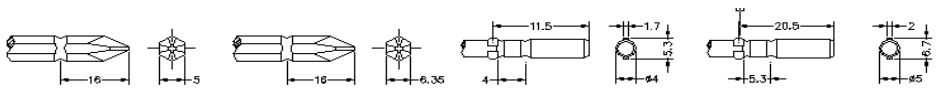
Specifications

MODEL		SK-3120L	SK-3180L	SK-3180LF	SK-3220L	SK-3280L	SK-3280LF
Input voltage(AC)		AC100V / 110V~120V 50HZ/60HZ			AC 220V~240V 50HZ/60HZ		
Rated input		60W					
Torque	(kgf.cm)	1.5~12	3~19	1.5~12	1.5~12	3~19	1.5~12
	(Lbf.in)	1.33~10.44	2.57~16.46	1.33~10.44	1.33~10.44	2.57~16.46	1.33~10.44
	(N.m)	0.15~1.18	0.29~1.86	0.15~1.18	0.15~1.18	0.29~1.86	0.15~1.18
Torque Accuracy (%)		±3%					
Torque Adjustment		Step less					
Free Speed (R.p.m)		1000	1000	2000	1000	1000	2000
Non-power Consumption (A)		0.3A	0.3A	0.3A	0.2A	0.2A	0.2A
Screw Dia(mm)	Machine screw	1.6~3.0	2.6~3.5	2.0~3.0	1.6~3.0	2.6~3.5	2.0~3.0
	Tapping screw	1.6~2.6	2.6~3.0	2.0~2.6	1.6~2.6	2.6~3.0	2.0~2.6
Weight (g)		550					
Length (mm)		242					
Model of Torque Fixing Ring		KC-6					
Model of Suspension Rack		KH-4、(KC & KH-2)					
Bit Type		 HEX 5mm, HEX 6.35mm Ø4mm, Ø5mm					

* 1N.m=10.2Kgf.cm 1N.m=8.85Lbf.in

Accessories

1、ＢＩＴ Type ： No. 00 ・・・ Bit use in dia 1.3~1.8mm screw

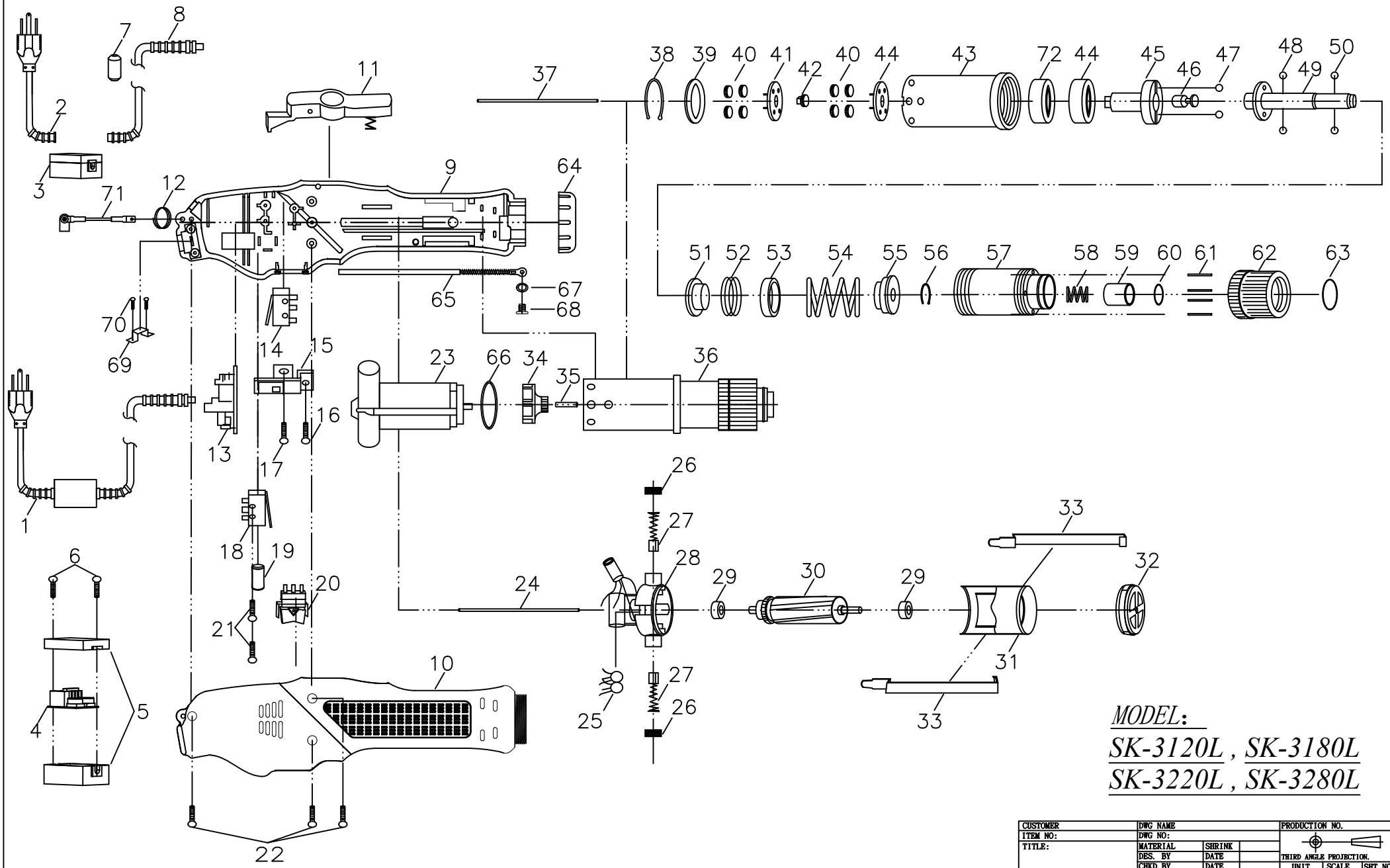
No. 0・・・・ Bit use in dia 1.6~2.0mm screw

