



SMART-31 Printer

Technical Manual

SMART & WISE are innovative modular card printer brands by IDP. IDP is dedicated to designing and manufacturing convenient, reliable and inexpensive card printers for all.



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1. PRINTER STRUCTURE

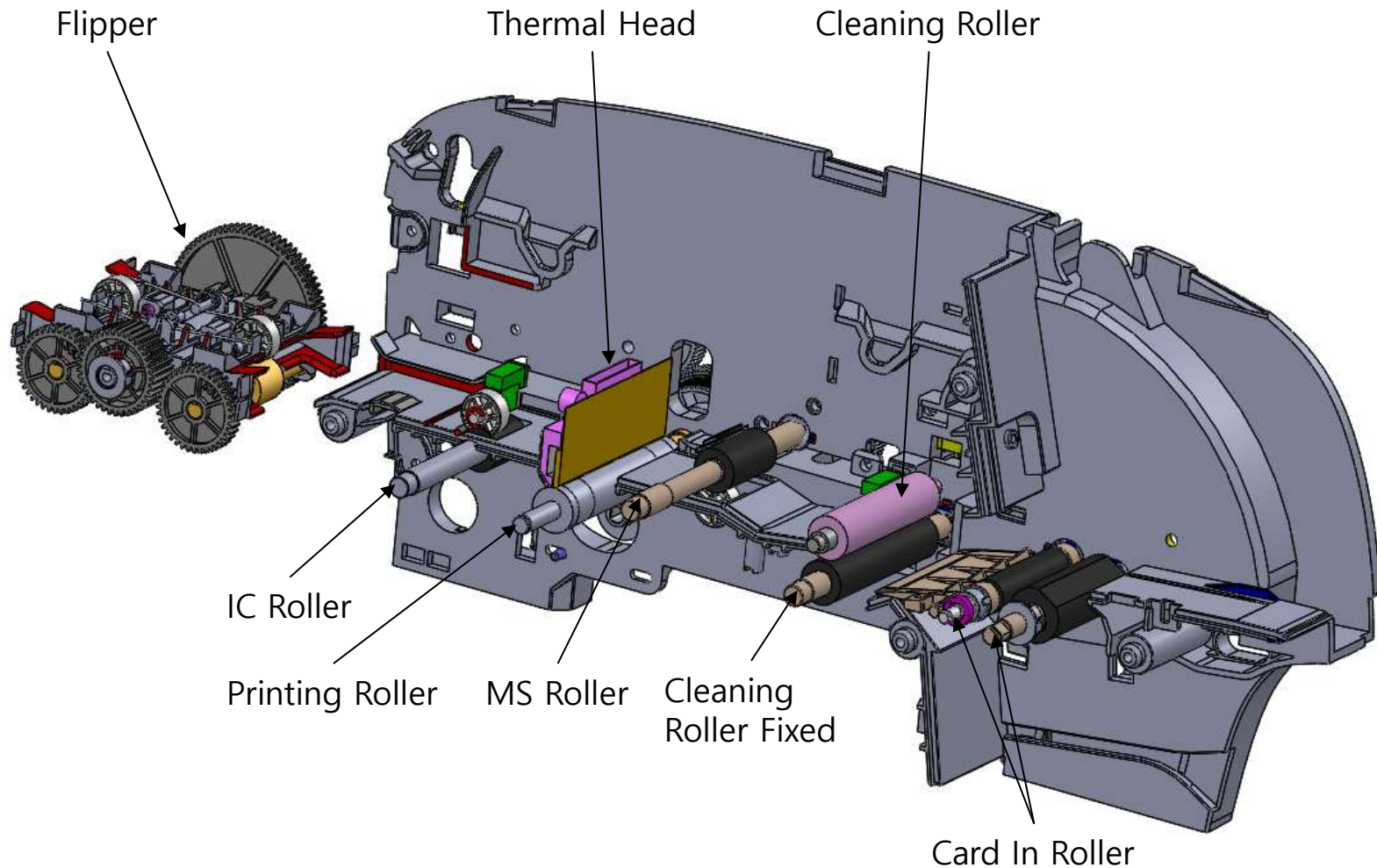


1. Printer Structure

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1.1 Card Movement Parts

1.1.1 Thermal Print Head and Rollers

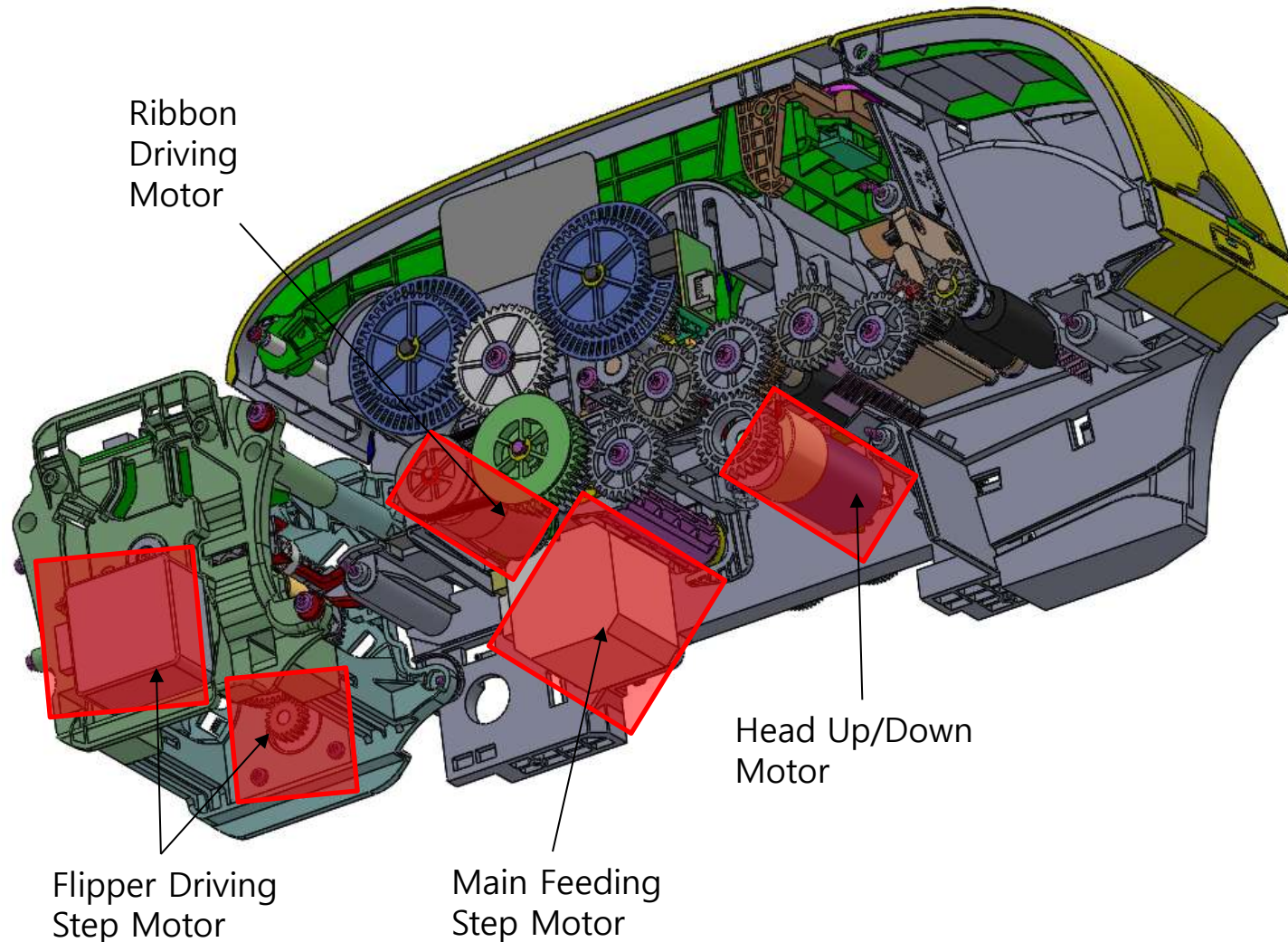


1. Printer Structure

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1.1 Card Movement Parts

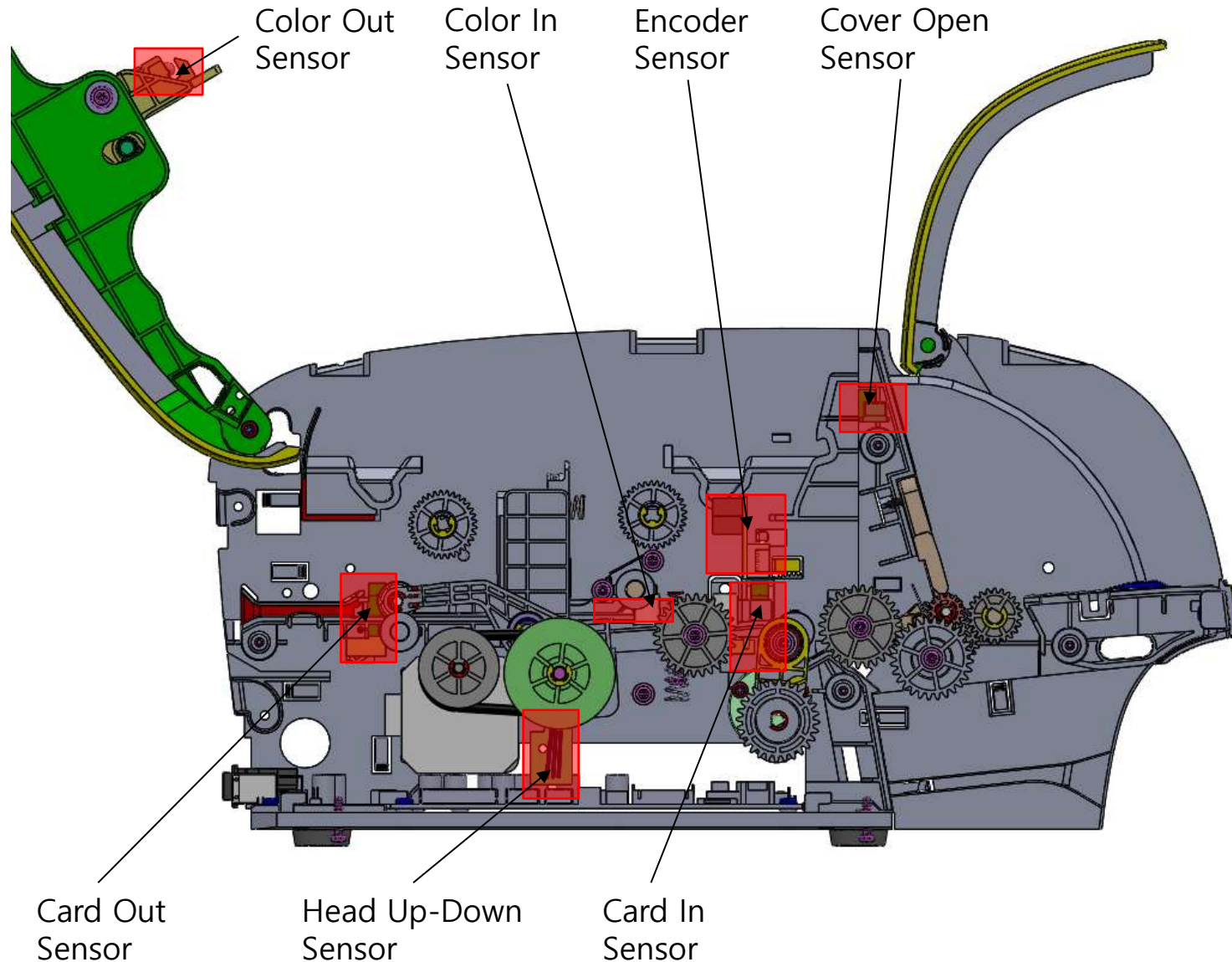
1.1.2 Motors



1. Printer Structure

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1.2 Sensors

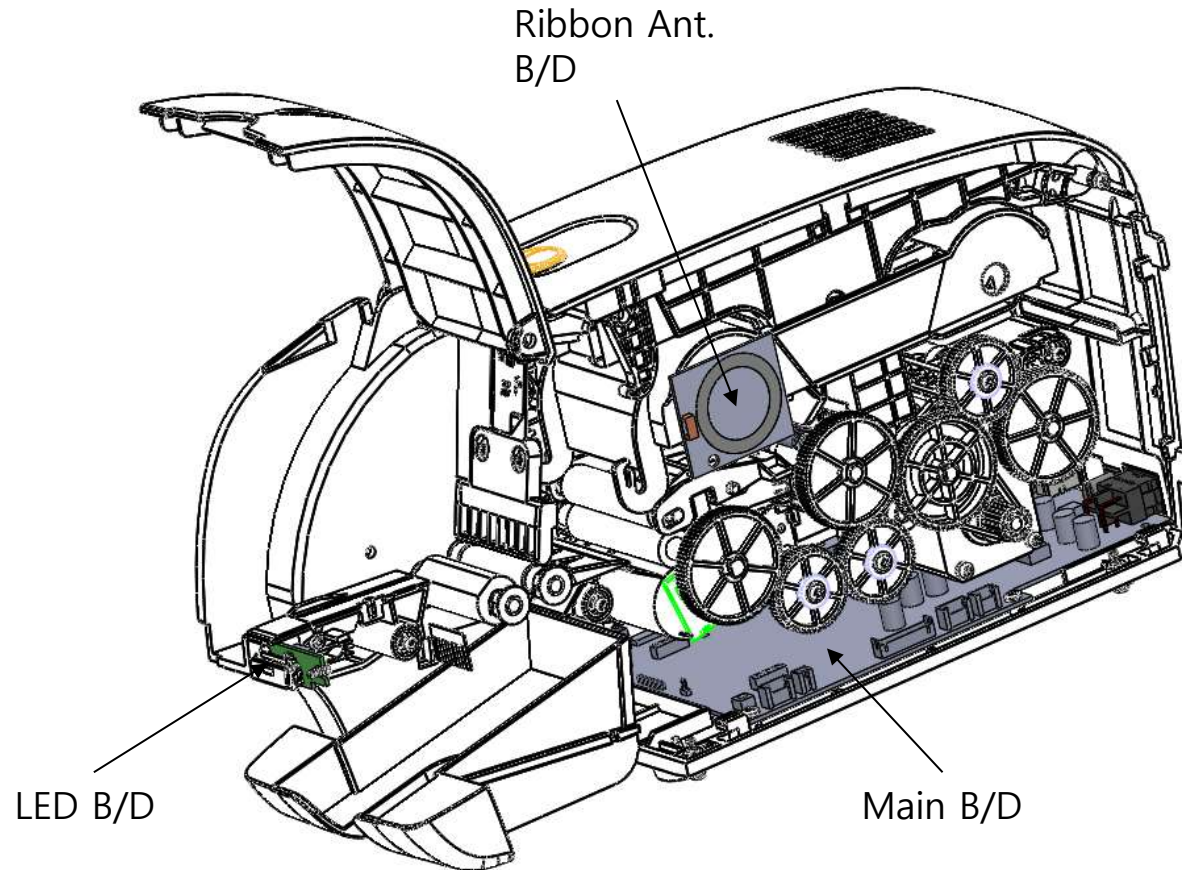


1. Printer Structure

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1.3 PCBs

1.3.1 PCBs

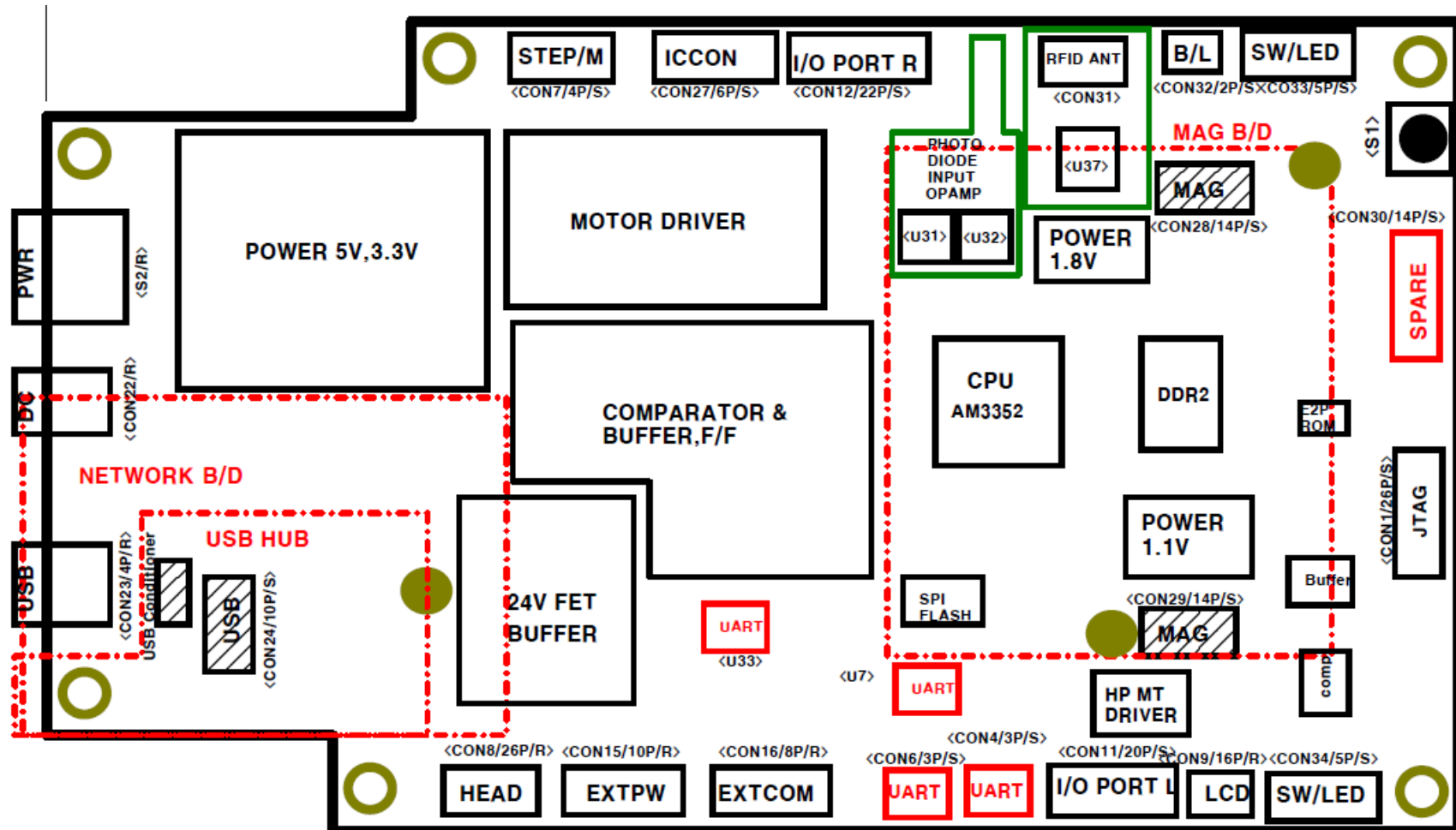


1. Printer Structure

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1.3 PCBs

1.3.2 Wired Diagram for Printer Main Board



2. PRINTER DISASSEMBLY

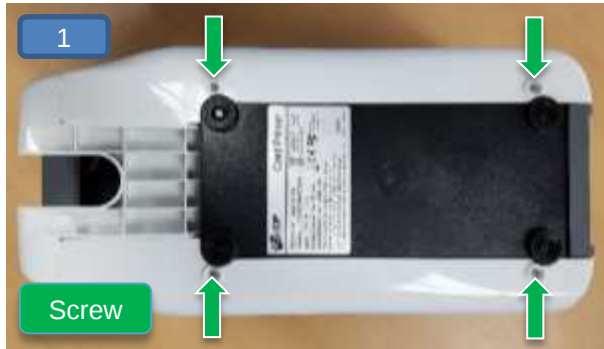


2. Printer Disassembly

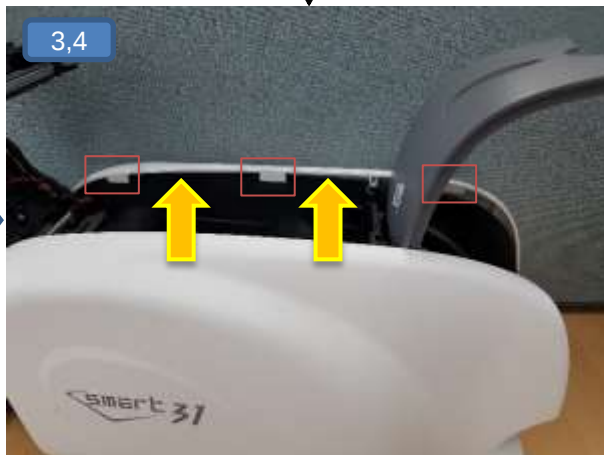
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2.1 Single-sided Printer

2.1.1 Side Cover



1. Unscrew total 4 screws on the base part.
2. Grip the bottom part of right/left Side Cover and pivot from upper part of right/left Side Cover.
3. After detaching the lower part of right/left Side Cover, lift it up to disassemble.



2. Printer Disassembly

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2.1 Single-sided Printer

2.1.2 LED-Button Unit



1. Open the Front Cover and broaden the gap between the LED-button Unit and Main Frame by the flat screwdriver. Then Hook is detached.
2. Disassemble the LED-Button Unit by pulling it the direction of the arrow. Be careful not to damage the cable to connect the unit.
3. Disconnect the cable of LED-Button unit.

2. Printer Disassembly

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2.1 Single-sided Printer

2.1.3 Stacker Unit



1. Hold the both sides of Stacker.
2. Pull the Stacker to disassemble after holding a body of the printer by the other hand.
3. Install the stacker into the rack in the body by aligning and engaging the inner rail with the slide rail and inserting.



2. Printer Disassembly

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2.1 Single-sided Printer

2.1.4 Front Cover



1. Open the Front Cover as the left picture.

2. Push the connect part in the direction of the arrow by flat screwdriver and disassemble the Front Cover.



2. Printer Disassembly

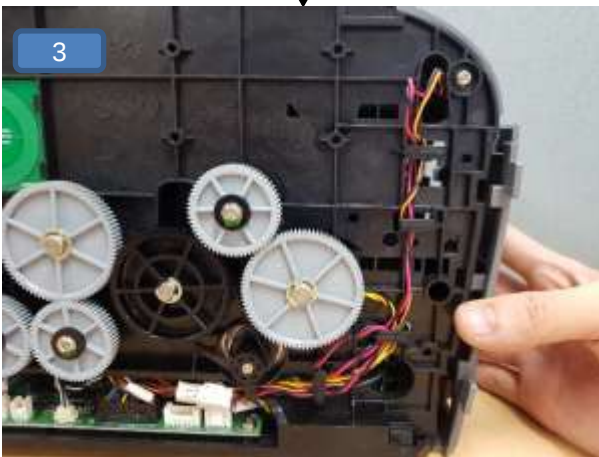
YOUR BEST ID PRINTER PROVIDER

2.1 Single-sided Printer

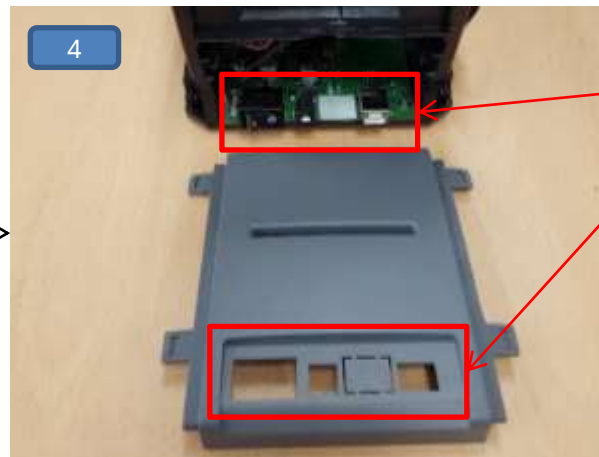
2.1.5 Rear Cover



- Unlock the hook of Rear Cover



1. Rear Cover is connected to Side Plates by Hook.
2. Unlock the both side Hook of Rear Cover by using a flat screw driver or other tools.
3. Disassemble Rear Cover to pull it by hand.



- Please match the connectors of Main B/D with the holes of Rear Cover

2. Printer Disassembly

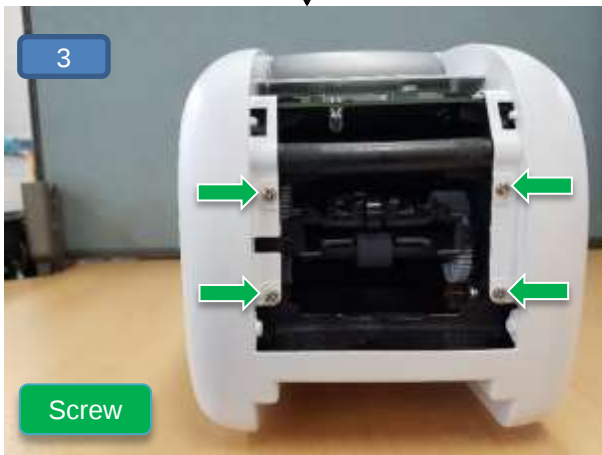
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2.2 Dual-sided Printer

2.2.1 Flipper Cover



1. Open the Flipper Top Cover in the direction of the arrow as shown in Fig. 1.
2. Remove the 4 screws to disassemble the Flipper Top Cover.
3. Remove a 4 Screws.
4. Push a Flipper Cover to the arrow direction to disassemble.

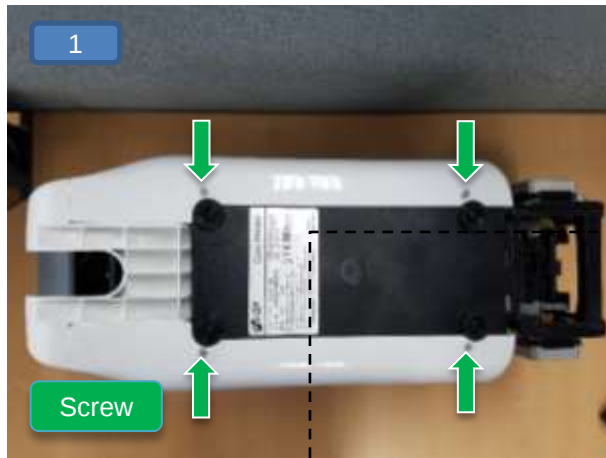


2. Printer Disassembly

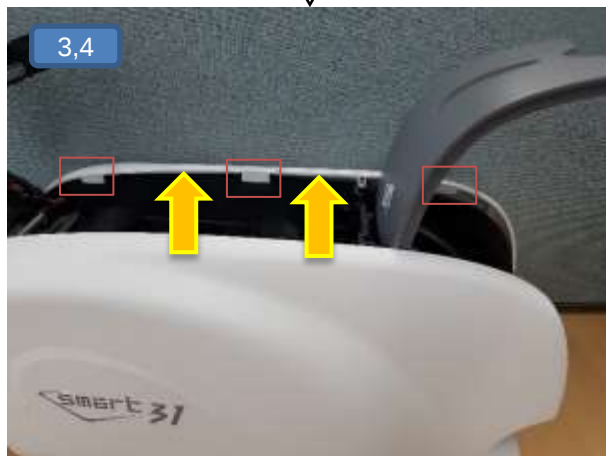
YOUR BEST ID PRINTER PROVIDER

2.2 Dual-sided Printer

2.2.2 Printer Side Cover



1. Unscrew total 4 screws on the base part.
2. Grip the bottom part of right/left Side Cover and pivot from upper part of right/left Side Cover.
3. After detaching the lower part of right/left Side Cover, lift it up to disassemble.

