板-EMC	1	31	GK20231-1	“C” RING	齒輪固定C環	1
8	CB20021	HOUING UNDERSIDE FOR 110V	外殼下蓋 (110V)	1	32	GI20251-1	IRON WASHER	齒輪固定片	1
	CB22021	HOUING UNDERSIDE FOR 220V	外殼下蓋 (220V)	1	33	GH20241	GEAR PLANET	游星齒輪	8
9	CA20101	HOUING UPSIDE FOR 110V	外殼上蓋 (110V)	1	34	GG20271	GEAR SEAT	齒盤	2
	CA22101	HOUING UPSIDE FOR 220V	外殼上蓋 (220V)	1	35	G20101	GEAR OF CENTER	中心齒	1
10	CJ20011	SUSPENSION RING	起子吊環	1	36	GA30311-5	GEAR CASE	上筒	1
11	CC20031	TRIGGER	手按開關桿	1	37	GN30321	MAIN BEARING	離合器主軸承	2
12	CF20061	BREAKER FOR 110V	保護器 110V	1	38	GC20301	CAM	上離合器頭	1
13	E31203	BIRDGE DIODE	橋式整流器	1	39	GP30351	STEEL BALL-4MM	跳脫鋼珠-4mm	2
14	E30504	CAPACITOR FOR 110V	電容器 (110V)	1	40	GD20321	SHAFT A-TYPE	傳動軸-A頭	1
15	HB50071	START SWITCH	啓動開關半成品	1		GD20321-3	SHAFT B-TYPE	傳動軸-B頭	1
16	HA15091	CHANGEOVER SWITCH	正反開關	1		GD30381-C	SHAFT C-TYPE	傳動軸-C頭	1
17	CI33211-2	SWITCH CAP FOR 205L	正反開關帽蓋 205L	1		GD20321-1	SHAFT D-TYPE	傳動軸-D頭	1
	CI30211	SWITCH CAP FOR 215L	正反開關帽蓋 215LS	1	41	GP20331	STEEL BALLS FOR "A&D" TYPE	起子頭帽鋼珠(A&D用)	2
	CI33211-3	SWITCH CAP FOR 218L	正反開關帽蓋 218LS	1		GP21291B	STEEL BALLS FOR "B&C" TYPE	起子頭帽鋼珠(B&C用)	2
	CI33211-1	SWITCH CAP FOR 2205L	正反開關帽蓋 2205LS	1	42	GF20341	WARRING PLATE FOR A,C,D TYPE	扭力推盤(A,C,D)	1
	CI30212	SWITCH CAP FOR 2215L	正反開關帽蓋 2215LS	1		GF20341B	WARRING PLATE FOR B TYPE	扭力推盤(B)	1
18	CH20102	SCREW	螺絲	3	43	GE20351-1	WARRING SPRING FOR 205L	扭力彈簧 205L	1
19	MO20121	MOTOR ASSEMBLY FOR 205L 215L	馬達整組 205L 215L	1		GE20351	WARRING SPRING FOR 215L	扭力彈簧 215L	1
	MO20121-1	MOTOR ASSEMBLY FOR 218L	馬達整組 218L	1		GE30411-3	WARRING SPRING FOR 218LS	扭力彈簧 218LS	1
	MO22121	MOTOR ASSEMBLY 220V	馬達整組(220V)	1	44	GY30421	WARRING SPRING BASE FOR A,C,D	止推盤 (A,C,D)	1
20	EB33610-2	CERAMICS CAPACITOR	陶瓷電容	1		GY30421B	WARRING SPRING BASE FOR B TYPE	止推盤 (B)	1
21	MD20151	BRUSH CAP	碳刷蓋	2	45	GK20231B	C-RING FOR B TYPE	傳動軸固定C環(B)	1
22	MC20161	BRUSH	碳刷	2	46	GB30441-10	CLUTCH CASE FOR A,C,D TYPE	下離合器筒(A,C,D)	1
23	ML20171	MOTOR TOP COVER 110V	碳刷座 110V	1		GB30441-7A	CLUTCH CASE FOR B TYPE	下離合器筒(B)	1
	ML33571	MOTOR TOP COVER 220V	碳刷座 220V	1	47	GO20391	BIT SPRING FOR A,C,D TYPE	起子頭彈簧(A,C,D)	1
24	ME20181	ARMATURE BEARING 110V	軸承 (110V)	2		GO20391B	BIT SPRING FOR B TYPE	起子頭彈簧(B)	1
	ME21481	ARMATURE BEARING 220V	軸承 (220V)	2	48	GJ30461	BIT SLEEVE FOR A,C,D TYPE	起子頭帽(A,C,D)	1
25	MH20191	ARMATURE FOR 205L 215L	電樞 205L 215L	1		GJ3046B	BIT SLEEVE FOR B TYPE	起子頭帽(B)	1
	MH20191-1	ARMATURE FOR 218LS	電樞 218LS	1	49	GQ30471	“C” RING FOR A,C,D TYPE	起子頭帽C環(A,C,D)	1
	MH23601	ARMATURE FOR 2205L 2215L	電樞 2205L 2215L	1		GQ21361	“C” RING FOR B TYPE	起子頭帽C環(B)	1
26	MJ20201	MOTOR YORK ASSEMBLY FOR 205L 215L	馬達鐵圈連磁鐵 205L 215L	1	50	GL30481	TORQUE ADJ PINS	扭力調整棒	4
	MJ30631	MOTOR YORK ASSEMBLY FOR 218L	馬達鐵圈連磁鐵 218L	1	51	GM20431-1	TORQUE ADJ RING	扭力調整環	1
	MJ33631	MOTOR YORK ASSEMBLY FOR 2205L 2215L	馬達鐵圈連磁鐵 2205L 2215L	1	52	GS30501	“C” RING FOR GM21381	扭力環C環	1
27	MB20221	MOTOR END COVER 110V	馬達前蓋(110V)	1	53	CD20111	COUPLER	前鎖環	1
	MB33651	MOTOR END COVER 220V	馬達前蓋(220V)	1	54	MF30101	INSULATING WASHER	絕緣墊圈	1
28	MA20211B	ASSEMBLY SPRING 110V	馬達固定鐵片 (110V)	2	55	P12104	8cm RETAINING CLIP	八公分固定線	1
	MA33621B	ASSEMBLY SPRING 220V	馬達固定鐵片 (220V)	2	56	EJ30002-3	CE Box Ass'y-220V	CE盒成品-220V	1