No. 1・・・ ・Bit use in dia 2.0~2.6mm screw

No. 2・・ ・・Bit use in dia 3.0~4.0mm screw

SK-3120L ；SK-3220L	with BIT	1# & 2#	1 Pcs. Each
SK-3180L ；SK-3280L	with BIT	1# & 2#	1 Pcs. Each
SK-3180LF ；SK-3280LF	with BIT	1# & 2#	1 Pcs. Each

2、Suspension rack and Torque fixing ring acceptable for use with the tool are available from KILEWS catalogue.



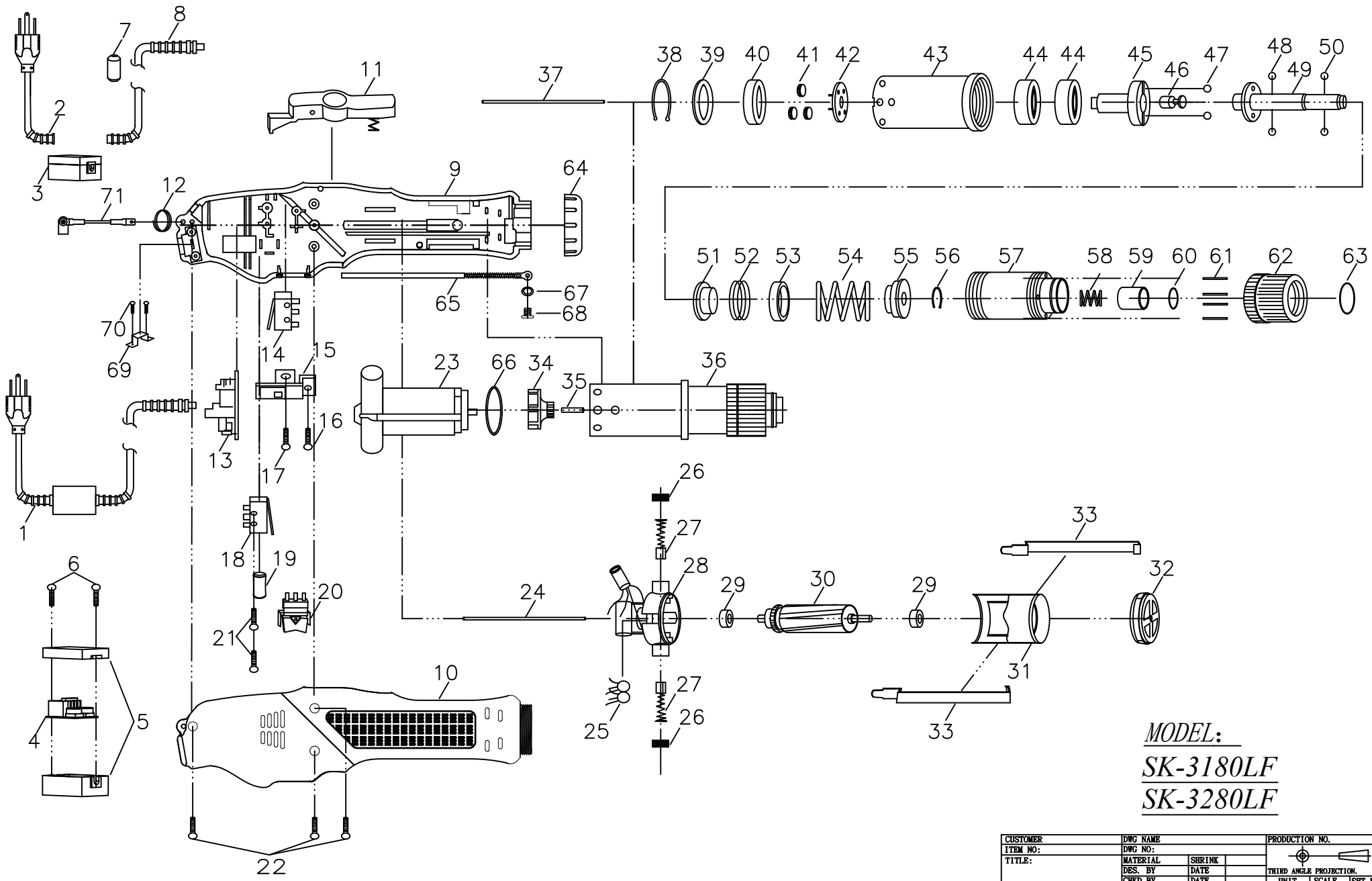
MODEL:

SK-3120L , SK-3180L

SK-3220L , SK-3280L

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

NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty	NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty
1	AC30001-1	Cord Assy-AMERICA Plug	電源線整組 美規	1		GZ30073-3C	CLUTCH ASSEMBLY (3180LC)	離合器整組 (3180LC)	1
	AF30001-1	Cord Assy-EUROPE Plug	電源線整組 歐規	1		GZ30073-3D	CLUTCH ASSEMBLY (3180LD)	離合器整組 (3180LD)	1
	AG30001-1	Cord Assy-BRITISH Plug	電源線整組 英規	1		GZ30073-3AD	CLUTCH ASSEMBLY (3180LAD)	離合器整組 (3180LAD)	1
	AJ30001-1	Cord Assy-INDIA Plug	電源線整組 印規	1	37	MI30241	PILOT ROD FOR (A,C,D)	開關引導棒(A,C,D)	1
	AD30001-1	Cord Assy-AUSTRALIA Plug	電源線整組 澳規	1		MI30241-1	PILOT ROD FOR (B)	開關引導棒(B)	1
2	AA30007-1	Cord 1FT with AMERICA Plug	1呎長電源線 美規	1	38	GK20231	"C" RING	齒輪固定 C環	1
	AA30007-2	Cord 1FT with EUROPE Plug	1呎長電源線 歐規	1	39	GI20251-1	WASHER	齒輪固定片	1
	AA30007-5	Cord 1FT with BRITISH Plug	1呎長電源線 英規	1	40	GH20241-2	GEAR, PLANET	游星齒輪	8
	AA30007-5E	Cord 1FT with INDIA Plug	1呎長電源線 印規	1	41	GG30271	GEAR BASE	齒盤	2
	AA30007-1D	Cord 1FT with AUSTRALIA Plug	1呎長電源線 澳規	1	42	G20105	CENTRAL GEAR	中心齒	1
3	EJ30002-2	EMC-BOX ASSEMBLY	EMC盒成品	1	43	GA30311-6	GEAR CASE	上離合器筒	1
4	EG30005-3	P.C.B-EMC	PC板-EMC	1	44	GN30321	MAIN BEARING	離合器主軸承	1
5	EC30006	EMC-BOX CASE ONLY	EMC盒 上下蓋	1	45	GC30341	CAM	上離合器頭	1
6	CH90152-1F	SCREW	螺絲	2	46	GU30361	STOP PILOT	停止用酒杯	1
7	ED30004	FILTER	電磁夾	1	47	GP30351	STEEL BALLS 4mm	跳脫鋼珠4mm	2
8	AA30009-1T	CORD 9FT	9呎長電源線	1	48	GP30371	STELL BALLS 3.15mm (A,C,D)	酒杯鋼珠3.15mm(A,C,D)	2
9	CB33034	HOUSING-UNDERSIDE (ORANG-BL)	下蓋	1		GP30351	STELL BALLS 4mm (B)	酒杯鋼珠4mm(B)	2
10	CA33224	HOUSING-UPSIDE (ORANG-BL)	上蓋	1	49	GD30381A	SHAFT FOR "A" TYPE	傳動軸(A頭)	1
11	CC30011-4	TRIGGER	手按開關桿	1		GD30381B	SHAFT FOR "B" TYPE	傳動軸(B頭)	1
12	CJ20011	SUSPENSION RING	起子吊環	1		GD30381C	SHAFT FOR "C" TYPE	傳動軸(C頭)	1
13	EG31131F	CONTROL BOARD -110V	PC板-110V	1		GD30381D	SHAFT FOR "D" TYPE	傳動軸(D頭)	1
	EG32132	CONTROL BOARD -220V	PC板-220V	1		GD30383AD	SHAFT FOR "AD" TYPE	傳動軸(AD頭)	1
14	HB91061	SHUT OFF SWITCH	停止開關	1	50	GP20331	STEEL BALLS 2mm(A,D)	起子頭帽鋼珠(A,D用)	2
15	CE90101-1	SWITCH BASE	三合一開關架	1		GP21291B	STEEL BALLS 2.5mm(B,C)	起子頭帽鋼珠(B,C用)	2
16	CH90121	SCREW	螺絲	1	51	GF30401	WARING PLATE FOR "A.C.D" TYPE	扭力推盤(A.C.D用)	1
17	CH90131	SCREW	螺絲	1		GF30401B	WARING PLATE FOR "B" TYPE	扭力推盤(B用)	1
18	HB30061	START SWITCH	啟動開關	1	52	GO30541	SPRING-3120L ONLY	兩段小彈簧(3120L)	1
19	E31908	BRAKE RESISTOR-110V	剎車電阻-110V	1		GO30541-1	SPRING-3180L ONLY	兩段小彈簧(3180L)	1
