

External 2/3 Hole 2/4 Hole, 4 Hole Puncher-A1

PARTS CATALOG

Canon

**October 1, 2015
Rev. 2**

Figure SNL Product Code No./Serial No.

	Product Code No.	Model Name	Remarks	Serial No.
1	F28-1062-000	2/3 Hole Puncher Unit-A1		SZP
2	F28-1063-000	2/4 Hole Puncher Unit-A1		SZQ
3	F28-1064 -000	4 Hole Puncher Unit-A1		SZR

	中オーダー	製品名	備考	シリアル Nb.
1	F28-1062-000	—		SZP
2	F28-1063-000	2 / 4 穴パンチャーユニット・A 1		SZQ
3	F28-1064-000	—		SZR

FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
SNL	NPN		RF	Product Code No./Serial No.	
1	F28-1062-000		1	2/3 Hole Puncher Unit-A1	SZP
2	F28-1063-000		1	2/4 Hole Puncher Unit-A1	SZQ
3	F28-1064-000		1	4 Hole Puncher Unit-A1	SZR

Figure List

Figure No.	Figure Name
SNL	Product Code No./Serial No.
N01	ACCESSORIES
N10A	PUNCH MAIN BODY (2/3 HOLE)
N10B	PUNCH MAIN BODY (2/4 HOLE)
N10C	PUNCH MAIN BODY (4 HOLE)
N30A	PUNCH SLIDE ASSEMBLY (2/3 HOLE)
N30B	PUNCH SLIDE ASSEMBLY (2/4 HOLE)
N30C	PUNCH SLIDE ASSEMBLY (4 HOLE)
ZZA	MECHANICAL STANDARD PARTS (HOW TO USE)
ZZB	MECHANICAL STANDARD PARTS (SCREWS)
ZZC	MECHANICAL STANDARD PARTS (BOLTS)
ZZD	MECHANICAL STANDARD PARTS (NUTS)
ZZE	MECHANICAL STANDARD PARTS (RETAINING RINGS)

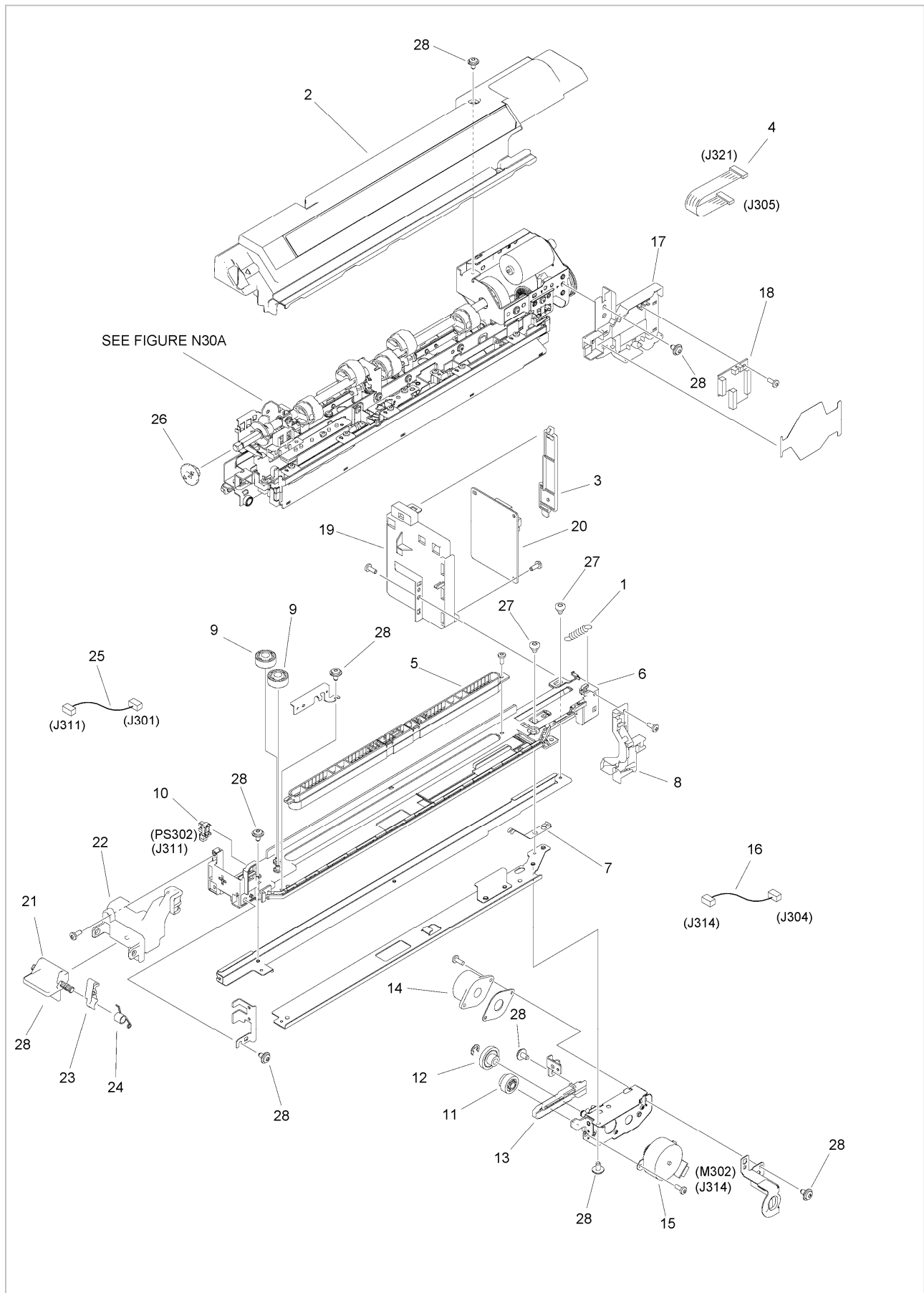
This exploded view diagram illustrates the assembly of a printer. The central component is the printer's main body. Surrounding it are various parts, each labeled with a number or code:

- 1**: A small rectangular component, likely a cover or a small tray.
- 2**: A small component, possibly a pin or a small bracket.
- 3**: A small component, possibly a pin or a small bracket.
- 4**: A component with a curved arm, likely a lever or a spring mechanism.
- 5**: A small component, possibly a pin or a small bracket.
- 6**: A square component with a circular hole, likely a base or a support.
- 7**: A long, narrow component, likely a tray or a carriage.
- 8**: A small component, possibly a pin or a small bracket.
- 9**: A component with a curved arm, likely a lever or a spring mechanism.
- 10**: A small component, possibly a pin or a small bracket.
- 11**: A component with a curved arm, likely a lever or a spring mechanism.
- 12**: A long, narrow component, likely a tray or a carriage.
- 13**: A small component, possibly a pin or a small bracket.
- 14**: A small component, possibly a pin or a small bracket.
- 15**: A small component, possibly a pin or a small bracket.
- 16**: A component with a curved arm, likely a lever or a spring mechanism.
- 17**: A small component, possibly a pin or a small bracket.

Additional labels include (J302), (J303), (J312), (J313), and (PBA303) (J312), which likely refer to specific models or configurations of the components.

