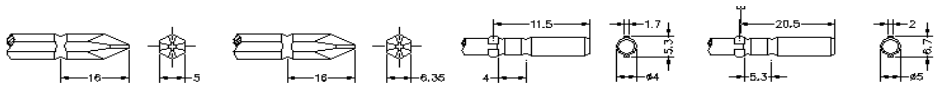
※主 要 技 術 參 數

機　　型		SK-3120P	SK-3180P	SK-3180PF	SK-3220P	SK-3280P	SK-3280PF
輸入電壓		AC100V / 110V~120V　50HZ/60HZ			AC 220V~240V　50HZ/60HZ		
額定功率		60W					
扭 力	(kgf.cm)	2~12	3~19	2~12	2~12	3~19	2~12
	(Lbf.in)	1.77~10.44	2.57~16.46	1.77~10.44	1.77~10.44	2.57~16.46	1.77~10.44
	(N.m)	0.2~1.18	0.29~1.86	0.2~1.18	0.2~1.18	0.29~1.86	0.2~1.18
扭力精度 (%)		±3%					
扭 力 調 整		無段式					
空轉速 n0: (r/min)		1000	1000	2000	1000	1000	2000
無負荷電流(A)		0.3A	0.3A	0.3A	0.2A	0.2A	0.2A
適用螺絲直徑 (mm)	機械牙	1.6~3.0	2.6~3.5	2.0~3.0	1.6~3.0	2.6~3.5	2.0~3.0
	自攻牙	1.6~2.6	2.0~3.0	2.0~2.6	1.6~2.6	2.0~3.0	2.0~2.6
重　量 (g)		550					
長　度 (mm)		242					
適用扭力固定環		KC-6C					
適用起子架		KH-4、(KC & KH-2)					
適用起子頭		 HEX 5mm, HEX 6.35mm Ø4mm, Ø5mm					