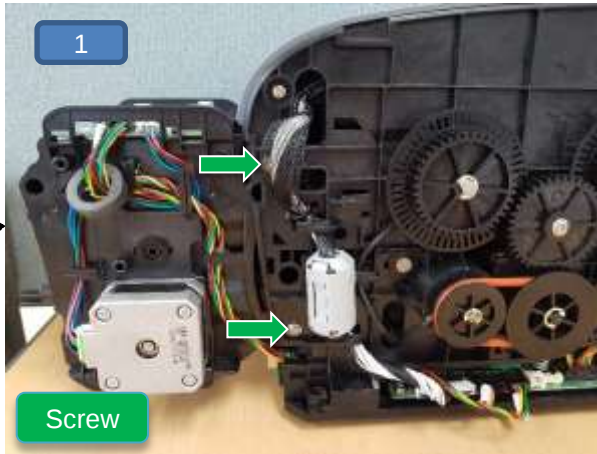
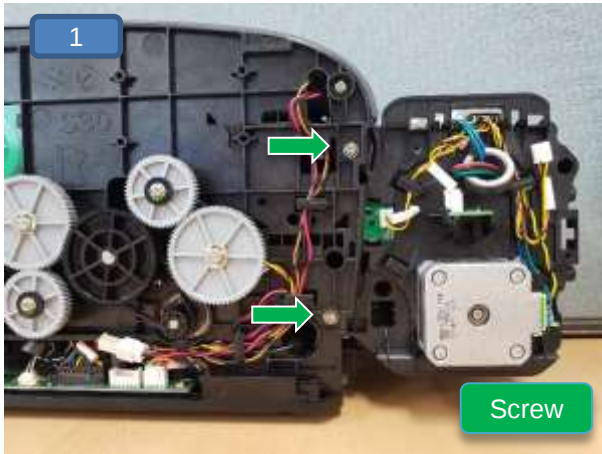


2. Printer Disassembly

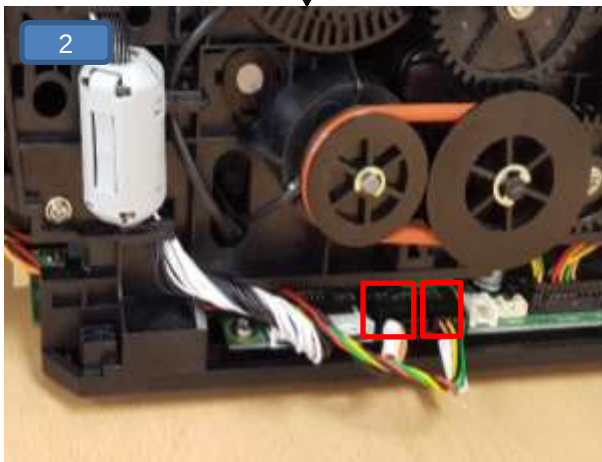
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2.2 Dual-sided Printer

2.2.3 Flipper



1. Unscrew the 4 screws on the both sides of Flipper part.
2. Disconnect the 2 cables between Flipper and Main B/D.
3. Disassemble the Flipper.



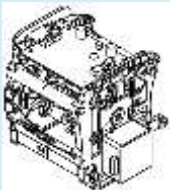
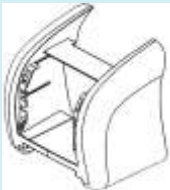
3. OPTION INSTALLATION



3. Option Installation

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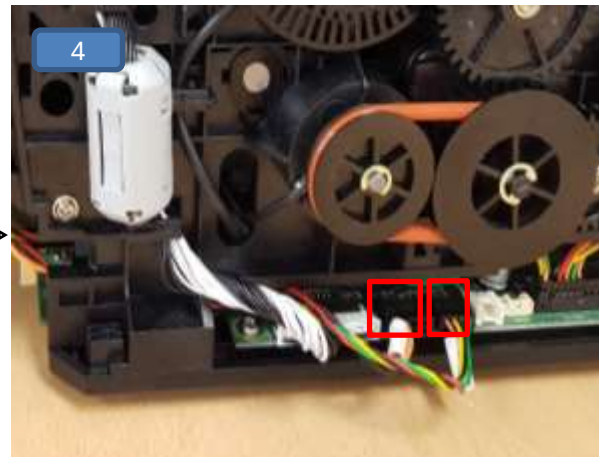
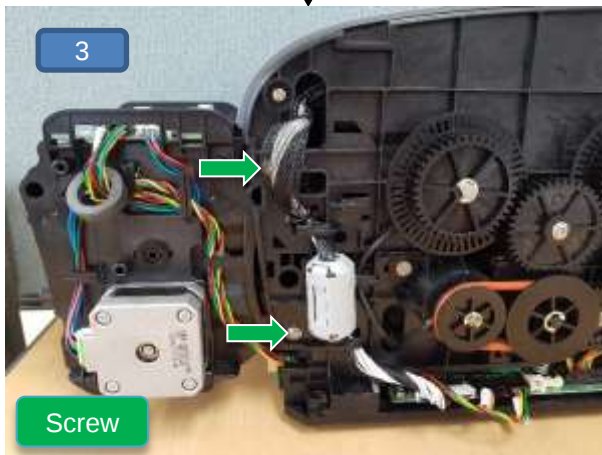
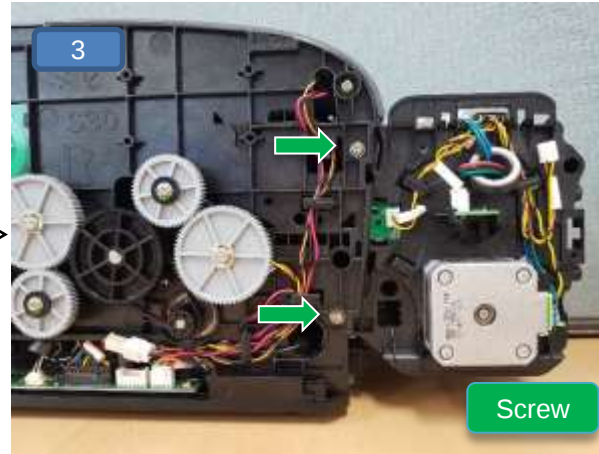
3.1 Flipper Module (#651315 SP S31 FLIPPER)

Fig.	No.	IDP Code	DESC.	Q'ty
	1	640575	ASSY S31,FLIPPER_OPTION	1
	2	612498	COVER S31,FLIPPER_MAIN	1
	3	612499	COVER S31,FLIPPER_TOP	1
	4	610887	SCREW SS,T2_3X8,PH	4

3. Option Installation

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3.1 Flipper Module

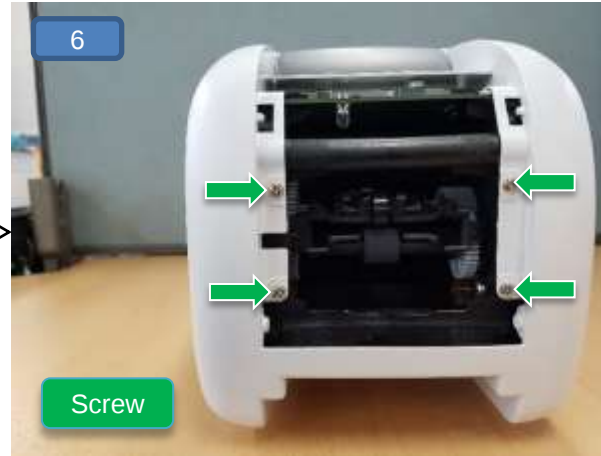


1. Disassemble the right/left Side Cover and Rear Cover and remove the Flipper Module cover.
2. Align the flipper module with the rear mounting hole in the printer as shown in Fig 1.
3. Fix it by 4 screws.
4. After connecting the cables in the Flipper Module to the connector of the Main B/D, arrange the cables with the cable holder on the left side of the side plate.

3. Option Installation

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3.1 Flipper Module



5. Assemble the Flipper Cover in the direction of the arrow.
6. fix it by 4 screws.
7. Assemble the Flipper Back Cover.

3. Option Installation

YOUR BEST ID PRINTER PROVIDER

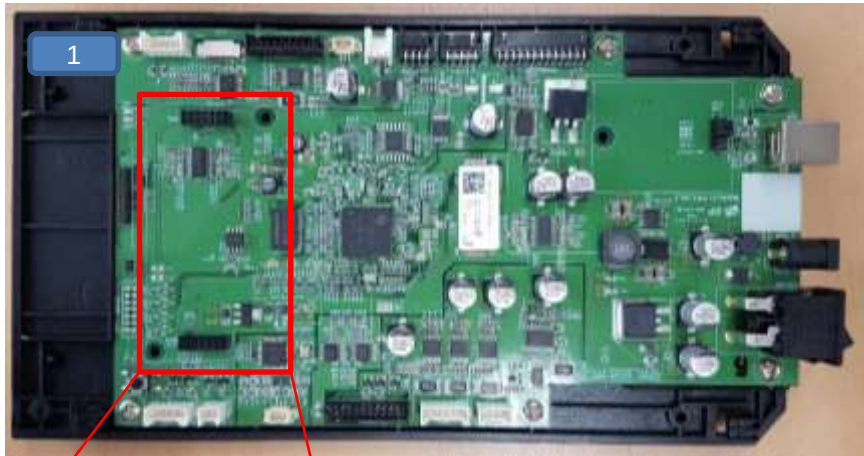
3.2 Magnetic Stripe Encoder (#651356 SP S51 MAGNETIC_ENCODER_ISO)

Fig.	No.	IDP Code	DESC.	Q'ty
	1	610116	HOLDER SS,MS_HEAD_SPRING_SET	1
	2	610020	O_RING SS,Pi1.7/1	1
	3	610507	SPRING SS,MS_TENSION	1
	4	611940	SCREW SS,T2_3X8,PH_2W	1
	5	630105	MS_TG313RWVPH_30 BD,SMART30,0.1	1
	6	612275	LOCK S51,SPACER_LCF-5	2
	7	630191	MS_RW MODULE_51 BD,SMART51 PRT,0.1	1
	8	610146	FFC CABLE,170mm,16P,0.5mm,2896 c-type	1

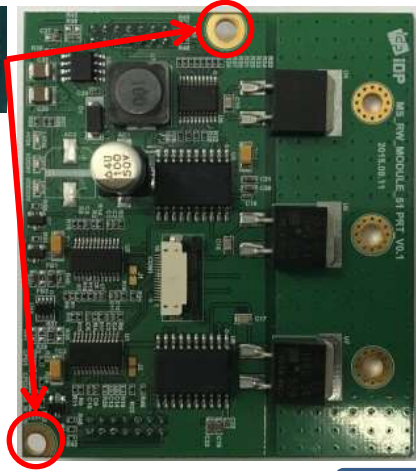
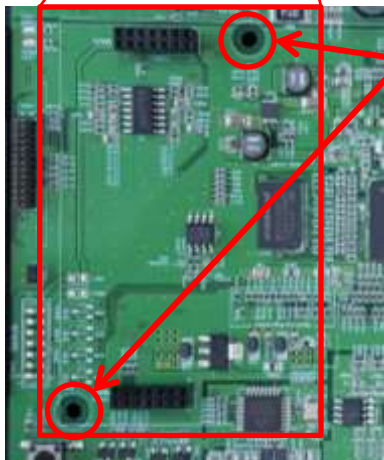
3. Option Installation

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3.2 Magnetic Stripe Encoder



1. Disassemble the Base plate as shown in fig. 1.
2. Fix the lock spacer (#612275) to fix the Option in the 2 holes.
3. Fit the MS option PCB with the locked spacer to the connector position and firmly seated until it clicks.
4. Mounted Main B/D as shown in fig. 4.



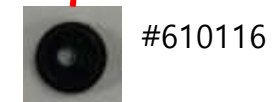
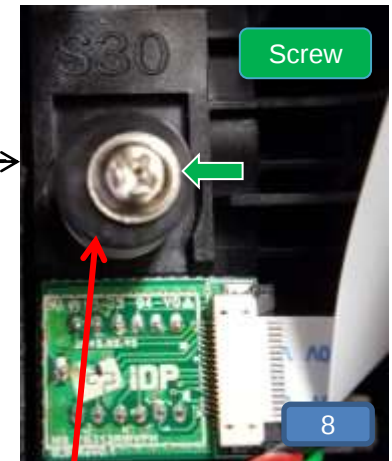
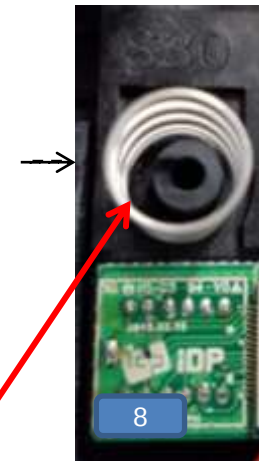
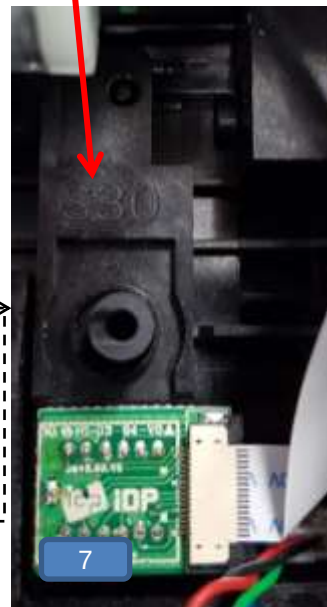
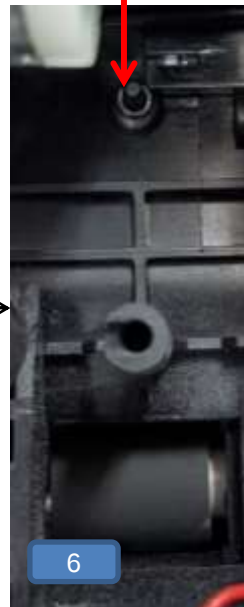
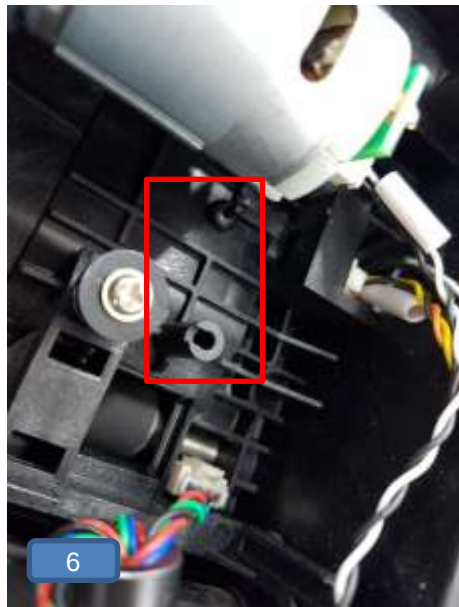
3. Option Installation

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3.2 Magnetic Stripe Encoder



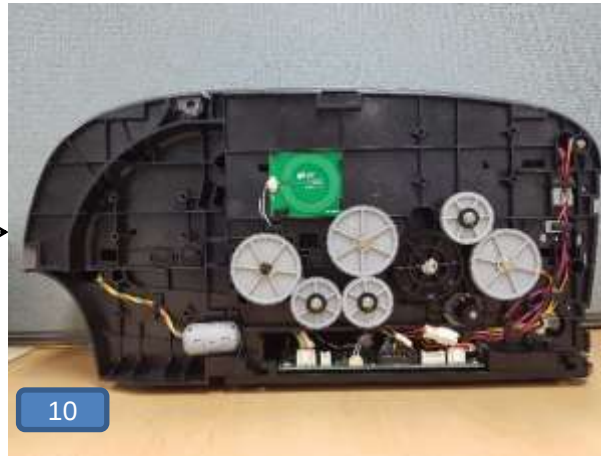
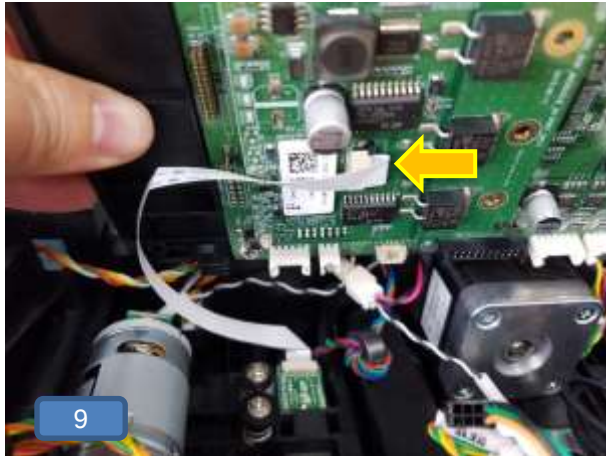
5. Connect the FFC cable (#610146) and MS Head as shown in fig. 1.
6. Flip the body of printer after disassembling the Main B/D, fix the rubber O-ring (#610020).
7. Assemble the MS head (No.5) in the part of O-ring installation and right fixed part.
8. After installing a spring (#610507) and fixing bracket (#610116) in the fixed part, fix it with the screw (#610366).



3. Option Installation

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3.2 Magnetic Stripe Encoder

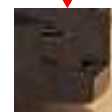
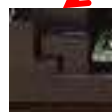
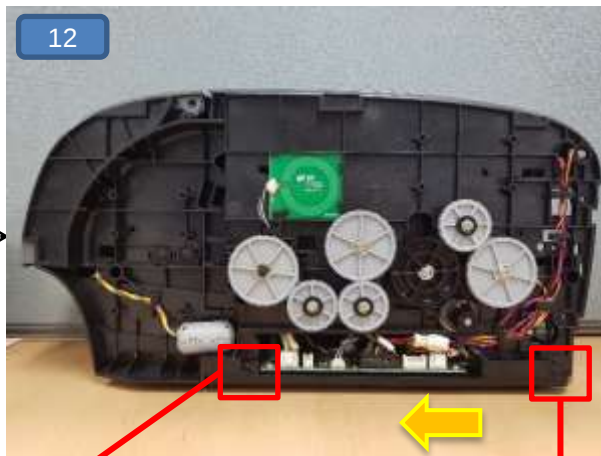
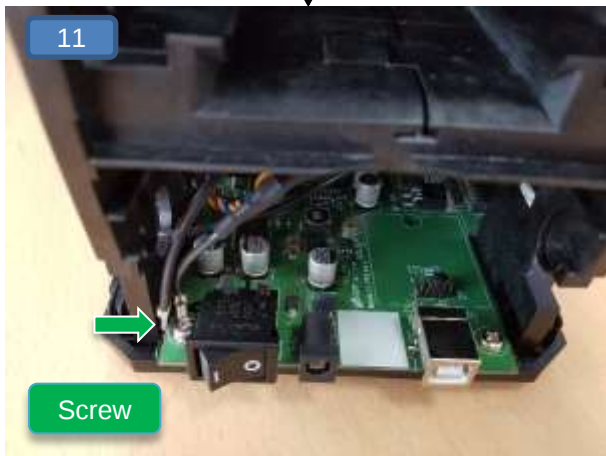


9. Connect the FFC cable in the installed MS head to MS PCB connector in the MS Main B/D.

10. Reassemble the Base plate to the printer body as shown in Fig. 10.

11. Connect the ground cable to the screw beside of the Power S/W.

12. Slide the Base plate until it clicks into place. And assemble the Side covers and and back cover.



3. Option Installation

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3.3 Contact Smart Card Encoder

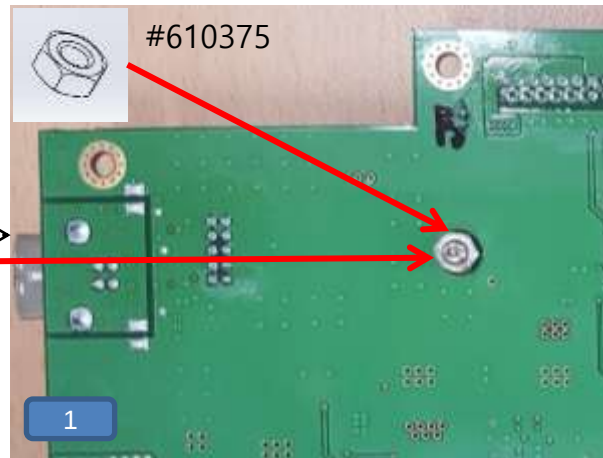
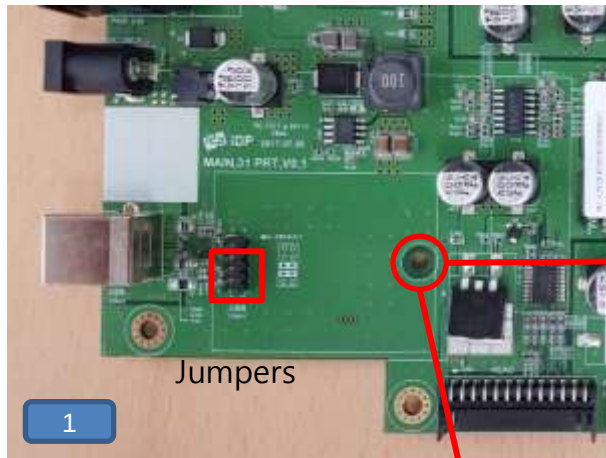
(#651359 SP S51 INTERNAL_SMART_CARD_ENCODER)

Fig.	No.	IDP Code	DESC.	Q'ty
	1	640595	ASSY S51,IC_OPTION_GEMPLUS	1
	2	611940	SCREW SS,T2_3X8,PH_2W	4
	3	610375	NUT SS,M3X2.4	1
	4	610355	SCREW SS,M3X6,SAM	1
	5	610430	SCREW SS,M3X6,HEX	1
	6	630050	USB HUB BD,SMART,0.1	1

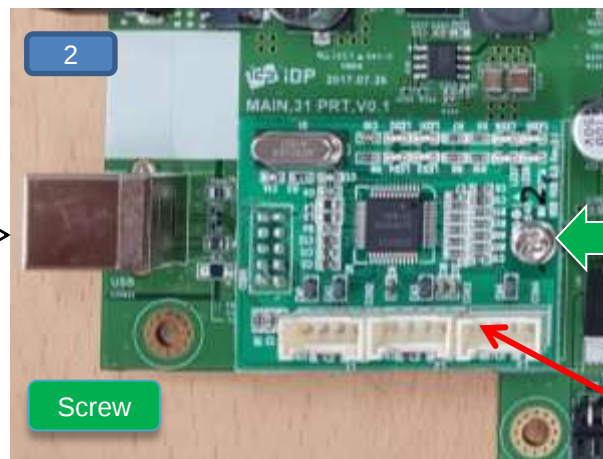
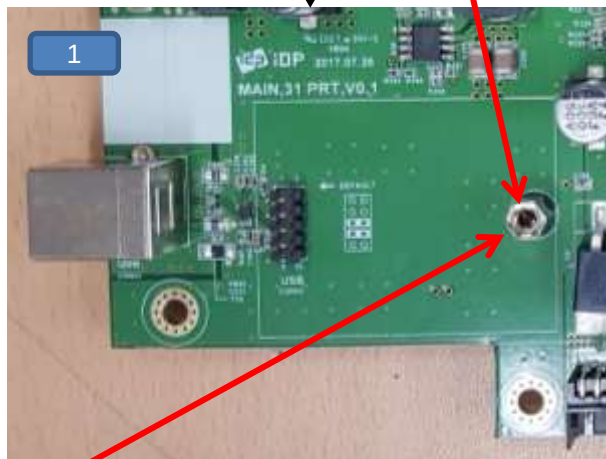
3. Option Installation

YOUR BEST ID PRINTER PROVIDER

3.3 Contact Smart Card Encoder



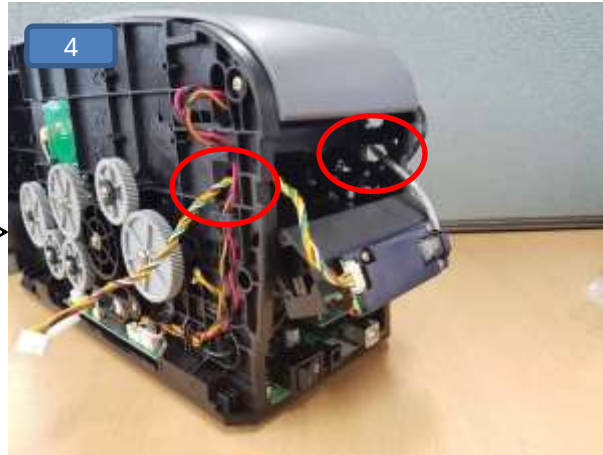
1. Disassemble the Main B/D after disassembling Side Covers and Rear Cover. Remove 2 jumpers.
2. Assemble the USB Hub B/D after installing a hexa-bolts (#610430) and Nuts (#610375).



3. Option Installation

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3.3 Contact Smart Card Encoder



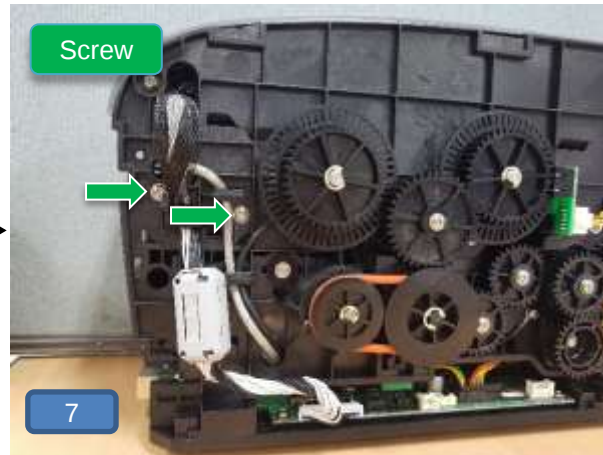
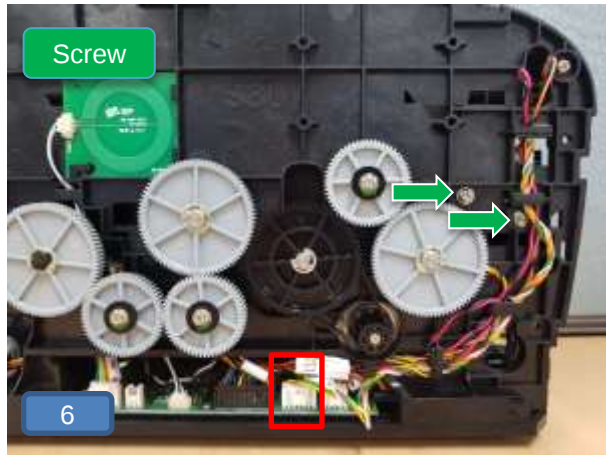
3. Insert the IC Module in the rear side of the printer.
4. Arrange the cables through the 2 holes in the right/left side of the printer.
5. Push the IC Module until it is firmly.



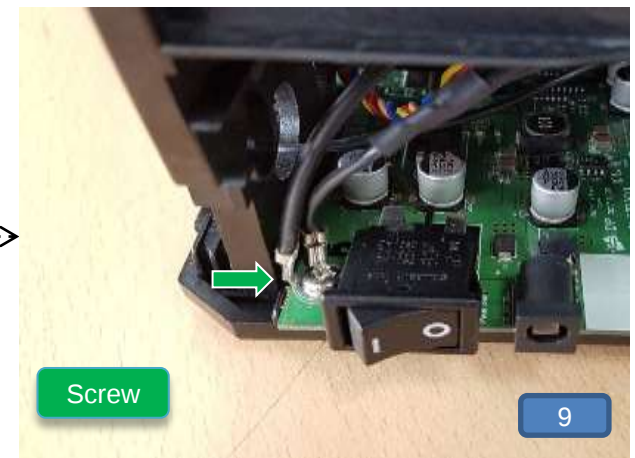
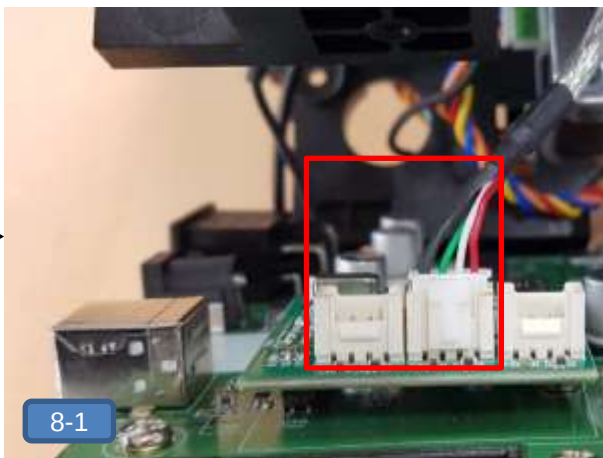
3. Option Installation

YOUR BEST ID PRINTER PROVIDER

3.3 Contact Smart Card Encoder



6. Fix the 4 screws to fix the IC module in the both side plate of the printer.
7. Connect the cables to the Main B/D.
8. Connect the USB cable in the IC module to 2nd slot of the USB hub B/D on the main B/D as shown in fig. 8-1.
8. Arrange the cables to prevent interfering belts or other parts.
9. Connect the ground cable to the screw beside of the Power S/W.
10. Assemble the both Side Covers and Rear Cover.