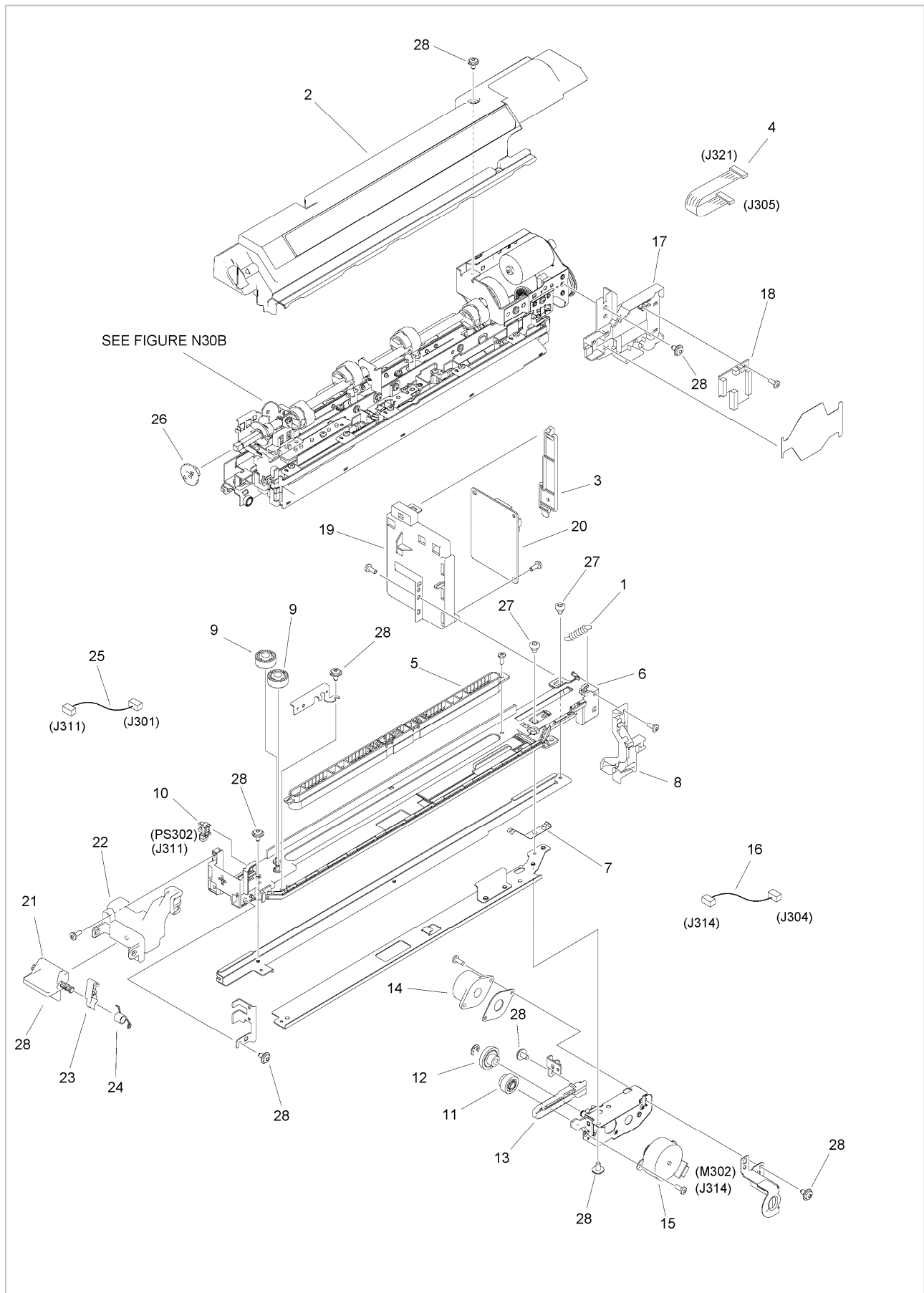
FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
N01	NPN		RF	ACCESSORIES	
1	FE3-7606-000		1	COVER, PUNCH, FRONT	
2	FE3-9969-000		1	GUIDE, POSITIONING	
3	FE4-4098-000		1	COVER, PUNCH, REAR	
4	FE4-8413-000		1	GUIDE, PUNCH OPEN/CLOSE	
5	FL0-2248-000		1	SHAFT, PUNCH OPEN/CLOSE	
6	FL0-3082-000		1	SHEET, BLANKING	
7	FM1-H253-000		1	TRAY, WASTE	
8	FS6-8656-000		1	LABEL	
9	FM1-H825-000		1	CABLE, FINISHER	
10	FM1-J787-000		1	HOLDER, SHAFT	
11	FM1-J788-000		1	WASTE SENSOR ASSEMBLY	
12	FE3-7627-000		1	GUIDE, SENSOR CABLE	
13	FE4-4091-000		1	COVER, WASTE SENSOR	
14	FE4-4108-000		1	MOUNT, WASTE SENSOR	
15	FM1-J805-000		1	WASTE SENSOR PCB ASSEMBLY	PBA303
16	FM1-H823-000		1	CABLE, WASTE	
17	XB2-8300-605		1	SCREW, W/WASHER, M3X6	

Figure N10A PUNCH MAIN BODY (2/3 HOLE)



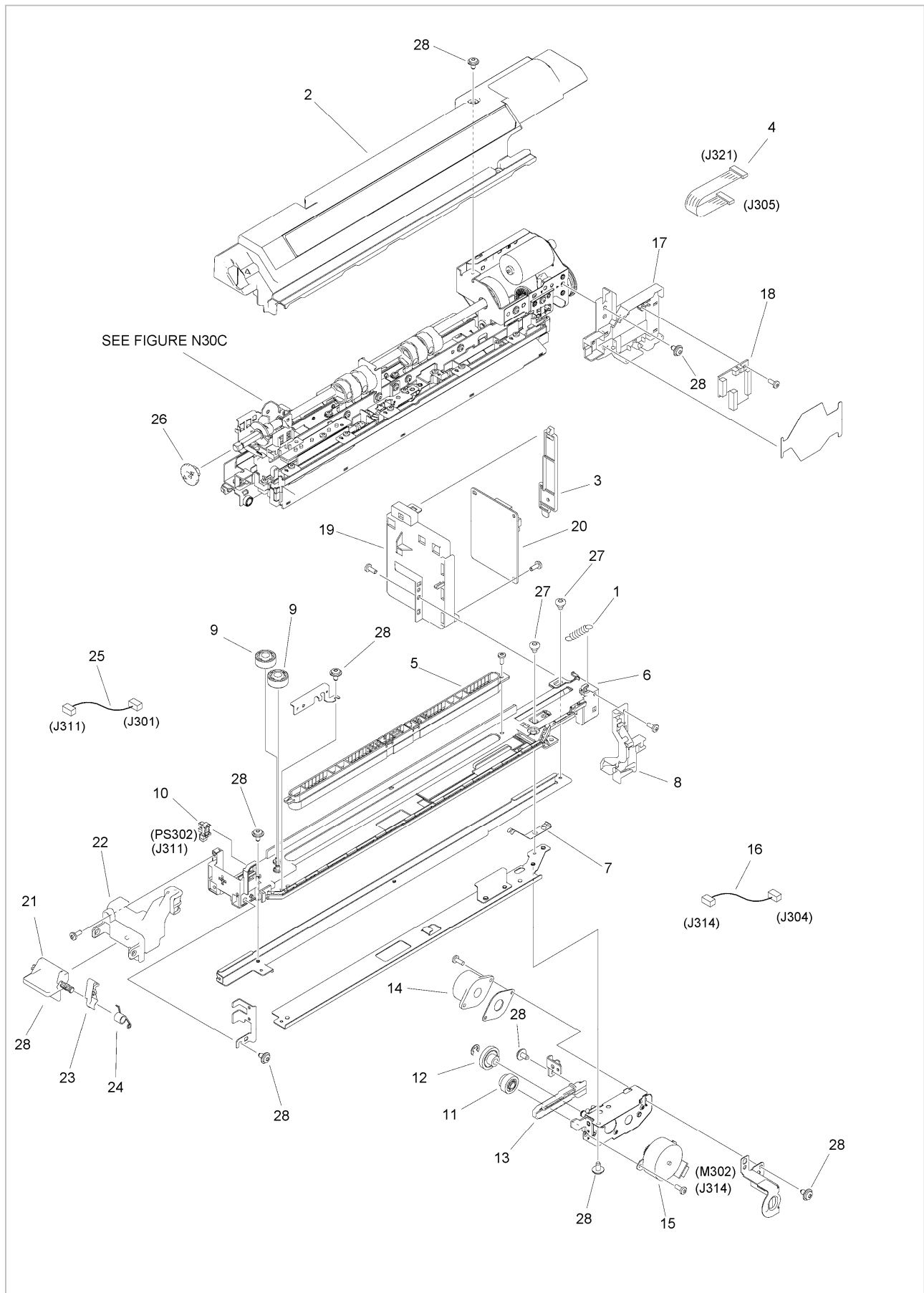
FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
N10A	NPN		RF	PUNCH MAIN BODY	2/3 HOLE
1	FE3-7603-000		1	SPRING, TENSION	
2	FL1-0505-000		1	COVER, PUNCH	
3	FE3-9961-000		1	GUIDE, FLEXIBLE CABLE	
4	FK4-1673-000		1	CABLE, FLEXIBLE FLAT	
5	FB5-5964-000		1	DUCT, WASTE	
6	FL1-0506-000		1	MOUNT, PUNCH	
7	FE3-7598-000		1	SPRING, LEAF	
8	FE3-7622-000		1	GUIDE, CABLE	
9	FE4-4102-000		2	ROLLER	
10	WG8-5935-000		1	IC, PHOTO-INTERRUPTER	PS302
11	FE3-7599-000		1	GEAR, 20T/35T	
12	FE3-7600-000		1	GEAR, 16T/37T	
13	FE3-7601-000		1	RACK, PUCH SLIDE	
14	FE3-7618-000		1	DAMPER	
15	FK4-1304-000		1	MOTOR, STEPPING	M302
16	FM1-H824-000		1	CABLE, SLIDE MOTOR	
17	FE3-9962-000		1	MOUNT, PCB	
18	FM1-H818-000		1	CONNECTING PCB ASSEMBLY	
19	FE3-7621-000		1	MOUNT, PUNCH PCB	
20	FM1-H821-000		1	PUNCH CONTROLLER PCB ASSEMBLY	
21	FE3-7633-000		1	LEVER	
22	FE3-9965-000		1	MOUNT, LEVER	
23	FE4-4097-000		1	HOOK, LEVER	
24	FE4-4100-000		1	SPRING, TORSION	
25	FM1-H822-000		1	CABLE, SLIDE SENSOR	
26	FE3-7623-000		1	KNOB, PUNCH	
27	FU5-9739-000		2	SCREW, STEPPED, M3	
28	XA9-2010-000		20	SCREW, TP, M3X6	

