



SMART-51

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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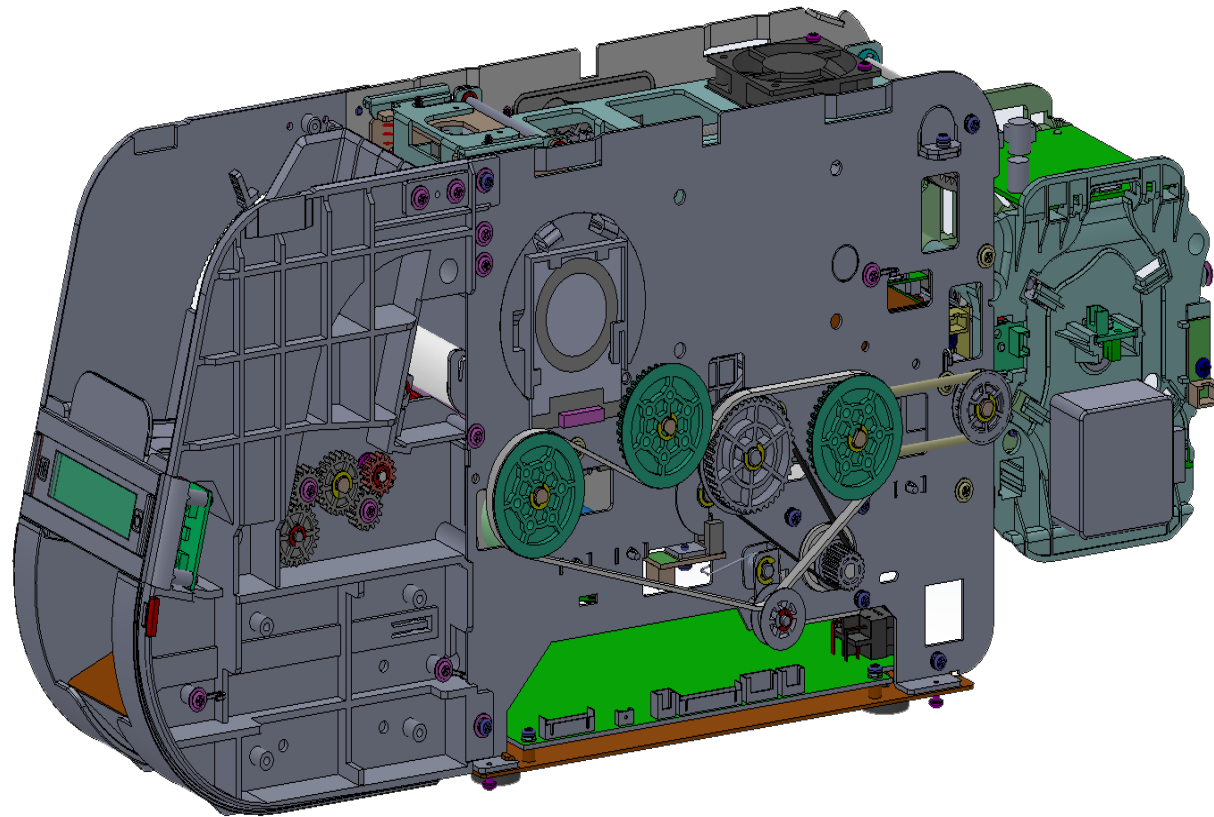
C.5 MOTOR