3. Option Installation

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3.4 Contactless Smart Card Encoder

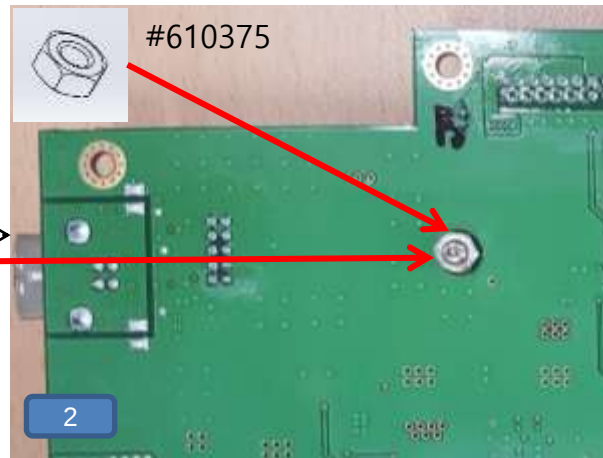
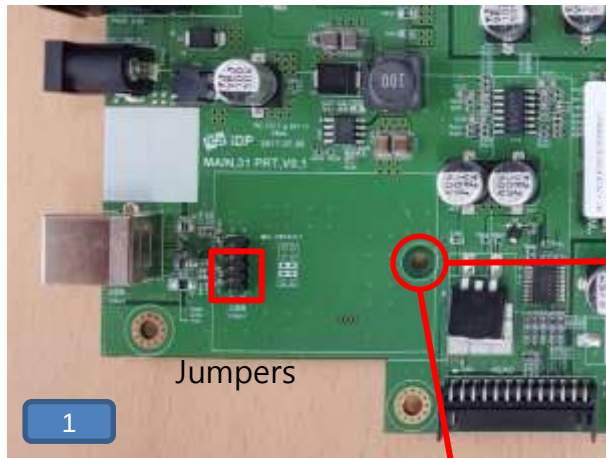
(#651083 SP S3 NTERNAL_CONTACTLESS_CARD_ENCODER3)

Fig.	No.	IDP Code	DESC.	Q'ty
	1	610949	MODULE,DE-ABCM	1
	2	611008	IN_RF_GENDER_30 PCB,REV0.1	1
	3	610429	LOCK SS,SNAP,RIVET	4
	4	610950	WIRE,DE-ABCM RF IN USB,140mm,USB1.0	1
	5	610375	NUT SS,M3X2.4	1
	6	610355	SCREW SS,M3X6,SAM	1
	7	610430	SCREW SS,M3X6,HEX	1
	8	630050	USB HUB BD,SMART,0.1	1

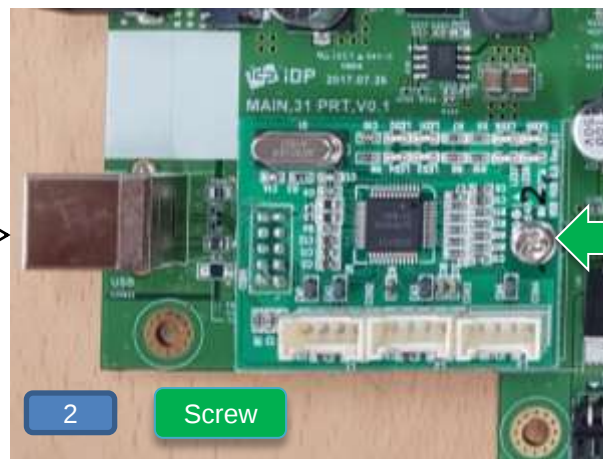
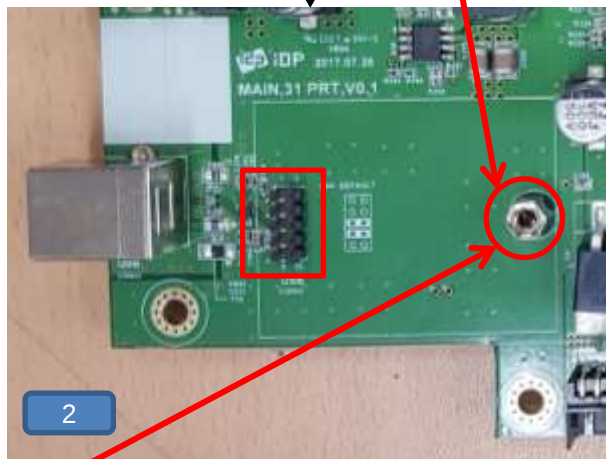
3. Option Installation

YOUR BEST ID PRINTER PROVIDER

3.4 Contactless Smart Card Encoder



1. Disassemble the Main B/D after disassembling Side Covers and Rear Cover. Remove 2 jumpers.
2. Assemble the USB Hub B/D after installing a hexa-bolts (#610430) and Nuts (#610375).

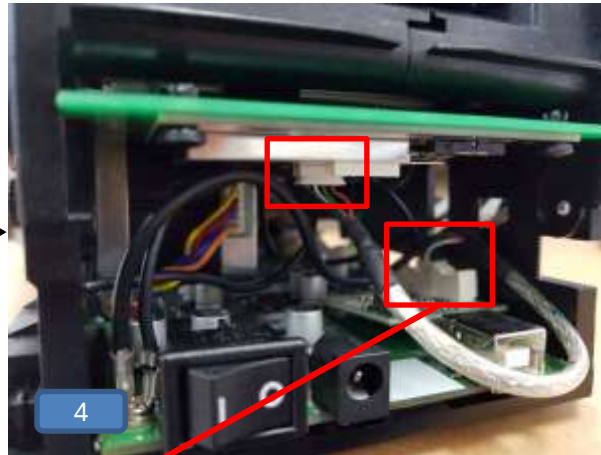
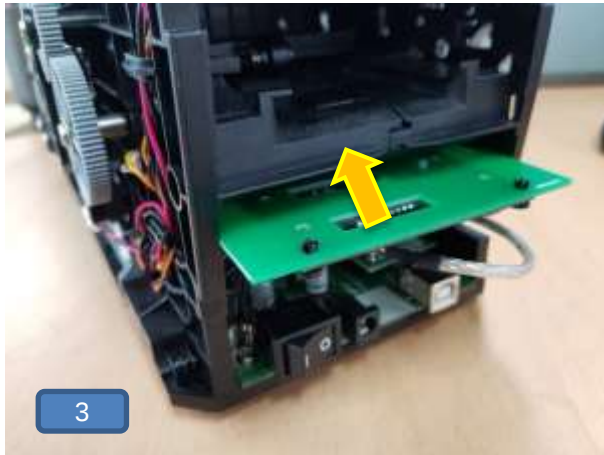


Screw

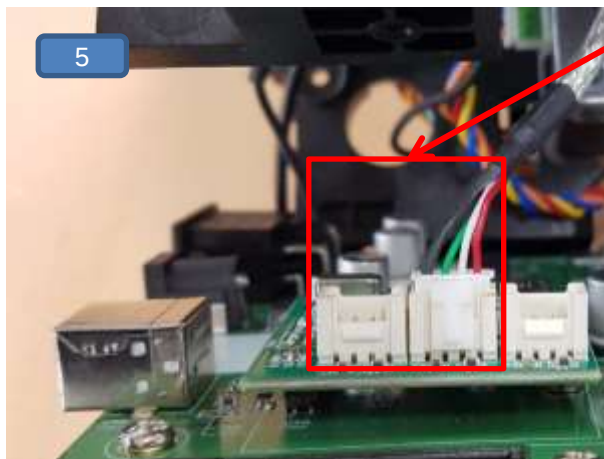
3. Option Installation

YOUR BEST ID PRINTER PROVIDER

3.4 Contactless Smart Card Encoder



3. Assemble the RF Module in the rear side of the printer. Insert it into the slots in the red rectangle.
4. Connect the cable of RF Module to the left 1st or 2nd slot of the USB Hub B/D on the main B/D.
5. Assemble the both Side Covers and Rear Cover.



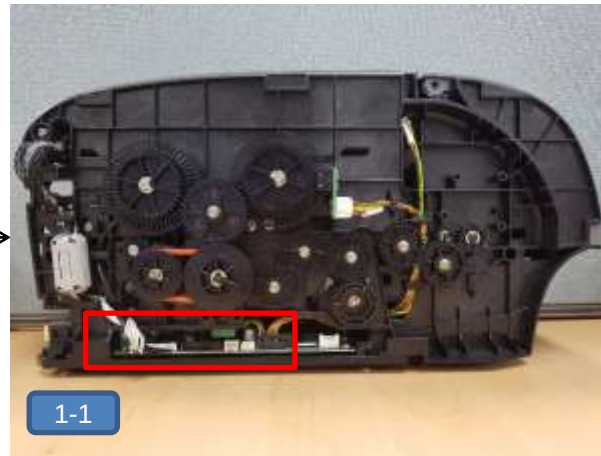
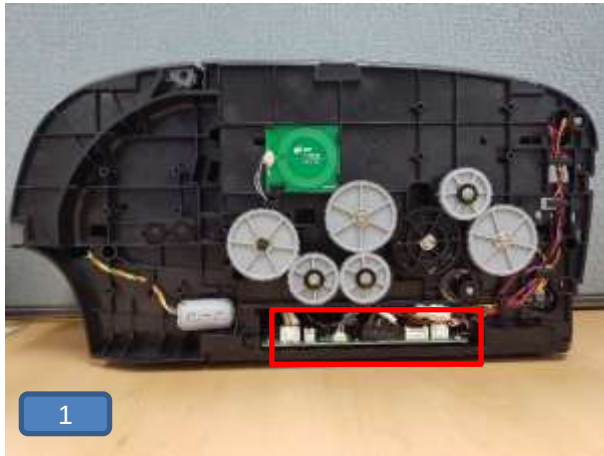
4. PARTS REPLACEMENT



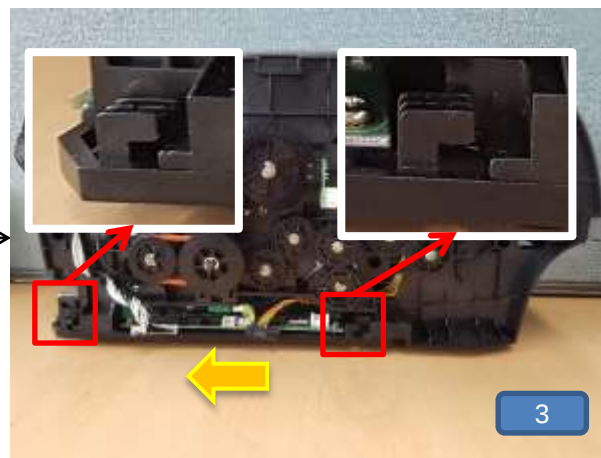
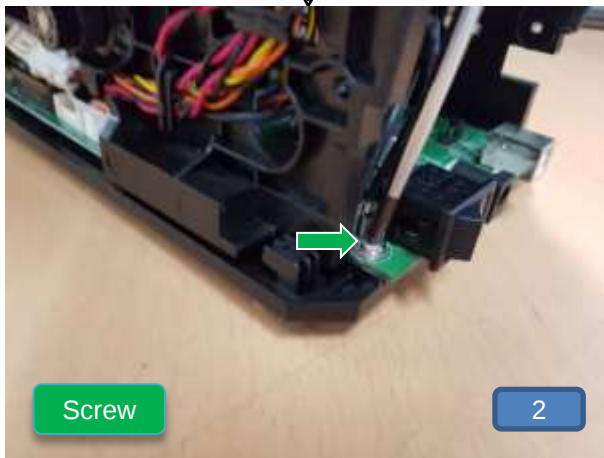
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.1 Main Board



1. Disconnect all cables from the Main B/D.
2. Remove screws beside a Power S/W as shown in fig. 2.
3. Push the base plate to the arrow direction as shown in fig. 3 and disassemble it from the hook
4. Disassemble the mainboard from the Printer body.



4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.2 Print Head / Top Cover Assy (1/3)



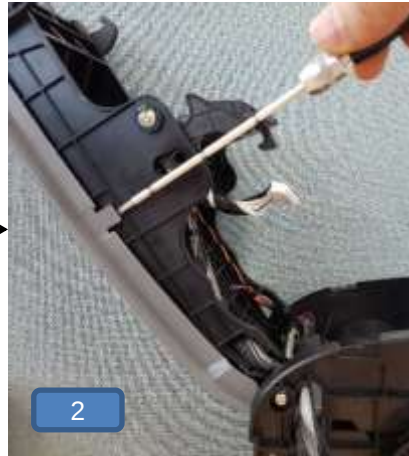
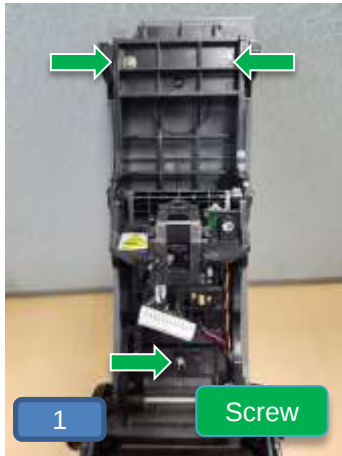
1. Press the push button of Hook and turn it clockwise, and disassemble the Print Head Assy.
2. Disconnect the Print Head cable.



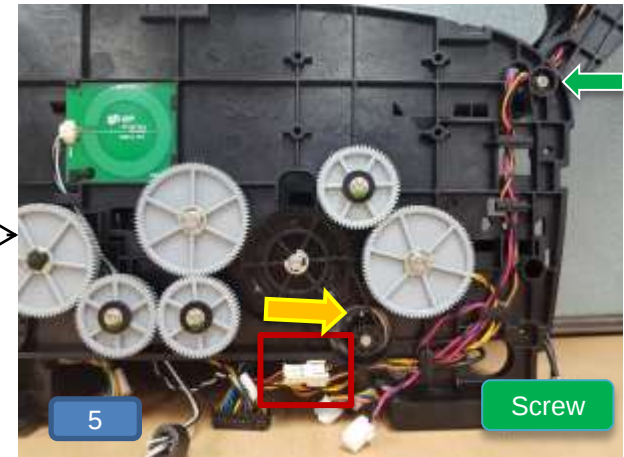
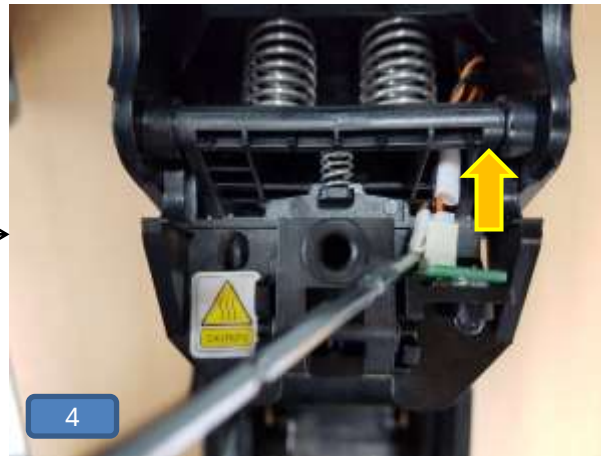
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.2 Print Head / Top Cover Assy (2/3)



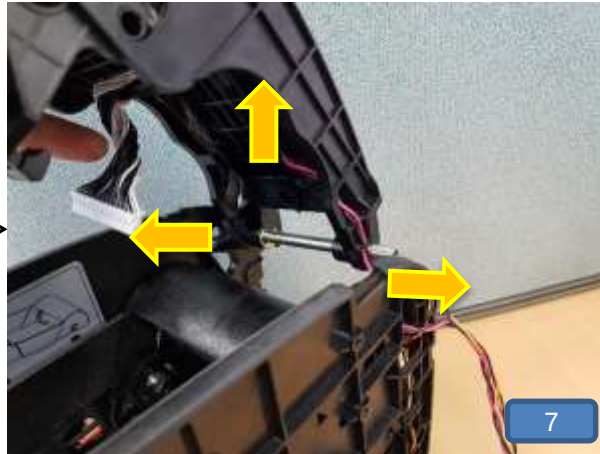
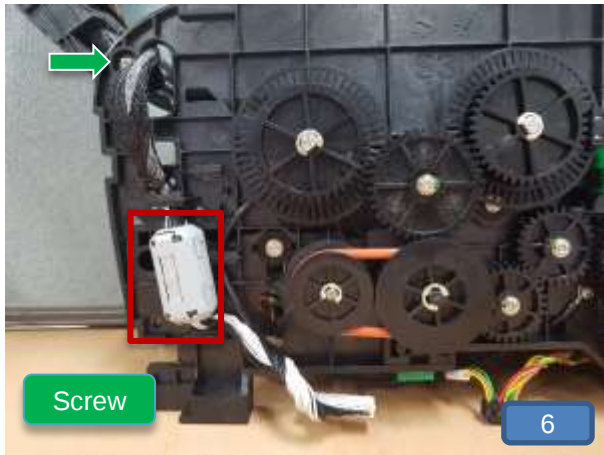
1. Loosen the 3 screws as shown in fig. 1.
2. Disassemble the Top Cover by a flat screw driver as shown in fig. 2.
3. Remove the cable tie to fix a wire.
4. To disassemble Color Out Sensor, push Snap for fixing and pull out sensor with a flat screw driver.
5. Remove a screw, disconnect the Fan cable in the connector, and then disassemble the cables from the main frame.



4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.2 Print Head / Top Cover Assy (3/3)



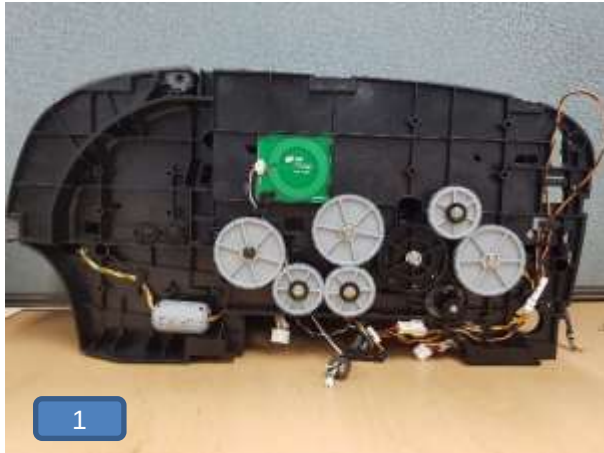
6. Remove a screw and Ferrite core, and disassemble the head cable from Main Frame.
7. Broaden the gap of the both main frame and disassemble the Top Cover Assy. with a cable.



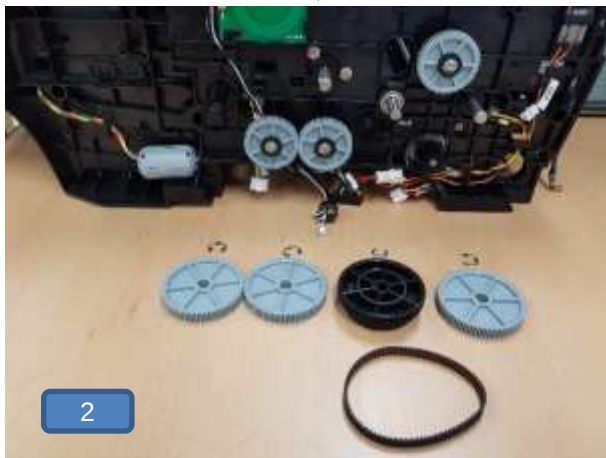
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.3 Gears / Pulleys / Belts



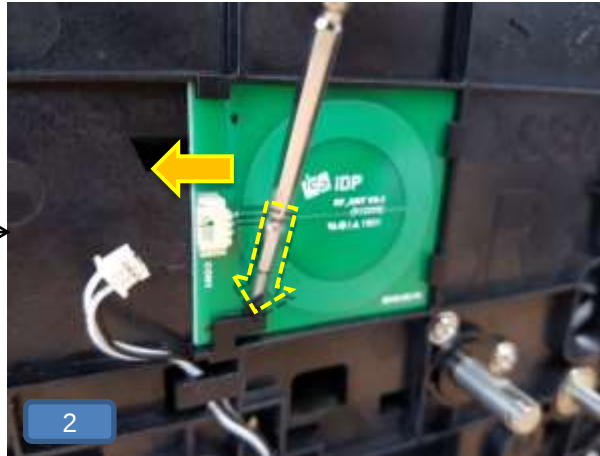
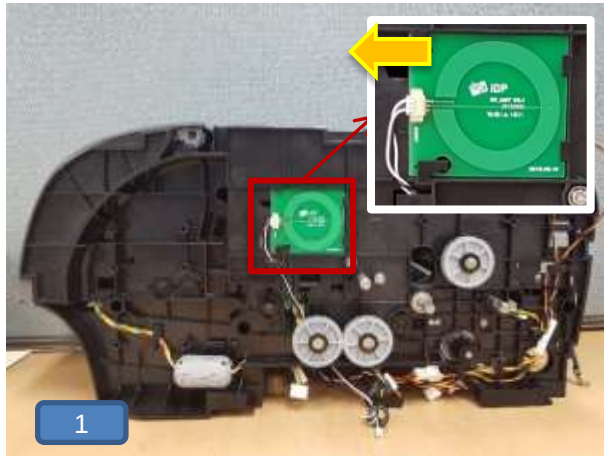
1. Remove the E-rings with a flat screwdriver.
2. Disassemble the 3 gears, 1 pulley, and 1 belt as shown fig. 2..



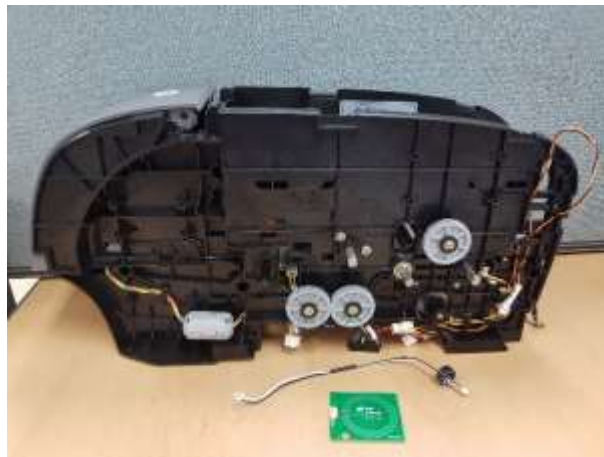
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.4 Ribbon RF Board



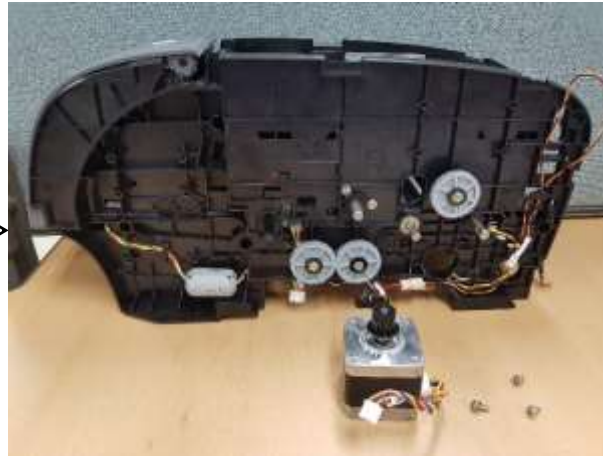
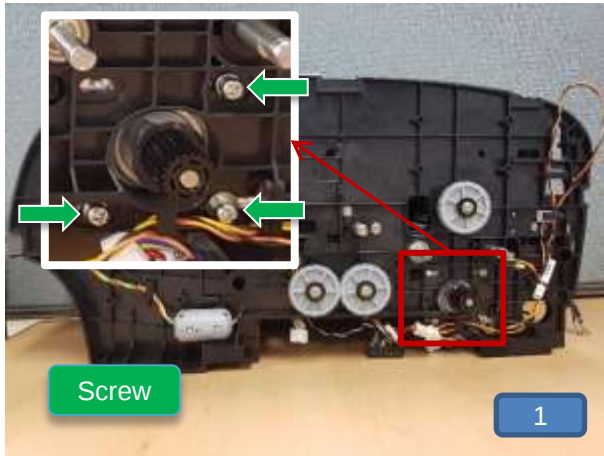
1. Disconnect the cable in the Ribbon RF Board as shown in fig. 1..
2. Disassemble the Ribbon RF Board by pulling it in the direction of the arrow after lift up the hook to fix it.



4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.5 Motors (1/3)

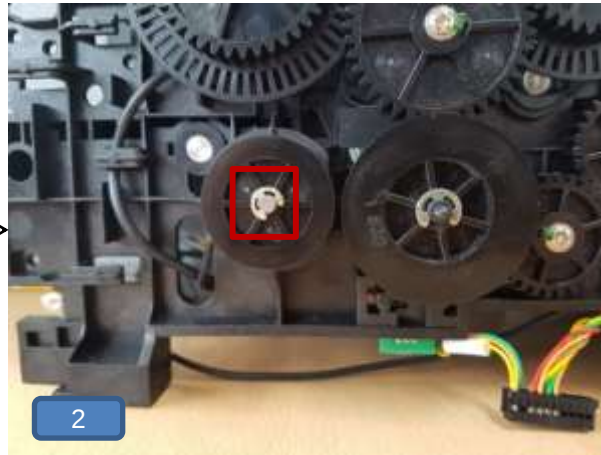
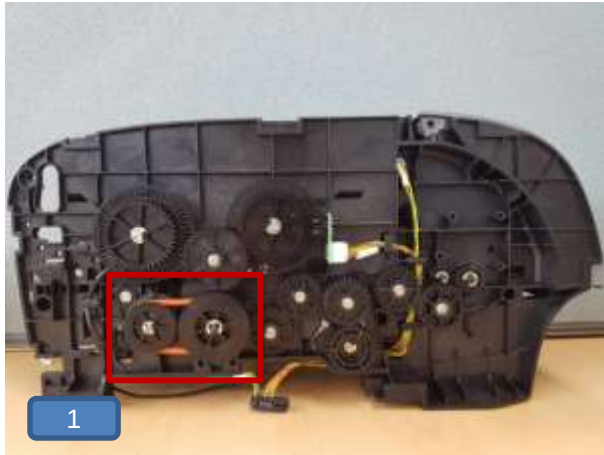


1. Loosen the 3 screws of the Main step motor as shown in fig. 1.

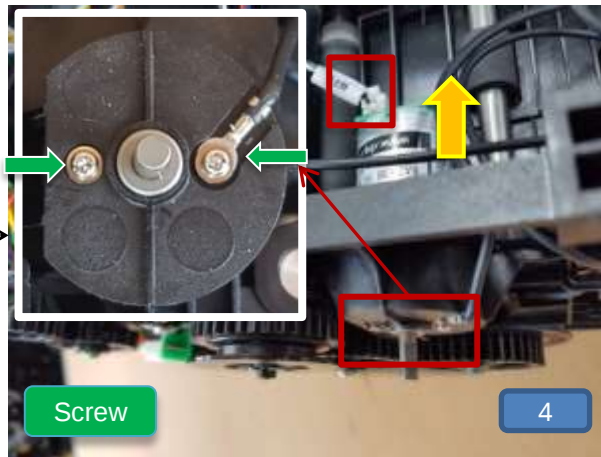
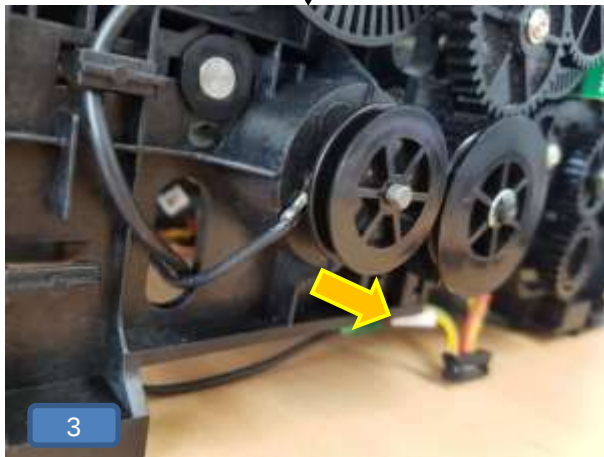
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.5 Motors (2/3)



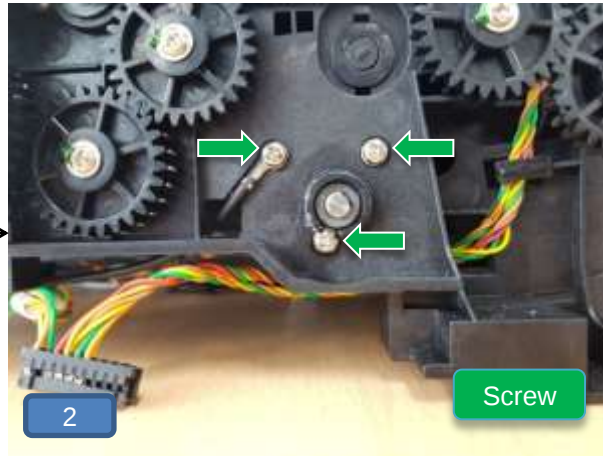
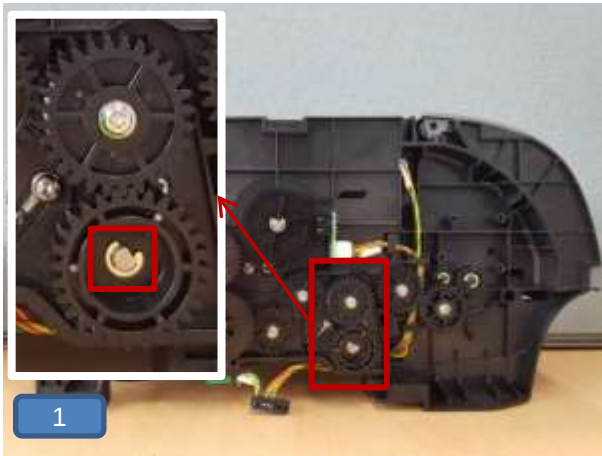
1. Remove the ribbon belt as shown in fig. 1.
2. Remove an E-ring with a flat screwdriver as shown in fig. 2.
3. Disassemble a Ribbon Pulley by pulling to the direction of arrow as shown in fig. 3..
4. Remove screws and a ground cable, and disassemble a ribbon motor.