Figure N10B PUNCH MAIN BODY (2/4 HOLE)



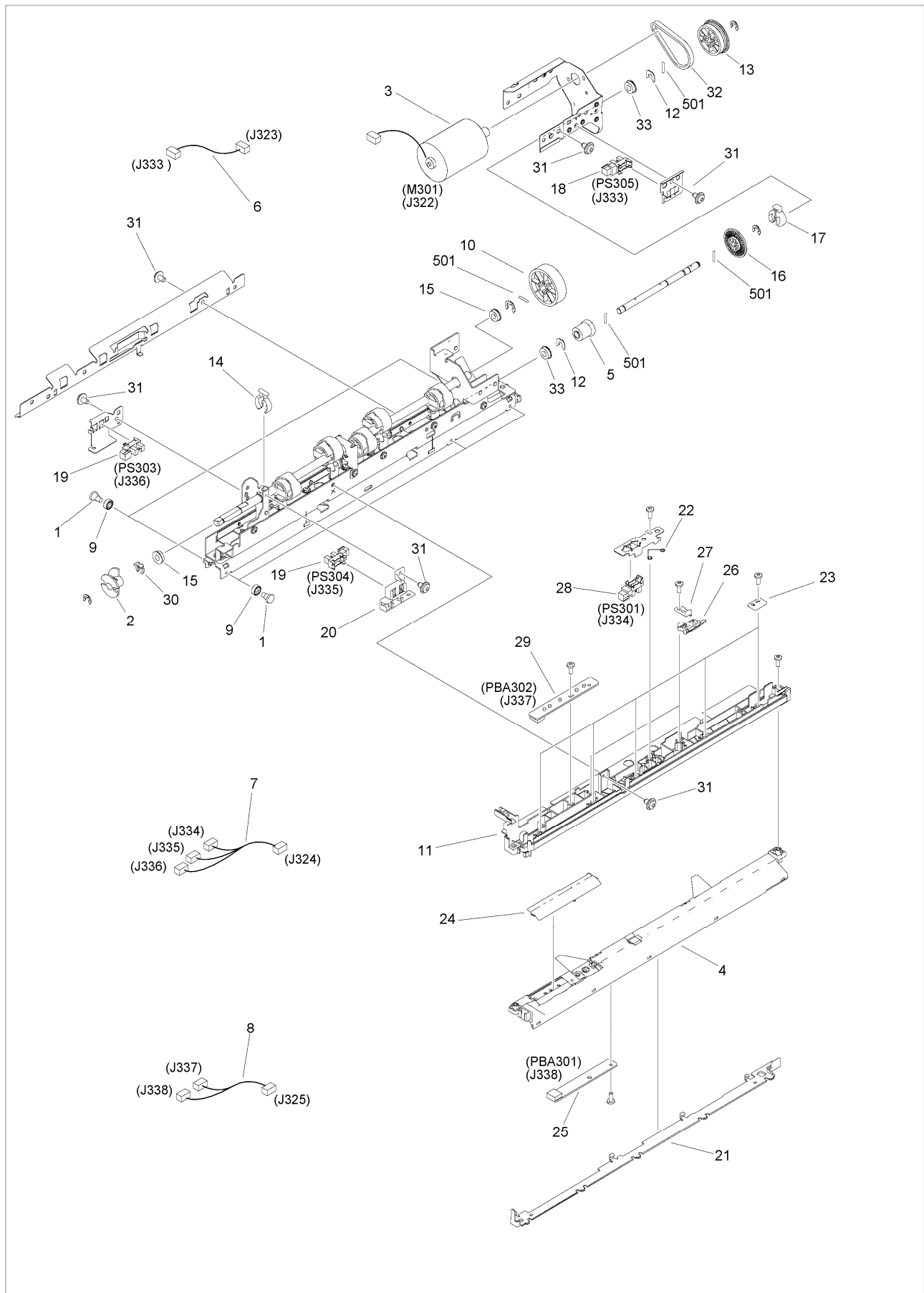
FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
N10B	NPN		RF	PUNCH MAIN BODY	2/4 HOLE
1	FE3-7603-000		1	SPRING, TENSION	
2	FL1-0505-000		1	COVER, PUNCH	
3	FE3-9961-000		1	GUIDE, FLEXIBLE CABLE	
4	FK4-1673-000		1	CABLE, FLEXIBLE FLAT	
5	FB5-5964-000		1	DUCT, WASTE	
6	FL1-0506-000		1	MOUNT, PUNCH	
7	FE3-7598-000		1	SPRING, LEAF	
8	FE3-7622-000		1	GUIDE, CABLE	
9	FE4-4102-000		2	ROLLER	
10	WG8-5935-000		1	IC, PHOTO-INTERRUPTER	PS302
11	FE3-7599-000		1	GEAR, 20T/35T	
12	FE3-7600-000		1	GEAR, 16T/37T	
13	FE3-7601-000		1	RACK, PUCH SLIDE	
14	FE3-7618-000		1	DAMPER	
15	FK4-1304-000		1	MOTOR, STEPPING	M302
16	FM1-H824-000		1	CABLE, SLIDE MOTOR	
17	FE3-9962-000		1	MOUNT, PCB	
18	FM1-H818-000		1	CONNECTING PCB ASSEMBLY	
19	FE3-7621-000		1	MOUNT, PUNCH PCB	
20	FM1-H821-000		1	PUNCH CONTROLLER PCB ASSEMBLY	
21	FE3-7633-000		1	LEVER	
22	FE3-9965-000		1	MOUNT, LEVER	
23	FE4-4097-000		1	HOOK, LEVER	
24	FE4-4100-000		1	SPRING, TORSION	
25	FM1-H822-000		1	CABLE, SLIDE SENSOR	
26	FE3-7623-000		1	KNOB, PUNCH	
27	FU5-9739-000		2	SCREW, STEPPED, M3	
28	XA9-2010-000		20	SCREW, TP, M3X6	

Figure N10C PUNCH MAIN BODY (4 HOLE)