C.6 BELT

C.7 ROLLER

C.8 ETC

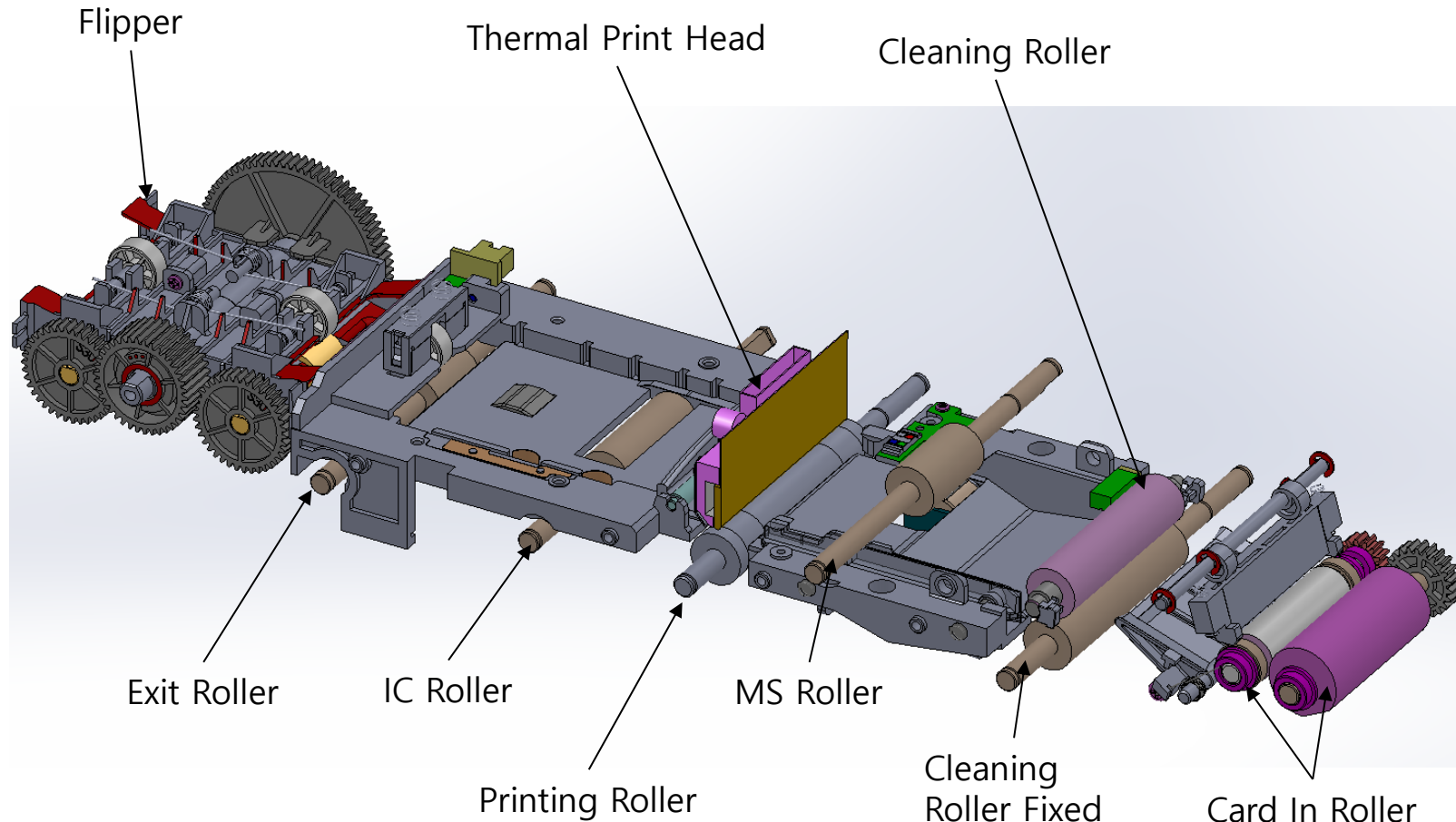
1. SMART-51 Structure



1.1 Card Movement Parts of Printer