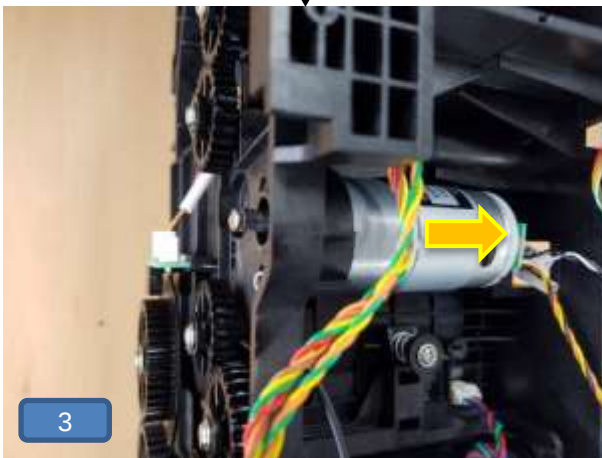
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.5 Motors (3/3)



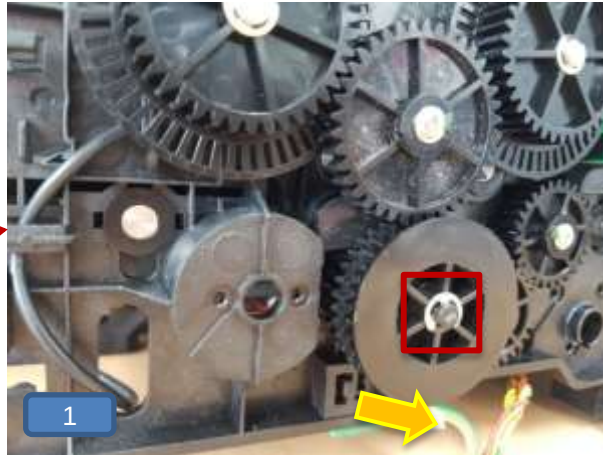
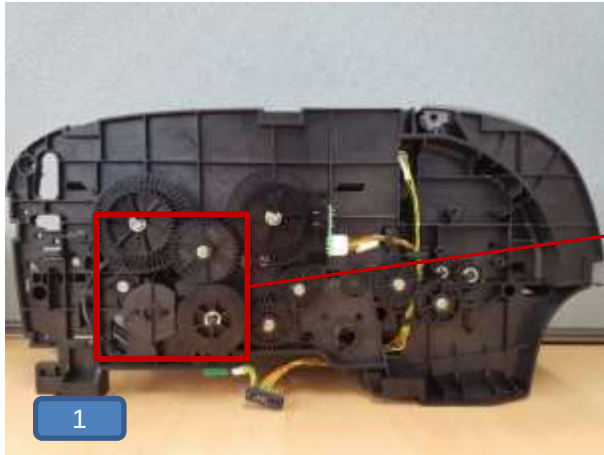
1. Remove an E-ring on the Head Up/Down Motor by a flat screwdriver.
2. Remove 3 screws which fixes a motor.
3. Disassemble Head Up/Down Motor by pulling to the direction of arrow, and disconnect the cable.



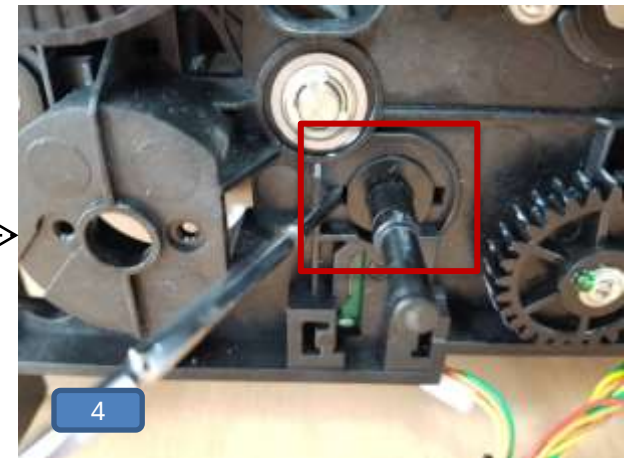
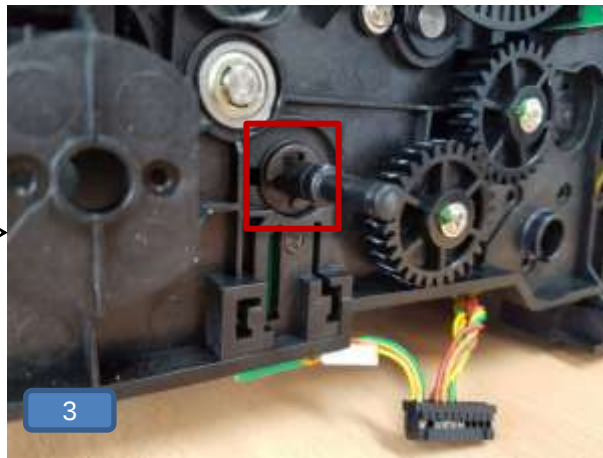
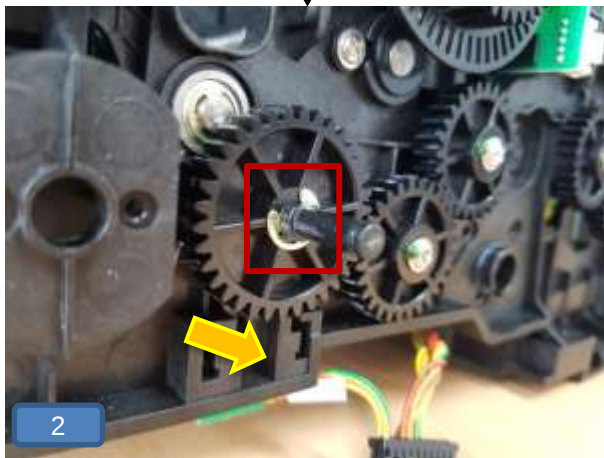
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.6 Rollers / Cam Shaft (1/7)



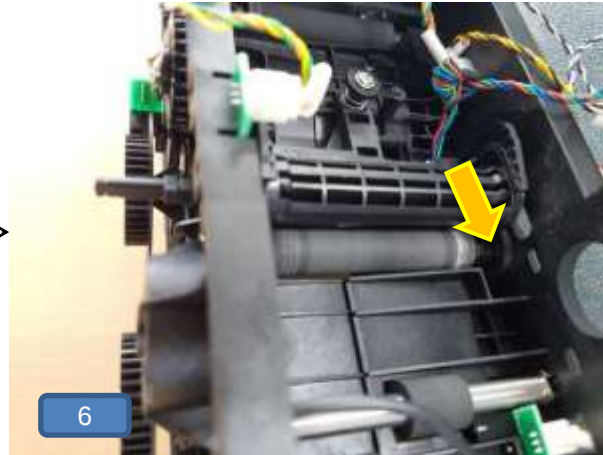
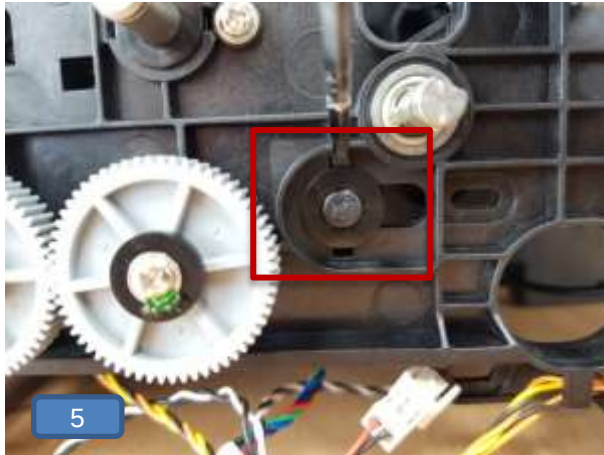
1-4. Disassemble the E-rings, gears and bush which fixes a Cam Shaft by flat screw driver.



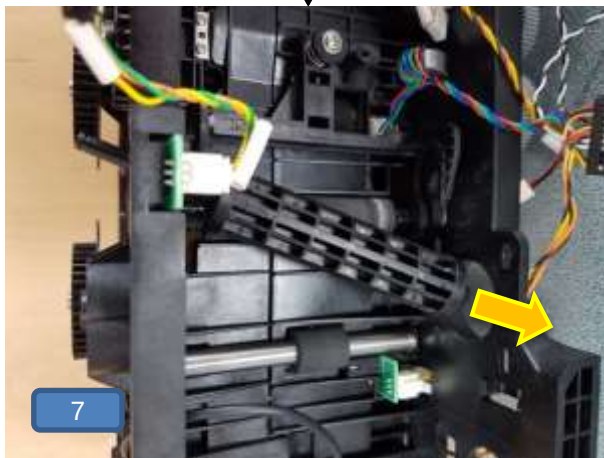
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.6 Rollers / Cam Shaft (2/7)



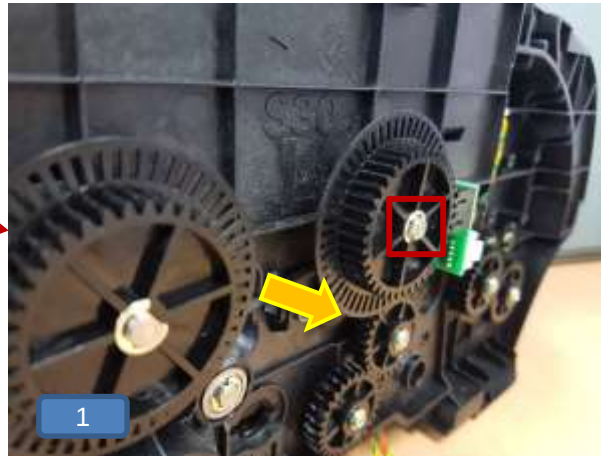
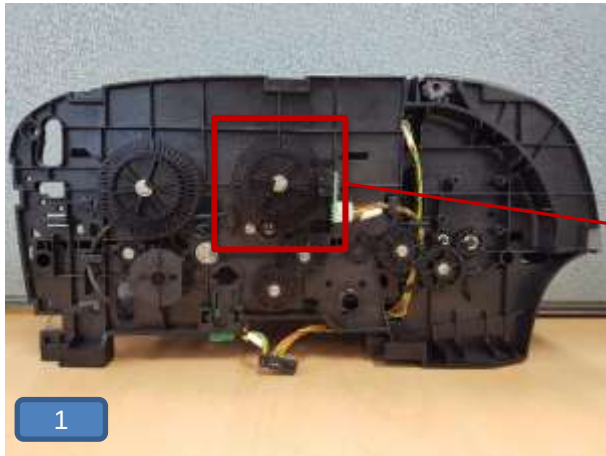
5. Remove a Bush on the opposite side.
6. Locate the round surface of the Cam Shaft to the upper side, and disassemble the end of the shaft by pushing it.
7. Disassemble Cam Shaft by pulling it to the direction of the arrow.



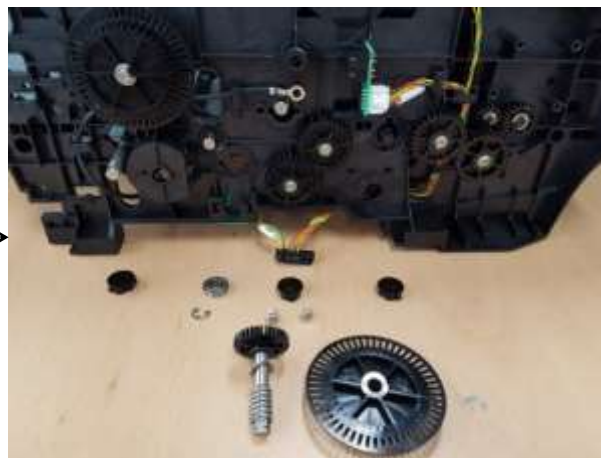
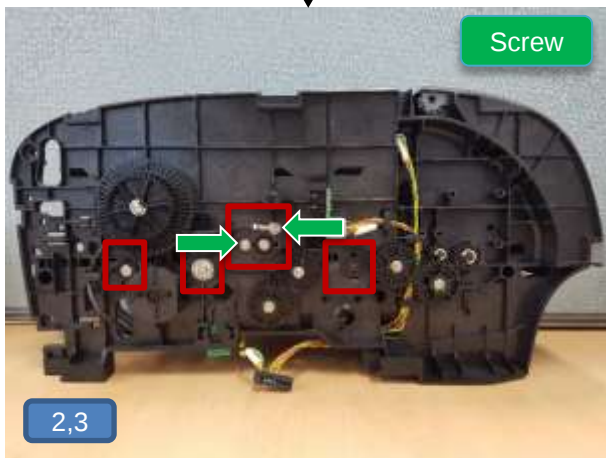
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.6 Rollers / Cam Shaft (3/7)



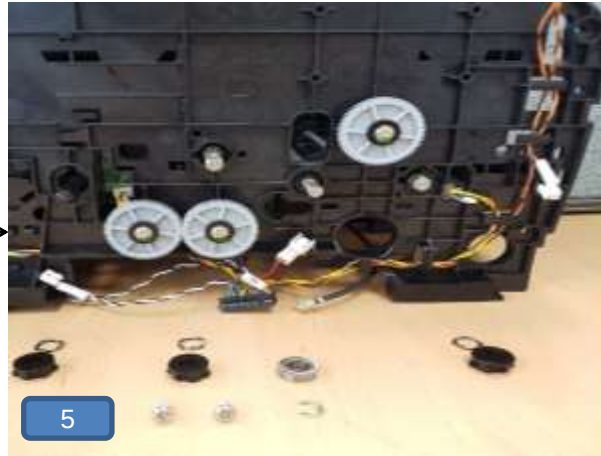
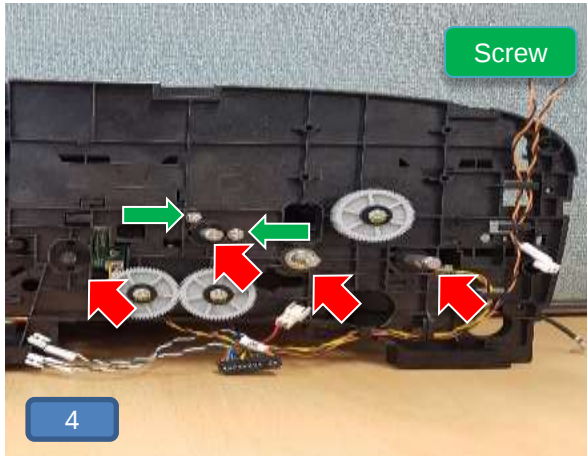
1. Remove an E-ring which fixes a Ribbon Shaft, and disassemble the Ribbon Shaft. Be careful that the Bend Washer and Spring is missing by tension.
2. Remove 2 screws which fixes the Color Search Cover.
3. Remove 1 E-ring, 1 bearing and 3 bushes by a flat screwdriver.



4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.6 Rollers / Cam Shaft (4/7)

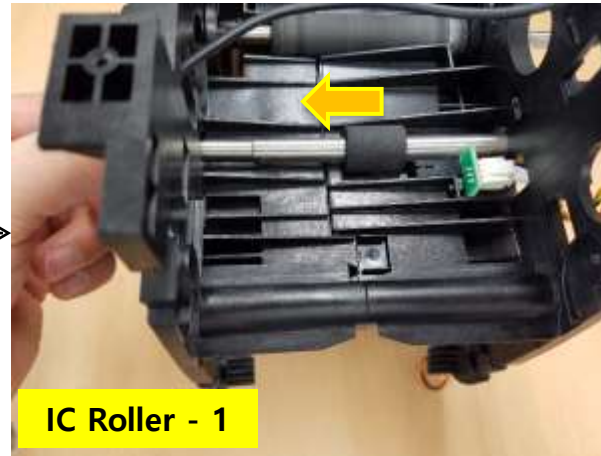
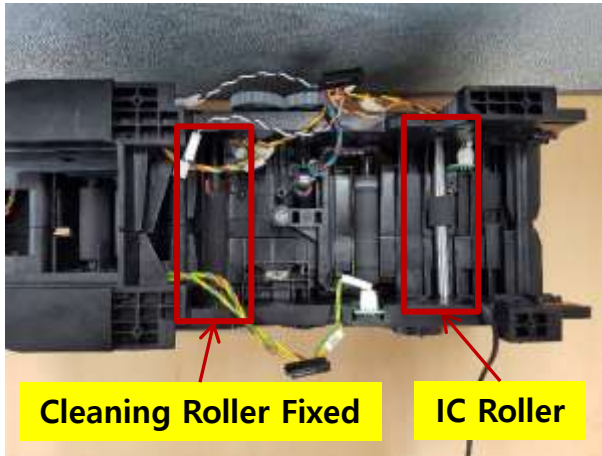


4. Remove 2 screws fixes Color Search Cover on the opposite side of the Main Frame.
5. Remove 1 E-ring, 1 bearing, 3 Bushes, and 3 Bend Washers.

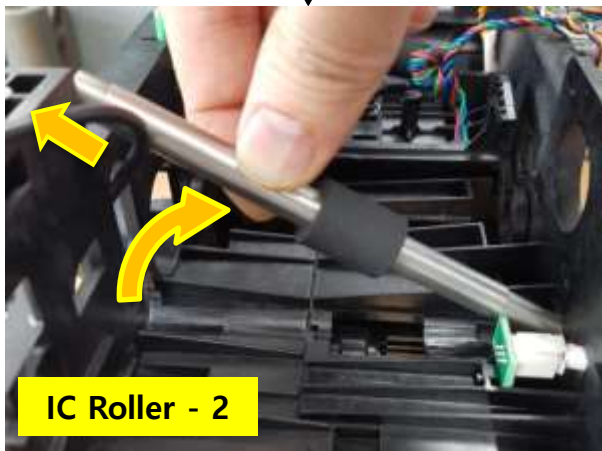
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.6 Rollers / Cam Shaft (5/7)



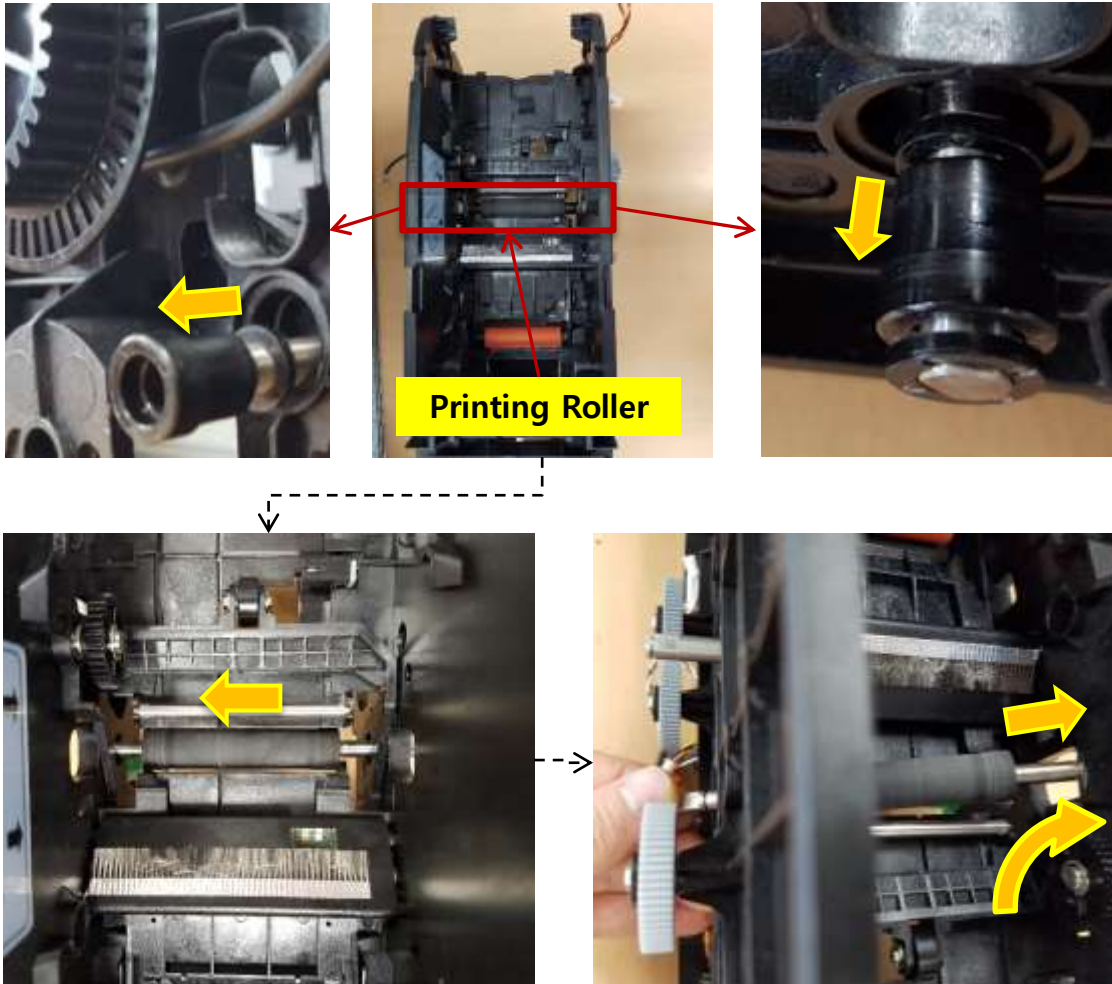
1. Disassemble the rollers through lower side of the Main Frame.
2. Disassemble the rollers and shafts by pushing them in the direction of the arrow and pulling it out.
3. The disassembling way of IC Roller and Cleaning Roller Fixed is the same.



4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.6 Rollers / Cam Shaft (6/7)

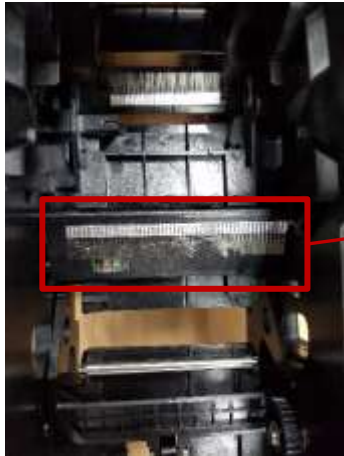


1. Disassemble the printing roller through the upper side of the Main Frame.
2. Disassemble the bracket which fixes the Shaft by pulling it to the direction of the arrow.
3. Disassemble the rollers and shafts by pushing them in the direction of the arrow and pulling it out.

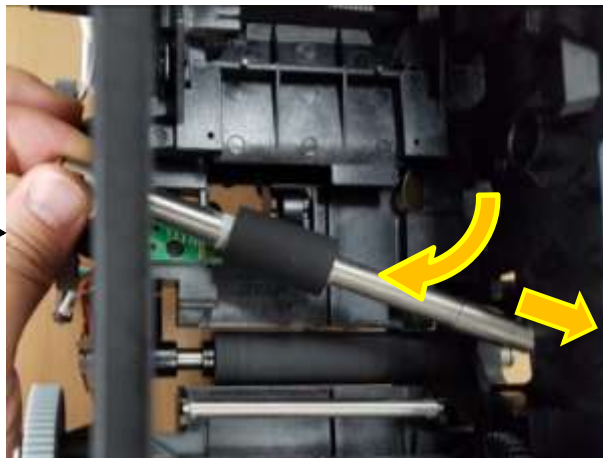
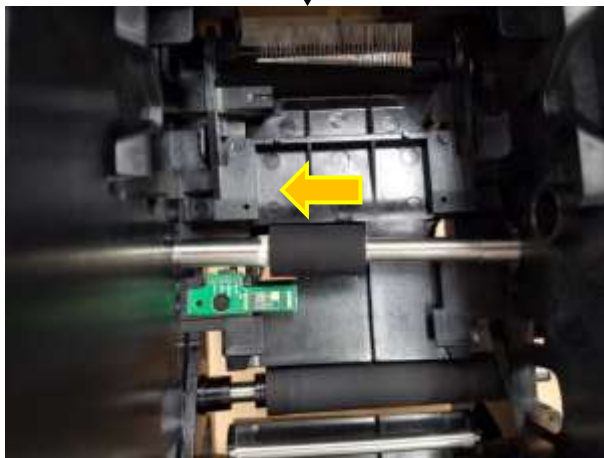
4. Parts Replacement

YOUR BEST ID PRINTER PROVIDER

4.6 Rollers / Cam Shaft (7/7)



1. Broaden the gap of the both main frame and disassemble the Color Search Cover.
2. Pull the Shaft to the direction of the arrow.
3. Lift up the Shaft and disassemble it to the direction of the arrow.