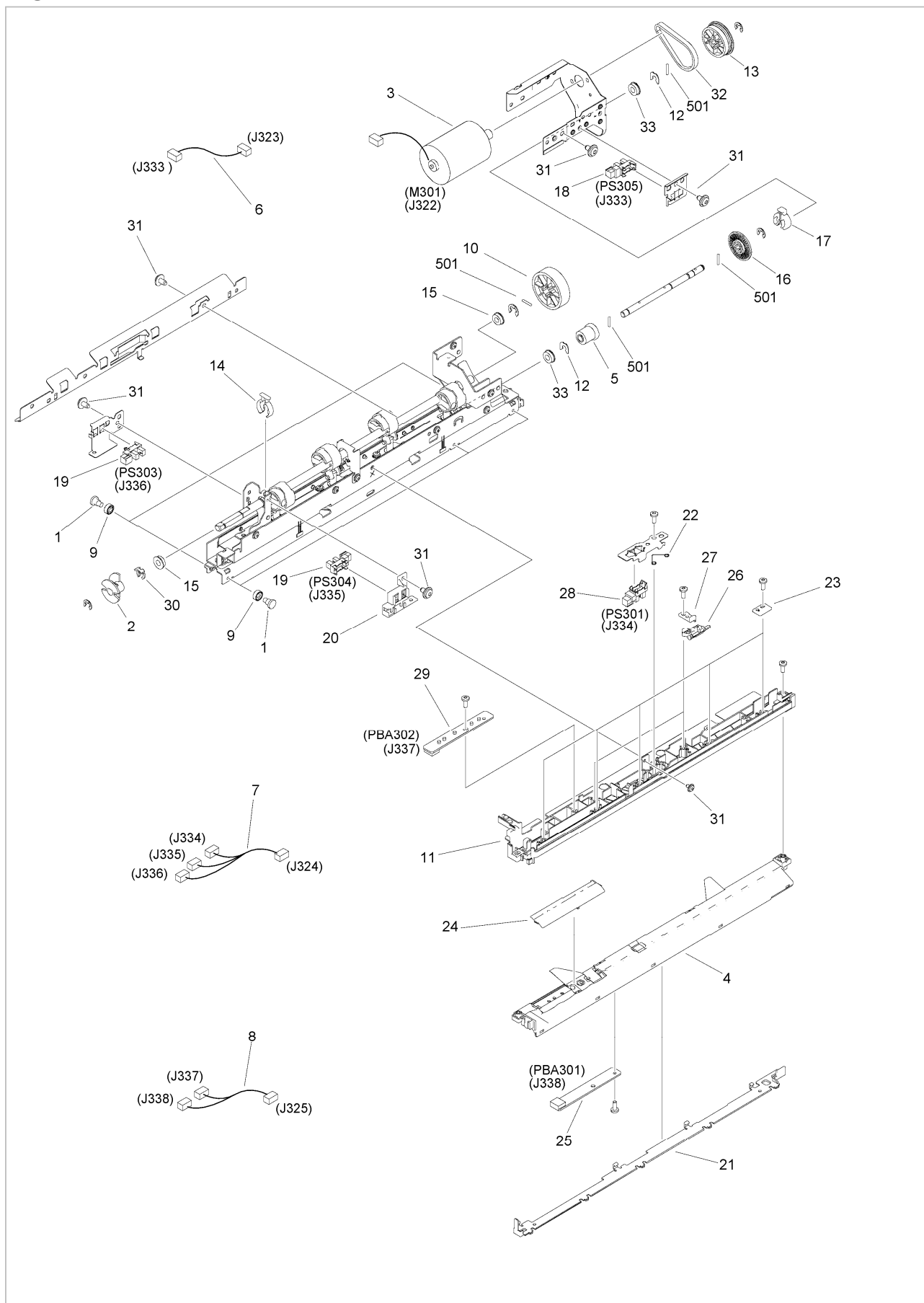
FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
N10C	NPN		RF	PUNCH MAIN BODY	4 HOLE
1	FE3-7603-000		1	SPRING, TENSION	
2	FL1-0505-000		1	COVER, PUNCH	
3	FE3-9961-000		1	GUIDE, FLEXIBLE CABLE	
4	FK4-1673-000		1	CABLE, FLEXIBLE FLAT	
5	FB5-5964-000		1	DUCT, WASTE	
6	FL1-0506-000		1	MOUNT, PUNCH	
7	FE3-7598-000		1	SPRING, LEAF	
8	FE3-7622-000		1	GUIDE, CABLE	
9	FE4-4102-000		2	ROLLER	
10	WG8-5935-000		1	IC, PHOTO-INTERRUPTER	PS302
11	FE3-7599-000		1	GEAR, 20T/35T	
12	FE3-7600-000		1	GEAR, 16T/37T	
13	FE3-7601-000		1	RACK, PUCH SLIDE	
14	FE3-7618-000		1	DAMPER	
15	FK4-1304-000		1	MOTOR, STEPPING	M302
16	FM1-H824-000		1	CABLE, SLIDE MOTOR	
17	FE3-9962-000		1	MOUNT, PCB	
18	FM1-H818-000		1	CONNECTING PCB ASSEMBLY	
19	FE3-7621-000		1	MOUNT, PUNCH PCB	
20	FM1-H821-000		1	PUNCH CONTROLLER PCB ASSEMBLY	
21	FE3-7633-000		1	LEVER	
22	FE3-9965-000		1	MOUNT, LEVER	
23	FE4-4097-000		1	HOOK, LEVER	
24	FE4-4100-000		1	SPRING, TORSION	
25	FM1-H822-000		1	CABLE, SLIDE SENSOR	
26	FE3-7623-000		1	KNOB, PUNCH	
27	FU5-9739-000		2	SCREW, STEPPED, M3	
28	XA9-2010-000		20	SCREW, TP, M3X6	

Figure N30A PUNCH SLIDE ASSEMBLY (2/3 HOLE)



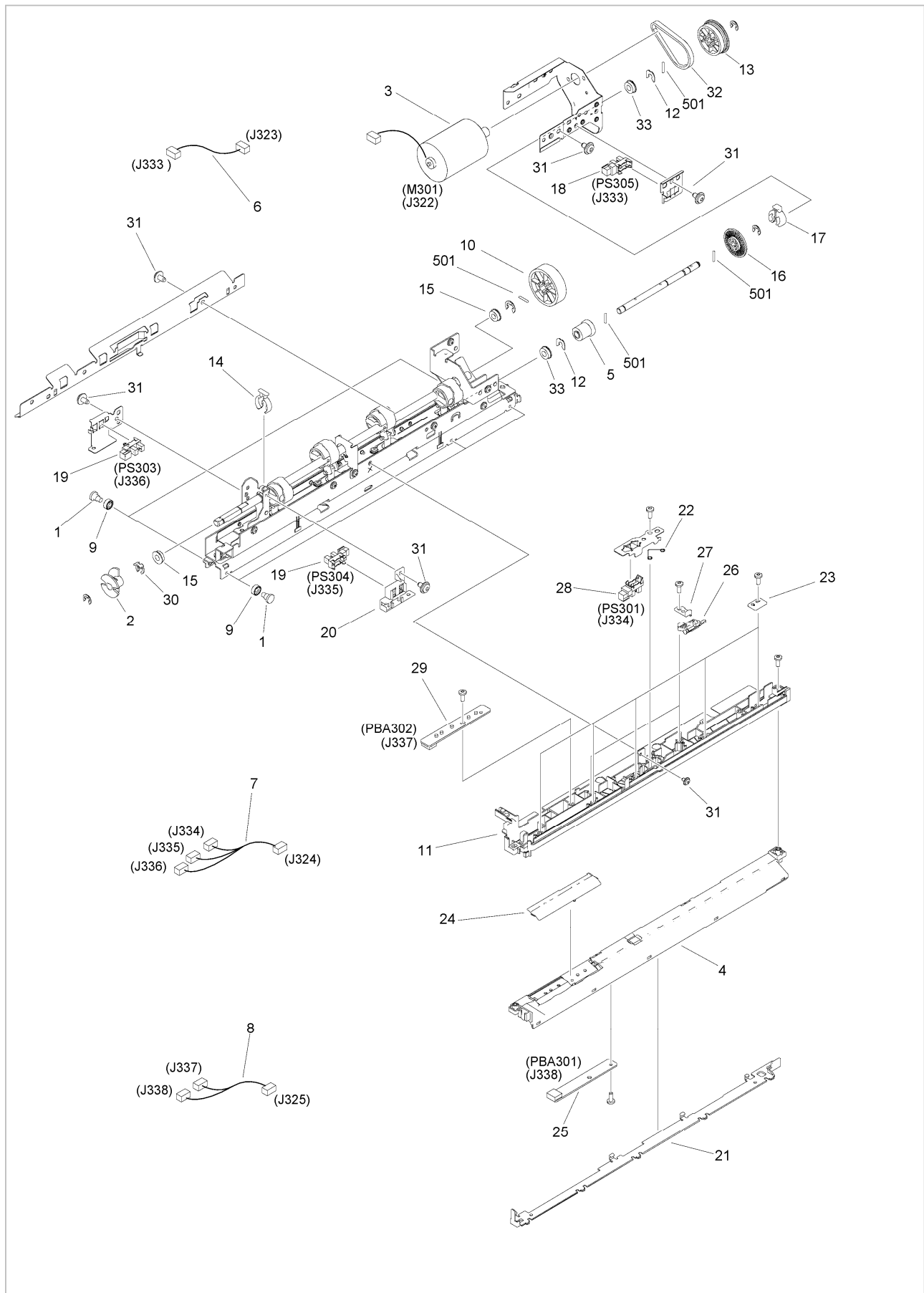
FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
N30A	FM1-H235-000		1	PUNCH SLIDE ASSEMBLY	2/3 HOLE
1	FS1-9009-020		5	TWO-STEP SCREW, M3	
2	FE3-7591-000		1	FLAG, SENSOR	
3	FM1-H831-000		1	MOTOR, DC 24V	M301
4	FM1-H245-000		1	GUIDE, PAPER FEED, LOWER	
5	FE3-7584-000		1	GEAR, 16T	
6	FM1-H826-000		1	CABLE, CLOCK SENSOR	
7	FM1-H827-000		1	CABLE, PUNCH SENSOR	
8	FM1-H828-000		1	CABLE, PHOTO SENSOR	
9	FE4-4102-000		5	ROLLER	
10	FE3-7583-000		1	GEAR, 49T	
11	FE3-7607-000		1	GUIDE, PAPER FEED, UPPER	
12	FC9-3583-000		2	CLIP, CBS	
13	FE3-7585-000		1	PULLEY, 52T	
14	FE4-8809-000		1	RETAINER	
15	XG9-0820-000		2	BEARING, BALL, DDLF-1280ZZH	
16	FE3-7586-000		1	WHEEL, CODE	
17	FE3-9967-000		1	RETAINER	
18	WG8-5783-000		1	IC, PHOTO-INTERRUPTER, LG248NL1A	PS305
19	WG8-5935-000		2	IC, PHOTO-INTERRUPTER	PS303, PS304
20	FE3-9963-000		1	HOLDER, SENSOR	
21	FE3-7602-000		1	COVER, CABLE	
22	FE3-9968-000		1	SPRING, GROUNDING	
23	FE4-8414-000		5	HOLDER, CALBE	
24	FE3-7609-000		1	COVER, SENSOR	
25	FM1-H819-000		1	LED UNIT	PBA301
26	FE3-7610-000		2	RETAINER, PAPER	
27	FE3-9957-000		2	HOLDER, RETAINER	
28	FK2-8560-000		1	PHOTO-SENSOR, KUA0095C	PS301
29	FM1-H820-000		1	PHOTO SENSOR UNIT	PBA302
30	RB2-8087-000		1	RING, STOP	
31	XA9-2010-000		18	SCREW, TP, M3X6	
32	XF2-1607-360		1	BELT, TIMING	
33	XG9-0805-000		2	BEARING, BALL, LF-1260ZZR	
501	XD9-0334-000		1	PIN, DOWEL	