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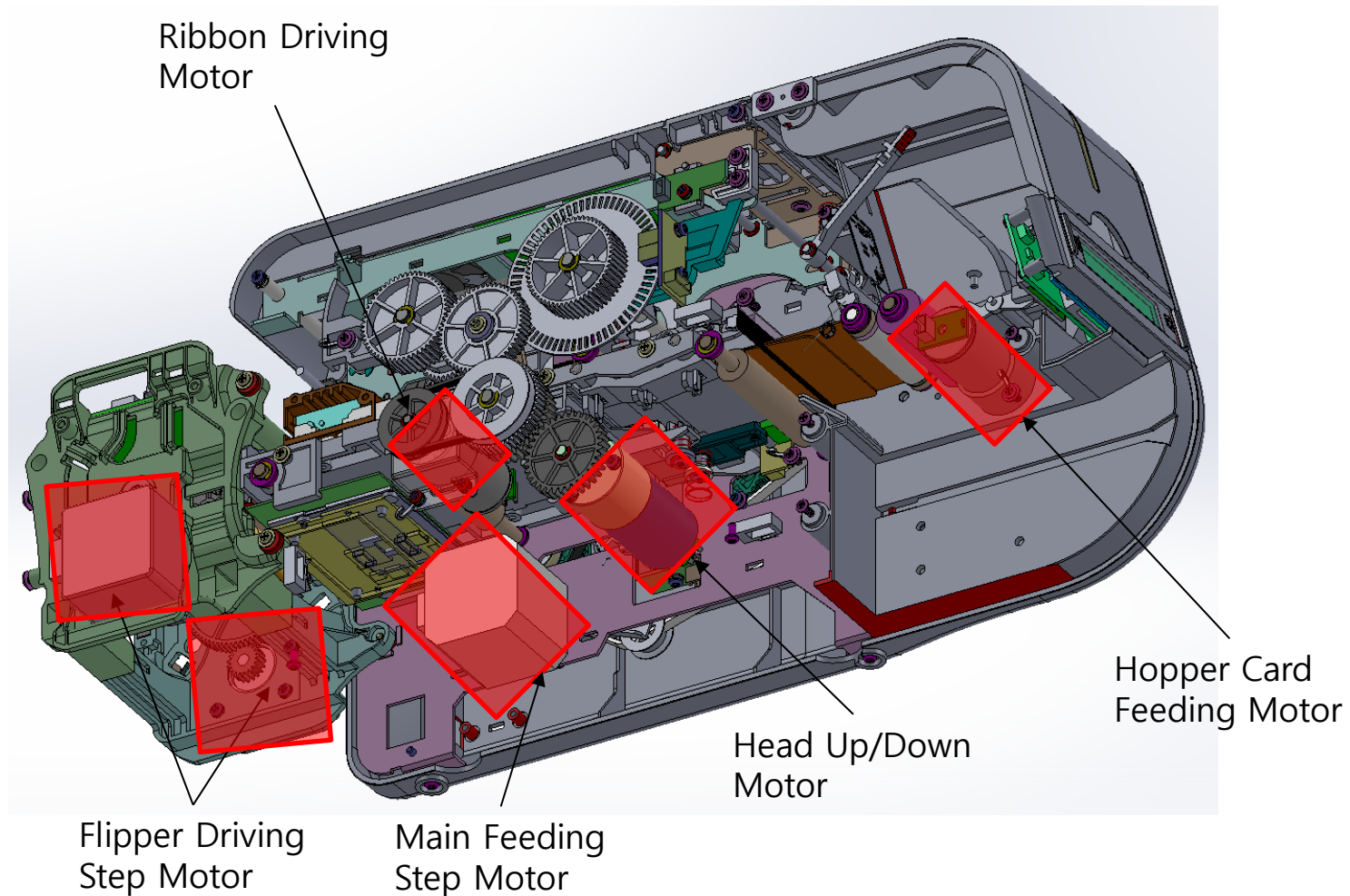
1.1.1 Thermal Print Head and Rollers