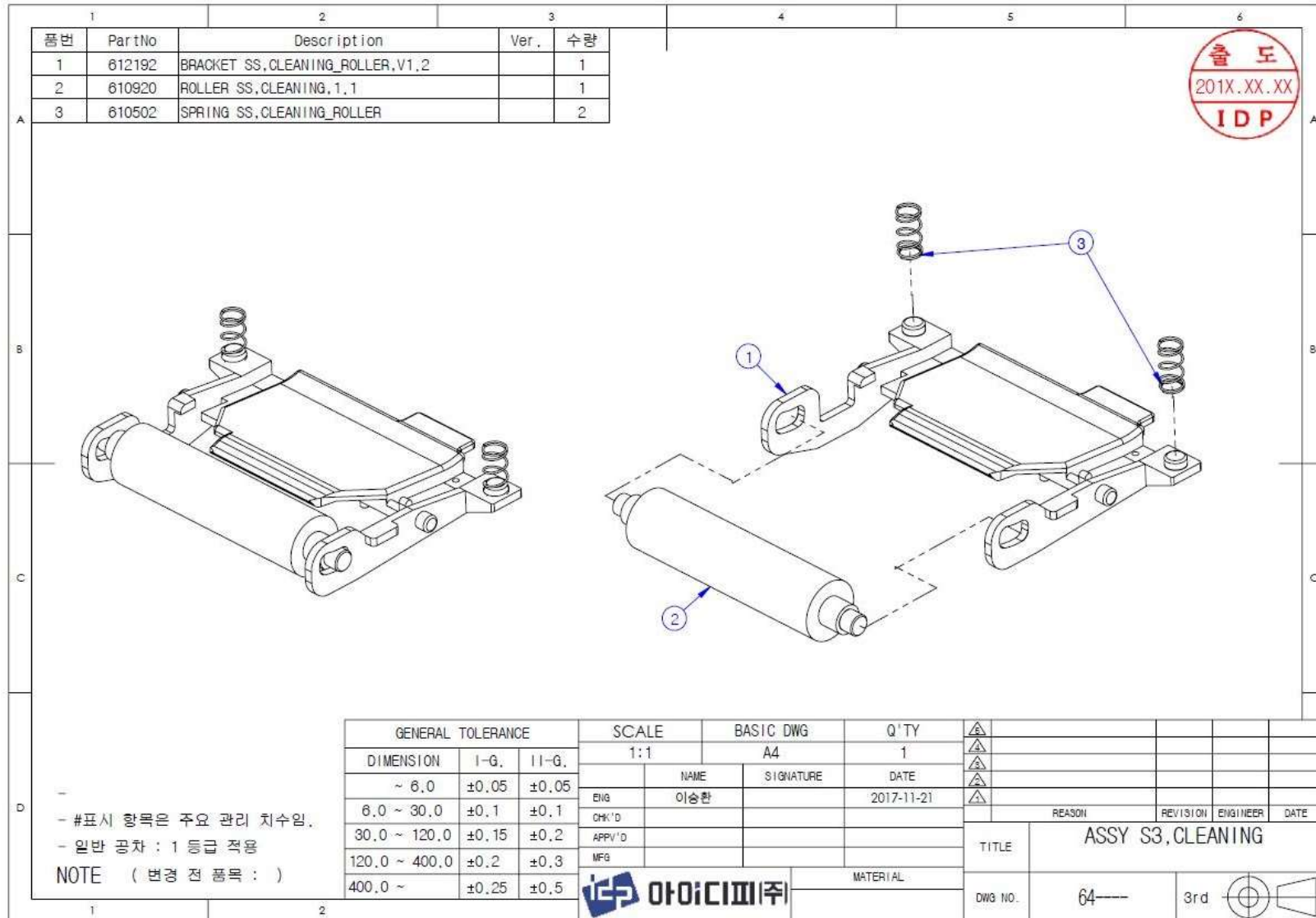
A. PRINTER ASSEMBLY DRAWING



A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.1 ASSY S31,CLEANING



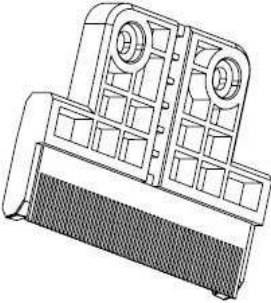
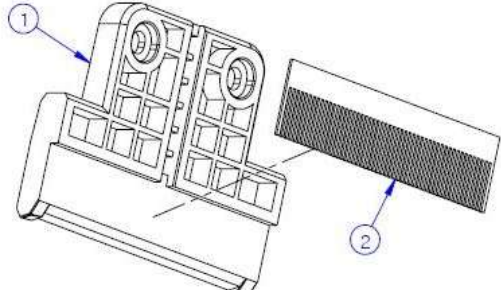
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.2 ASSY S31,HOPPER_GATE

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	611020	BRACKET S3,HOPPER_GATE		1	
2	610150	BRUSH SS,SUS_BRUSH		1	



NOTE (변경 전 품목 :)

- #표시 항목은 주요 관리 치수임.
- 일반 공차 : 1 등급 적용

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:1		A4		1
ENG	NAME	SIGNATURE	DATE	
CHK'D			2017-11-21	
APPV'D				
MFG				



TITLE			
ASSY S3,HOPPER_GATE			
DWG NO.		3rd	

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.3 ASSY S31,COLOR_SEARCH_COVER

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612462	BRACKET S31,COLOR_SEARCH_COVER_ASSY		1	
2	612023	BRUSH S51,SUS_BRUSH_95		1	

출도
201X.XX.XX
IDP

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY				
DIMENSION	I-G.	II-G.	1:1	A4	1				
~ 6.0	±0.05	±0.05							
6.0 ~ 30.0	±0.1	±0.1							
30.0 ~ 120.0	±0.15	±0.2							
120.0 ~ 400.0	±0.2	±0.3							
400.0 ~	±0.25	±0.5							

NAME		SIGNATURE		DATE	
ENG	김한조			2018-02-07	
CHK'D					
APPV'D					
MFG					

TITLE		REASON		REVISION		ENGINEER		DATE	
ASSY S31, COLOR_SEARCH_COVER									
DWG NO.		640679		3rd					

NOTE (변경 전 품목 :)

아이디피씨

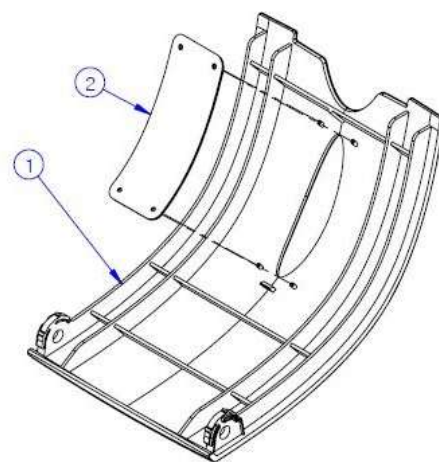
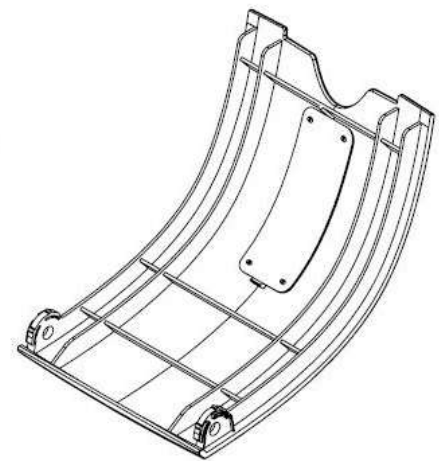
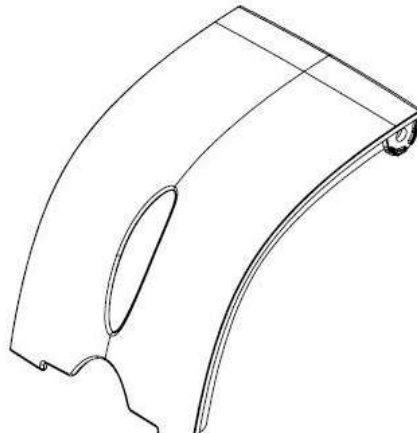
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.4 ASSY S31,FRONT_COVER

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612470	COVER S31,FRONT		1	
2	611038	COVER S3,FRONT_HOLE		1	





GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:2	A4	1
~ 6.0	±0.05	±0.05			
6.0 ~ 30.0	±0.1	±0.1			
30.0 ~ 120.0	±0.15	±0.2			
120.0 ~ 400.0	±0.2	±0.3			
400.0 ~	±0.25	±0.5			

- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

NAME	SIGNATURE	DATE
이승환		2017-10-31

REASON	REVISION	ENGINEER	DATE



TITLE
ASSY S31,FRONT_COVER

DWG NO.
612472

3rd

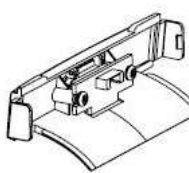
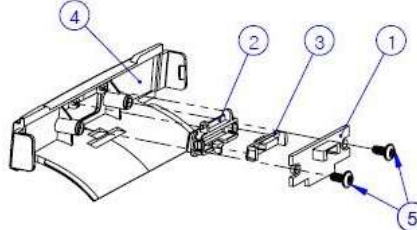
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.5 ASSY S31,FRONT_DISPLAY

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	630099	LED_SW_30 BD,SMART30,0.2		1	
2	612467	BUTTON S31,FRONT_DISPLAY		1	
3	611033	BUTTON S3,LENS		1	
4	612474	COVER S31,FRONT_DISPLAY		1	
5	611097	SCREW S3,M3X6,S_HEAD_P15,3		2	



NOTE (변경 전 품목 :)

- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:2		A4		1
NAME	SIGNATURE		DATE	
ENG	이승환		2017-10-31	
CHK'D				
APPV'D				
MFG				

아미디피제

TITLE			
ASSY S31,FRONT_DISPLAY			
DWG NO.	640680	3rd	

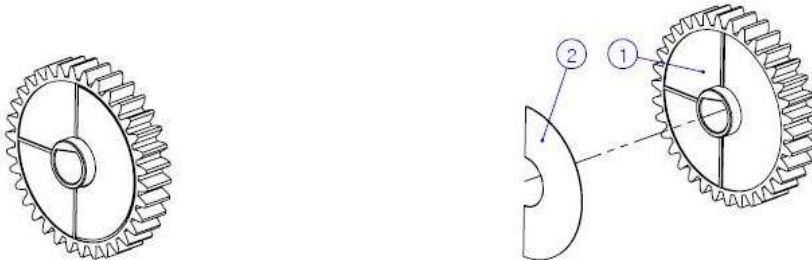
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.6 ASSY S31,GEAR_MIRROR

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612488	GEAR S31,MIRROR		1	
2	610535	LABEL SS,MIRROR		1	





- #표시 항목은 주요 관리 치수임.
 - 일반 공차 : 1 등급 적용
 NOTE (변경 전 품목 :)

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY				
DIMENSION	I-G.	II-G.	1:1	A4	1				
~ 6.0	±0.05	±0.05							
6.0 ~ 30.0	±0.1	±0.1							
30.0 ~ 120.0	±0.15	±0.2							
120.0 ~ 400.0	±0.2	±0.3							
400.0 ~	±0.25	±0.5							

NAME		SIGNATURE		DATE		REASON		REVISION		ENGINEER		DATE	
ENG	이승환			2017-10-31									
CHK'D													
APPV'D													
MFG													



TITLE: ASSY S31,GEAR_MIRROR

DWG NO. 640681 3rd



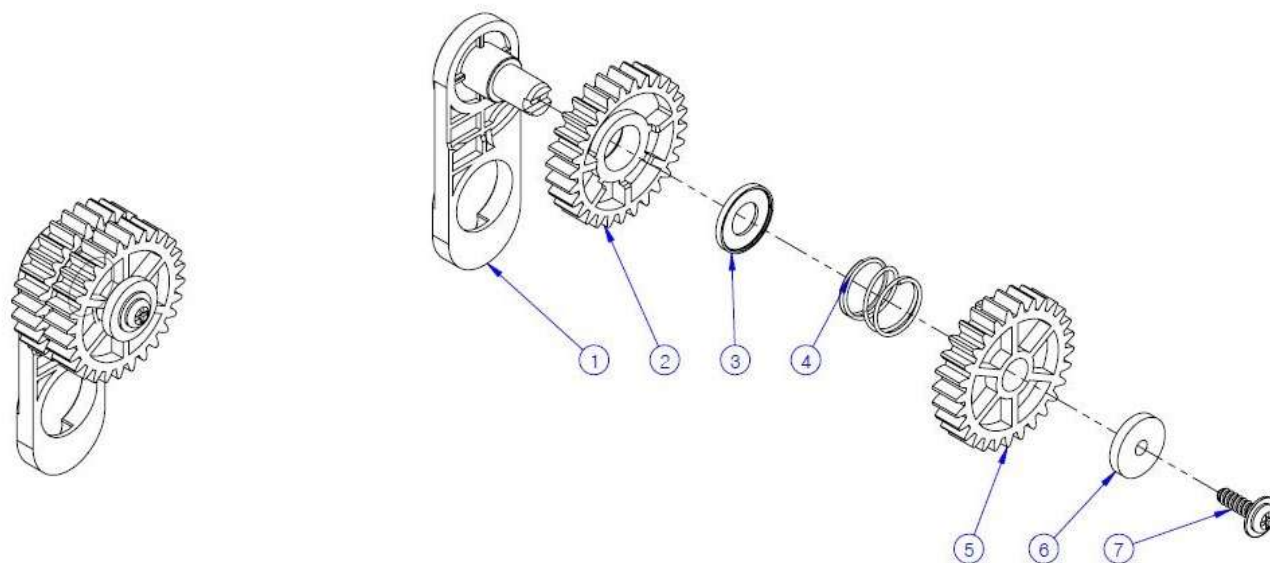
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.7 ASSY S31,HEAD_DOWN_UP_IDLER

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612464	BRACKET S31,HEAD_DOWN_UP_IDLER		1	
2	612487	GEAR S31,HEAD_DOWN_UP_SWING		1	
3	612466	BUSH S31,HEAD_DOWN_UP_SWING		1	
4	612496	SPRING S31,HEAD_DOWN_UP_SWING		1	
5	612485	GEAR S31,HEAD_DOWN_UP_CLUTCH		1	
6	610106	GEAR SS,SET		1	
7	610366	SCREW SS,T2_3X10,PH_2W		1	





GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY				
DIMENSION	I-G.	II-G.	1:1	A4	1				
~ 6.0	±0.05	±0.05							
6.0 ~ 30.0	±0.1	±0.1							
30.0 ~ 120.0	±0.15	±0.2							
120.0 ~ 400.0	±0.2	±0.3							
400.0 ~	±0.25	±0.5							

- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

NAME	SIGNATURE	DATE
ENG 이상환		2017-10-31
CHK'D		
APPV'D		
MFG		

아이디피제우

TITLE		REASON	REVISION	ENGINEER	DATE
ASSY S31, HEAD_DOWN_UP_IDLER					

DWG NO.	3rd	
640682		

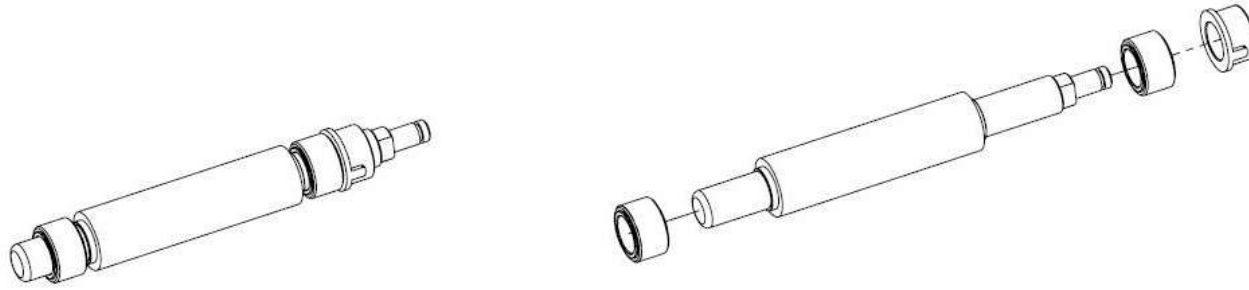
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.8 ASSY S31,HOPPER_CARD_IN_2

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	611065	ROLLER S3,HOPPER_CARD_IN_2		1	
2	611030	BUSH S3,HOPPER_GATE		2	
3	611026	BUSH S3,10_7		1	





- #표시 항목은 주요 관리 치수임.
 - 일반 공차 : 1 등급 적용
NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:1		A4		1
NAME	SIGNATURE	DATE		
ENG 이상환		2018-02-26		
CHK'D				
APPV'D				
MFG				
MATERIAL				

REASON	REVISION	ENGINEER	DATE

TITLE ASSY S31,HOPPER_CARD_IN_2
(사전조립)

DWG NO.

3rd
 



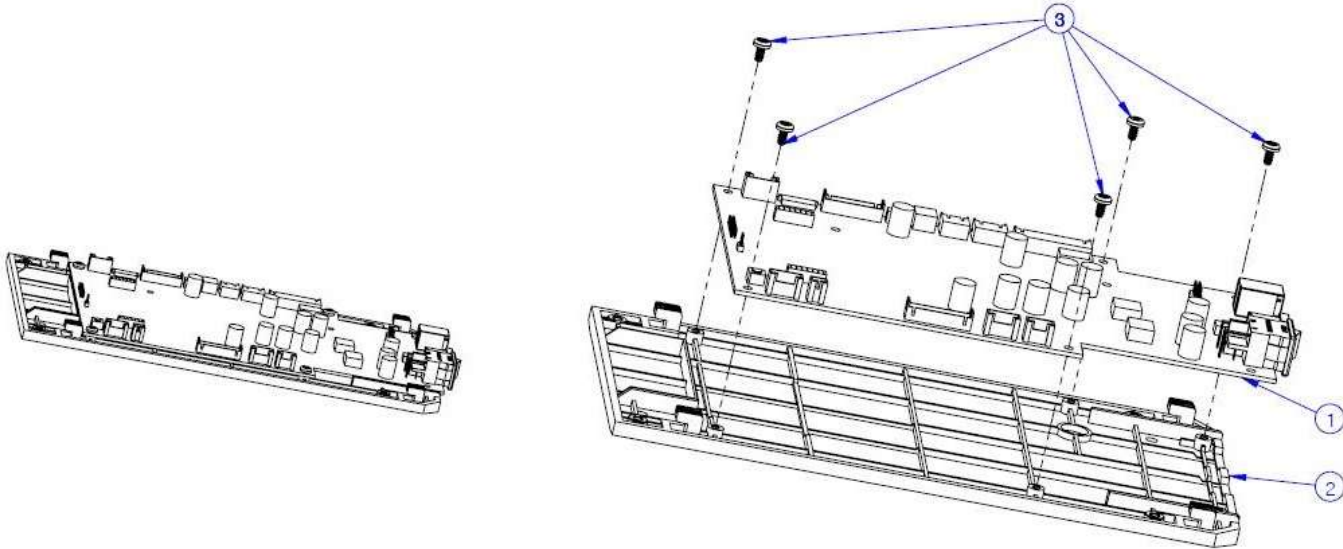
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.9 ASSY S31,BOTTOM

1	2	3	4	5	6
품번	PartNo	Description	Ver.	문해도/수량	
1	630211	MAIN BD,S31 PRT,V0.1		1	
2	611047	FRAME S3,MAIN_BOTTOM		1	
3	610365	SCREW SS,T2_3X6,FH		5	





NOTE (변경 전 품목 :)

- #표시 항목은 주요 관리 치수임.
- 일반 공차 : 1 등급 적용

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:2	A4	1
~ 6.0	±0.05	±0.05			
6.0 ~ 30.0	±0.1	±0.1			
30.0 ~ 120.0	±0.15	±0.2			
120.0 ~ 400.0	±0.2	±0.3			
400.0 ~	±0.25	±0.5			

NAME	SIGNATURE	DATE
ENG 이상환		2017-12-26
CHK'D		
APPV'D		
MFG		

REASON	REVISION	ENGINEER	DATE

TITLE	ASSY S31,MAIN_BOTTOM		
DWG NO.	640683	3rd	

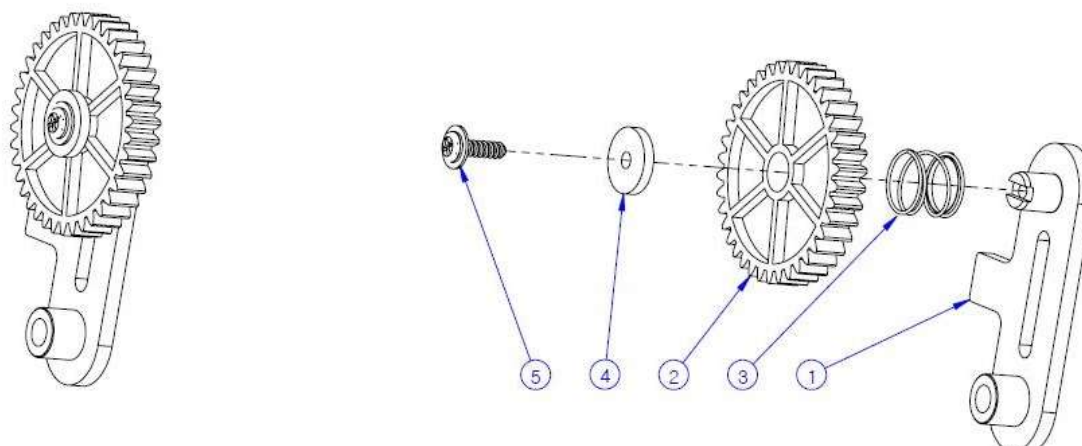
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.10 ASSY S31,RIBBON_IDLER

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612465	BRACKET S31,RIBBON_IDLER		1	
2	610489	GEAR SS,RIBBON_IDLER_B		1	
3	611114	SPRING S3,RIBBON_IDLER		1	
4	610106	GEAR SS,SET		1	
5	610386	SCREW SS,T2_3X10,PH_2W		1	





- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:1	A4	1
~ 6.0	±0.05	±0.05			
6.0 ~ 30.0	±0.1	±0.1			
30.0 ~ 120.0	±0.15	±0.2			
120.0 ~ 400.0	±0.2	±0.3			
400.0 ~	±0.25	±0.5			

NAME	SIGNATURE	DATE
ENG 이상환		2017-10-31
CHK'D		
APPV'D		
MFG		

REASON	REVISION	ENGINEER	DATE

TITLE	ASSY S31,RIBBON_IDLER		
DWG NO.	640684	3rd	

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.11 ASSY S31,RIBBON_SHAFT

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612051	GEAR S51,RIBBON_FEED_T33M07		1	
2	612537	SHAFT SS,RIBBON_FEED	V2.0	1	
3	610955	E_RING SS,PI4_Y		1	





- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY				
DIMENSION	I-G.	II-G.	1:1	A4	1				
~ 6.0	±0.05	±0.05							
6.0 ~ 30.0	±0.1	±0.1							
30.0 ~ 120.0	±0.15	±0.2							
120.0 ~ 400.0	±0.2	±0.3							
400.0 ~	±0.25	±0.5							
			NAME	SIGNATURE	DATE				
			ENG	이승환	2018-02-20				
			CHK'D						
			APPV'D						
			MFG						
						REASON	REVISION	ENGINEER	DATE
						TITLE ASSY S31,RIBBON_SHAFT (사전작업)			
						DWG NO.		3rd	



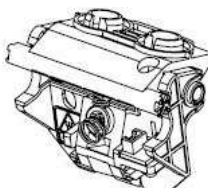
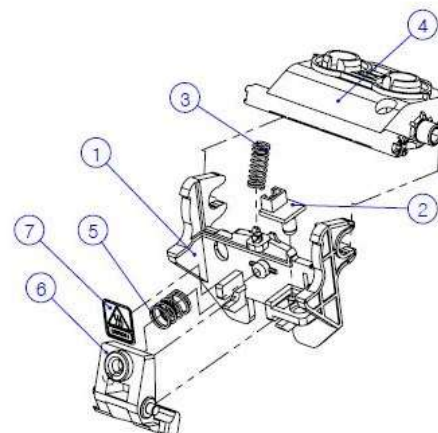
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.12 ASSY S31,TOP_COVER (1/5)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	분해도1/수량	
1	612463	BRACKET S31,HEAD		1	
2	630187	SEN_COLOR_OUT_51 PRT BD,SMART51 PRT,0.1		1	
3	610691	SPRING SS,IC_TENSION,1.1		1	
4	611019	BRACKET S3,HEAD_TENSION_SET		1	
5	610497	SPRING SS,HEAD_HOOK		1	
6	611018	BRACKET S3,HEAD_HOOK		1	
7	611057	LABEL S3,HEAD_CAUTION		1	



- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:2		A4		1
NAME	SIGNATURE		DATE	
ENG	이승환		2017-10-30	
CHK'D				
APPV'D				
MFG				

REASON				REVISION	ENGINEER	DATE
TITLE				ASSY S31,TOP_COVER -1		
DWG NO.				640685		
3rd						



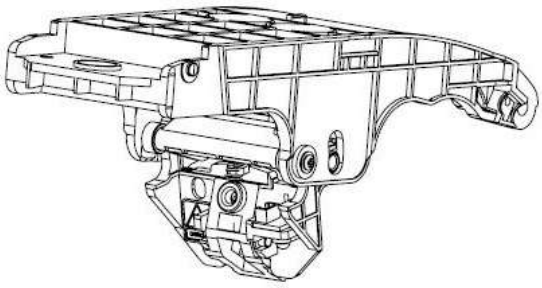
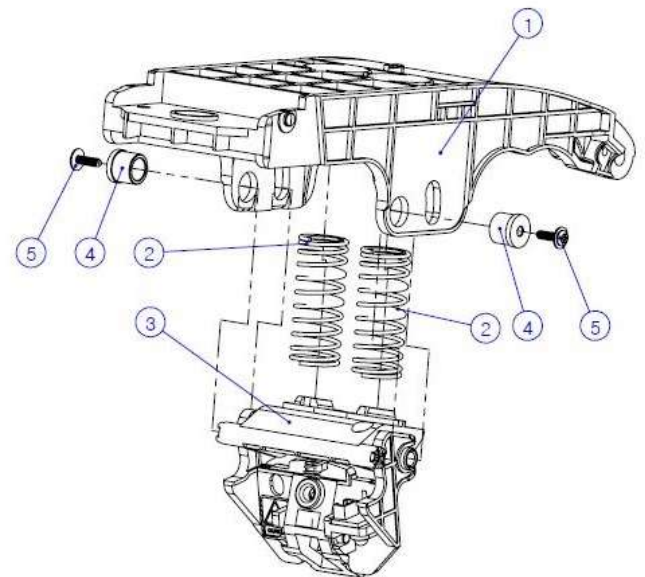
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.12 ASSY S31,TOP_COVER (2/5)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	분해도2/수량	
1	611879	BRACKET S3,TOP_COVER,V1.0		1	
2	612494	SPRING S31,HEAD		2	
3	611019	BRACKET S3,HEAD_TENSION_SET		1	
4	611031	BUSH S3,TOP_SET		2	
5	610366	SCREW SS,T2_3X10,PH_2W		2	



NOTE (변경 전 품목 :)

- #표시 항목은 주요 관리 치수임.
- 일반 공차 : 1 등급 적용

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:2		A4		1
NAME	SIGNATURE		DATE	
ENG 이상환			2017-10-30	
CHK'D				
APPV'D				
MFG				

REASON				REVISION	ENGINEER	DATE
TITLE				ASSY S31,TOP_COVER -2		
DWG NO.		640685		3rd		



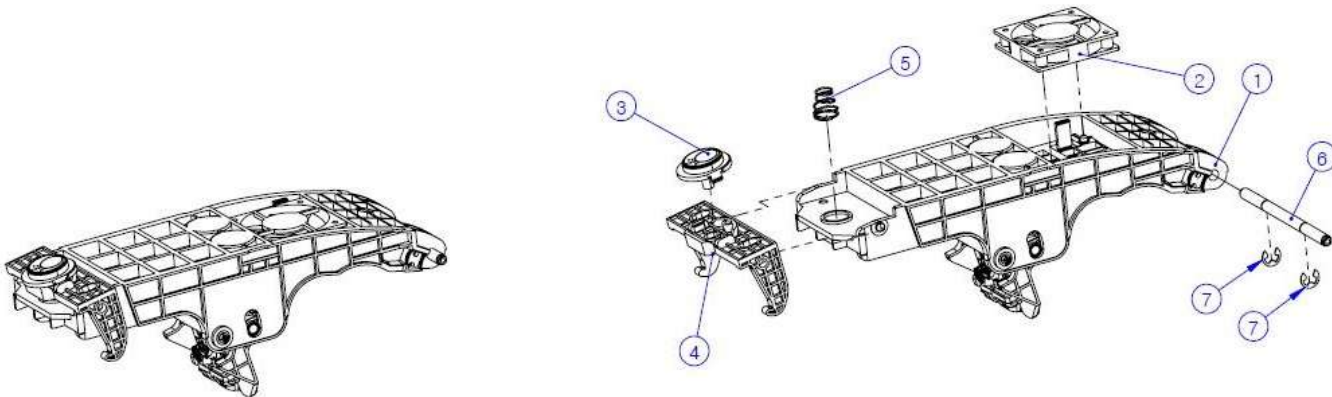
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.12 ASSY S31,TOP_COVER (3/5)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	분해도3/수량	
1	611879	BRACKET S3,TOP_COVER,V1.0		1	
2	610344	FAN,AD0524HB-G70(T)/LF		1	
3	612468	BUTTON S31,TOP		1	
4	611024	BRACKET S3,TOP_COVER_LOCK		1	
5	610498	SPRING SS,TOP_COVER_BUTTON		1	
6	611071	SHAFT S3,TOP_COVER_SET		1	
7	610956	E_RING SS,P15_Y		2	





- #표시 항목은 주요 관리 치수임.
 - 일반 공차 : 1 등급 적용
 NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:3		A4		1
ENG	NAME	SIGNATURE	DATE	
CHK'D	이승환		2017-10-30	
APPV'D				
MFG				

