



EXPLODED VIEW DRAWING & PARTS LIST

SKD-BK960L

SKD-BK960LF

SKD-BK990L

SKD-BK9120L

SKD-BK960P

SKD-BK960PF

SKD-BK990P

SKD-BK9120P

Attention!

BK9120L/P is belonging to high torque series.

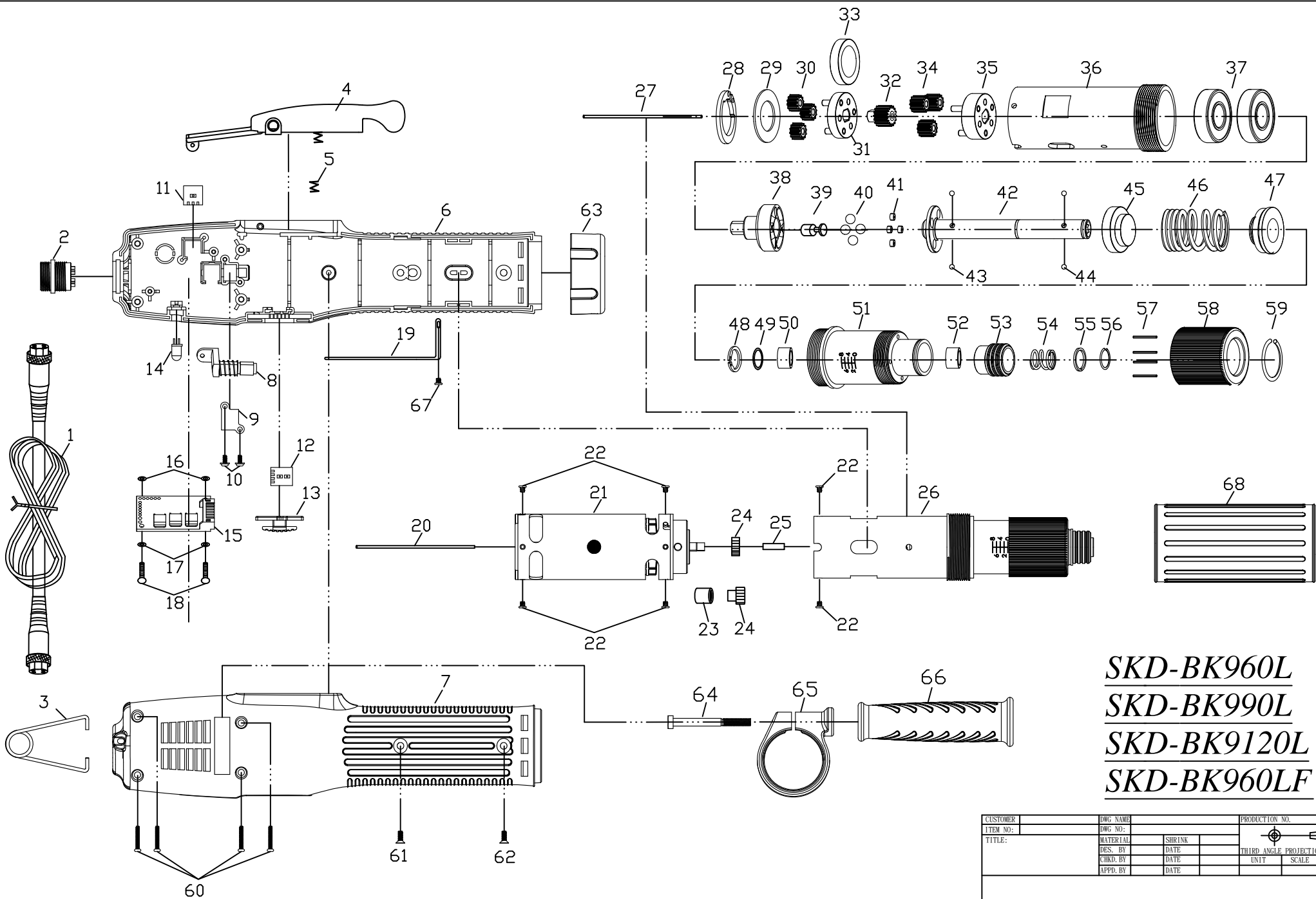
For safety consideration, please collaborate it with Auxiliary Arm (KP-AUXA).