1.1 Card Movement Parts of Printer

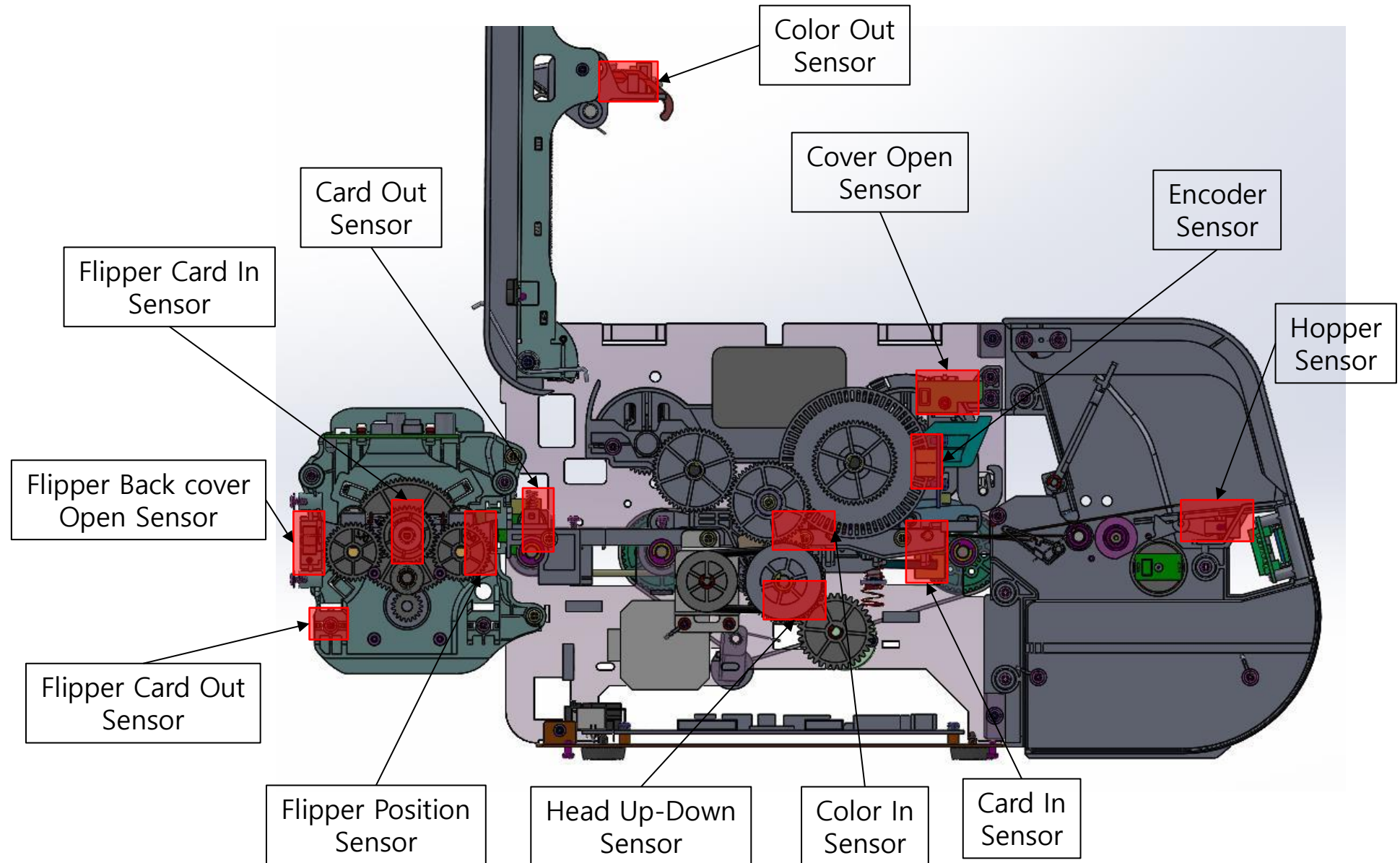
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1.1.2 Motors