TITLE			
REASON	REVISION	ENGINEER	DATE
ASSY S31,TOP_COVER -3			



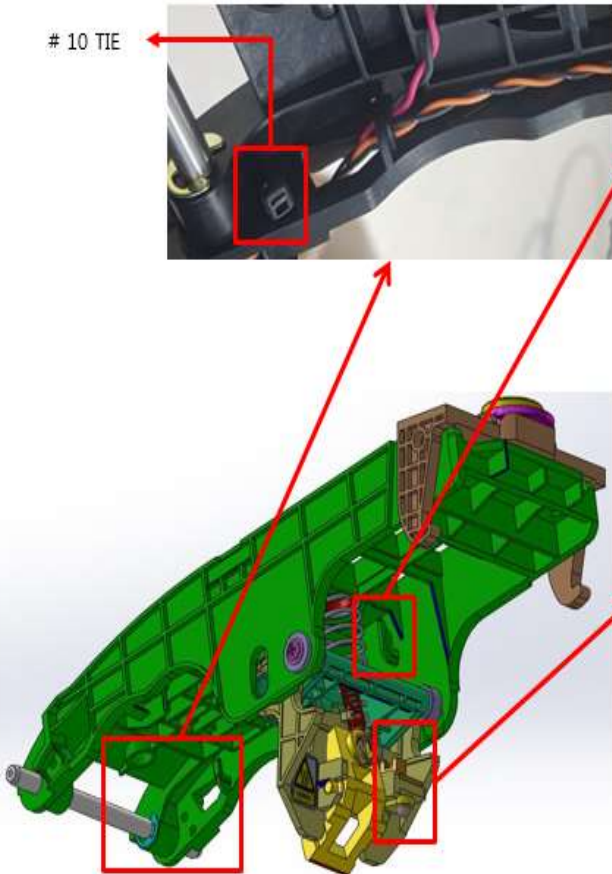
MATERIAL

TITLE: ASSY S31,TOP_COVER -3
 DWG NO.: 640685
 3rd

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.12 ASSY S31,TOP_COVER (4/5)

작업명	[640685] ASSY S31,TOP_COVER - 3STEP (하네스-1)	적용모델	SMART-31S	작성자	이 승 환		
작업 방법				작성일자	2018. 03. 21		
# 10 TIE    				사용 부품			
				No	Code	Description	수량
				1	612512	WIRE,I/O_R_31 PRT2,18P4...	1
				2	610434	TIE SS,CABLE_TIE_100X2.5	1
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				사용 공구 / 측정 장비			
No	품명	규격					
1							
2							
3							
4							
5							

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

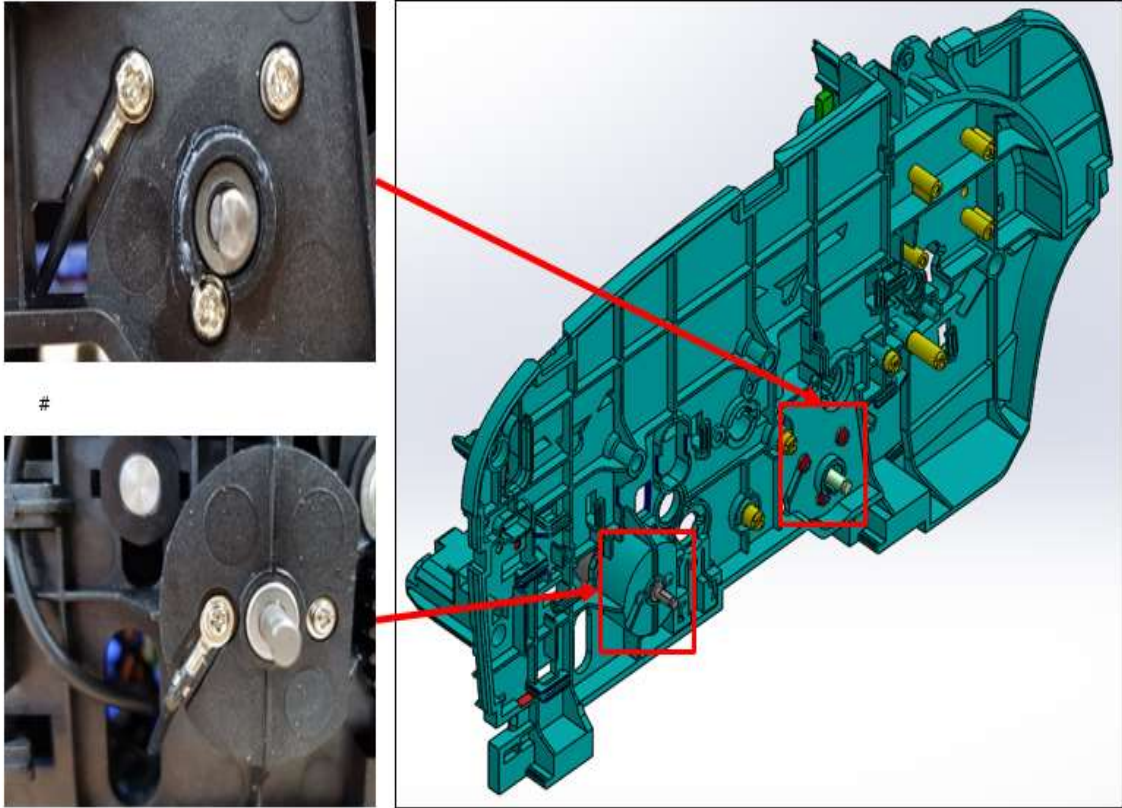
A.12 ASSY S31,TOP_COVER (5/5)

작업명	[640685] ASSY S31,TOP_COVER - 3STEP (하네스-2)	적용모델	SMART-31S	작성자	이 승 환		
작업 방법				작성일자	2018. 02. 13		
 하네스 위치 확인 # 10 TIE				사용 부품			
				No	Code	Description	수량
				1	610132	WIRE Thermal Head,26P,3...	1
				2	610434	TIE SS,CABLE_TIE_100X2.5	2
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				사용 공구 / 측정 장비			
				No	품명	규격	
				1			
2							
3							
4							
5							

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.13 ASSY S31,LEFT (1/3)

작업명	[--] ASSY S31,LEFT - 1STEP (하네스)	적용모델	SMART-31S	작성자	이 승 환
작업 방법				작성일자	2018. 03. 21
				사용 부품	
				No	Code Description 수량
				1	612483 FRAME S31,MAIN_BODY_L 1
				2	611059 PLATE S3,CARD_PUSH 1
				3	610362 SCREW SS,T2_2X5,PH 2
				4	630031 HEAD U/D MOTOR BD...0.4 1
				5	310357 SCREW SS,M3X8,SAM 3
				6	630058 RIBBON MOTOR BD,S...0.4 1
				7	610359 SCREW SS,M2X5,SAM 2
				8	610461 PULLEY SS,RIBBON_MOT,... 1
				9	610954 E_RING SS,PI3_Y 1
				10	630107 SEN_CASE_30 BD,SMART...2 1
				11	630019 SENSOR DETECTOR B...0.4 1
				12	610531 LABEL SS,RIBBON_CARTRI... 1
				13	612514 WIRE,EARTH_MOT_31 PRT,... 1
				14	
				15	
				사용 공구 / 측정 장비	
				No	품명 규격
				1	
				2	
				3	
				4	
				5	

1. 그림과 같이 조립한다.

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.13 ASSY S31,LEFT (2/3)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612483	FRAME S31,MAIN_BODY_L		1	
2	611059	PLATE S3,CARD_PUSH		1	
3	610362	SCREW SS,T2_2X5,PH		2	
4	630031	HEAD U/D MOTOR BD,SMART,0,4		1	
5	610357	SCREW SS,M3X8,SAM		3	
6	630058	RIBBON MOTOR BD,SMART,0,4		1	
7	610359	SCREW SS,M2X5,SAM		2	
8	610481	PULLEY SS,RIBBON_MOT_BELT		1	
9	610954	E_RING SS,PI3_Y		1	
10	630107	SEN_CASE_30 BD,SMART30,0,2		1	
11	630019	SENSOR DETECTOR BD,SMART,0,4		1	
12	610531	LABEL SS,RIBBON_CARTRIDGE		1	

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:5	A4	1
~ 6.0	±0.05	±0.05			
6.0 ~ 30.0	±0.1	±0.1			
30.0 ~ 120.0	±0.15	±0.2			
120.0 ~ 400.0	±0.2	±0.3			
400.0 ~	±0.25	±0.5			

ENG	NAME	SIGNATURE	DATE
CHK'D			2017-12-28
APP'D			
MFG			

TITLE		REASON	REVISION	ENGINEER	DATE
ASSY S31,LEFT-1					

DWG NO.	3rd
64---	

NOTE (변경 전 품목 :)

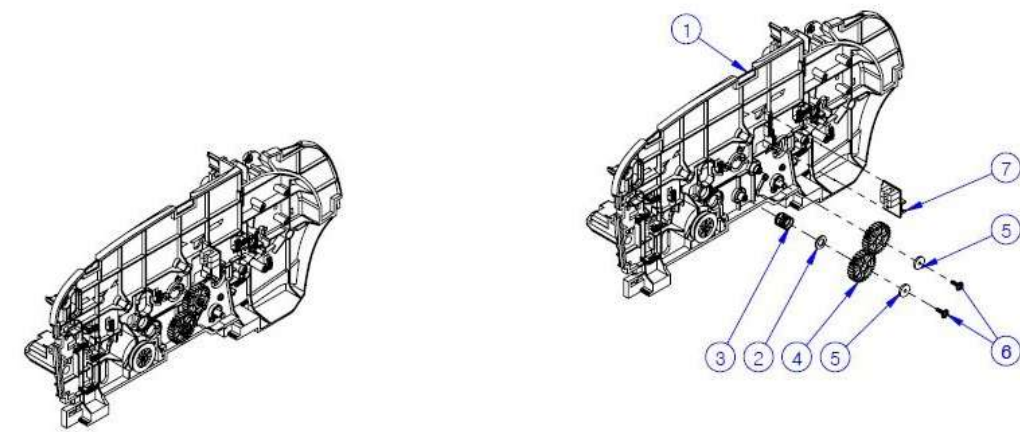
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.13 ASSY S31,LEFT (3/3)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	64---	ASSY S31,LEFT-1		1	
2	611028	BUSH S3,HEAD_DOWN_UP_GEAR		1	
3	612495	SPRING S31,HEAD_DOWN_UP_IDLER		1	
4	611050	GEAR S3,HEAD_DOWN_UP_IDLER		2	
5	610106	GEAR SS,SET		2	
6	610366	SCREW SS,T2_3X10,PH_2W		2	
7	630033	SENSOR ENCODER2 BD,SMART,0,1		1	





#표시 항목은 주요 관리 치수임.

일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:5		A4		1
NAME	SIGNATURE	DATE		
ENG		2017-12-28		
CHK'D				
APPV'D				
MFG				

REASON	REVISION	ENGINEER	DATE

TITLE

ASSY S31,LEFT-2

MATERIAL

DWG NO.

64---

3rd



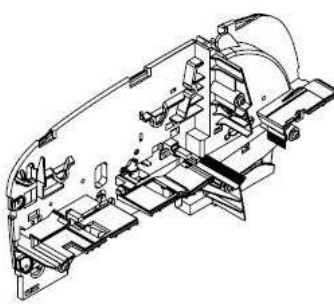
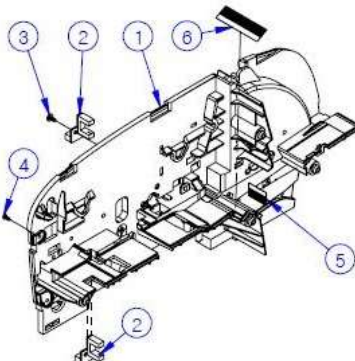
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.14 ASSY S31,RIGHT (1/2)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612510	FRAME S31,MAIN_BODY_R	V1.0	1	
2	630101	SEN_POS_30 BD,SMART30,0,2		2	
3	610365	SCREW SS,T2_3X6,FH		1	
4	611110	SCREW S3,T2_2,6X6,PH		1	
5	610740	BRUSH S0,SUS_BRUSH_2SLOT		1	
6	610150	BRUSH SS,SUS_BRUSH		1	



#표시 항목은 주요 관리 치수임.
- 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:5		A4		1
ENG	NAME	SIGNATURE	DATE	2017-12-28
CHK'D				
APPV'D				
MFG				

REASON				REVISION	ENGINEER	DATE
TITLE				ASSY S31,RIGHT-1		
DWG NO.		64---		3rd		



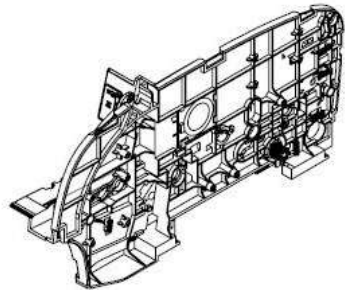
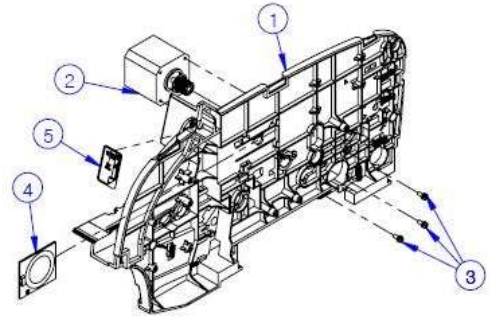
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.14 ASSY S31,RIGHT (2/2)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	64---	ASSY S31,RIGHT-1		1	
2	640264	ASSY S3,STEP_MOTOR		1	
3	610357	SCREW SS,M3X8,SAM		3	
4	612258	RF_ANT BD,SMART51 PRT,0,1		1	
5	611058	LABEL S3,MAG,IC_CARD_INSERTION		1	



- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:5		A4		1
NAME	SIGNATURE	DATE		
ENG		2018-01-05		
CHK'D				
APPV'D				
MFG				

REASON	REVISION	ENGINEER	DATE

TITLE

ASSY S31,RIGHT-2

DWG NO.

64---

3rd

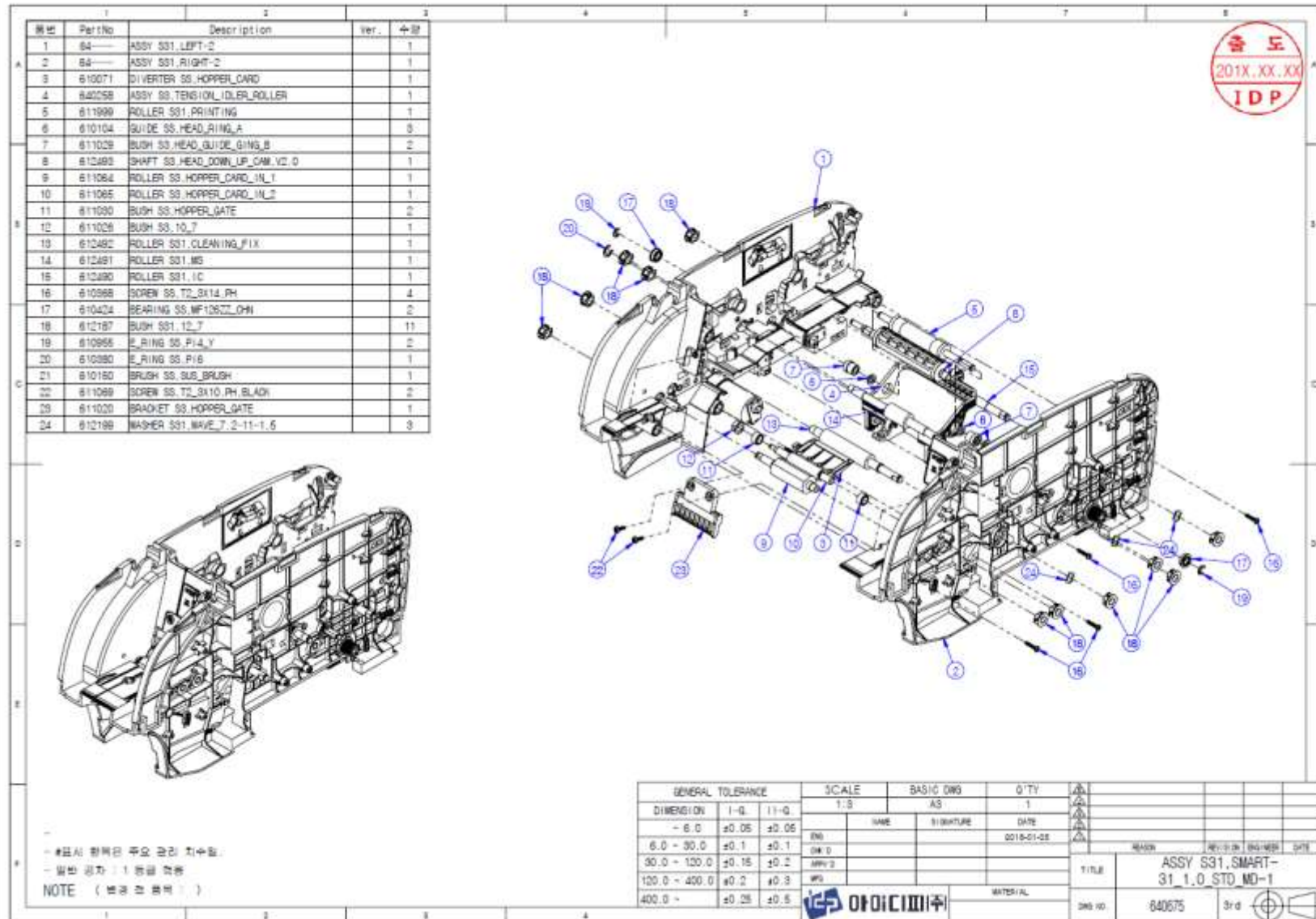




A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (1/13)



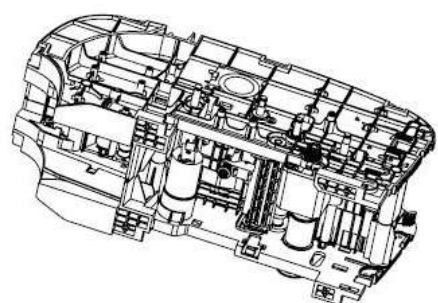
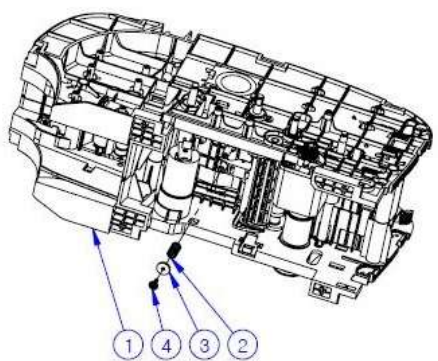
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (2/13)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	640675	ASSY S31,SMART-31_1.0_STD_MD-1		1	
2	611172	SPRING S3,TENSION_IDLER,1,1		1	
3	610106	GEAR SS,SET		1	
4	610366	SCREW SS,T2_3X10,PH_2W		1	



NOTE (변경 전 품목 :)

- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

GENERAL TOLERANCE	
DIMENSION	I-G, II-G.
~ 6.0	±0.05 ±0.05
6.0 ~ 30.0	±0.1 ±0.1
30.0 ~ 120.0	±0.15 ±0.2
120.0 ~ 400.0	±0.2 ±0.3
400.0 ~	±0.25 ±0.5

SCALE	BASIC DWG	Q'TY
1:5	A4	1
NAME	SIGNATURE	DATE
ENG		2018-01-05
CHK'D		
APPV'D		
MFG		

REASON	REVISION	ENGINEER	DATE

아이디피주

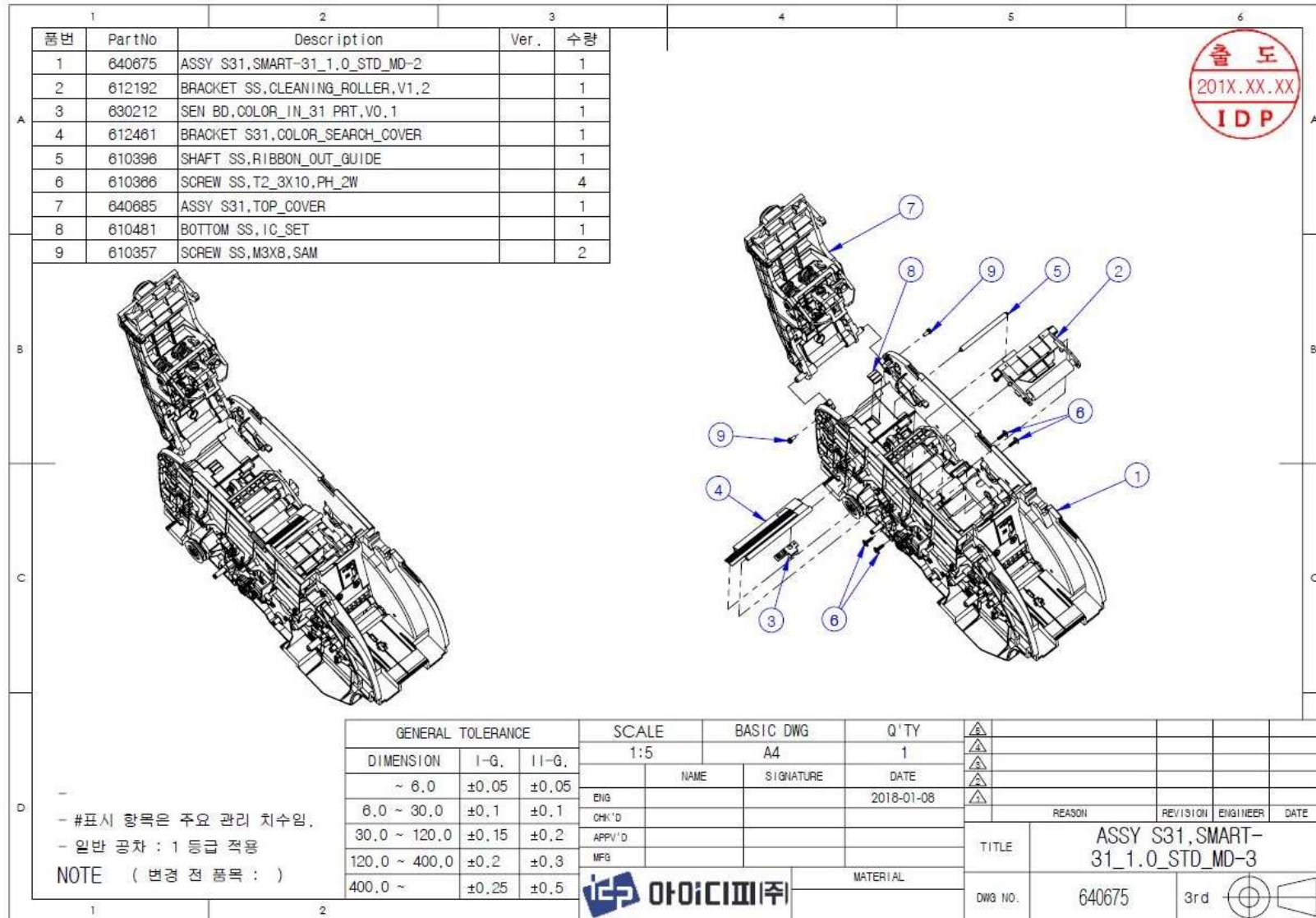
TITLE ASSY S31,SMART-31_1.0_STD_MD-2

DWG NO. 640675 3rd

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (3/13)



A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (4/13)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	640675	ASSY S31,SMART-31_1.0_STD_MD-3		1	
2	610509	SPRING SS,RIBBON_FEED_TAKE_UP		1	
3	610510	SPRING SS,RIBBON_FEED_SUPPLY		1	
4	610418	WASHER SS,BEND_P16,0X0.1T_SUS		4	
5	사전작업	ASSY S31,RIBBON_SHAFT		2	
6	610472	GEAR SS,M139T_ENCODER		2	
7	610955	E_RING SS,P14_Y		4	
8	640681	ASSY S31,GEAR_MIRROR		1	
9	610956	E_RING SS,P15_Y		1	
10	610106	GEAR SS,SET		2	
11	640684	ASSY S31,RIBBON_IDLER		1	
12	611733	PULLEY S3,RIBBON_IDLER_BELT_V1,1		1	
13	610913	BELT SS,P139,7X3,5_SILICONE		1	
14	612507	SPRING SS,HOPPER_CARD_DIVIDE	V1.0	1	
15	610066	GEAR SS,HOPPER_GATE_ROLLER_SET		1	
16	610464	GEAR SS,HOPPER_ROLLER_2		1	
17	610954	E_RING SS,P13_Y		2	
18	610463	GEAR SS,HOPPER_ROLLER_1		1	
19	610465	GEAR SS,HOPPER_ROLLER_CONNECT		1	
20	611052	GEAR S3,HOPPER_IDLER		1	
21	610366	SCREW SS,T2_3X10,PH_2W		2	
22	640682	ASSY S31,HEAD_DOWN_UP_IDLER		1	
23	612486	GEAR S31,HEAD_DOWN_UP_MOT		1	
24	611050	GEAR S3,HEAD_DOWN_UP_IDLER		1	

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:5	A4	1
~ 6.0	±0.05	±0.05			
6.0 ~ 30.0	±0.1	±0.1			
30.0 ~ 120.0	±0.15	±0.2			
120.0 ~ 400.0	±0.2	±0.3			
400.0 ~	±0.25	±0.5			

NAME	SIGNATURE	DATE
ENG		2018-01-08
CHK'D		
APPV'D		
MFG		

REASON	REVISION	ENGINEER	DATE

TITLE	DWG NO.	3rd
ASSY S31,SMART-31_1.0_STD_MD-4	640675	

NOTE (변경 전 품목 :)

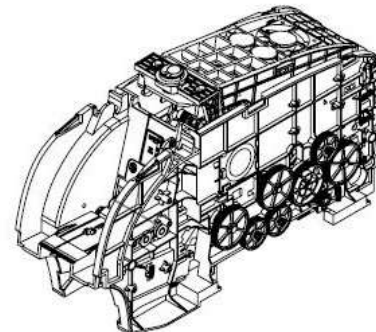
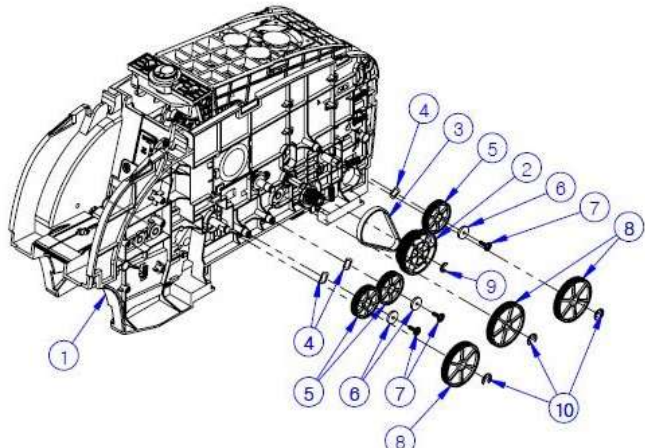
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (5/13)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	640675	ASSY S31,SMART-31_1.0_STD_MD-4		1	
2	611053	GEAR S3,MAIN_PULLEY		1	
3	611010	BELT S3,50S2M160		1	
4	612199	WASHER S31,WAVE_7.2-11-1,5		3	
5	611116	GEAR S3,FEEDING_IDLER,1.0		3	
6	610108	GEAR SS,SET		3	
7	610366	SCREW SS,T2_3X10,PH_2W		3	
8	611117	GEAR S3,FEEDING,1.0		3	
9	610955	E_RING SS,PI4_Y		1	
10	610956	E_RING SS,PI5_Y		3	



NOTE (변경 전 품목 :)

- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

GENERAL TOLERANCE	
DIMENSION	I-G, II-G.
~ 6.0	±0.05 ±0.05
6.0 ~ 30.0	±0.1 ±0.1
30.0 ~ 120.0	±0.15 ±0.2
120.0 ~ 400.0	±0.2 ±0.3
400.0 ~	±0.25 ±0.5

SCALE	BASIC DWG	Q'TY
1:5	A4	1
NAME	SIGNATURE	DATE
ENG		2018-01-08
CHK'D		
APPV'D		
MFG		

REASON	REVISION	ENGINEER	DATE

아이에디피주

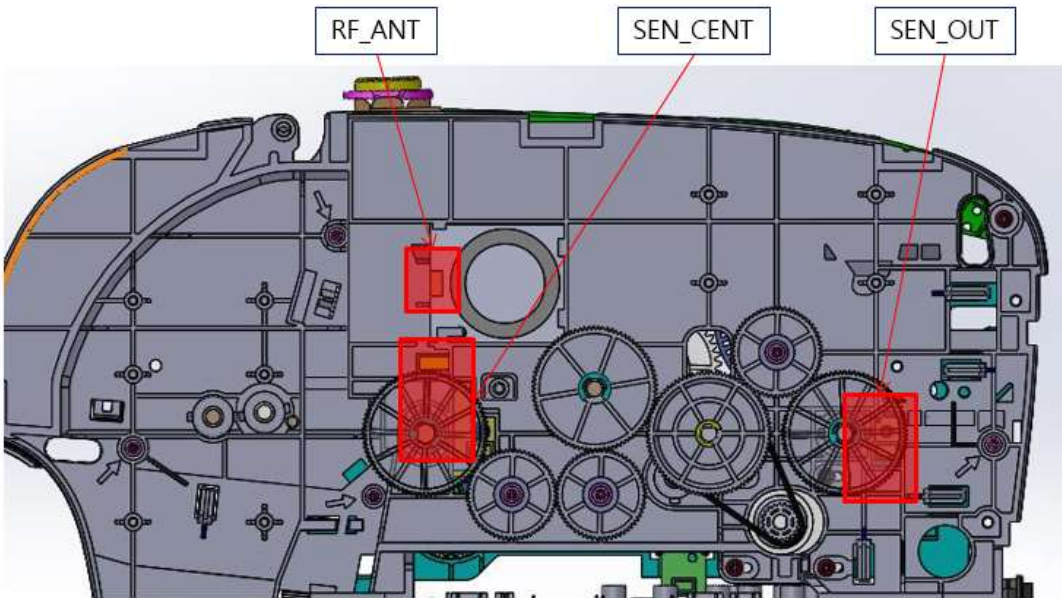
TITLE ASSY S31,SMART-31_1.0_STD_MD-5

DWG NO. 640675 3rd

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (6/13)

작업명	[640675] ASSY S31,SMART-31_1.0_STD_MD - 5STEP (하네스-1)	적용모델	SMART-31S	작성자	이 승 환				
작업 방법				작성일자	2018. 02. 13				
				사용 부품					
				No	Code	Description	수량		
				1	612121	WIRE,RF_ANT_51 PRT,3P,1...	1		
				2	611076	WIRE,I/O_30 LEFT,20P,23...	1		
				3					
				4					
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
								사용 공구 / 측정 장비	
								No	품명
								1	
2									
3									
4									
5									

1. 그림과 같이 조립한다.