Figure N30B PUNCH SLIDE ASSEMBLY (2/4 HOLE)



FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
N30B	FM1-H257-000		1	PUNCH SLIDE ASSEMBLY	2/4 HOLE
1	FS1-9009-020		5	TWO-STEP SCREW, M3	
2	FE3-7591-000		1	FLAG, SENSOR	
3	FM1-H831-000		1	MOTOR, DC 24V	M301
4	FM1-H263-000		1	GUIDE, PAPER FEED, LOWER	
5	FE3-7584-000		1	GEAR, 16T	
6	FM1-H826-000		1	CABLE, CLOCK SENSOR	
7	FM1-H827-000		1	CABLE, PUNCH SENSOR	
8	FM1-H828-000		1	CABLE, PHOTO SENSOR	
9	FE4-4102-000		5	ROLLER	
10	FE3-7583-000		1	GEAR, 49T	
11	FE3-7630-000		1	GUIDE, PAPER FEED, UPPER	
12	FC9-3583-000		2	CLIP, CBS	
13	FE3-7585-000		1	PULLEY, 52T	
14	FE4-8809-000		1	RETAINER	
15	XG9-0820-000		2	BEARING, BALL, DDLF-1280ZZH	
16	FE3-7586-000		1	WHEEL, CODE	
17	FE3-9967-000		1	RETAINER	
18	WG8-5783-000		1	IC, PHOTO-INTERRUPTER, LG248NL1A	PS305
19	WG8-5935-000		2	IC, PHOTO-INTERRUPTER	PS303, PS304
20	FE3-9963-000		1	HOLDER, SENSOR	
21	FE3-7602-000		1	COVER, CABLE	
22	FE3-9968-000		1	SPRING, GROUNDING	
23	FE4-8414-000		5	HOLDER, CALBE	
24	FE3-7609-000		1	COVER, SENSOR	
25	FM1-H819-000		1	LED UNIT	PBA301
26	FE3-7610-000		2	RETAINER, PAPER	
27	FE3-9957-000		2	HOLDER, RETAINER	
28	FK2-8560-000		1	PHOTO-SENSOR, KUA0095C	PS301
29	FM1-H820-000		1	PHOTO SENSOR UNIT	PBA302
30	RB2-8087-000		1	RING, STOP	
31	XA9-2010-000		18	SCREW, TP, M3X6	
32	XF2-1607-360		1	BELT, TIMING	
33	XG9-0805-000		2	BEARING, BALL, LF-1260ZZR	
501	XD9-0334-000		1	PIN, DOWEL	

Figure N30C PUNCH SLIDE ASSEMBLY (4 HOLE)



FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
N30C	FM1-H264-000		1	PUNCH SLIDE ASSEMBLY	4 HOLE
1	FS1-9009-020		5	TWO-STEP SCREW, M3	
2	FE3-7591-000		1	FLAG, SENSOR	
3	FM1-H831-000		1	MOTOR, DC 24V	M301
4	FM1-H411-000		1	GUIDE, PAPER FEED, LOWER	
5	FE3-7584-000		1	GEAR, 16T	
6	FM1-H826-000		1	CABLE, CLOCK SENSOR	
7	FM1-H827-000		1	CABLE, PUNCH SENSOR	
8	FM1-H828-000		1	CABLE, PHOTO SENSOR	
9	FE4-4102-000		5	ROLLER	
10	FE3-7583-000		1	GEAR, 49T	
11	FE3-7631-000		1	GUIDE, PAPER FEED, UPPER	
12	FC9-3583-000		2	CLIP, CBS	
13	FE3-7585-000		1	PULLEY, 52T	
14	FE4-8809-000		1	RETAINER	
15	XG9-0820-000		2	BEARING, BALL, DDLF-1280ZZH	
16	FE3-7586-000		1	WHEEL, CODE	
17	FE3-9967-000		1	RETAINER	
18	WG8-5783-000		1	IC, PHOTO-INTERRUPTER, LG248NL1A	PS305
19	WG8-5935-000		2	IC, PHOTO-INTERRUPTER	PS303, PS304
20	FE3-9963-000		1	HOLDER, SENSOR	
21	FE3-7602-000		1	COVER, CABLE	
22	FE3-9968-000		1	SPRING, GROUNDING	
23	FE4-8414-000		5	HOLDER, CALBE	
24	FE3-7609-000		1	COVER, SENSOR	
25	FM1-H819-000		1	LED UNIT	PBA301
26	FE3-7610-000		2	RETAINER, PAPER	
27	FE3-9957-000		2	HOLDER, RETAINER	
28	FK2-8560-000		1	PHOTO-SENSOR, KUA0095C	PS301
29	FM1-H820-000		1	PHOTO SENSOR UNIT	PBA302
30	RB2-8087-000		1	RING, STOP	
31	XA9-2010-000		18	SCREW, TP, M3X6	
32	XF2-1607-360		1	BELT, TIMING	
33	XG9-0805-000		2	BEARING, BALL, LF-1260ZZR	
501	XD9-0334-000		1	PIN, DOWEL	

Figure ZZA MECHANICAL STANDARD PARTS (HOW TO USE)

Mechanical standard parts

機械標準部品

About a mechanical standard parts

A Mechanical standard parts is a mechanical part which not parts peculiar to a product.
They are parts which are common to a Canon product and are used, such as a screw and a washer.
The Fig No. and parts number of the mechanical standard parts are not listed in the product parts catalog.
Refer to the parts catalog of mechanical standard parts when checking the parts number for screw or washer etc. and identify them by part shape or size.

機械標準部品とは

機械標準部品とは、製品特有の部品ではなく、ねじやワッシャなどキヤノン製品共通で使用されている機械部品（メカ部品）のことです。
製品のパーツカタログには、機械標準部品のFig No.や部品番号は記載しておりません。
ねじや、ワッシャ等の部品番号を調べるときは、機械標準部品のパーツカタログを参照し、部品の形状や大きさから判断し、使用している部品を調べてください。

Material and surface treatment of a mechanical standard parts

Material and surface treatment of mechanical standard parts are assigned commonly for each part.
Refer to the Table 1 for the parts which material and surface treatment are assigned as numbers.