1.2 Sensors of Printer

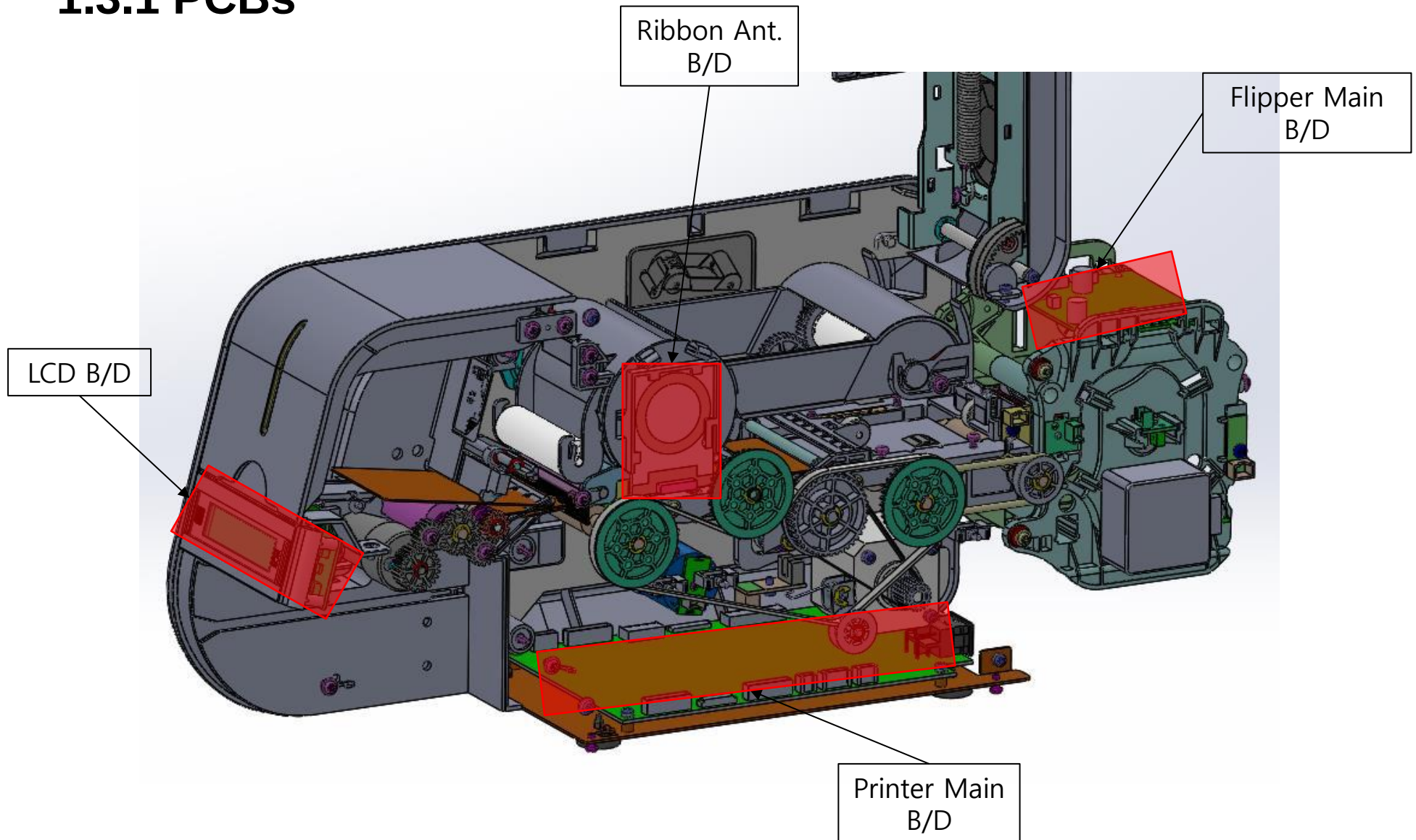
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1.3 PCBs of Printer