1. 그림과 같이 조립한다.

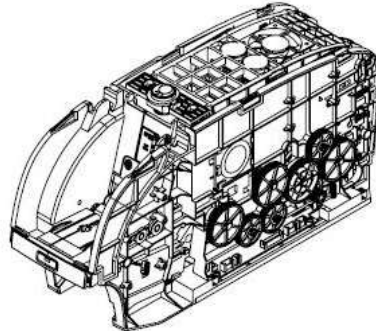
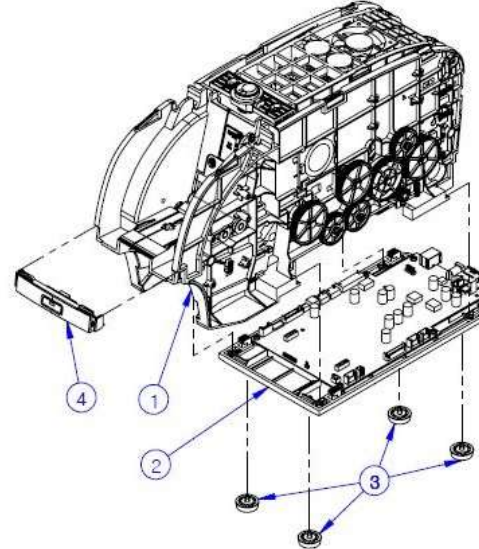
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (7/13)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	640675	ASSY S31,SMART-31_1.0_STD_MD-5		1	
2	640683	ASSY S31,MAIN_BOTTOM		1	
3	610490	ASSY SS,FOOT_RUBBER_LA0621		4	
4	640680	ASSY S31,FRONT_DISPLAY		1	



#표시 항목은 주요 관리 치수임.

일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:5		A4		1
ENG	NAME	SIGNATURE	DATE	2018-01-08
CHK'D				
APPV'D				
MFG				



TITLE			
ASSY S31,SMART-31_1.0_STD_MD-6			

DWG NO.		3rd
640675		

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (8/13)

작업명	[640675] ASSY S31,SMART-31_1.0_STD_MD - 6STEP (하네스-1)	적용모델	SMART-31S	작성자	이 승 환		
작업 방법				작성일자	2018. 02. 13		
				사용 부품			
				No	Code	Description	수량
				1			
				2			
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
사용 공구 / 측정 장비				No	품명	규격	
				1			
				2			
				3			
				4			
				5			
				6			

1. 그림과 같이 조립한다.

1. 그림과 같이 조립한다.

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (9/13)

작업명	[640675] ASSY S31,SMART-31_1.0_STD_MD - 6STEP (하네스-1)	적용모델	SMART-31S	작성자	이 승 환		
작업 방법				작성일자	2018. 04. 30		
				사용 부품			
				No	Code	Description	수량
				1	611958	FERRITE CORE,ZCAT2035-...	1
				2			
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				사용 공구 / 측정 장비			
No	품명		규격				
1							
2							
3							
4							
5							

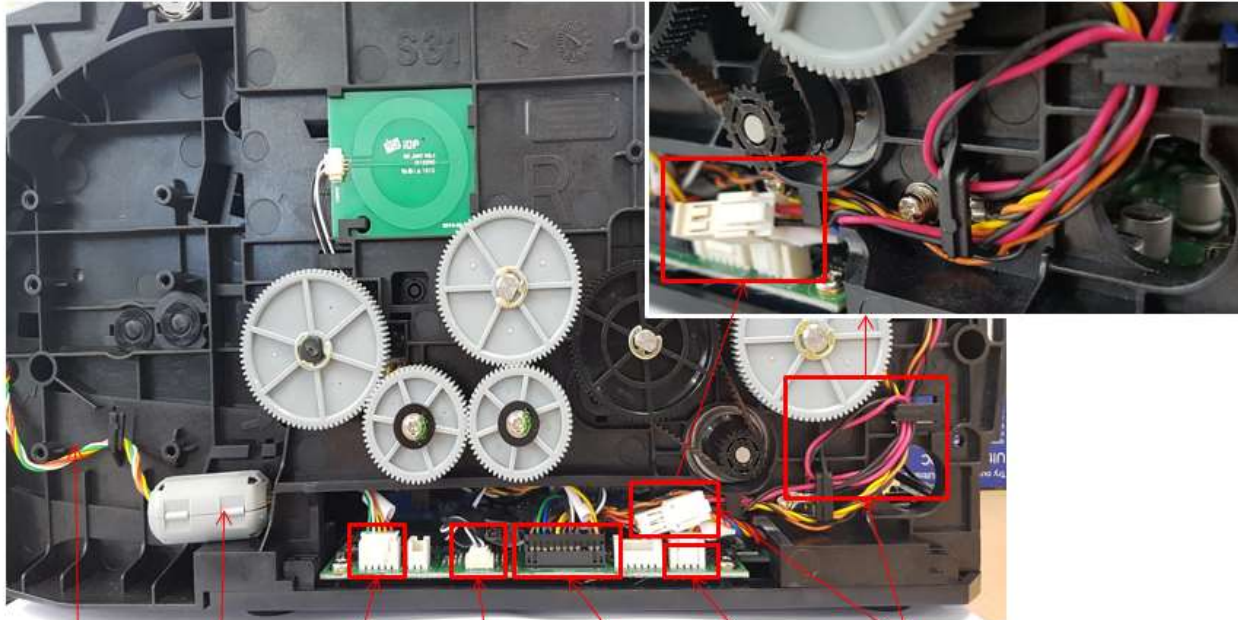
1. 그림과 같이 조립한다.

1. 그림과 같이 조립한다.

A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (10/13)

작업명	[640675] ASSY S31,SMART-31_1.0_STD_MD - 6STEP (하네스-2)	적용모델	SMART-31S	작성자	이 승 환				
작업 방법				작성일자	2018. 07. 23				
				사용 부품					
				No	Code	Description	수량		
				1	611077	WIRE,LED_30 SW,5P,220mm	1		
				2	611958	FERRITE CORE,ZCAT2035-...	1		
				3					
				4					
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
								사용 공구 / 측정 장비	
				No	품명		규격		
1									
2									
3									
4									
5									

#611077

#611958

CON33

RF_ANT

CON12

MOTOR

FAN_CABLE

1. 그림과 같이 조립한다.

#611077

#611958

CON33

RF_ANT

CON12

MOTOR

FAN_CABLE

1. 그림과 같이 조립한다.

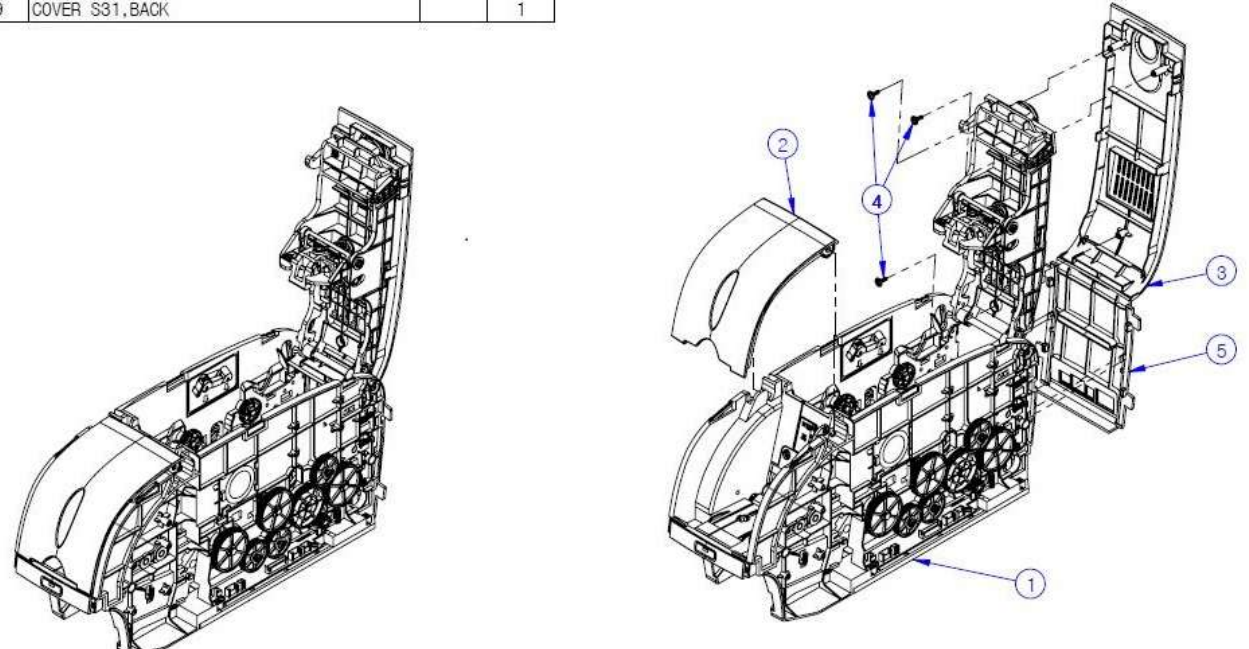
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (11/13)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	640675	ASSY S31,SMART-31_1.0_STD_MD-6		1	
2	612472	ASSY S31,FRONT_COVER		1	
3	612480	COVER S31,TOP		1	
4	610366	SCREW SS,T2_3X10,PH_2W		3	
5	612469	COVER S31,BACK		1	





#표시 항목은 주요 관리 치수임.
- 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:5		A4		1
ENG	NAME	SIGNATURE	DATE	
CHK'D			2018-01-09	
APPV'D				
MFG				
MATERIAL				

TITLE

ASSY S31,SMART-31_1.0_STD_MD-7

DWG NO.

640675

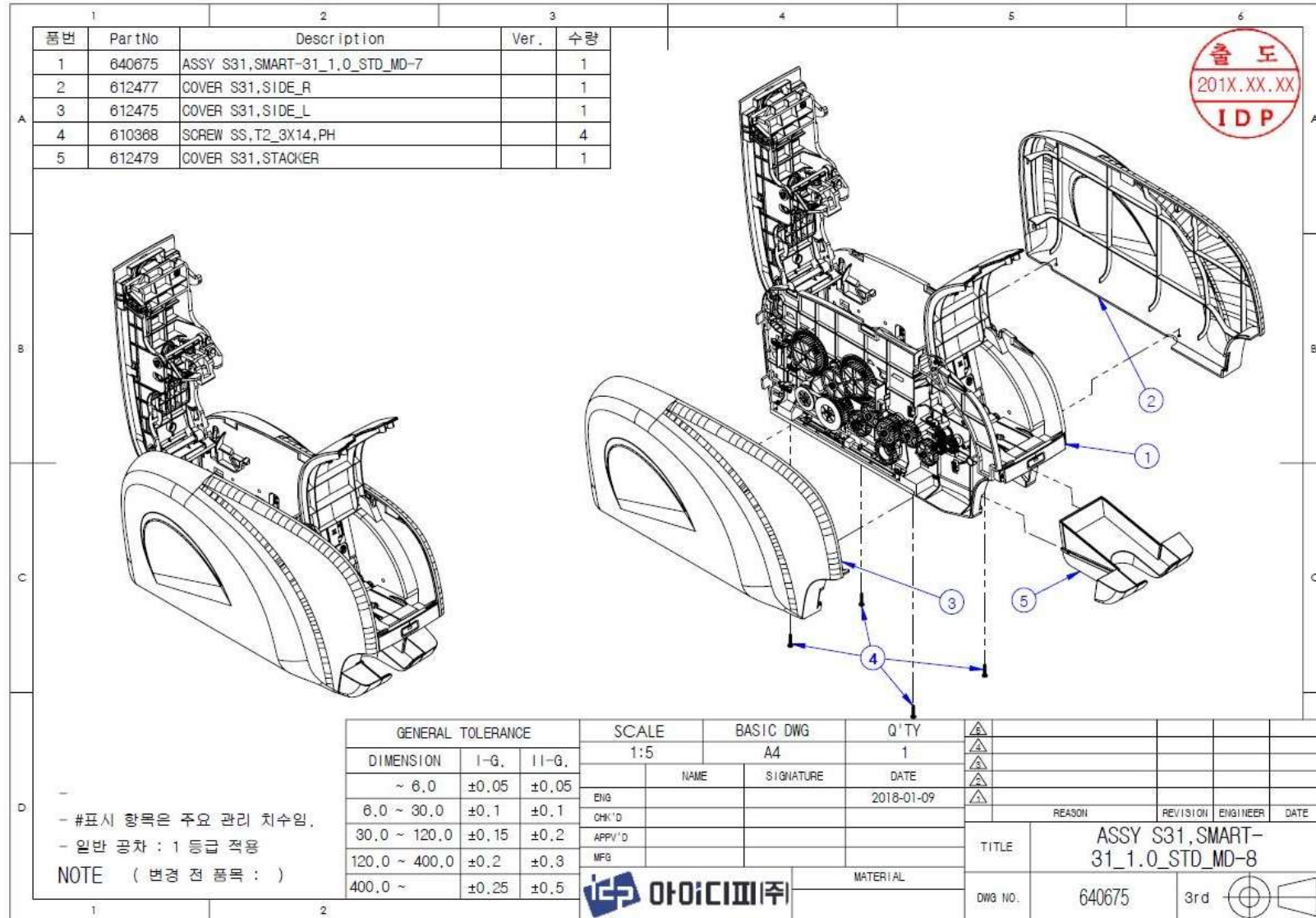
3rd



A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (12/13)



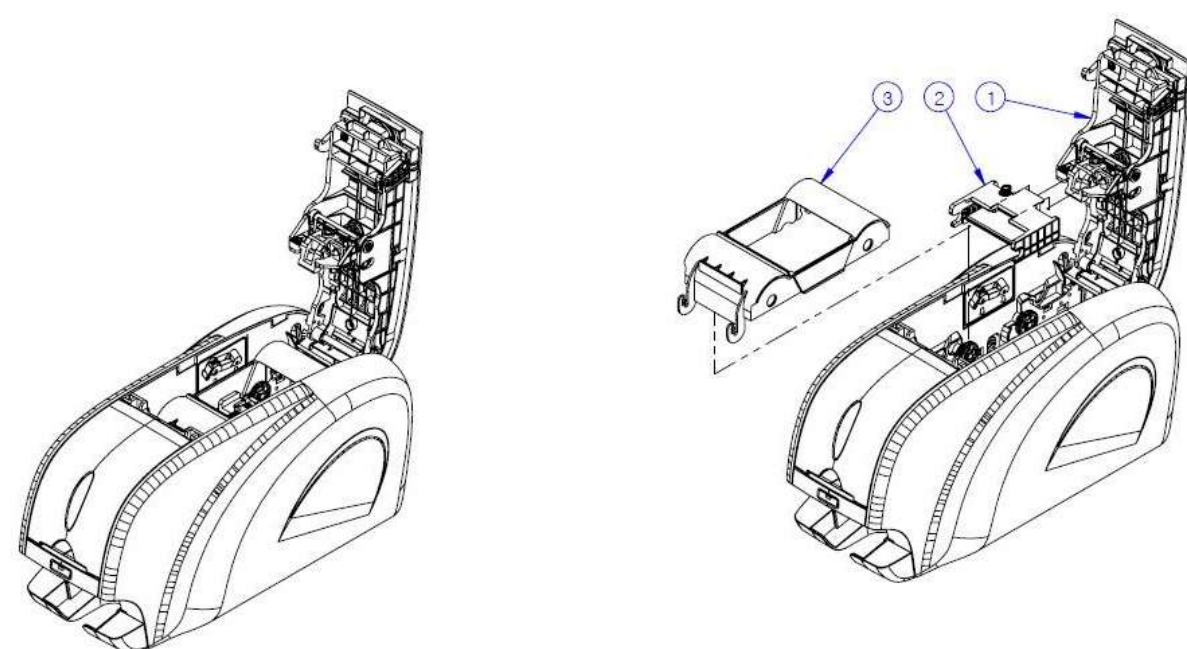
A. Printer Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

A.15 ASSY S31,SMART-31_1.0_STD_MD (13/13)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	640675	ASSY S31,SMART-31_1.0_STD_MD-8		1	
2	640257	ASSY S3,PRINT_HEAD_KPE		1	
3	612029	CASE S51,CARTRIDGE		1	





- #표시 항목은 주요 관리 치수임.
 - 일반 공차 : 1 등급 적용
 NOTE (변경 전 품목 :)

GENERAL TOLERANCE	
DIMENSION	I-G, II-G.
~ 6.0	±0.05 ±0.05
6.0 ~ 30.0	±0.1 ±0.1
30.0 ~ 120.0	±0.15 ±0.2
120.0 ~ 400.0	±0.2 ±0.3
400.0 ~	±0.25 ±0.5

SCALE	BASIC DWG	Q'TY
1:5	A4	1
NAME	SIGNATURE	DATE
ENG		2018-01-09
CHK'D		
APPV'D		
MFG		

REASON	REVISION	ENGINEER	DATE



TITLE	
ASSY S31,SMART-31_1.0_STD_MD-9	
DWG NO.	640675
3rd	

B. FLIPPER ASSEMBLY DRAWING

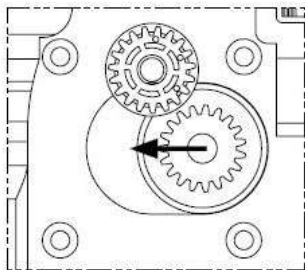
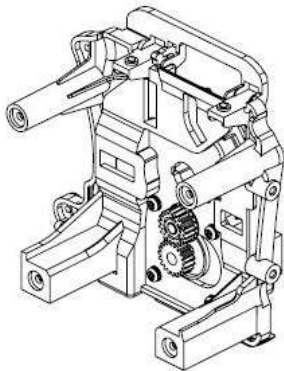
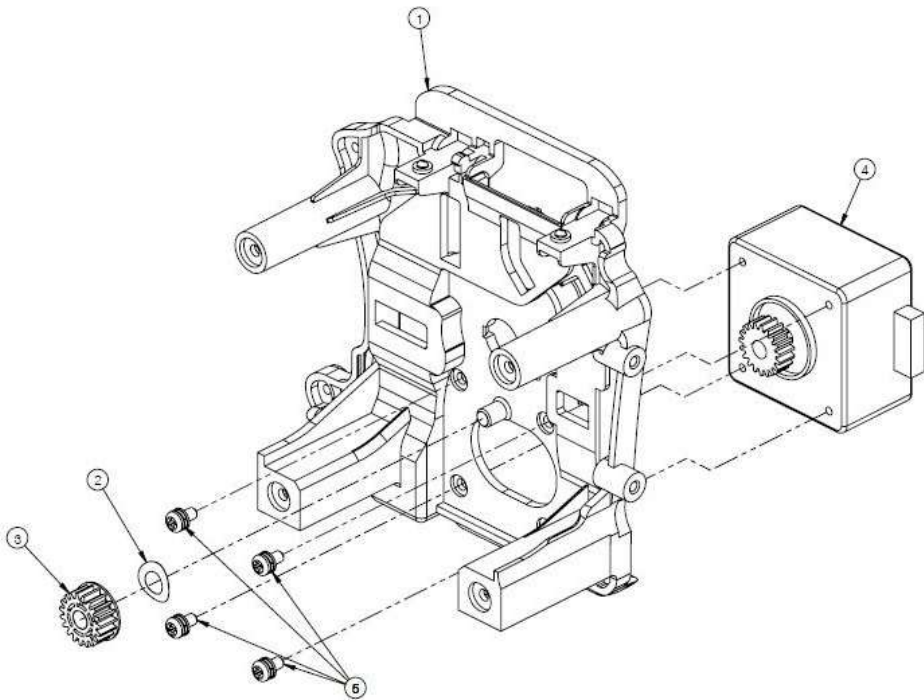


B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

B.1 FLIPPER ASSY (S-31 DUAL) (1/10)

품번	Part No	Description	Ver.	수량
1	811177	FRAME S3_FLIPPER_MAIN_L		1
2	810418	WASHER S3_BEND_P16.0X0.1T_SUS		1
3	811189	GEAR S3_FLIPPER_MIDDLE		1
4	811189	MOTOR STEP.17HD5003		1
5	810355	SCREW S3_M3X6.3AM		4



NOTE

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE

1:1

BASIC DWG

A3

Q'TY

1

NAME

SIGNATURE

DATE

ENG

DWG'D

APP'D

MFG

REASON

REVISION

ENGINEER

APPROVAL

DATE

TITLE

ASSY S31_FLIPPER_OPTION-1

CODE No.

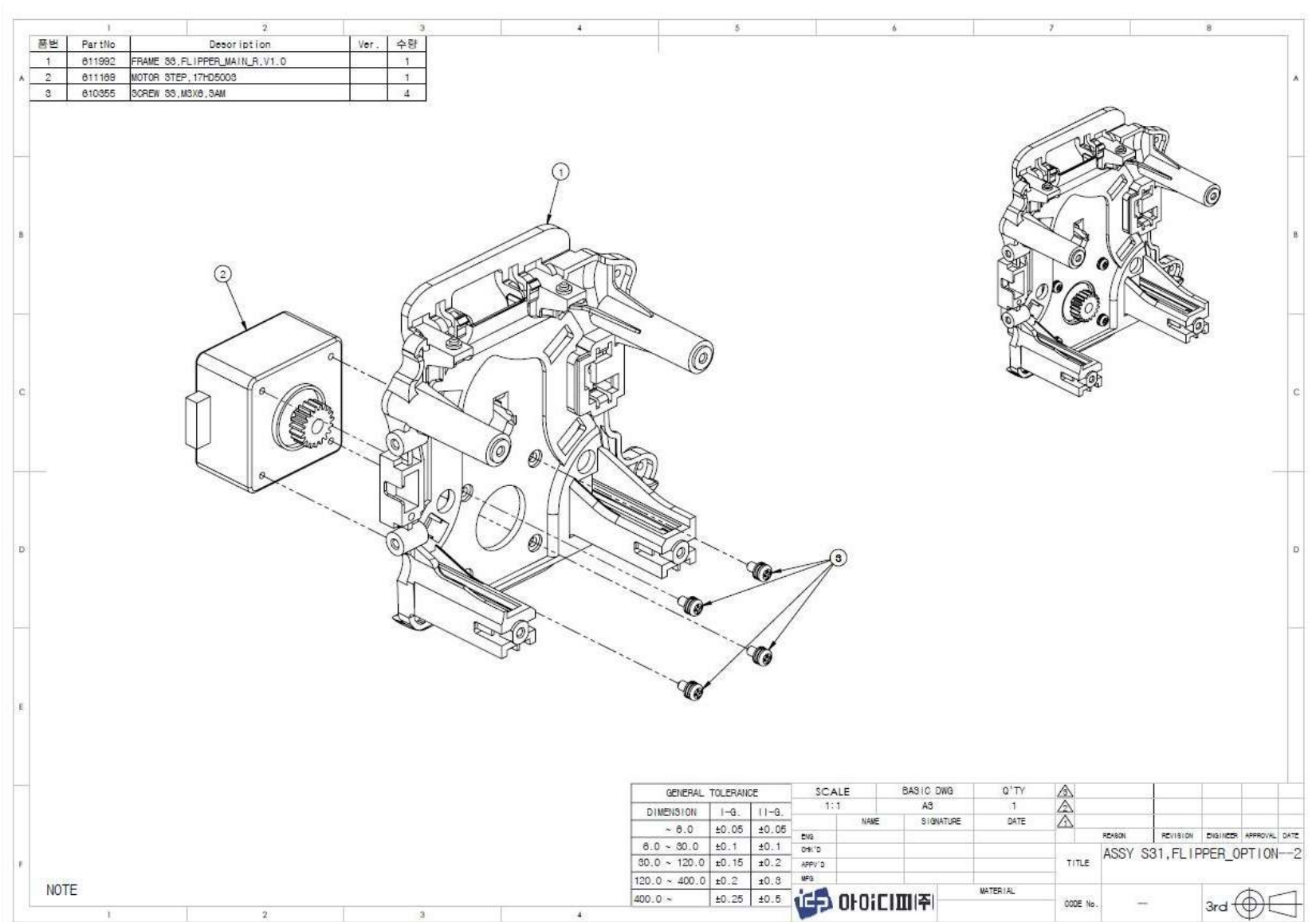
3rd



B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

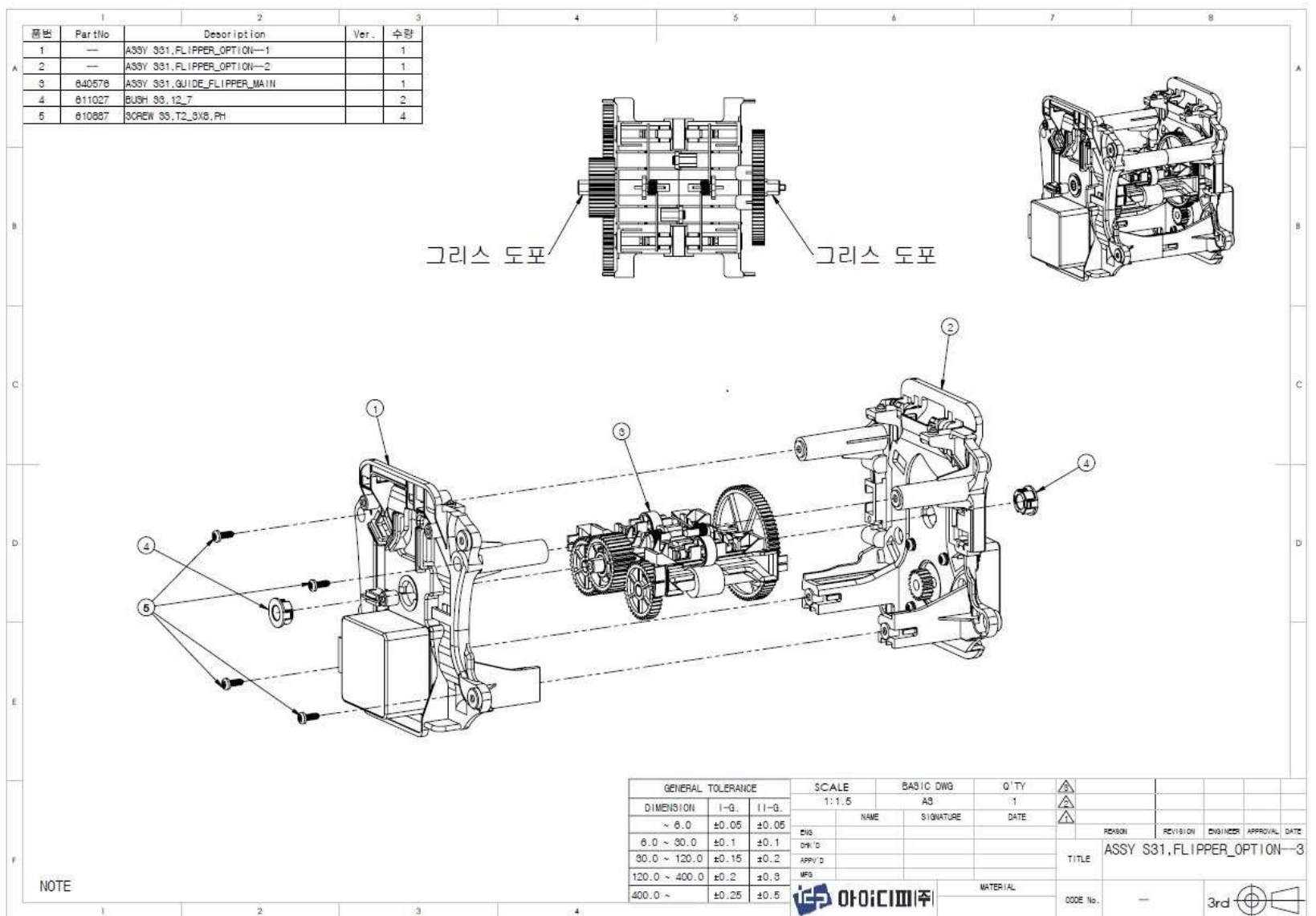
B.1 FLIPPER ASSY (S-31 DUAL) (2/10)