* 1N.m=10.2Kgf.cm　1N.m=8.85Lbf.in

※標　准　配　件

1・ 起子頭（ＢＩＴ）型號：　NO. 00#　適用於直徑 1.3~1.8mm 螺絲

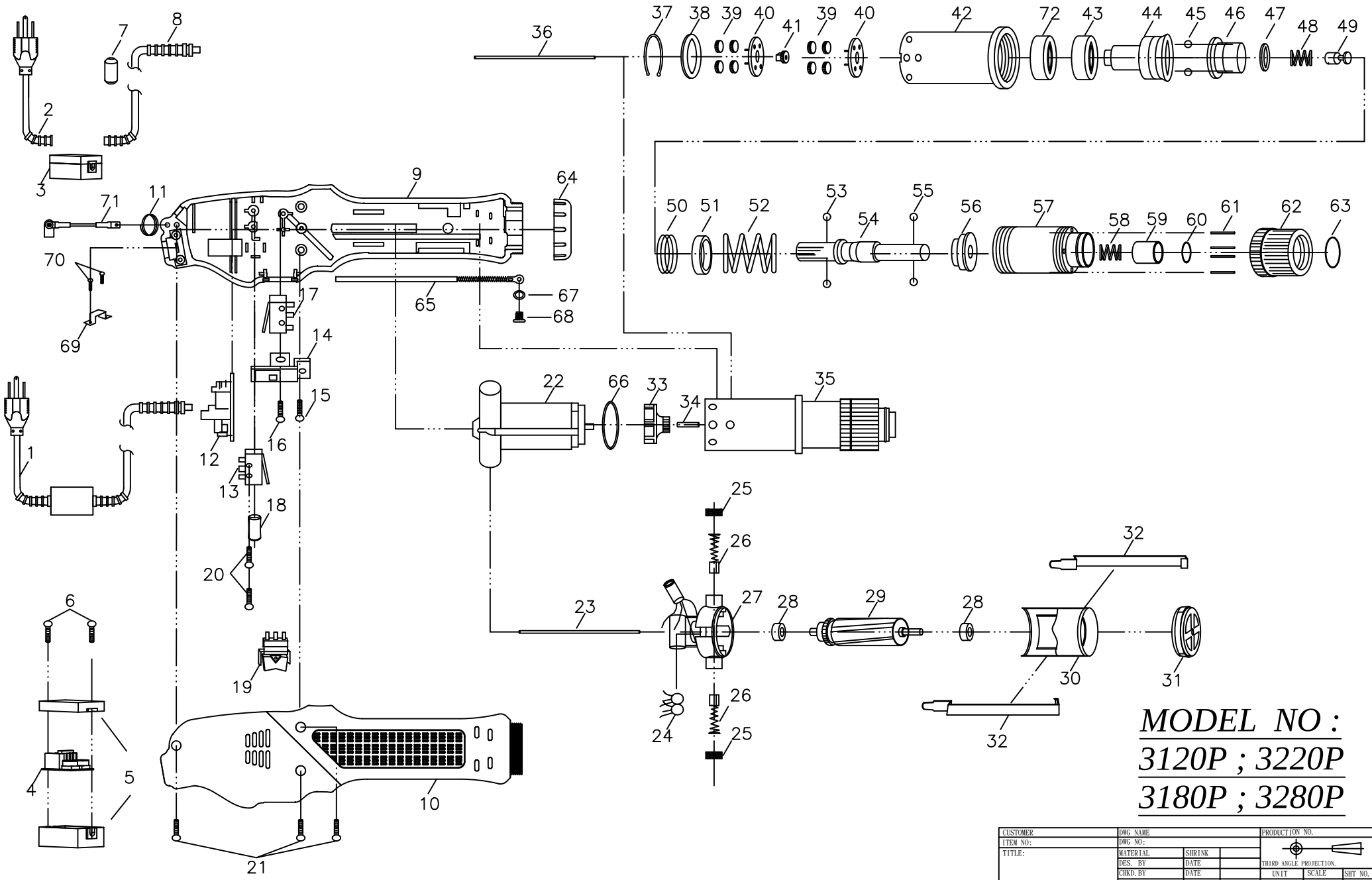
NO. 0#　適用於直徑 1.8~2.0mm 螺絲

NO. 1#　適用於直徑 2.0~2.6mm 螺絲

NO. 2#　適用於直徑 3.0~4.0mm 螺絲

SK-3120	SK-3220	配附 BIT	1# & 2#	各１支
SK-3180	SK-3280	配附 BIT	1# & 2#	各１支
SK-3180F	SK-3280F	配附 BIT	1# & 2#	各１支