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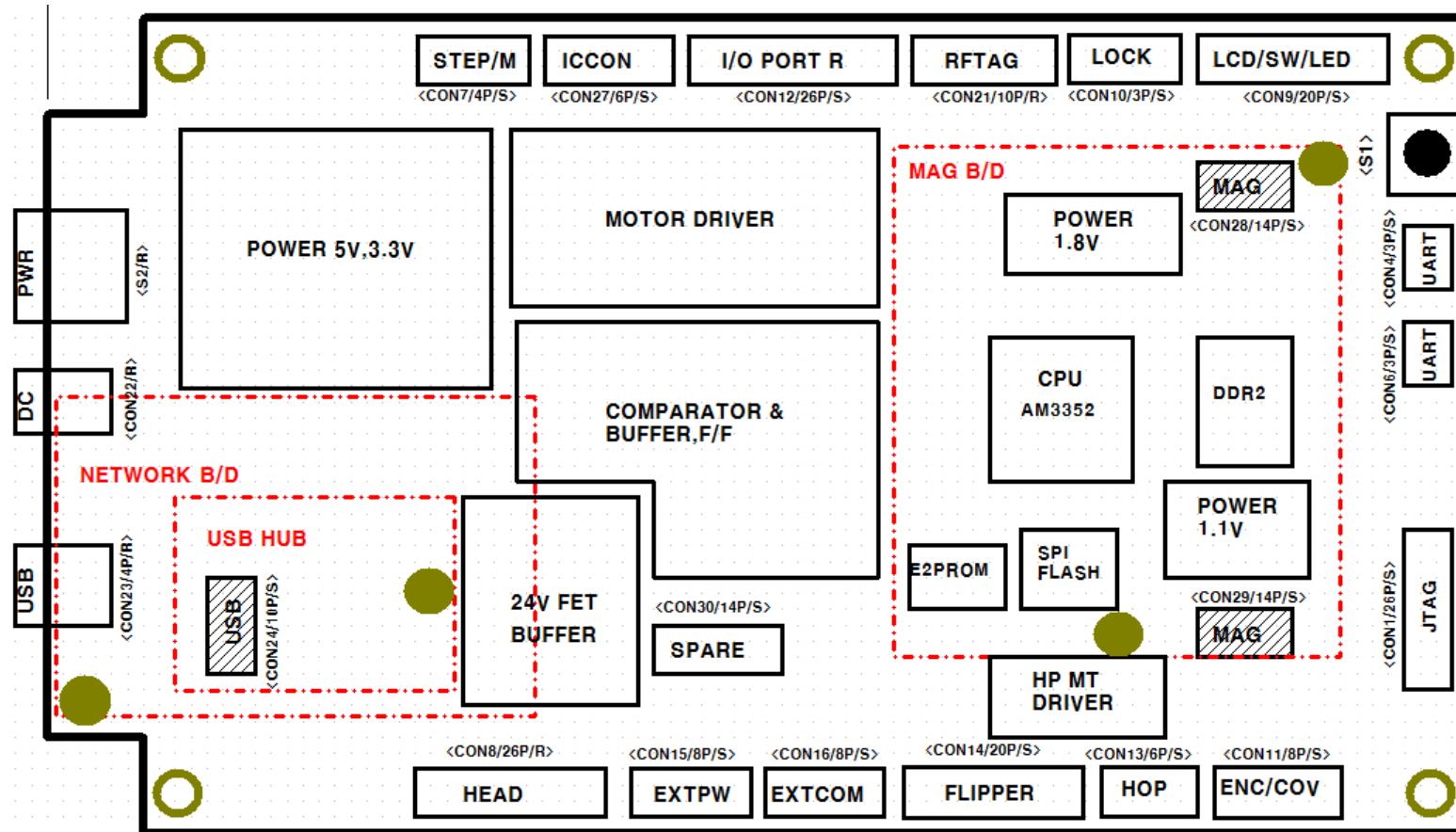
1.3.1 PCBs