機械標準部品の材料および表面処理

機械標準部品の材料および表面処理については、各種部品共通で決められています。
材料および表面処理が番号で決められている部品については、表1を参照してください。

Table 1 Material and Surface treatment

表1 材料および表面処理

No. 番号	Material 材料	Surface treatment 表面処理	Color 色
1	Stainless steel ステンレス	Stainless steel black coloring (BC4) ステンレス黒着色(BC4)	Black 黒
2		not to be given なし	White 白
3	Brass 黄銅	Regular nickel plating (NL) 普通ニッケルメッキ(NL)	White 白
4		Black nickel plating (BN) 黒色ニッケルメッキ(BN)	Black 黒
5	Steel 鋼	White zinc trivalent chromate treating (ZC3) 白色亜鉛3価クロメート(ZC3)	White 白
6		Regular nickel chromium plating (NC) 普通ニッケルクロムメッキ(NC)	White 白
7		Regular nickel plating (NL) 普通ニッケルメッキ(NL)	White 白
8		Iron and steel phosphating (P1) 鉄鋼燐酸塩処理(P1)	Black 黒
9		Black zinc trivalent chromate treating (BZ3) 黒色亜鉛3価クロメート(BZ3)	Black 黒

FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
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Figure ZZB (1 / 7) MECHANICAL STANDARD PARTS (SCREWS)

1. Screws ねじ

How to read Parts Numbers
部品番号の見方

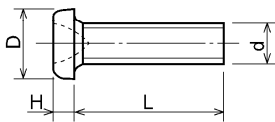
Screws
ねじ

XB1-2400-609

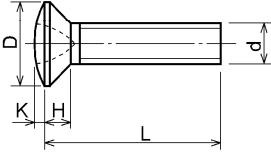
Type No.
類別番号
Normal designation (d)
ねじの呼び (d)
Length (L)
ねじの長さ (L)
Material and Surface treatment
材料および表面処理

XB1-2 expresses Binding head machine screw.
XB1-2は、バインドねじを表す
40 expresses M4.0.
40は、M4.0を表す
0-60 expresses a length of 6.0mm.
0-60は、6.0mmの長さを表す
9 expresses Steel (Black zinc trivalent chromate treating) from Table 1.
9は、表1より鋼（黒色亜鉛3価クロメート）を表す

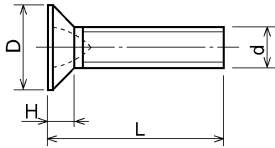
1-1. Cross Recessed Head Screws for Precision Equipments 精密機器用十字穴付き小ねじ



XA1-1, 6, 7



XA1-4



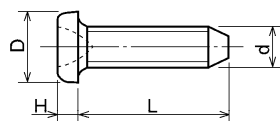
XA1-3

Type No. 類別番号	Type 類別
XA1-1	Pan head Class 1 なべ1種
XA1-3	Countersunk head Class 1 さら1種
XA1-4	Oval countersunk head Class 1 丸さら1種
XA1-6	Pan head Class 3 なべ3種
XA1-7	Pan head Class 2 なべ2種

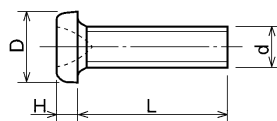
		Head size (mm) 頭部寸法 (mm)					
		M1.4	M1.6	M1.7	M2	M2.5	M2.6
D	XA1-1	2	2.4	2.5	3	3.8	4
H	XA1-1	0.5	0.55	0.5	0.6	0.9	0.8
D	XA1-3	2	2.4	2.5	3	3.8	4
H	XA1-3	0.48	0.55	0.58	0.73	0.85	0.93
D	XA1-4	2	2.4	2.5	3	3.8	4
H + K	XA1-4	0.68	0.8	0.88	1	1.25	1.3
D	XA1-6	2.5	2.8	3	3.5	4.3	4.5
H	XA1-6	0.8	0.85	0.9	1	1.3	1.2
D	XA1-7	2.5	2.8	3	3.5	4.3	4.5
H	XA1-7	0.5	0.55	0.5	0.6	0.9	0.8

Figure ZZB (2 / 7) MECHANICAL STANDARD PARTS (SCREWS)

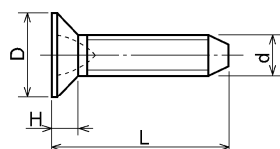
1-2. Precision Tapping Screws
精密用タッピンねじ



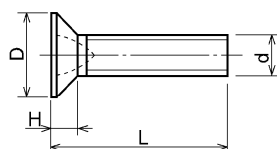
XA4-1, 2, 4



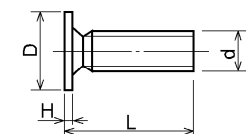
XA4-6, 7, 9



XA4-3



XA4-8



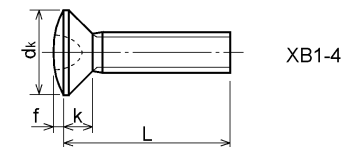
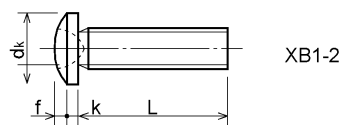
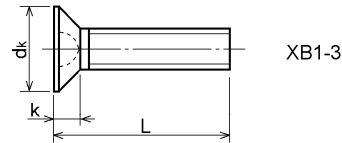
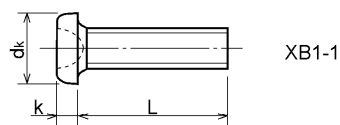
XA4-5

Type No. 類別番号	Type 類別
XA4-1	With tapered end pan head Class 1 絞り-なべ 1 種
XA4-2	With tapered end pan head Class 3 絞り-なべ3種
XA4-3	With tapered end countersunk head 絞り-さら
XA4-4	With tapered end pan head Class 2 絞り-なべ2種
XA4-5	With parallel end ultra thin head ストレート-超薄頭
XA4-6	With parallel end pan head Class 1 ストレート-なべ 1 種
XA4-7	With parallel end pan head Class 3 ストレート-なべ3種
XA4-8	With parallel end countersunk head ストレート-さら
XA4-9	With parallel end pan head Class 2 ストレート-なべ2種

		Head size (mm) 頭部寸法 (mm)					
		M1.4	M1.6	M1.7	M2	M2.5	M2.6
D	XA4-1	2	2.4	2.5	3	3.8	4
H	XA4-1	0.5	0.55	0.5	0.6	0.9	0.8
D	XA4-2	2.5	2.8	3	3.5	4.3	4.5
H	XA4-2	0.8	0.85	0.9	1	1.3	1.2
D	XA4-3	2	2.4	2.5	3	3.8	4
H	XA4-3	0.48	0.55	0.58	0.73	0.85	0.93
D	XA4-4	2.5	2.8	3	3.5	4.3	4.5
H	XA4-4	0.5	0.55	0.5	0.6	0.9	0.8
D	XA4-5	2.5	2.8	3	-	-	-
H	XA4-5	0.2	0.2	0.2	-	-	-
D	XA4-6	2	2.4	2.5	3	3.8	4
H	XA4-6	0.5	0.55	0.5	0.6	0.9	0.8
D	XA4-7	2.5	2.8	3	3.5	4.3	4.5
H	XA4-7	0.8	0.85	0.9	1	1.3	1.2
D	XA4-8	2	2.4	2.5	3	3.8	4
H	XA4-8	0.48	0.55	0.58	0.73	0.85	0.93
D	XA4-9	2.5	2.8	3	3.5	4.3	4.5
H	XA4-9	0.5	0.55	0.5	0.6	0.9	0.8

Figure ZZB (3 / 7) MECHANICAL STANDARD PARTS (SCREWS)

1-3. Cross Recessed Head Screws
一般用十字穴付き小ねじ

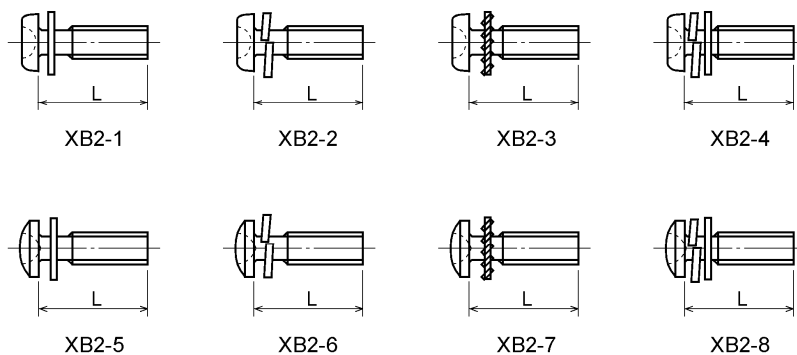


Type No. 類別番号	Type 類別
XB1-1	Pan head なべ
XB1-2	Binding head バインド
XB1-3	Countersunk head さら
XB1-4	Oval countersunk head 丸さら

		Head size (mm) 頭部寸法 (mm)					
		M2	M2.5	M2.6	M3	M4	M5
dk	XB1-1	3.5	4.5	4.5	5.5	7	9
k	XB1-1	1.3	1.7	1.7	2	2.6	3.3
dk	XB1-2	4.3	5.3	5.5	6.3	8.3	10.3
k+f	XB1-2	1.2	1.5	1.6	1.9	2.5	3.1
dk	XB1-3	4	5	-	6	8	10
k	XB1-3	1.2	1.45	-	1.75	2.3	2.8
dk	XB1-4	4	5	-	6	8	10
k+f	XB1-4	1.6	2	-	2.45	3.2	4
Screw part length ねじ部長さ b		8	12	12	12	16	20

Figure ZZB (4 / 7) MECHANICAL STANDARD PARTS (SCREWS)

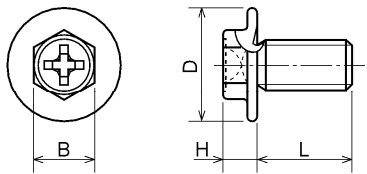
1-4. Cross Recessed Head Screws with Captive Washer
座金組込み十字穴付き小ねじ