2・ 起子吊簧(30cm)一條。



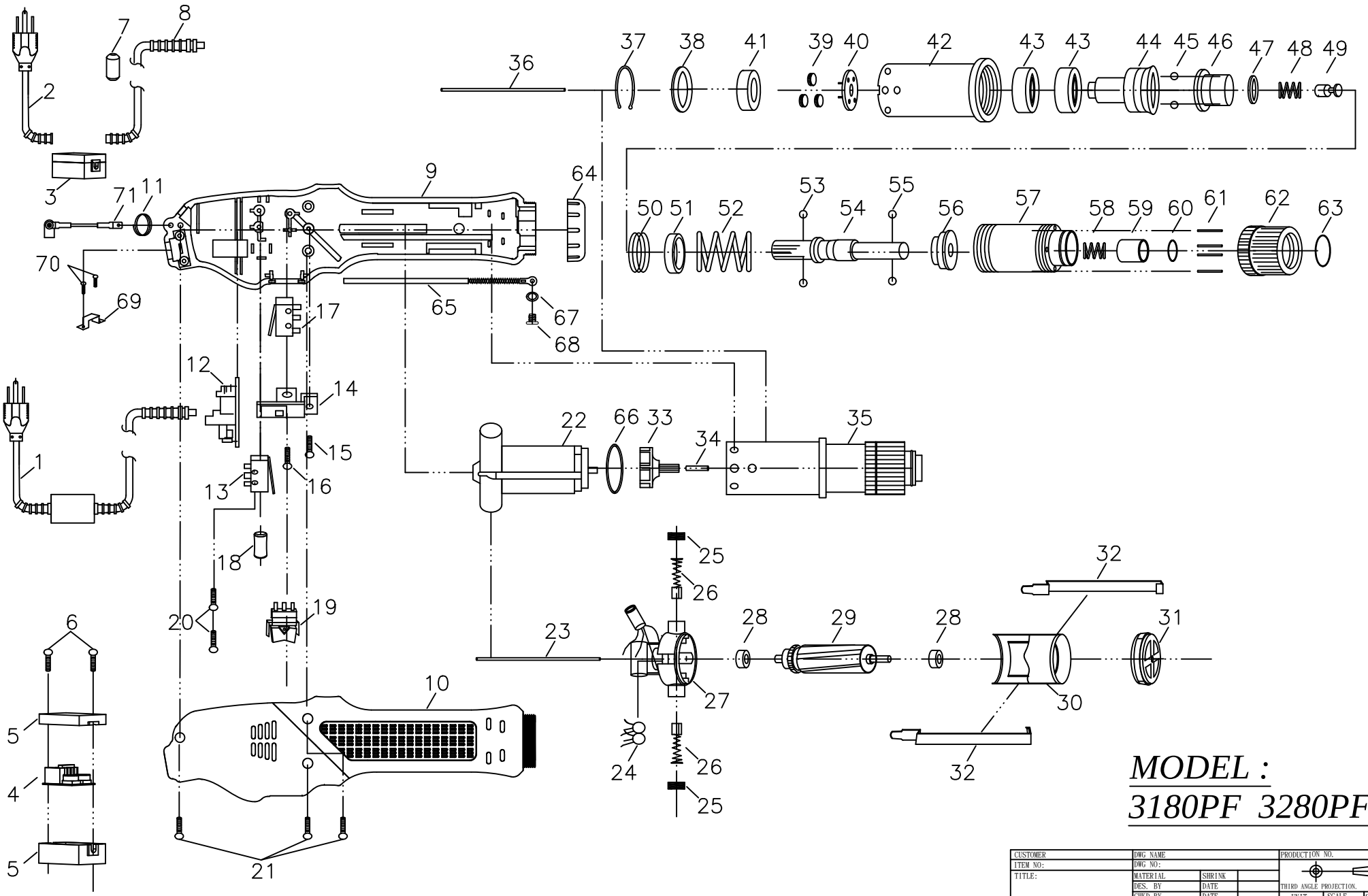
MODEL NO :