	E31908-4	BRAKE RESISTOR-220V	剎車電阻-220V	1	53	GO30531	CAP,SPRING	彈簧蓋	1
20	HA91041	CHANGEOVER SWITCH-3120P,3220P	正反開關-3120P,3220P	1	54	GE50411-1	WARING SPRING(3120LA,C,D)	扭力彈簧 (3120LA,C,D)	1
	HA91042	CHANGEOVER SWITCH-3180P,3280P	正反開關-3180P,3280P	1		GE50411-2	WARING SPRING(3120LB)	扭力彈簧 (3120LB)	1
21	CH90151-1	SCREW	螺絲	2		GE30413-3	WARING SPRING(3180LA,C,D)	扭力彈簧 (3180LA,C,D)	1
22	CH20102	SCREW	螺絲	3		GE30411-11	WARING SPRING(3180LB)	扭力彈簧 (3180LB)	1
23	MO30111-2	MOTOR ASSEMBLY -110V	馬達整組-110V	1	55	GY30421	WARING SPRING BASE FOR "A,C,D" TYPE	止推盤(A,C,D)	1
	MO33111-1	MOTOR ASSEMBLY -220V	馬達整組-220V	1		GY30421B	WARING SPRING BASE FOR "B" TYPE	止推盤(B)	1
24	MI30512-1	PILOT ROD	開關引導棒	1	56	GK20231B	"C"-RING FOR (B)	傳動軸固定 C環(B)	1
25	EB33610-2	CERAMICS CAPACITOR	陶瓷電容	2	57	GB30441-12A	CLUTCH CASE FOR "A.C.D" TYPE	下離合器筒(A.C.D)	1
26	MD91531-1	BRUSH CAP	碳刷蓋	2		GB30441-1A	CLUTCH CASE FOR "B" TYPE	下離合器筒(B)	1
27	MC21411	CARBON-110V	碳刷-110V	2	58	GO30452	BIT SPRING FOR "A,C,D" TYPE	起子頭帽彈簧(A,C,D)	1
	MC20161	CARBON-220V	碳刷-220V	2		GO20391B	BIT SPRING FOR "B" TYPE	起子頭帽彈簧(B)	1
28	ML33382-1	MOTOR TOP COVER ASSY-110V	碳刷座半成品-110V	1	59	GJ30461	BIT SLEEVE FOR "A,C,D" TYPE	起子頭帽(A,C,D)	1
	ML33572-1	MOTOR TOP COVER ASSY-220V	碳刷座半成品-220V	1		GJ3046B	BIT SLEEVE FOR "B" TYPE	起子頭帽(B)	1
29	ME21481	ARMATURE BEARING	馬達軸承	2	60	GQ30471	"C" RING FOR "A,C,D" TYPE	起子頭帽 C環(A,C,D)	1
30	MH30601-2	ARMATURE-110V	電樞-110V	1		GQ21361	"C" RING FOR "B" TYPE	起子頭帽 C環(B)	1
	MH33601-1	ARMATURE-220V	電樞-220V	1	61	GL30481-1	TORQUE ADJUST PIN	扭力調整棒	4
31	MJ33631-1	MOTOR YOKE ASSEMBLY	馬達鐵圈連磁鐵	1	62	GM30491	TORQUE ADJUST RING	扭力調整環	1
32	MB33651-1A	MOTOR END COVER	馬達前蓋	1	63	GS30501	"C" RING	扭力環 C環	1
33	MA33621-1B	ASSEMBLING SPRING	馬達固定鐵片	2	64	CD20111-1	COUPLER	前鎖環	1
34	MK33091-1	FAN	風扇	1	65	CH30681T	GROUNDING MEANS	接地線	1
35	MG91081	PILOT ROD	陶瓷棒	1	66	MF30101	INSULATE WASHER	墊圈	1
36	GZ30073-2A	CLUTCH ASSEMBLY (3120LA)	離合器整組 (3120LA)	1	67	CH20102-10	WASHER	華司	1
	GZ30073-2B	CLUTCH ASSEMBLY (3120LB)	離合器整組 (3120LB)	1	68	CH20102-11	SCREW	地線螺絲	1
	GZ30073-2C	CLUTCH ASSEMBLY (3120LC)	離合器整組 (3120LC)	1	69	CH20102-2	WIRE CLAMP	線夾	1
	GZ30073-2D	CLUTCH ASSEMBLY (3120LD)	離合器整組 (3120LD)	1	70	CH20102-3	SCREW FOR WIRE CLAMP	線夾螺絲	2
	GZ30073-2AD	CLUTCH ASSEMBLY (3120LAD)	離合器整組 (3120LAD)	1	71	P12104	3cm RETAINING CLIP	三公分固定線	1
	GZ30073-3A	CLUTCH ASSEMBLY (3180LA)	離合器整組 (3180LA)	1	72	GN30435	MAIN BEARING	離合器主軸承	1
	GZ30073-3B	CLUTCH ASSEMBLY (3180LB)	離合器整組 (3180LB)	1					