B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

B.1 FLIPPER ASSY (S-31 DUAL) (3/10)



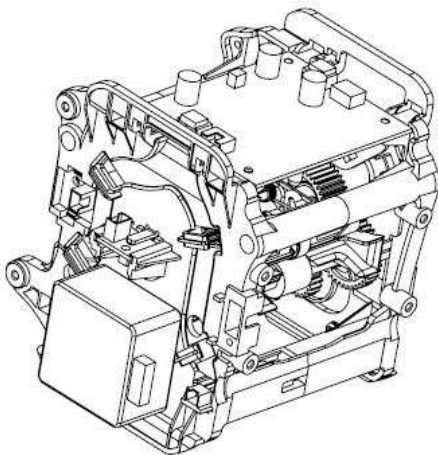
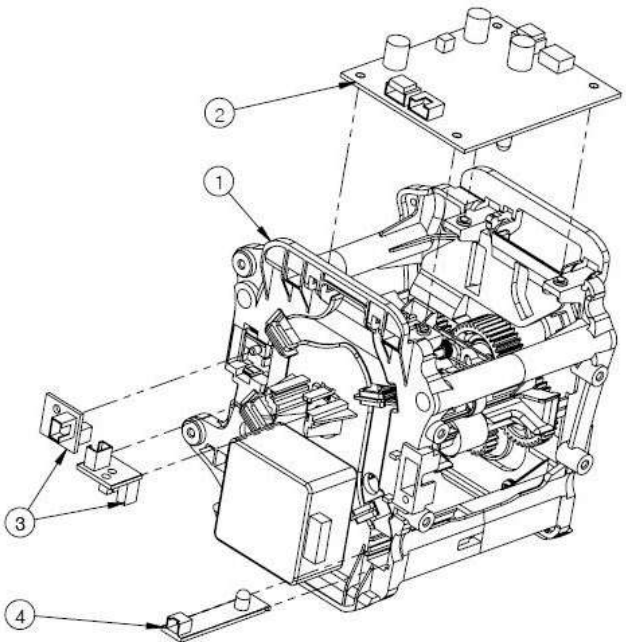
B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

B.1 FLIPPER ASSY (S-31 DUAL) (4/10)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	종합/수량	
1	—	ASSY S31,FLIPPER_OPTION—3		1	
2	630189	FLIP_MAIN_51 PRT BD,SMART51 PRT,0,2		1	
3	630119	SEN_FLIPPER_30 BD,SMART30,0,3		2	
4	630190	SEN_FLIP_OUT_51 PRT BD,SMART51 PRT,0,1		1	



— #표시 항목은 주요 관리 치수임.

— 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG		Q'TY
1:2		A4		1
NAME	SIGNATURE	DATE		
ENG 차승태		2013-09-09		
CHK'D				
APPV'D				
MFG				

REASON				REVISION	ENGINEER	DATE
TITLE ASSY S31,FLIPPER_OPTION—4						
DWG NO. —				3rd		



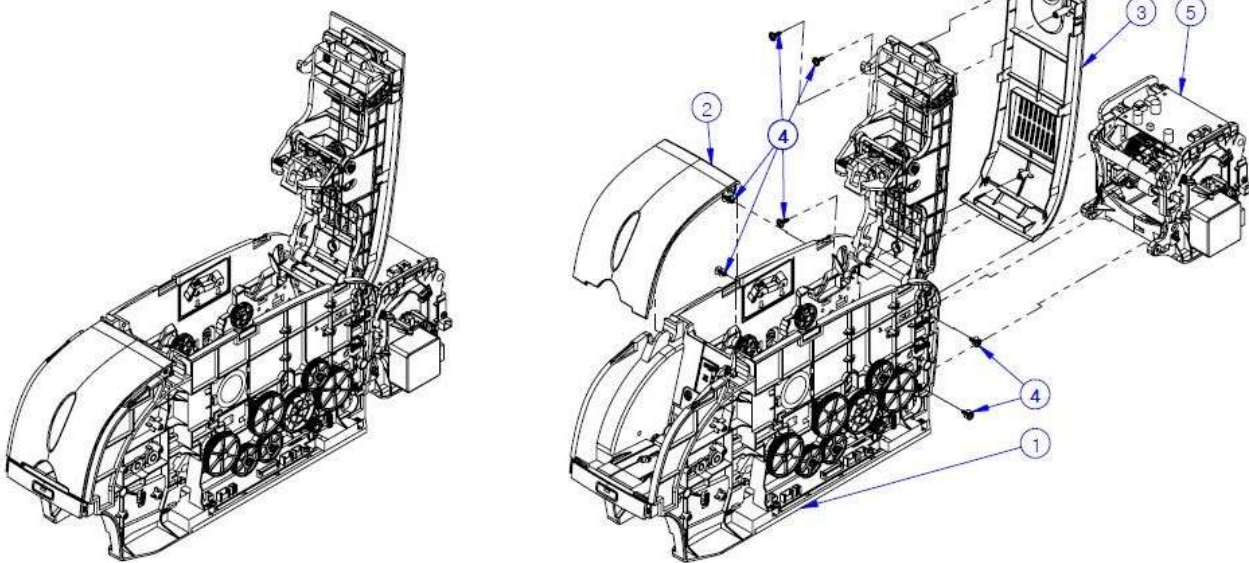
B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

B.1 FLIPPER ASSY (S-31 DUAL) (5/10)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	640675	ASSY S31,SMART-31_1.0_STD_MD-6		1	
2	612472	ASSY S31,FRONT_COVER		1	
3	612480	COVER S31,TOP		1	
4	610366	SCREW SS,T2_3X10,PH_2W		7	
5	640543	ASSY S51,FLIPPER_MAIN		1	





NOTE (변경 전 품목 :)

- #표시 항목은 주요 관리 치수임.
- 일반 공차 : 1 등급 적용

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
30.0 ~ 120.0	±0.15	±0.2
120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG	Q'TY
1:5		A4	1
ENG	NAME	SIGNATURE	DATE
CHK'D			2018-01-09
APPV'D			
MFG			

REASON				REVISION	ENGINEER	DATE

TITLE ASSY S31D,SMART-31_DUAL_STD_MD-7

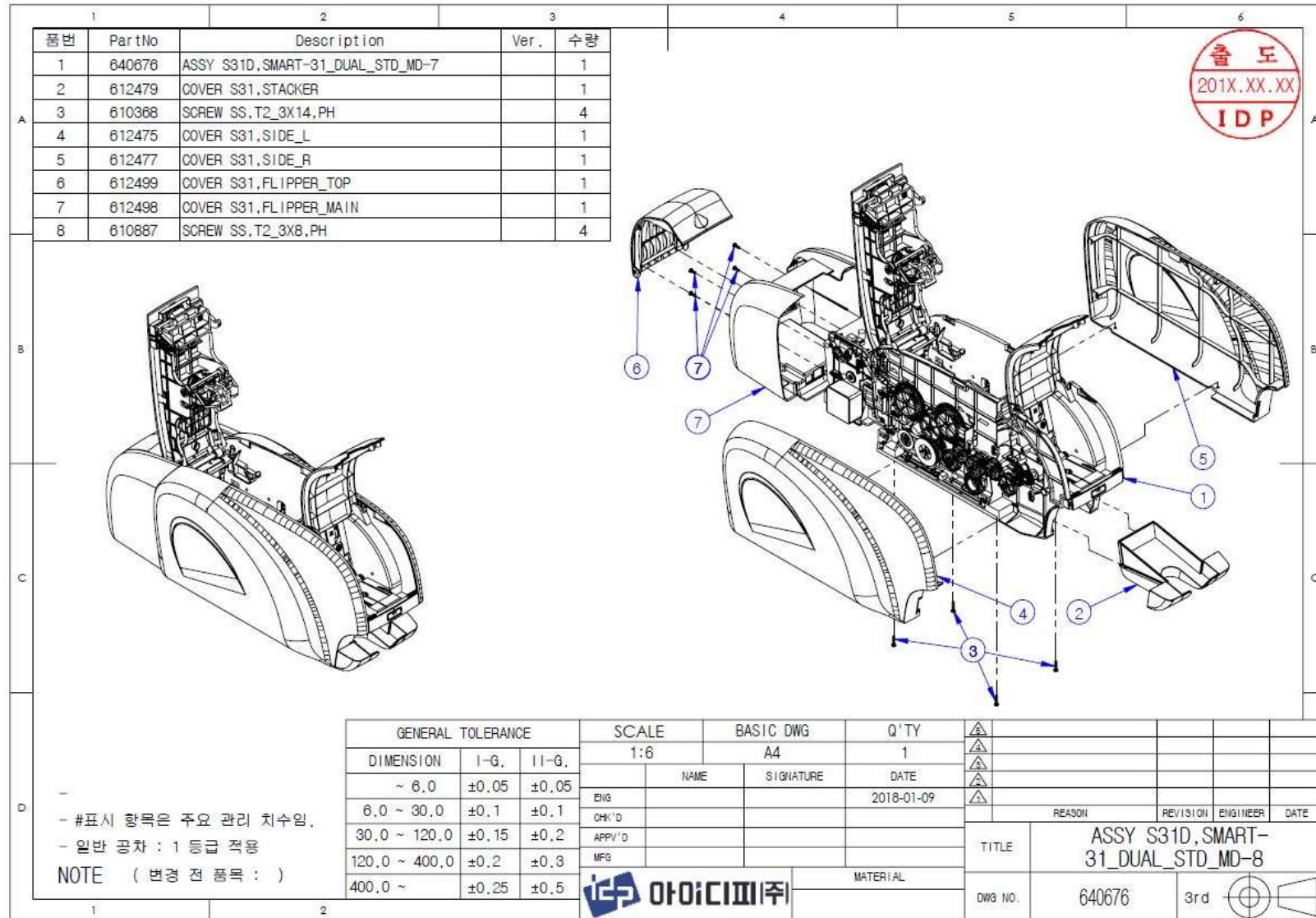
DWG NO. 640676 3rd



B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

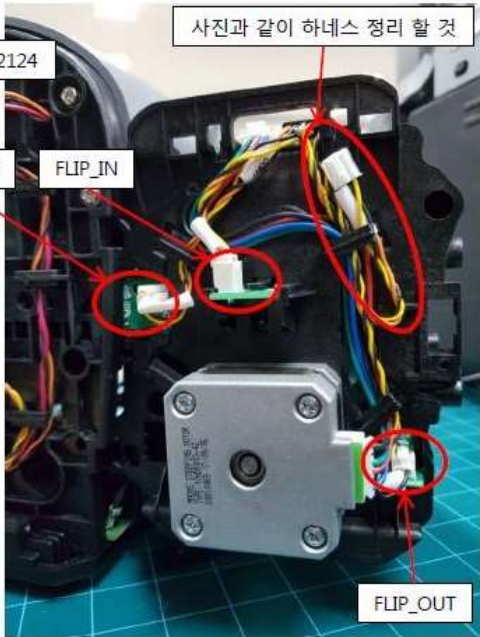
B.1 FLIPPER ASSY (S-31 DUAL) (6/10)



B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

B.1 FLIPPER ASSY (S-31 DUAL) (7/10)

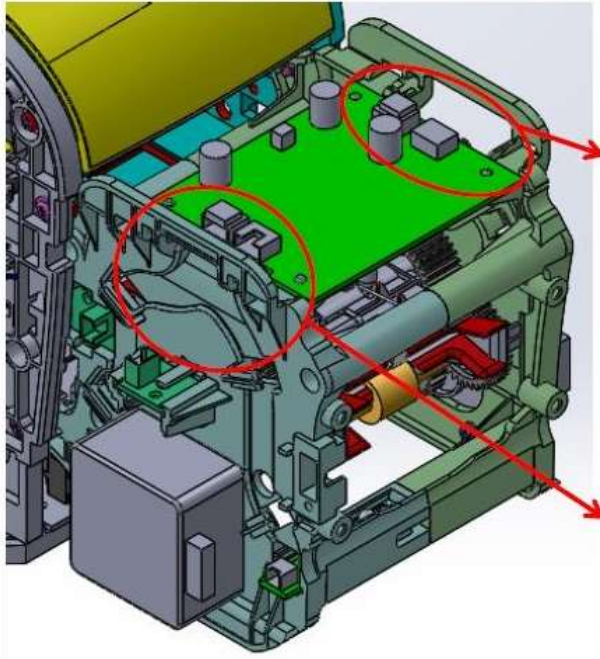
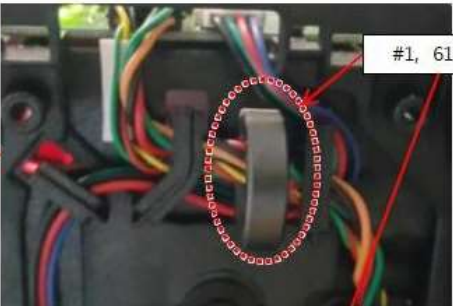
작업명	[640575] ASSY S31,FLIPPER_OPTION - 5	적용모델	SMART 31 FLIPPER	작성자	이 승 환
작업 방법				작성일자	2018. 02. 27
 				사용 부품	
				No	Code
1	--	ASSY S31,FLIPPER_OPTI...-4	1		
2	612123	WIRE,FLIP_POW_51 PRT,8P,290m	1		
3	612124	WIRE,FLIP_SENS_51 PRT,11P,110mm	1		
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
사용 공구 / 측정 장비					
No	품명	규격			
1	전동 드라이버	+			
2					
3					
4					
5					
1. 그림과 같이 조립한다.					

1. 그림과 같이 조립한다.

B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

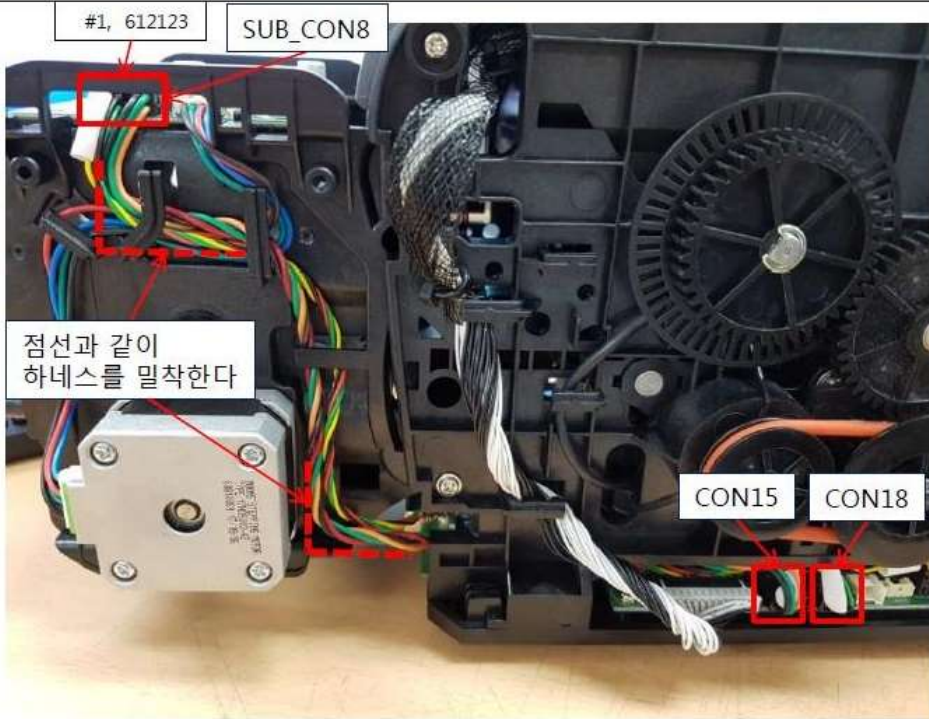
B.1 FLIPPER ASSY (S-31 DUAL) (8/10)

작업명	[640575] ASSY S31,FLIPPER_OPTION - 5 (하네스 추가작업)	적용모델	SMART 31 FLIPPER	작성자	이 승 환		
작업 방법				작성일자	2018. 03. 21		
  #1, 612516 사진과 같은 위치에 코어[28B0870-000] 1EA를 배선에 통과 시켜 장착함.  사진과 같은 위치에 코어[28B0870-000] 1EA를 배선에 1회 감아 장착함.				사용 부품			
				No	Code	Description	수량
				1	612516	FERRITE CORE,28B0870-0...	2
				2			
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				사용 공구 / 측정 장비			
				No	품명	규격	
				1	전동 드라이버	+	
				2			
				3			
				4			
				5			

B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

B.1 FLIPPER ASSY (S-31 DUAL) (9/10)

작업명	[640676] ASSY S31,SMART-31_DUAL_STD_MD - 7STEP (하네스)	적용모델	SMART-31D	작성자	이 승 환		
작업 방법				작성일자	2018. 02. 27		
				사용 부품			
				No	Code	Description	수량
				1	612123	WIRE,FLIP_POW_51 PRT,8...	1
				2			
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				10			
				11			
				12			
				13			
				14			
				15			
				사용 공구 / 측정 장비			
No	품명	규격					
1	전동드라이버	+					
2							
3							
4							
5							

1. 그림과 같이 조립한다.

1. 그림과 같이 조립한다.

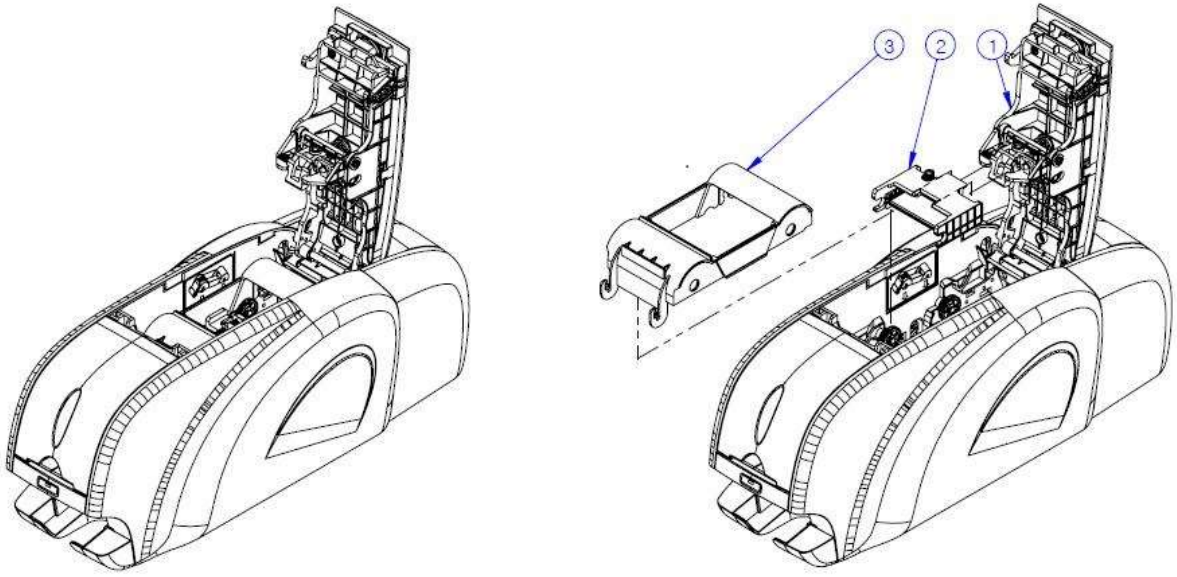
B. Flipper Assembly Drawing

YOUR BEST ID PRINTER PROVIDER

B.1 FLIPPER ASSY (S-31 DUAL) (10/10)

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	640676	ASSY S31D, SMART-31_DUAL_STD_MD-8		1	
2	640257	ASSY S3, PRINT_HEAD_KPE		1	
3	612029	CASE S51, CARTRIDGE		1	





— #표시 항목은 주요 관리 치수임.

— 일반 공차 : 1 등급 적용

NOTE (변경 전 품목 :)

GENERAL TOLERANCE		
DIMENSION	I-G.	II-G.
~ 6.0	±0.05	±0.05
6.0 ~ 30.0	±0.1	±0.1
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120.0 ~ 400.0	±0.2	±0.3
400.0 ~	±0.25	±0.5

SCALE		BASIC DWG	Q'TY
1:5		A4	1
ENG	NAME	SIGNATURE	DATE
CHK'D			2018-01-09
APPV'D			
MFG			

REASON				REVISION	ENGINEER	DATE



TITLE

ASSY S31D, SMART-31_DUAL_STD_MD-9

DWG NO.

640676

3rd



C. SERVICE PARTS LIST



C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.1 BOARD

No.	Part No.	Item	Spec.	Photo	Note
1	630211	MAIN BOARD	MAIN BD,31 PRT,V0.1		
2	630163	LED BOARD	LED_SW_30 BD,SMART30,0.3		
3	612258	RF BOARD	RF_ANT BD,SMART51 PRT,0.1		
4	630189	FLIPPER MAIN BOARD	FLIP MAIN_51 PRT BD,SMART51 PRT,0.2		
5	630191	MS BOARD	MS_RW MODULE_51 BD,SMART51 PRT,0.1		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.2 SENSOR

No.	Part No.	Item	Spec.	Photo	Note
1	630019	HEAD UP-DOWN SENSOR	SENSOR DETECTOR BD,SMART,0.4		
2	630033	ENCODER SENSOR	SENSOR ENCODER2 BD,SMART,0.1		
3	630107	CASE OPEN SENSOR	SEN_CASE_30 BD,SMART30,0.2		
4	630110	CARD POSITION SENSOR	SEN_POS_30 BD,SMART30,0.2		
5	630119	FLIPPER SENSOR	SEN_FLIPPER_30 BD,SMART30,0.3		
6	630187	RIBBON SEARCH SENSOR	SEN_FLIP_OUT_51 PRT BD,SMART51 PRT,0.1		
7	630190	FLIPPER CARD OUT SENSOR	SEN_FLIP_OUT_51 PRT BD,SMART51 PRT,0.1		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.2 SENSOR

No.	Part No.	Item	Spec.	Photo	Note
8	630212	RIBBON SEARCH SENSOR	SEN BD,COLOR_IN_31 PRT,V0.1		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.3 CABLE

No.	Part No.	Item	Spec.	Photo	Note
1	610132	Head CABLE	WIRE,Thermal Head,26P,370mm		
2	611076	IO CABLE L	WIRE,I/O_30 LEFT,20P,230mm		
3	611077	LED CABLE	WIRE,LED_30 SW,5P,220mm		
4	611164	EARTH CABLE	WIRE,EARTH_LINK,1P,290mm		
5	611263	STEP MOTOR CABLE	WIRE,STEP MOT,4P,80MM		
6	612123	FLIPPER LINK CABLE	WIRE,FLIP_POW_51 PRT,8P,290m		
7	612124	FLIPPER SENSOR CABLE	WIRE,FLIP_SENS_51 PRT,11P,110mm		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.3 CABLE

No.	Part No.	Item	Spec.	Photo	Note
8	612512	IO CABLE R	WIRE,I/O_R_31 PRT2,18P,420MM		
9	612513	RIBBON RF CABLE	WIRE,RF_ANT_CORE_51 LAM,3P,170MM		
10	612514	MOTOR EARTH CABLE	WIRE,EARTH_MOT_31 PRT,3P,240MM		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.4 COVER

No.	Part No.	Item	Spec.	Photo	Note
1	612029	RIBBON CARTRIDGE	CASE S51,CARTRIDGE		
2	612468	TOP OPEN BUTTON	BUTTON S31, TOP		
3	612472	FRONT COVER	ASSY S31, FRONT_COVER		
4	612475	SIDE COVER L	COVER S31, SIDE_L		
5	612477	SIDE COVER R	COVER S31, SIDE_R		
6	612479	STACKER	COVER S31, STACKER		
7	612480	TOP COVER	COVER S31, TOP		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.4 COVER

No.	Part No.	Item	Spec.	Photo	Note
8	612498	FLIPPER MAIN COVER	COVER S31,FLIPPER_MAIN		
9	612499	FLIPPER TOP COVER	COVER S31,FLIPPER_TOP		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.5 MOTOR

No.	Part No.	Item	Spec.	Photo	Note
1	640264	MAIN STEP MOTOR	ASSY S3,STEP_MOTOR		
2	630031	HEAD UP-DOWN MOTOR	HEAD U/D MOTOR BD,SMART,0.4		
3	630058	RIBBON MOTOR	RIBBON MOTOR BD,SMART,0.4		
4	611169	FLIPPER STEP MOTOR	MOTOR STEP,17HD5003		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

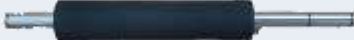
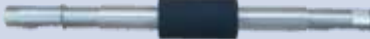
C.6 BELT

No.	Part No.	Item	Spec.	Photo	Note
1	611010	STEP BELT	BELT S3,50S2M160		
2	610913	RIBBON FEEDING BELT	BELT SS,PI39.7X3.5_SILICONE		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

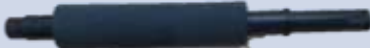
C.7 ROLLER

No.	Part No.	Item	Spec.	Photo	Note
1	610920	CLEANING ROLLER	ROLLER SS,CLEANING,1.1		
2	611064	HOPPER ROLLER 1	ROLLER S3,HOPPER_CARD_IN_1		
3	611065	HOPPER ROLLER 2	ROLLER S3,HOPPER_CARD_IN_2		
4	611999	PRINTING ROLLER	ROLLER S31,PRINTING		
5	612188	FLIPPER ROLLER	ROLLER S31,FLIPPER_FEED		
6	612490	IC ROLLER	ROLLER S31,IC		
7	612491	MS ROLLER	ROLLER S31,MS		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.7 ROLLER

No.	Part No.	Item	Spec.	Photo	Note
8	612492	FIX ROLLER	ROLLER S31,CLEANING_FIX		

C. Service Parts List

YOUR BEST ID PRINTER PROVIDER

C.8 ETC

No.	Part No.	Item	Spec.	Photo	Note
1	610344	COOLING FAN	FAN,AD0524HB-G70(T)/LF		
2	651089	PRINT HEAD ASS'Y	SP S3 PRINT_HEAD_ASSY_KPE		
3	640680	DISPLAY PANEL	ASSY S31,FRONT_DISPLAY		
4	630105	MS HEAD	MS_TG313RWVPH_30 BD,SMART30,0.1		
5	640576	FLIPPER ASSY	ASSY S31,GUIDE_FLIPPER_MAIN		
6	612504	ADAPTOR	ADAPTOR,P60EB240250,24V/2.5 A,-		

Thanks !