3120P ; 3220P

3180P ; 3280P

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		GZ33373-3C	CLUTCH ASSEMBLY FOR 3180PC	離合器整組 3180PC	1
	AF30001-1	Cord Assy-EUROPE Plug	電源線整組 歐規	1		GZ33373-3D	CLUTCH ASSEMBLY FOR 3180PD	離合器整組 3180PD	1
	AG30001-1	Cord Assy-BRITISH Plug	電源線整組 英規	1		GZ33373-3AD	CLUTCH ASSEMBLY FOR 3180PAD	離合器整組 3180PAD	1
	AJ30001-1	Cord Assy-INDIA Plug	電源線整組 印規	1	36	MJ33241	PILOT ROD	開關引導棒	1
	AD30001-1	Cord Assy-AUSTRALIA Plug	電源線整組 澳規	1	37	GK20231	"C" RING FOR CH20241	齒輪固定C環	1
2	AA30007-1	Cord 1FT with AMERICA Plug	1呎長電源線 美規	1	38	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	39	GH20241-2	IDLE GEAR	游星齒輪	8
	AA30007-5	Cord 1FT with BRITISH Plug	1呎長電源線 英規	1	40	GG30271	GEAR SEAT	齒盤	2
	AA30007-5E	Cord 1FT with INDIA Plug	1呎長電源線 印規	1	41	G20105	CENTRAL GEAR	中心齒	1
	AA30007-1D	Cord 1FT with AUSTRALIA Plug	1呎長電源線 澳規	1	42	GA30311-6	GEAR CASE	上離合器筒	1
3	EJ30002-2	EMC-BOX ASSEMBLY	EMC盒成品	1	43	GN30321	MAIN BEARING	離合器主軸承	1
4	EG30005-3	P.C.B-EMC	PC板-EMC	1	44	GX33319-2	SHAFT GUIDE FOR "3120P"	上離合器頭-3120P	1
5	EC30006	EMC-BOX CASE ONLY	EMC盒 上下蓋	1		GX33318-2	SHAFT GUIDE FOR "3180P"	上離合器頭-3180P	1
6	CH90152-1	SCREW	螺絲	2	45	GP30351	STEEL BALLS 4mm	跳脫鋼珠 4mm	2
7	ED30004	FILTER	電磁夾	1	46	GF33317	WARING PLATE	扭力推盤	1
8	AA30009-1T	CORD 9FT	9呎長電源線	1	47	GV33316	INNER SPRING CAP	下壓式彈簧蓋	1
9	CB33411	HOUSING-UNDERSIDE -ORANGE/BLACK	下蓋-橙-黑	1	48	GO33315-2	INNER SPRING FOR 3120P	下壓式內彈簧-3120P	1
10	CA33411	HOUSING-UPSIDE -ORANGE/BLACK	上蓋-橙-黑	1		GO33315	INNER SPRING FOR 3180P	下壓式內彈簧-3180P	1
11	CJ20011	SUSPENSION RING	起子吊環	1	49	GU30361	STOP PILOT	停止用酒杯	1
12	EG90111	CONTROL BOARD -110V	PC板-110V	1	50	GO30541	SPRING FOR 3120P	兩段式小彈簧-3120P	1
	EG90112	CONTROL BOARD -220V	PC板-220V	1		GO30541-2	SPRING FOR 3180P	兩段式小彈簧-3180P	1
13	HB30061	SHUT OFF SWITCH	停止開關	1	51	GO30531	SPRING CAP	彈簧蓋	1
14	CE90101-1	SWITCH BASE	三合一開關架	1	52	GE30411-19	WARING SPRING FOR 3120P	扭力彈簧-3120P	1
15	CH90121	SCREW	螺絲	1		GE30413-6	WARING SPRING FOR 3180P	扭力彈簧-3180P	1
16	CH90131	SCREW	螺絲	1	53	GP30371	STEEL BALLS 3.15mm	酒杯鋼珠3.15mm	2
17	HB91061	START SWITCH	啟動開關	1	54	GD33319A	SHAFT FOR "A" TYPE	傳動軸(A頭)	1
18	E31908	BRAKE RESISTOR-110V	剎車電阻-110V	1		GD33319B	SHAFT FOR "B" TYPE	傳動軸(B頭)	1
	E31908-4	BRAKE RESISTOR-220V	剎車電阻-220V	1		GD33319C	SHAFT FOR "C" TYPE	傳動軸(C頭)	1