DC-TYPE Automatic Non Carbon-Brush Series

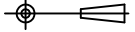
KILEWS INDUSTRIAL CO., LTD.

<http://www.kilews.com>

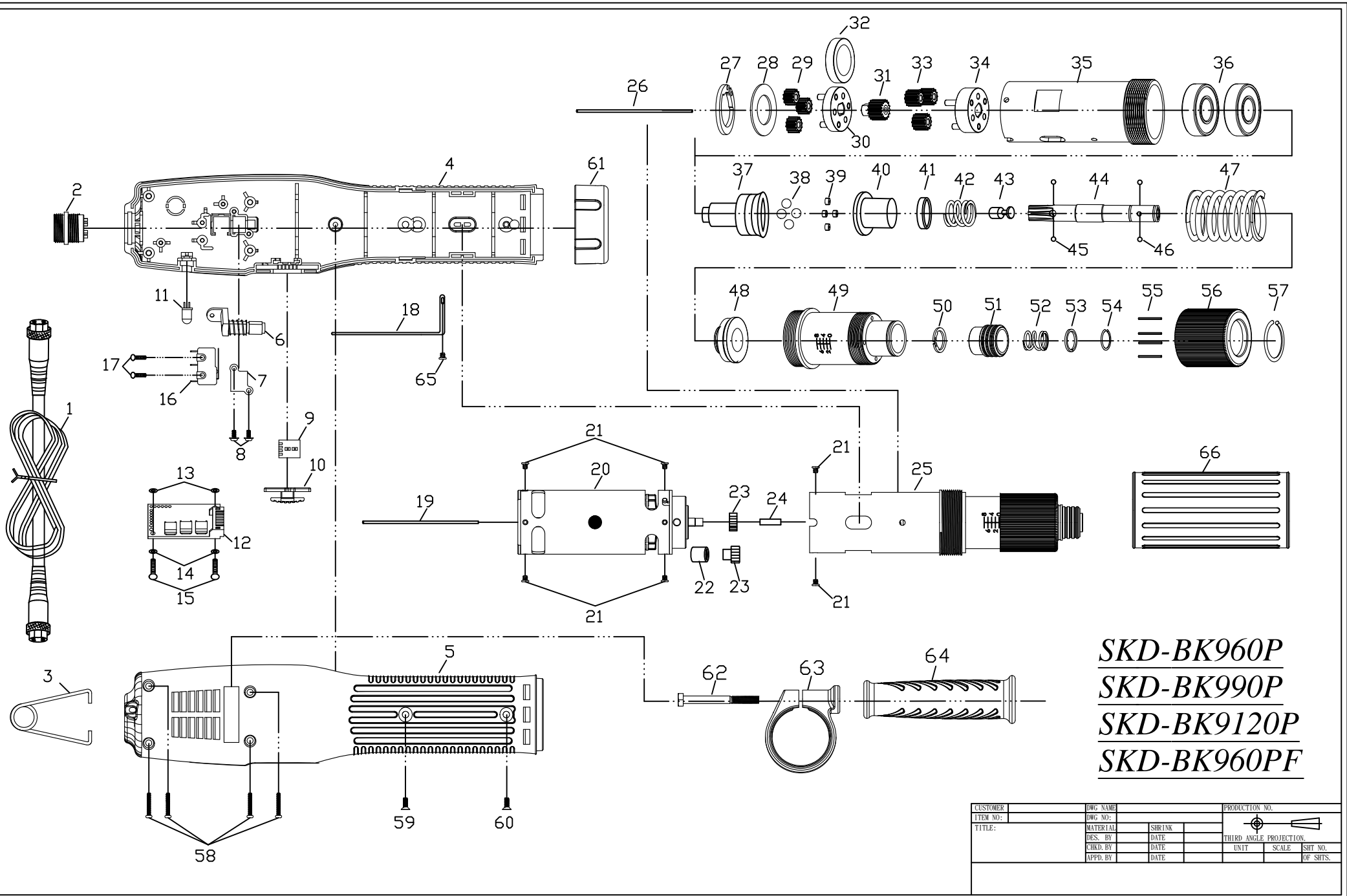
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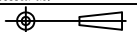
SKD-BK960L
SKD-BK990L
SKD-BK9120L
SKD-BK960LF