MODEL:

SK-3180LF

SK-3280LF

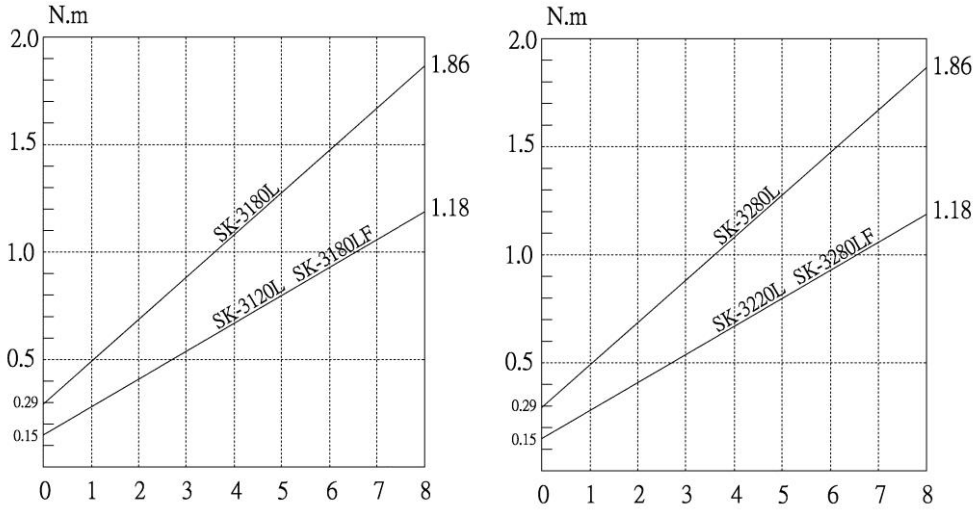
CUSTOMER	DWG NAME			PRODUCTION NO.	
ITEM NO:	DWG NO:				
TITLE:	MATERIAL	SHRINK			
	DES. BY	DATE		THIRD ANGLE PROJECTION.	
	CHKD. BY	DATE		UNIT	SCALE	SHT NO.
	APPD. BY	DATE				

NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty	NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty
1	AC30001-1F	Cord Assy-AMERICA Plug	電源線整組 美規	1		GZ30073-3DF	CLUTCH ASSEMBLY (3180LFD)	離合器整組 (3180LFD)	1
	AF30001-1F	Cord Assy-EUROPE Plug	電源線整組 歐規	1		GZ30073-4ADF	CLUTCH ASSEMBLY (3180LFAD)	離合器整組 (3180LFAD)	1
	AG30001-1F	Cord Assy-BRITISH Plug	電源線整組 英規	1	37	MI30241	PILOT ROD FOR (A,C,D)	開關引導棒(A,C,D)	1
	AJ30001-1F	Cord Assy-INDIA Plug	電源線整組 印規	1		MI30241-1	PILOT ROD FOR (B)	開關引導棒(B)	1
	AD30001-1F	Cord Assy-AUSTRALIA Plug	電源線整組 澳規	1	38	GK20231	"C" RING	齒輪固定C環	1
2	AA30007-1	Cord 1FT with AMERICA Plug	1呎長電源線 美規	1	39	GI20251-1	WASHER	齒輪固定片	1
	AA30007-2	Cord 1FT with EUROPE Plug	1呎長電源線 歐規	1	40	G21302	WASHER	齒輪墊圈	1
	AA30007-5	Cord 1FT with BRITISH Plug	1呎長電源線 英規	1	41	GH20241-3	IDLE GEAR	游星齒輪	3
	AA30007-5E	Cord 1FT with INDIA Plug	1呎長電源線 印規	1	42	GG20271-1	GEAR SEAT	齒盤	1
	AA30007-1D	Cord 1FT with AUSTRALIA Plug	1呎長電源線 澳規	1	43	GA30311-9	GEAR CASE	上離合器筒	1
3	EJ30002-5	EMC-BOX ASSEMBLY	EMC盒成品	1	44	GN30321	MAIN BEARING	離合器主軸承	2
4	EG30005	P.C.B-EMC	PC板-EMC	1	45	GC30341	CAM	上離合器頭	1
5	EC30006	EMC-BOX CASE ONLY	EMC盒 上下蓋	1	46	GU30361	STOP PILOT	停止用酒杯	1
6	CH90152-1F	SCREW	螺絲	2	47	GP30351	STEEL BALLS 4mm	跳脫鋼珠4mm	2
7	ED30004	FILTER	電磁夾	1	48	GP30371	STELL BALLS 3.15mm (A,C,D)	酒杯鋼珠3.15mm(A,C,D)	2
8	AA30009-1T	CORD 9FT	9呎長電源線	1		GP30351	STELL BALLS 4mm (B)	酒杯鋼珠4mm(B)	2
9	CB33034	HOUSING-UNDERSIDE (ORANG-BL)	下蓋	1	49	GD30381A	SHAFT FOR "A" TYPE	傳動軸(A頭)	1
10	CA33224	HOUSING-UPSIDE (ORANG-BL)	上蓋	1		GD30381B	SHAFT FOR "B" TYPE	傳動軸(B頭)	1
11	CC30011-4	TRIGGER	手按開關桿	1		GD30381C	SHAFT FOR "C" TYPE	傳動軸(C頭)	1
12	CJ20011	SUSPENSION RING	起子吊環	1		GD30381D	SHAFT FOR "D" TYPE	傳動軸(D頭)	1
13	EG31131F	CONTROL BOARD -110V	PC板-110V	1		GD30383AD	SHAFT FOR "AD" TYPE	傳動軸(AD頭)	1
	EG32132	CONTROL BOARD -220V	PC板-220V	1	50	GP20331	STEEL BALLS 2mm(A,D)	起子頭帽鋼珠(A,D用)	2
14	HB91061	SHUT OFF SWITCH	停止開關	1		GP21291B	STEEL BALLS 2.5mm(B,C)	起子頭帽鋼珠(B,C用)	2
15	CE90101-1	SWITCH BASE	三合一開關架	1	51	GF30401	WARING PLATE FOR "A.C.D" TYPE	扭力推盤(A.C.D用)	1
16	CH90121	SCREW	螺絲	1		GF30401B	WARING PLATE FOR "B" TYPE	扭力推盤(B用)	1