Type No. 類別番号	Type 類別
XB2-1	Pan head + Plain washer (circular bright) なべねじ+平座金
XB2-2	Pan head + Spring washer なべねじ+ばね座金
XB2-3	Pan head + Toothed lock washer なべねじ+歯付座金
XB2-4	Pan head + Spring washer and plain washer (circular bright) なべねじ+(ばね+平)座金
XB2-5	Binding head + Plain washer (circular bright) バインドねじ+平座金
XB2-6	Binding head + Spring washer バインドねじ+ばね座金
XB2-7	Binding head + Toothed lock washer バインドねじ+歯付座金
XB2-8	Binding head + Spring washer and plain washer (circular bright) バインドねじ+(ばね+平)座金

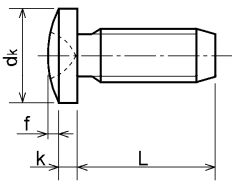
Figure ZZB (5 / 7) MECHANICAL STANDARD PARTS (SCREWS)

1-5. Hexagon Head Tapping Screws for Matallic Materials
金属用六角タッピンねじ



Type No. 類別番号	Type 類別	Head size (mm) 頭部寸法 (mm)	
		M3	M4
XB3-6	For metallic materials 金属用タッピン	D	8
		B	5.5
XB3-7	For metallic materials with clawed 金属用タッピン-つめ付き	H XB3-6	3.1
		H XB3-7	3.2

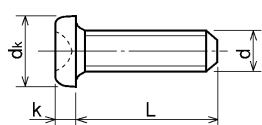
1-6. Special Tapping Screws
特殊タッピンねじ



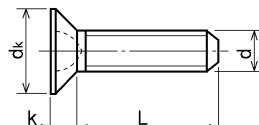
Type No. 類別番号	Type 類別	Head size (mm) 頭部寸法 (mm)	
		M3	M4
XB4-5	Binding head バインド	dk	6.3
		k	1.3
		k+f	1.9

Figure ZZB (6 / 7) MECHANICAL STANDARD PARTS (SCREWS)

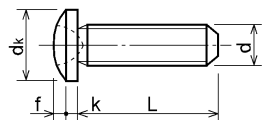
1-7. General Head Tapping Screws
一般用タッピンねじ



XB4-6



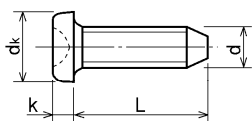
XB4-8



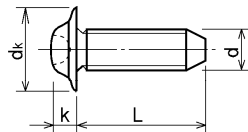
XB4-7

Type No. 類別番号	Type 類別	Head size (mm) 頭部寸法 (mm)						
		M2	M2.5	M2.6	M3	M4	M5	
XB4-6	Pan head なべ	d _k XB4-6	3.5	4.5	4.5	5.5	7	9
		k XB4-6	1.3	1.7	1.7	2	2.6	3.3
XB4-7	Binding head バインド	d _k XB4-7	4.3	5.3	5.5	6.3	8.3	10.3
		k+f XB4-7	1.2	1.5	1.6	1.9	2.5	3.1
XB4-8	Countersunk head さら	d _k XB4-8	4	5	5.2	6	8	10
		k XB4-8	1.2	1.45	1.5	1.75	2.3	2.8

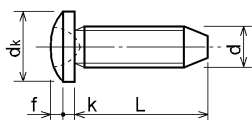
1-8. Tapping Screws for Metallic Materials
金属用タッピンねじ



XB5-1



XB5-6

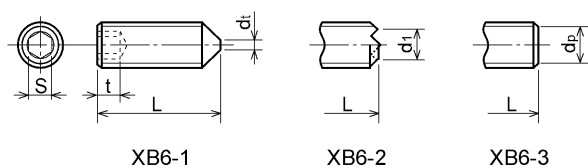


XB5-2

Type No. 類別番号	Type 類別	Head size (mm) 頭部寸法 (mm)					
		M2.5	M2.6	M3	M4	M5	
XB5-1	Pan head なべ	d _k XB5-1	4.5	4.5	5.5	7	9
		k XB5-1	1.7	1.7	2	2.6	3.3
XB5-2	Binding head バインド	d _k XB5-2	5.5	5.5	6.3	8.3	10.3
		k+f XB5-2	1.6	1.6	1.9	2.5	3.1
XB5-6	Flanged pan head つば付きなべ	d _k XB5-6	6.5	6.5	8	10	12
		k XB5-6	2.1	2.1	1.75	3.2	4

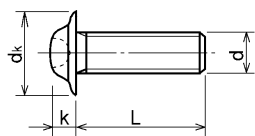
Figure ZZB (7 / 7) MECHANICAL STANDARD PARTS (SCREWS)

1-9. Hexagon Socket Set Screws
六角穴付き止めねじ



		Head size (mm) 頭部寸法 (mm)							
		M1.6 M1.7	M2	M2.5 M2.6	M3	M5	M5	M6	
Type No. 類別番号	Type 類別	S	0.7	0.9	1.3	1.5	2	2.5	3
XB6-1	Cone point とがり先	t	1.5	1.7	2	2	2.5	3	3.5
		dt max XB6-1	0.4	0.5	0.65	0.75	1	1.25	1.5
XB6-2	Double point ダブルポイント	d1 max XB6-2	-	1.2	1.5	1.7	2.2	2.8	3.3
		d1 min XB6-2	-	1	1.2	1.4	1.9	2.4	2.9
XB6-3	Flat point 平先	dp max XB6-3	0.8	1	1.5	2	2.5	3.5	4
		dp min XB6-3	0.55	0.75	1.25	1.75	2.25	3.2	3.7

1-10. Flanged Pan Head Machine Screws
つば付きなべ小ねじ



		Head size (mm) 頭部寸法 (mm)					
		M2	M2.5 M2.6	M3	M5	M5	
Type No. 類別番号	Type 類別	dk	5	6.5	8	10	12
XB6-7	Flanged pan head つば付きなべ	k	1.7	2.1	2.5	3.2	4

FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
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Figure ZZC MECHANICAL STANDARD PARTS (BOLTS)

2. Bolts (Socket head cap screw) ボルト

How to read Parts Numbers
部品番号の見方

Bolt (Socket head cap screw)
ボルト

XB7-1080-409

Type No.
類別番号

Normal designation (d)
ねじの呼び (d)

Length (L)
ねじの長さ (L)

Material and Surface treatment

材料および表面処理

XB7-1 expresses Hexagon socket head cap screws.
XB7-1は、六角穴付きボルトを表す

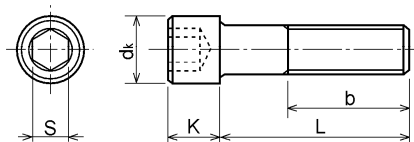
080 expresses M8.0.
080は、M8.0を表す

40 expresses a length of 40mm.
40は、40mmの長さを表す

9 expresses Steel (Black zinc trivalent chromate treating) from Table 1.

9は、表1より鋼（黒色亜鉛3価クロメート）を表す

2-1. Hexagon socket head cap screws 六角穴付きボルト



Type No. 類別番号	Type 類別
XB7-1	Hexagon socket head cap screws 六角穴付きボルト

	Head size (mm) 頭部寸法 (mm)						
	M3	M4	M5	M6	M8	M10	M12
S	2.5	3	4	5	6	8	10
dk	5.5	7	8.5	10	13	16	18
K	3	4	5	6	8	10	12
Screw part length ねじ部長さ b_{max}	18	20	22	24	28	32	36

FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
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Figure ZZD MECHANICAL STANDARD PARTS (NUTS)

3. Nuts ナット

How to read Parts Numbers
部品番号の見方

Nuts
ナット

XB7-2100-309

Type No.
類別番号

Normal designation (d)
ねじの呼び (d)

Material and Surface treatment

材料および表面処理

XB7-210 expresses Hexagon nut class 1.

XB7-210は、六角ナット1種を表す

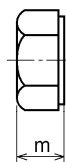
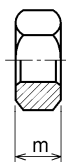
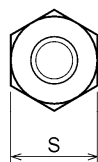
0-30 expresses M3.0.

0-30は、M3.0を表す

9 expresses Steel (Black zinc trivalent chromate treating) from Table 1.