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

NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Qty	NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Qty
1	AA50001-56	CORD ASSEMBLY 2M	電源線 2M	1		GH92249	IDLE GEAR-BK9120L	上游星齒輪-BK9120L	3
2	PZ50190-6	CONNECTOR ASSEMBLY	6芯插座半成品	1	31	GG92278-1	GEAR SEAT-BK960L/BK990L	上齒盤-BK960L/BK990L	1
3	CJ20012-1	SUSPENSION HOOK	起子吊鉤	1		GG92280-2	GEAR SEAT-BK9120L	上齒盤-BK9120L	1
4	CC50020-2	TRIGGER ASSEMBLY	手按開關半成品	1	32	G20120	CENTRAL GEAR-BK960L/BK990L/BK9120L	中心齒-BK960L/BK990L/BK9120L	1
	CC50020-3	TRIGGER ASSEMBLY-ESD	手按開關半成品-防靜電	1	33	G21307	WASHER (HIGH SPEED)-BK960LF	快速墊圈-BK960LF	1
5	CK28031-2	TRIGGER SPRING	壓板彈簧	1	34	GH92253	IDLE GEAR-BK960LF	下游星齒輪-BK960LF	3
6	C40766F	HOUSING-UNDERSIDE (A'ssy) (GREY-BLACK)	下蓋半成品(灰-黑)	1		GH92249-1	IDLE GEAR-BK960L/BK990L/BK9120L	下游星齒輪-BK960L/BK990L/BK9120L	3
	C40766-1F	HOUSING-UNDERSIDE-ESD (A'ssy)	下蓋半成品-防靜電	1	35	GG92277-2	GEAR SEAT-BK960LF	下齒盤-BK960LF	1
7	CA80000	HOUSING-UPSIDE	上蓋	1		GG92280-1	GEAR SEAT-BK960L/BK990L/BK9120L	下齒盤-BK960L/BK990L/BK9120L	1
	CA80000-1	HOUSING-UPSIDE-ESD	上蓋-防靜電	1	36	GA91288-1	GEAR CASE	上離合器筒	1
8	CE50152-3	PUSH ROD	開關推桿半成品	1	37	GN30439-1	MAIN BEARING	離合器主軸承	2
9	CE80001	FIXTURE	三合一固定片	1	38	GC90311	CAM	上離合器頭	1
10	CH30200	SCREW FOR FIXTURE	三合一固定片螺絲	2	39	GU30371	STOP PILOT	停止用酒杯	1
11	EG31420-15	START SWITCH	啟動開關半成品	1	40	GP30361	STELL BALLS 5 φ	跳脫鋼珠 5 φ	4
12	EG31421-7	PCB-CHANGEOVER	正反開關半成品	1	41	GP30383-1	CUSHION	鋼珠墊塊	4
13	CI50212-14	F/R SWITCHING ELEMENT-BK960L/BK960LF	正反轉推板(黑色)-BK960L/BK960LF	1	42	GD91418-2	SHAFT FOR "B" TYPE	傳動軸-B	1
	CI50212-15	F/R SWITCHING ELEMENT-BK990L	正反轉推板(橙色)-BK990L	1		GD91418-3	SHAFT FOR "B9.5" TYPE	傳動軸-PB9.5	1
	CI50212-16	F/R SWITCHING ELEMENT-BK9120L	正反轉推板(白色)-BK9120L	1	43	GP30351	STELL BALLS 4 φ	酒杯鋼珠 4 φ	2
14	E33105-1	LED	LED	1	44	GP28330	STELL BALLS 3.5 φ	起子頭帽鋼珠 3.5 φ	2
15	EG31445-18BN	PCB	機板成品	1	45	GF90331	WARING PLATE	扭力推盤	1
16	P11020-1	INSULATING WASHER-ESD (0.8mm)	絕緣墊片-防靜電 (0.8mm)	2	46	GE92408-1	WARING SPRING-BK960L/BK960LF	扭力彈簧-BK960L/BK960LF	1