19	HA91041	CHANGEOVER SWITCH-3120P 3220P	正反開關-3120P 3220P	1		GD33319D	SHAFT FOR "D" TYPE	傳動軸(D頭)	1
	HA91042	CHANGEOVER SWITCH-3180P 3280P	正反開關-3180P 3280P	1		GD33319AD	SHAFT FOR "AD" TYPE	傳動軸(AD頭)	1
20	CH90151-1	SCREW	螺絲	2	55	GP20331	BIT PILOT FOR "A&D"	起子頭帽鋼珠(A&D用)	2
21	CH20102	SCREW	螺絲	3		GP21291B	BIT PILOT FOR "B&C"	起子頭帽鋼珠(B&C用)	2
22	MO30111-2	MOTOR ASSEMBLY -110V	馬達整組-110V	1	56	GY33313	WARING SPRING BASE	止推盤	1
	MO33111-1	MOTOR ASSEMBLY -220V	馬達整組-220V	1	57	GB20381-8	CLUTCH CASE FOR "A.C.D"TYPE	下離合器筒(A.C.D用)	1
23	MI30512-1	PILOT ROD	開關引導棒	1		GB20381-9	CLUTCH CASE FOR "B"TYPE	下離合器筒(B用)	1
24	EB33610-2	CERAMICS CAPACITOR	陶瓷電容	2	58	GO30452	BIT SPRING FOR 3120P 3180PA,C,D	起子頭帽彈簧 3120P 3180PA,C,D	1
25	MD91531-1	BRUSH CAP	碳刷蓋	2		GO20391B-J	BIT SPRING FOR 3120PB	起子頭帽彈簧 3120PB	1
26	MC21411	CARBON-110V	碳刷-110V	2		GO20391B	BIT SPRING FOR 3180PB	起子頭帽彈簧 3180PB	1
	MC20161	CARBON-220V	碳刷-220V	2	59	GJ30461	BIT SLEEVE FOR "A,C,D"	起子頭帽(A,C,D)	1
27	ML33382-1	MOTOR TOP COVER ASSY-110V	碳刷座半成品-110V	1		GJ3046B	BIT SLEEVE FOR "B"	起子頭帽(B)	1
	ML33572-1	MOTOR TOP COVER ASSY-220V	碳刷座半成品-220V	1	60	GO30471	"C" RING FOR GJ30461"A,C,D"	起子頭帽C環(A,C,D)	1
28	ME21481	ARMATURE BEARING	馬達軸承	2		GQ21361	"C" RING FOR GJ30461"B"	起子頭帽C環(B)	1
29	MH30601-2	ARMATURE-110V	電樞-110V	1	61	GL30481-1	TORQUE ADJUST PING	扭力調整棒	4
	MH33601-1	ARMATURE-220V	電樞-220V	1	62	GM30491	TORQUE ADJUST RING	扭力調整環	1
30	MJ33631-1	MOTOR YOKE ASSEMBLY	馬達鐵圈連磁鐵	1	63	GS30501	"C"RING FOR GM30491	扭力環C環	1
31	MB33651-1A	MOTOR END COVER	馬達前蓋	1	64	CD20111-1	COUPLER	外殼前鎖環	1
32	MA33621-1B	ASSEMBLING SPRING	馬達固定鐵片	2	65	CH30681T	GROUNDING MEANS	接地線	1
33	MK33091-1	FAN	風扇	1	66	MF30101	INSULATE WASHER	墊圈	1
34	MG91081	PILOT ROD	陶瓷棒	1	67	CH20102-10	WASHER	華司	1
35	GZ33373-2A	CLUTCH ASSEMBLY FOR 3120PA	離合器整組 3120PA	1	68	CH20102-11	SCREW	地線螺絲	1
	GZ33373-2B	CLUTCH ASSEMBLY FOR 3120PB	離合器整組 3120PB	1	69	CH20102-2	WIRE CLAMP	線夾	1
	GZ33373-2C	CLUTCH ASSEMBLY FOR 3120PC	離合器整組 3120PC	1	70	CH20102-3	SCREW FOR WIRE CLAMP	線夾螺絲	2
	GZ33373-2D	CLUTCH ASSEMBLY FOR 3120PD	離合器整組 3120PD	1	71	P12104	RETAINING CLIP	八公分固定線	1
	GZ33373-3A	CLUTCH ASSEMBLY FOR 3180PA	離合器整組 3180PA	1	72	GN30435	MAIN BEARING	離合器主軸承	1
	GZ33373-3B	CLUTCH ASSEMBLY FOR 3180PB	離合器整組 3180PB	1					