9は、表1より鋼（黒色亜鉛3価クロメート）を表す

3-1. Hexagon Nuts and Hexagon Thin Nuts 六角ナット



Type No. 類別番号	Type 類別
XB7-210	Hexagon nut Class 1 六角ナット-1種
XB7-220	Hexagon nut Class 3 六角ナット-3種
XB7-230	Hexagon nut Style 1 double chamfered 六角ナット-スタイル1-両面とり
XB7-231	Hexagon nut Style 1 washer faced 六角ナット-スタイル1-座付き
XB7-240	Hexagon nut Style 2 double chamfered 六角ナット-スタイル2-両面とり
XB7-241	Hexagon nut Style 2 washer faced 六角ナット-スタイル2-座付き
XB7-250	Hexagon nut 六角ナット
XB7-260	Hexagon thin nut double chamfered 六角低ナット-両面とり
XB7-270	Hexagon thin nut not chamfered 六角低ナット-面とり無し

	Head size (mm) 頭部寸法 (mm)						
	M2	M2.5	M3	M4	M5	M6	M8
S	4	5	5.5	7	8	10	13
m XB7-210	1.6	2	2.4	3.2	4	5	6.5
m XB7-220	1.2	1.6	1.8	2.4	3.2	3.6	5
m XB7-230, 231	1.6	2	2.4	3.2	4.7	5.2	6.8
m XB7-240, 241	-	-	-	-	5.1	5.7	7.5
m XB7-250	-	-	-	-	5.6	6.1	7.9
m XB7-260	1.2	1.6	1.8	2.2	2.7	3.2	4
m XB7-270	1.2	1.6	1.8	2.2	2.7	3.2	4

FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
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Figure ZZE (1 / 3) MECHANICAL STANDARD PARTS (RETAINING RINGS)

5. Retaining Rings

止め輪

How to read Parts Numbers

部品番号の見方

Retaining Rings

止め輪

XD2-1100-202

Type No.
類別番号

Nominal designation

呼び

Material and Surface treatment

材料および表面処理

XD2-110 expresses retaining ring-E type (Type1).
XD2-110は、E形止め輪（1種）を表す

0-20 expresses a 020 of nominal designation.
(See Table 5)

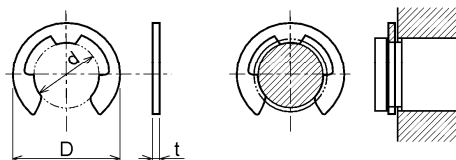
0-20は、呼び020を表す（表5参照）

2 expresses Stainless steel (Surface treatment is not to be given) from Table 1.

2は、表1よりステンレス（表面処理なし）を表す

5-1. Retaining Rings - E type

E形止め輪



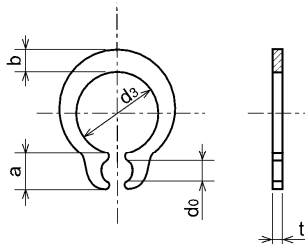
Type No. 類別番号	Type 類別
XD2-110	Retaining ring - E type (Type 1) E形止め輪（1種）
XD2-120	Retaining ring - E type (Type 2) E形止め輪（2種）

Table 5 表5

Type 種類	Nominal designation 呼び	d (mm)	D (mm)	t (mm)
Type 1 1種	007	0.65	2	0.2
	010	0.95	2.8	0.2
	013	1.25	3.3	0.3
	017	1.65	4.2	0.4
	020	1.95	4.6	0.5
	024	2.35	6	0.6
	028	2.74	6.5	0.6
	032	3.14	7.2	0.6
	037	3.64	8	0.7
	040	3.93	10	0.7
	042	4.13	10	0.7
	050	4.93	11	0.7
	058	5.73	12	0.7
	060	5.93	12.7	0.9
	064	6.32	13.5	0.9
Type 2 2種	074	7.31	15	0.9
	080	7.91	16.5	1
	008	0.8	2	0.2
	012	1.2	3	0.3
	015	1.5	4	0.4
	020	2	5	0.4
	025	2.5	6	0.4
	030	3	7	0.6
	040	4	9	0.6
	050	5	11	0.6
	060	6	12	0.8
	070	7	14	0.8
	080	8	16	0.8
	090	9	18	0.8
	100	10	20	1

Figure ZZE (2 / 3) MECHANICAL STANDARD PARTS (RETAINING RINGS)

5-2. Grip Rings
グリップ止め輪

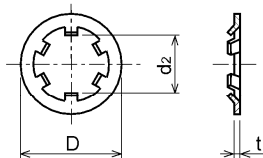


Type No. 類別番号	Type 類別
XD2-210	Grip ring グリップ止め輪

Table 5 表5

Nominal designation 呼び	d_3 (mm)	t (mm)	b (mm)	a (mm)	d_0 (mm)
020	1.9	0.5	1	1.8	0.8
025	2.35	0.5	1.2	1.9	0.9
030	2.85	0.6	1.4	1.9	0.9
035	3.3	0.6	1.6	2	0.9
040	3.8	0.8	1.8	2.8	1.2
045	4.25	0.8	2	2.9	1.3
050	4.75	0.8	2.2	2.9	1.3
060	5.7	1	2.4	3.1	1.4
070	6.7	1	2.7	3.3	1.4
080	7.7	1	3	3.5	1.4
090	8.65	1.2	3.3	4.7	1.5
100	9.65	1.2	3.5	4.7	2

5-3. Toothed Retaining Rings
歯付き形止め輪



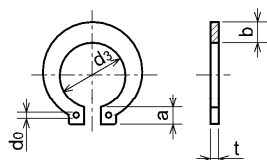
Type No. 類別番号	Type 類別
XD2-230	Toothed retaining ring 歯付き形止め輪

Table 5 表5

Nominal designation 呼び	d_2 (mm)	D (mm)	t (mm)	No of teeth 歯数
015	1.4	5.2	0.25	3
020	1.9	6	0.25	3
024	2.3	6.4	0.25	3
030	2.8	8	0.25	4
040	3.8	9	0.25	4
050	4.8	10	0.25	5
060	5.8	11	0.25	5
080	7.8	13	0.25	5
100	9.8	15.4	0.25	6

Figure ZZE (3 / 3) MECHANICAL STANDARD PARTS (RETAINING RINGS)

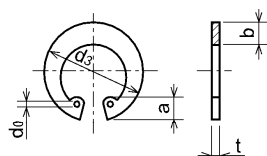
5-4. Retaining Rings - C Type C形止め輪



Type No. 類別番号	Type 類別
XD2-310	Retaining ring - C type for shaft C形止め輪 軸用

Table 5 表5

Nominal designation 呼び	d ₃ (mm)	t (mm)	b (mm)	a (mm)	d ₀ (mm)
010	9.3	1	1.6	3	1.2
012	11.1	1	1.8	3.2	1.5
014	12.9	1	2	3.4	1.7
015	13.8	1	2.1	3.5	1.7
016	14.7	1	2.2	3.6	1.7
017	15.7	1	2.2	3.7	1.7
018	16.5	1.2	2.6	3.8	1.7
020	18.5	1.2	2.7	3.9	2
022	20.5	1.2	2.7	4.1	2
025	23.2	1.2	3.1	4.3	2
028	25.9	1.5	3.1	4.6	2
030	27.9	1.5	3.5	4.8	2
032	29.6	1.5	3.5	5	2.5
035	32.2	1.5	4	5.4	2.5



Type No. 類別番号	Type 類別
XD2-320	Retaining ring - C type for hole C形止め輪 穴用

Table 5 表5

Nominal designation 呼び	d ₃ (mm)	t (mm)	b (mm)	a (mm)	d ₀ (mm)
010	10.7	1	1.8	3.1	1.2
011	11.8	1	1.8	3.2	1.2
012	13	1	1.8	3.3	1.5
014	15.1	1	2	3.6	1.7
016	17.3	1	2	3.7	1.7
018	19.5	1	2.5	4	1.7
019	20.5	1	2.5	4	2
020	21.5	1	2.5	4	2
022	23.5	1	2.5	4.1	2
025	26.9	1.2	3	4.4	2
028	30.1	1.2	3	4.6	2
030	32.1	1.2	3	4.7	2
032	34.4	1.2	3.5	5.2	2.5
035	37.8	1.5	3.5	5.2	2.5
037	39.8	1.5	3.5	5.2	2.5
040	43.5	1.8	4	5.7	2.5
042	45.5	1.8	4	5.8	2.5
045	48.5	1.8	4.5	5.9	2.5
047	50.5	1.8	4.5	6.1	2.5
050	54.2	2	4.5	6.5	2.5
052	56.2	2	5.1	6.5	2.5
055	59.2	2	5.1	6.5	2.5
060	64.2	2	5.1	6.8	2.5
062	66.2	2	5.5	6.9	2.5
068	72.5	2.5	6	7.4	2.5
072	76.5	2.5	6.6	7.4	2.5
075	79.5	2.5	6.6	7.8	2.5
080	85.5	2.5	7	8	2.5
085	90.5	3	7	8	3
090	95.5	3	7.6	8.3	3
095	100.5	3	8	8.5	3

FIG/KEY	PART NUMBER	RANK	QTY	DESCRIPTION	REMARKS
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