17	P11020-4	INSULATING WASHER-ESD (0.3mm)	絕緣墊片-防靜電 (0.3mm)	2		GE92409-1	WARING SPRING-BK990L	扭力彈簧-BK990L	1
18	CH90154	SCREW FOR PCB	固定PCB螺絲	2		GE92410-1	WARING SPRING-BK9120L	扭力彈簧-BK9120L	1
	CH20510	SCREW FOR PCB-ESD	固定PCB螺絲-防靜電	2	47	GY21324	WARING SPRING BASE	止推盤	1
19	CH30678C	GROUNDING MEANS	接地銅片	1	48	GK20236	"C" RING	傳動軸C形扣環	1
20	MI30511-12	PILOT ROD	引導棒無導磁	1	49	GV90333	WASHER	離合器耐磨墊片	1
21	MO00011-1CE	MOTOR ASSEMBLY-BK960L/990L	馬達整組-BK960L/990L	1	50	GN30446	RETAINER	保持器	1
	MO00012-1CE	MOTOR ASSEMBLY-BK960LF	馬達整組-BK960LF	1	51	GB30448	CLUTCH CASE	下離合器筒	1
	MO00013-1CE	MOTOR ASSEMBLY-BK9120L	馬達整組-BK9120L	1	52	G21303	SPACER	起子頭帽墊圈	1
22	CH20504-11	SCREW FOR MOTOR	馬達螺絲	7	53	GJ21354-1	BIT SLEEVE	起子頭帽	1
23	M20103	GEAR COUPLER-BK9120L	主齒連接套-BK9120L	1	54	GO21342	BIT SPRING	起子頭帽彈簧	1
24	M11336	GEAR-BK960L/990L	馬達主齒-BK960L/990L	1	55	G21436	SPRING WASHER	起子頭帽彈簧墊片	1
	M11337	GEAR-BK9120L	馬達主齒-BK9120L	1	56	GQ21362	"C" RING	起子頭帽C環	1
25	MG30081-2	PILOT ROD	陶瓷棒	1	57	GL21371-9	TORQUE ADJUSTING PINS	扭力調整棒	4
26	GZ83005-1B	CLUTCH ASSEMBLY-BK960LFB	離合器成品-BK960LFB	1	58	GM30498-1	TORQUE ADJUST RING	扭力調整環	1
	GZ83005-8B	CLUTCH ASSEMBLY-BK960LB	離合器成品-BK960LB	1	59	GS21391-2	"C" RING	調整環C環	1
	GZ83005-2B	CLUTCH ASSEMBLY-BK990LB	離合器成品-BK990LB	1	60	CH20102	SCREW FOR HOUSING M3*12L	外殼螺絲 M3*12L	4
	GZ83005-3B	CLUTCH ASSEMBLY-BK9120LB	離合器成品-BK9120LB	1	61	CH30228-1	SCREW FOR HOUSING M3*8L	外殼螺絲 M3*8L	2
	GZ83005-4B	CLUTCH ASSEMBLY-BK960LFB (9.5)	離合器成品-BK960LFB (9.5)	1	62	CH30228	SCREW FOR HOUSING M3*5L	外殼螺絲 M3*5L	2
	GZ83005-7B	CLUTCH ASSEMBLY-BK960LB (9.5)	離合器成品-BK960LB (9.5)	1	63	CD91039-1	COUPLER	前鎖環	1
	GZ83005-5B	CLUTCH ASSEMBLY-BK990LB (9.5)	離合器成品-BK990LB (9.5)	1	64	CH30195	SCREW	六角螺絲	1
	GZ83005-6B	CLUTCH ASSEMBLY-BK9120LB (9.5)	離合器成品-BK9120LB (9.5)	1	65	C15002-2	CLAMP-SIDE HANDLE	側手把固定環	1
27	MI30511-7	PILOT ROD	引導棒無導磁	1	66	C15001	HANDLE-SIDE HANDLE	手把	1
28	GK21181	"C" RING	齒輪固定C環	1	67	CH30193-30	SCREW	地線螺絲	1
29	GI21191	IRON WASHER	齒輪固定片	1	68	PE02003-6	Soft Cover	軟膠套	1
30	GH92247	IDLE GEAR-BK960L/BK990L	上游星齒輪-BK960L/BK990L	3					