17	CH90131	SCREW	螺絲	1	52	GO30541	SPRING-3120L ONLY	兩段小彈簧(3120L)	1
18	HB30061	START SWITCH	啟動開關	1	53	GO30531	CAP,SPRING	彈簧蓋	1
19	E31908	BRAKE RESISTOR-110V	剎車電阻-110V	1	54	GE50411-1	WARING SPRING(3180LFA,C,D)	扭力彈簧 (3180LFA,C,D)	1
	E31908-4	BRAKE RESISTOR-220V	剎車電阻-220V	1		GE50411-2	WARING SPRING(3180LFB)	扭力彈簧 (3180LFB)	1
20	HA91042	CHANGEOVER SWITCH	正反開關	1	55	GY30421	WARING SPRING BASE FOR "A,C,D" TYPE	止推盤(A,C,D)	1
21	CH90151-1	SCREW	螺絲	2		GY30421B	WARING SPRING BASE FOR "B" TYPE	止推盤(B)	1
22	CH20102	SCREW	螺絲	3	56	GK20231B	"C"-RING FOR (B)	傳動軸固定C環(B)	1
23	MO30111-4	MOTOR ASSEMBLY -110V	馬達整組-110V	1	57	GB30441-12A	CLUTCH CASE FOR "A.C.D" TYPE	下離合器筒(A.C.D)	1
	MO33111-2	MOTOR ASSEMBLY -220V	馬達整組-220V	1		GB30441-1A	CLUTCH CASE FOR "B" TYPE	下離合器筒(B)	1
24	MI30512-1	PILOT ROD	開關引導棒	1	58	GO30452	BIT SPRING FOR "A,C,D" TYPE	起子頭帽彈簧(A,C,D)	1
25	EB33610-2	CERAMICS CAPACITOR	陶瓷電容	2		GO20391B	BIT SPRING FOR "B" TYPE	起子頭帽彈簧(B)	1
26	MD91531-1	BRUSH CAP	碳刷蓋	2	59	GJ30461	BIT SLEEVE FOR "A,C,D" TYPE	起子頭帽(A,C,D)	1
27	MC21411	CARBON-110V	碳刷-110V	2		GJ3046B	BIT SLEEVE FOR "B" TYPE	起子頭帽(B)	1
	MC20161	CARBON-220V	碳刷-220V	2	60	GQ30471	"C" RING FOR "A,C,D" TYPE	起子頭帽C環(A,C,D)	1
28	ML33382-1	MOTOR TOP COVER ASSY-110V	碳刷座半成品-110V	1		GQ21361	"C" RING FOR "B" TYPE	起子頭帽C環(B)	1
	ML33572-1	MOTOR TOP COVER ASSY-220V	碳刷座半成品-220V	1	61	GL30481-1	TORQUE ADJUST PIN	扭力調整棒	4
29	ME21481	ARMATURE BEARING	馬達軸承	2	62	GM30491	TORQUE ADJUST RING	扭力調整環	1
30	MH30601-5	ARMATURE-110V	電樞-110V	1	63	GS30501	"C" RING	扭力環C環	1
	MH33601-2	ARMATURE-220V	電樞-220V	1	64	CD20111-1	COUPLER	前鎖環	1
31	MJ33631-1	MOTOR YOKE ASSEMBLY	馬達鐵圈連磁鐵	1	65	CH30681T	GROUNDING MEANS	接地線	1
32	MB33651-1A	MOTOR END COVER	馬達前蓋	1	66	MF30101	INSULATE WASHER	墊圈	1
33	MA33621-1B	ASSEMBLING SPRING	馬達固定鐵片	2	67	CH20102-10	WASHER	華司	1
34	MK33091PF	FAN	風扇	1	68	CH20102-11	SCREW	地線螺絲	1
35	MG30081-1	PILOT ROD	陶瓷棒	1	69	CH20102-2	WIRE CLAMP	線夾	1
36	GZ30073-3AF	CLUTCH ASSEMBLY (3180LFA)	離合器整組 (3180LFA)	1	70	CH20102-3	SCREW FOR WIRE CLAMP	線夾螺絲	2
	GZ30073-3BF	CLUTCH ASSEMBLY (3180LFB)	離合器整組 (3180LFB)	1	71	P12104	3cm RETAINING CLIP	三公分固定線	1
	GZ30073-3CF	CLUTCH ASSEMBLY (3180LFC)	離合器整組 (3180LFC)	1					