MODEL :

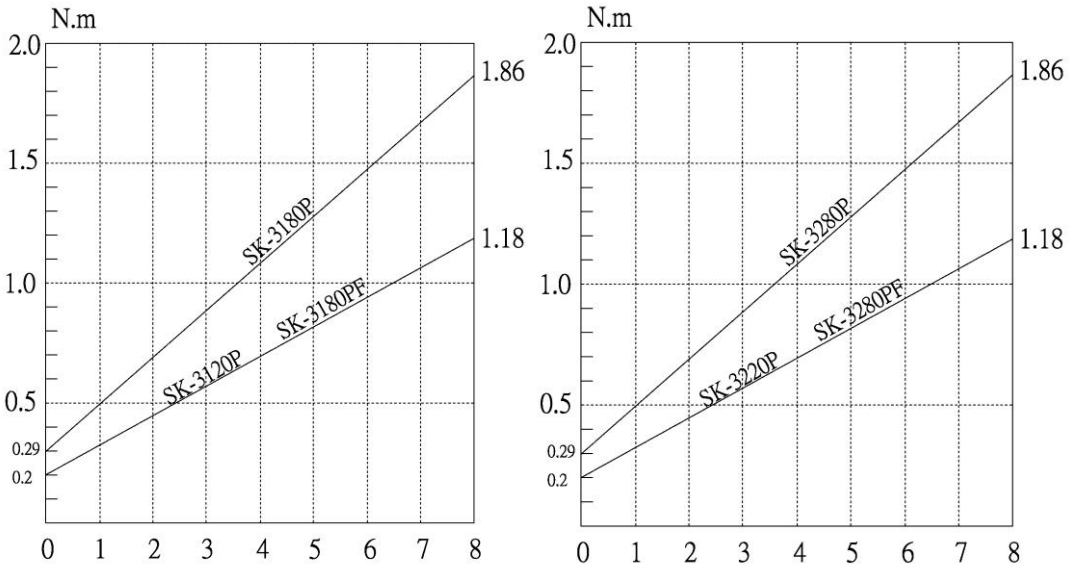
3180PF 3280PF

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	AC30001-1F	Cord Assy-AMERICA Plug	電源線整組 美規	1		GZ33373-3CF	CLUTCH ASSEMBLY FOR 3180PFC	離合器整組 3180PFC	1
	AF30001-1F	Cord Assy-EUROPE Plug	電源線整組 歐規	1		GZ33373-3DF	CLUTCH ASSEMBLY FOR 3180PFD	離合器整組 3180PFD	1
	AG30001-1F	Cord Assy-BRITISH Plug	電源線整組 英規	1		GZ33373-3ADF	CLUTCH ASSEMBLY FOR 3180PFAD	離合器整組 3180PFAD	1
	AJ30001-1F	Cord Assy-INDIA Plug	電源線整組 印規	1	36	MI33241	PILOT ROD	開關引導棒	1
	AD30001-1F	Cord Assy-AUSTRALIA Plug	電源線整組 澳規	1	37	GK20231	"C" RING FOR CH20241	齒輪固定C環	1
2	AA30007-1	Cord 1FT with AMERICA Plug	1呎長電源線 美規	1	38	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	39	GH20241-3	IDLE GEAR	游星齒輪	3
	AA30007-5	Cord 1FT with BRITISH Plug	1呎長電源線 英規	1	40	GG20271-1	GEAR SEAT	齒盤	1
	AA30007-5E	Cord 1FT with INDIA Plug	1呎長電源線 印規	1	41	G21302	WASHER	齒輪墊圈	1
	AA30007-1D	Cord 1FT with AUSTRALIA Plug	1呎長電源線 澳規	1	42	GA30311-9	GEAR CASE	上離合器筒	1
3	EJ30002-5	EMC-BOX ASSEMBLY	EMC盒成品	1	43	GN30321	MAIN BEARING	離合器主軸承	1
4	EG30005	P.C.B-EMC	PC板-EMC	1	44	GX33319-4	SHAFT GUIDE	上離合器頭	1
5	EC30006	EMC-BOX CASE ONLY	EMC盒 上下蓋	1	45	GP30351	STEEL BALLS 4mm	跳脫鋼珠 4mm	2
6	CH90152-1F	SCREW	螺絲	2	46	GF33317	WARING PLATE	扭力推盤	1
7	ED30004	FILTER	電磁夾	1	47	GV33316	INNER SPRING CAP	下壓式彈簧蓋	1
8	AA30009-1T	CORD 9FT	9呎長電源線	1	48	GO33315-2	INNER SPRING	下壓式內彈簧	1
9	CB33411	HOUSING-UNDERSIDE -ORANGE/BLACK	下蓋-橙-黑	1	49	GU30361	STOP PILOT	停止用酒杯	1
10	CA33411	HOUSING-UPSIDE -ORANGE/BLACK	上蓋-橙-黑	1	50	GO30541	SPRING	兩段式小彈簧	1
11	CJ20011	SUSPENSION RING	起子吊環	1	51	GO30531	SPRING CAP	彈簧蓋	1
12	EG90111	CONTROL BOARD -110V	PC板-110V	1	52	GE30411-18	WARING SPRING FOR	扭力彈簧	1
	EG90112	CONTROL BOARD -220V	PC板-220V	1	53	GP30371	STEEL BALLS 3.15mm	酒杯鋼珠3.15mm	2
13	HB30061	SHUT OFF SWITCH	停止開關	1	54	GD33319A	SHAFT FOR "A" TYPE	傳動軸(A頭)	1
14	CE90101-1	SWITCH BASE	三合一開關架	1		GD33319B	SHAFT FOR "B" TYPE	傳動軸(B頭)	1
15	CH90121	SCREW	螺絲	1		GD33319C	SHAFT FOR "C" TYPE	傳動軸(C頭)	1