SKD-BK960P
SKD-BK990P
SKD-BK9120P
SKD-BK960PF

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

NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty	NO	PARTS NO	PARTS NAME-E	PARTS NAME-C	Q'ty
1	AA50001-56	CORD ASSEMBLY 2M	電源線 2M	1		GH92249	IDLE GEAR-BK9120P	上游星齒輪-BK9120P	3
2	PZ50190-6	CONNECTOR ASSEMBLY	6芯插座半成品	1	30	GG92278-1	GEAR SEAT-BK960P/BK990P	上齒盤-BK960P/BK990P	1
3	CJ20012-1	SUSPENSION HOOK	起子吊鉤	1		GG92280-2	GEAR SEAT-BK9120P	上齒盤-BK9120P	1
4	C40767F	HOUSING-UNDERSIDE (A'ssy)	下蓋半成品	1	31	G20120	CENTRAL GEAR-BK960P/BK990P/BK9120P	中心齒-BK960P/BK990P/BK9120P	1
	C40767-1F	HOUSING-UNDERSIDE-ESD (A'ssy)	下蓋半成品-防靜電	1	32	G21307	WASHER (HIGH SPEED)-BK960PF	快速墊圈-BK960PF	1
5	CA80001	HOUSING-UPSIDE	上蓋	1	33	GH92253	IDLE GEAR-BK960PF	下游星齒輪-BK960PF	3
	CA80001-1	HOUSING-UPSIDE-ESD	上蓋-防靜電	1		GH92249-1	IDLE GEAR-BK960P/BK990P/BK9120P	下游星齒輪-BK960P/BK990P/BK9120P	3
6	CE50152-3	PUSH ROD	開關推桿半成品	1	34	GG92277-2	GEAR SEAT-BK960PF	下齒盤-BK960PF	1
7	CE80001	FIXTURE	三合一固定片	1		GG92280-1	GEAR SEAT-BK960P/BK990P/BK9120P	下齒盤-BK960P/BK990P/BK9120P	1
8	CH30200	SCREW FOR FIXTURE	三合一固定片 螺絲	2	35	GA91288	GEAR CASE	上離合器筒	1
9	EG31421-7	PCB-CHANGEVER	正反開關半成品	1	36	GN30439-1	MAIN BEARING	離合器主軸承	2
10	CI50212-14	F/R SWITCHING ELEMENT-BK960P/BK960PF	正反轉推板(黑色)-BK960P/BK960PF	1	37	GX90310	CAM	上離合器頭	1
	CI50212-15	F/R SWITCHING ELEMENT-BK990P	正反轉推板(橙色)-BK990P	1	38	GP30361	STELL BALLS 5 φ	跳脫鋼珠 5 φ	4
	CI50212-16	F/R SWITCHING ELEMENT-BK9120P	正反轉推板(白色)-BK9120P	1	39	GP30383-1	CUSHION	鋼珠墊塊	4
11	E33105-1	LED	LED	1	40	GF90330	WARING PLATE	扭力推盤	1
12	EG31445-18BN	PCB	控制機板成品	1	41	GV90331-1	SPRING CAP	扭力推盤蓋	1
13	P11020-1	INSULATING WASHER-ESD (0.8mm)	絕緣墊片-防靜電(0.8mm)	2	42	GO90342-1	INNER SPRING	下壓式彈簧	1
14	P11020-4	INSULATING WASHER-ESD (0.3mm)	絕緣墊片-防靜電(0.3mm)	2	43	GU30370	STOP PILOT	停止用酒杯	1
15	CH90154	SCREW FOR PCB	固定PCB螺絲	2	44	GD91416-2	SHAFT FOR "PB" TYPE	傳動軸-B	1
	CH20510	SCREW FOR PCB-ESD	固定PCB螺絲-ESD	2		GD91416-3	SHAFT FOR "PB9.5"TYPE	傳動軸-PB9.5	1
16	H10201	SHUT OFF SWITCH	剎車開關	1	45	GP30352	STELL BALLS 4.5 φ	酒杯鋼珠 4.5 φ	2