Torque Adjustment Operation

To adjust the torque on these screwdrivers. Proceed as follows :

1. Determine the torque output of the tool by checking a tightened Fastener with a torque wrench.
2. Increase or decrease the torque by rotating the Spring Adjusting Ring. Rotating the Ring clockwise to a higher number on the torque Scale increase torque output while rotating the Ring counterclockwise to a lower number decreases the torque output.
3. Check the adjustment with a torque wrench. A number of factors will affect torque output from one job to another. Final torque adjustment should be made at the job through a of series of gradual increase. Always start below the desired torque and work upward.
4. Adjust the bit torque by changing the driving in length of the adjust ring at the end.
5. The relationship between torque scale and bit torque is as shown Ring, in the torque diagram. The figures of torque scale do not indicate bit torque values. However, the clamping torque of screw itself is different form type, size, material of the screw and the material of its mating part. Use it as standard to obtain an appropriate clamping torque.
6. The (Return torque method) in which once-clamped screw is returned with torque wrench or the like is available as one of torque control methods however, note that the measured values by the return torque method generally appear in 10%~30% lower than the actually clamping torque.
7. The torque checker measures the torque of screwdriver. The clamping torque of screw itself is different from the clamped conditions. Understand the correlation between clamping torque values and the torque checker values perform the torque control properly.



CAUTION

1. Also in reverse rotation, the clutch is turned off in such manner as in normal rotation, stopping the motor running. Accordingly, when the screw tightened at a large torque, set it to a higher torque scale.
2. The number from zero to eight on the Torque Scale are reference number only and not an indication of actual torque output.

Equipment name: Electric screwdriver

Type designation (Type):SK-3120L,SK-3180L,SK-3180LF

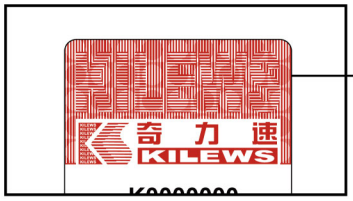
RoHS

Unit	Restricted substances and its chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr^{+6})	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Housing	○	○	○	○	○	○
Switch line	○	○	○	○	○	○
MOTOR ASSEMBLY	○	○	○	○	○	○
Gear Housing	○	○	○	○	○	○
CORD ASSEMBLY	○	○	○	○	○	○

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Description of Verification



1.A feel of rough and relief by touching.



2.The image “ ” can be visualized at the right viewing angle.



3.The hidden image of “**KILEWS**” can be observed from an oblique angle of 15 degree.

The Way to Verify