16	CH90131	SCREW	螺絲	1		GD33319D	SHAFT FOR "D" TYPE	傳動軸(D頭)	1
17	HB91061	START SWITCH	啟動開關	1		GD33319AD	SHAFT FOR "AD" TYPE	傳動軸(AD頭)	1
18	E31908	BRAKE RESISTOR-110V	剎車電阻-110V	1	55	GP20331	BIT PILOT FOR "A&D"	起子頭帽鋼珠(A&D用)	2
	E31908-4	BRAKE RESISTOR-220V	剎車電阻-220V	1		GP21291B	BIT PILOT FOR "B&C"	起子頭帽鋼珠(B&C用)	2
19	HA91042	CHANGEOVER SWITCH-3180P 3280P	正反開關	1	56	GY33313	WARING SPRING BASE	止推盤	1
20	CH90151-1	SCREW	螺絲	1	57	GB20381-8	CLUTCH CASE FOR "A.C.D"TYPE	下離合器筒(A.C.D用)	1
21	CH20102	SCREW	螺絲	2		GB20381-9	CLUTCH CASE FOR "B"TYPE	下離合器筒(B用)	1
22	MO30111-4	MOTOR ASSEMBLY -110V	馬達整組-110V	3	58	GO30452	BIT SPRING FOR "A,C,D"	起子頭帽彈簧(A,C,D)	1
	MO33111-2	MOTOR ASSEMBLY -220V	馬達整組-220V	1		GO20391B-J	BIT SPRING FOR "B"	起子頭帽彈簧(B)	1
23	MI30512-1	PILOT ROD	開關引導棒	1	59	GJ30461	BIT SLEEVE FOR "A,C,D"	起子頭帽(A,C,D)	1
24	EB33610-2	CERAMICS CAPACITOR	陶瓷電容	1		GJ3046B	BIT SLEEVE FOR "B"	起子頭帽(B)	1
25	MD91531-1	BRUSH CAP	碳刷蓋	2	60	GQ30471	"C" RING FOR GJ30461"A,C,D"	起子頭帽C環(A,C,D)	1
26	MC21411	CARBON-110V	碳刷-110V	2		GQ21361	"C" RING FOR GJ30461"B"	起子頭帽C環(B)	1
	MC20161	CARBON-220V	碳刷-220V	2	61	GL30481-1	TORQUE ADJUST PING	扭力調整棒	4
27	ML33382-1	MOTOR TOP COVER ASSY-110V	碳刷座半成品-110V	2	62	GM30491	TORQUE ADJUST RING	扭力調整環	1
	ML33572-1	MOTOR TOP COVER ASSY-220V	碳刷座半成品-220V	1	63	GS30501	"C"RING FOR GM30491	扭力環C環	1
28	ME21481	ARMATURE BEARING	馬達軸承	1	64	CD20111-1	COUPLER	外殼前鎖環	1
29	MH30601-5	ARMATURE-110V	電樞-110V	2	65	CH30681T	GROUNDING MEANS	接地線	1
	MH33601-2	ARMATURE-220V	電樞-220V	1	66	MF30101	INSULATE WASHER	墊圈	1
30	MJ33631-1	MOTOR YOKE ASSEMBLY	馬達鐵圈連磁鐵	1	67	CH20102-10	WASHER	華司	1
31	MB33651-1A	MOTOR END COVER	馬達前蓋	1	68	CH20102-11	SCREW	地線螺絲	1
32	MA33621-1B	ASSEMBLING SPRING	馬達固定鐵片	1	69	CH20102-2	WIRE CLAMP	線夾	1
33	MK33091PF	FAN	風扇	2	70	CH20102-3	SCREW FOR WIRE CLAMP	線夾螺絲	2
34	MG30081-1	PILOT ROD	陶瓷棒	1	71	P12104	RETAINING CLIP	八公分固定線	1
35	GZ33373-3AF	CLUTCH ASSEMBLY FOR 3180PFA	離合器整組 3180PFA	1	72	GN30435	MAIN BEARING	離合器主軸承	1
	GZ33373-3BF	CLUTCH ASSEMBLY FOR 3180PFB	離合器整組 3180PFB	1					