17	CH90151-1	SCREW FOR SHUT OFF SWITCH	剎車開關螺絲	2	46	GP21291A	STELL BALLS 3 φ	起子頭帽鋼珠 3 φ	2
18	CH30678C	GROUNDING MEANS	接地銅片	1	47	GE92408	WARING SPRING-BK960P/BK960PF	扭力彈簧-BK960P/BK960PF	1
19	MI30511-12	PILOT ROD	開關引導棒	1		GE92409	WARING SPRING-BK990P	扭力彈簧-BK990P	1
20	MO00011-1CE	MOTOR ASSEMBLY-BK960P/990P	馬達整組-BK960P/990P	1		GE92410	WARING SPRING-BK9120P	扭力彈簧-BK9120P	1
	MO00012-1CE	MOTOR ASSEMBLY-BK960PF	馬達整組-BK960PF	1	48	GY21324	WARING SPRING BASE	止推盤	1
	MO00013-1CE	MOTOR ASSEMBLY-BK9120P	馬達整組-BK9120P	1	49	GB30449	CLUTCH CASE A'SSY	下離合器筒半成品	1
21	CH20504-11	SCREW FOR MOTOR	馬達螺絲	7	50	GK20238	"C"RING	傳動軸C形扣環	1
22	M20103	GEAR COUPLER-BK9120P	主齒連接套-BK9120P	1	51	GJ21354	BIT SLEEVE	起子頭帽	1
23	M11336	GEAR-BK960P/BK990P	馬達主齒-BK960P/BK990P	1	52	GO21348	BIT SPRING	起子頭帽彈簧	1
	M11337	GEAR-BK9120P	馬達主齒-BK9120P	1	53	G21434	SPRING WASHER	起子頭帽彈簧墊片	1
24	MG30081-2	PILOT ROD	陶瓷棒	1	54	GQ21365	"C"RING	起子頭帽 C環	1
25	GZ83004-1B	CLUTCH ASSEMBLY-BK960PFB	離合器成品-BK960PFB	1	55	GL21371	TORQUE ADJUSTING PINS	扭力調整棒	4
	GZ83004-8B	CLUTCH ASSEMBLY-BK960PB	離合器成品-BK960PB	1	56	GM30498	TORQUE ADJUSTING RING	扭力調整環	1
	GZ83004-2B	CLUTCH ASSEMBLY-BK990PB	離合器成品-BK990PB	1	57	GS21391-2	"C" RING	調整環C環	1
	GZ83004-3B	CLUTCH ASSEMBLY-BK9120PB	離合器成品-BK9120PB	1	58	CH20102	SCREW FOR HOUSING M3*12L	外殼螺絲 M3*12L	4
	GZ83004-4B	CLUTCH ASSEMBLY-BK960PFB9.5	離合器成品-BK960PFB9.5	1	59	CH30228-1	SCREW FOR HOUSING M3*8L	外殼螺絲 M3*8L	2
	GZ83004-7B	CLUTCH ASSEMBLY-BK960PB9.5	離合器成品-BK960PB9.5	1	60	CH30228	SCREW FOR HOUSING M3*5L	外殼螺絲 M3*5L	2
	GZ83004-5B	CLUTCH ASSEMBLY-BK990PB9.5	離合器成品-BK990PB9.5	1	61	CD91039-1	COUPLER	前鎖環	1
	GZ83004-6B	CLUTCH ASSEMBLY-BK9120PB9.5	離合器成品-BK9120PB9.5	1	62	CH30195	SCREW	六角螺絲	1
26	MI30511-7	PILOT ROD	開關引導棒	1	63	C15002-2	CLAMP-SIDE HANDLE	側手把固定環	1
27	GK21181	"C" RING	齒輪固定 C環	1	64	C15001	HANDLE-SIDE HANDLE	手把	1
28	GI21191	IRON WASHER	齒輪固定片	1	65	CH30193-30	SCREW	地線螺絲	1
29	GH92247	IDLE GEAR-BK960P/BK990P	上游星齒輪-BK960P/BK990P	3	66	PE02003-6	Soft Cover	軟膠套	1