※扭　力　調　整

1. 先行決定扭力大小，再用手旋轉扭力調整環至所需扭力位置。
2. 旋轉扭力調整環以增加或減少扭力輸出:順時針方向調至較高刻度，代表增加扭力。逆時針方向調至較低刻度，代表減少扭力。
3. 很多因素會影響扭力輸出。操作本電動螺絲起子時應循序漸進，先用小扭力試鎖螺絲，再漸漸增至較大扭力。
4. 扭力刻度與電動螺絲起子扭力的相互關係如扭力標示圖所示。扭力刻度的數值並非電動螺絲起子實際扭力的強弱，需對應電動螺絲起子型式以比對概略的扭力輸出值。
5. 鎖緊螺絲所需的扭力依其鉚合狀況或材質不同而有所差異，必要時可用扭力計量測及調整電動螺絲起子的扭力。
6. 電動螺絲起子經調整好扭力後，將外殼前鎖環鬆開取下，換上扭力固定環，這樣可避免人為擅意旋轉扭力調整環而讓原設定的扭力值遭到變動。
7. 在相同的扭力刻度下，反轉”R”的扭力會較大於正轉”F”的扭力，在不調整扭力調整環的情況下，有助於螺絲的拆卸；但是當螺絲緊度大於反轉扭力，離合器已經跳脫而螺絲仍無法鬆開時，仍需調整電動螺絲起子至較大扭力，方可鬆開螺絲。



注　意

1. 進行扭力調整時，應先停止電動螺絲起子運轉。
2. 機身上的扭力刻度僅供與扭力標示圖參考，不代表電動螺絲起子的扭力輸出值。
3. 電動螺絲起子的機械磨損狀況，依使用者之使用扭力、時間或頻率而有所差異，使用扭力越大、時間越長或頻率越高則磨損越快；新品在刻度 4 使用一個月後(每日 8 時，操作頻率 12Pcs/min)約有 3~5%的扭力衰減(刻度 8 則有 5~7%的衰減)，依使用時間的增長，其衰減程度會逐漸減少並趨於穩定，使用者可定期使用扭力計量測電動螺絲起子的扭力輸出是否符合需要，適時補償衰減的扭力。

RoHS

設備名稱：電動螺絲起子
Equipment name: Electric screwdriver

型號（型式）：SK-3120P,SK-3180P,SK-3180PF
Type designation (Type) ：SK-3120P,SK-3180P,SK-3180PF

單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr^{+6})	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
外殼 Housing	○	○	○	○	○	○
開關線路 Switch line	○	○	○	○	○	○
馬達 MOTOR ASSEMBLY	○	○	○	○	○	○
齒輪箱 Gear Housing	○	○	○	○	○	○
電源線 CORD ASSEMBLY	○	○	○	○	○	○

備考 1.〝超出 0.1 wt %〞及〝超出 0.01 wt %〞係指限用物質之百分比含量超出百分比含量基準值。
Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考 2.〝○〞係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2：“○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考 3.〝－〞係指該項限用物質為排除項目。
Note 3：The “–” indicates that the restricted substance corresponds to the exemption.