1.3 PCBs of Printer

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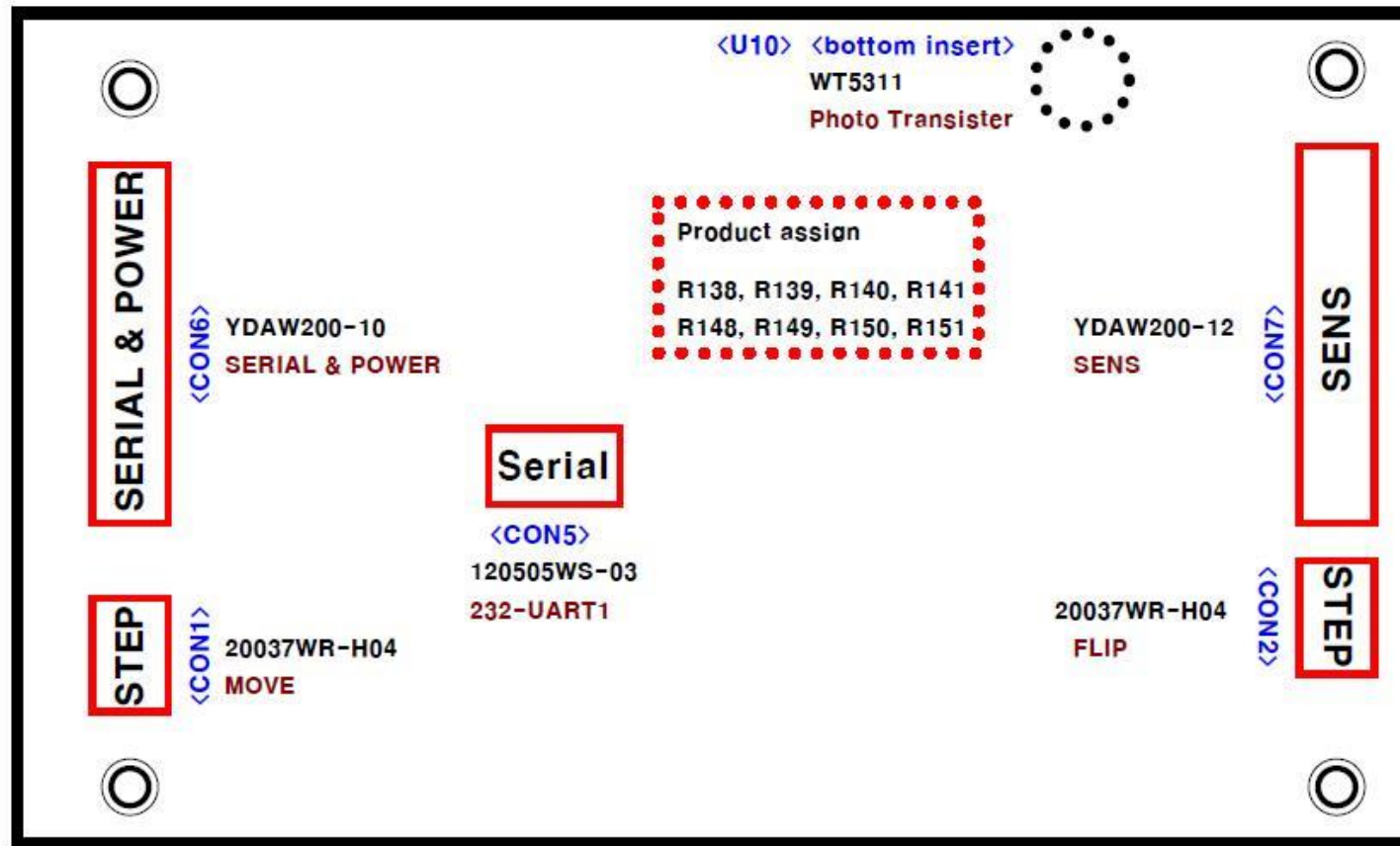
1.3.2 Wired Diagram for Printer Main Board



1.3 PCBs of Printer

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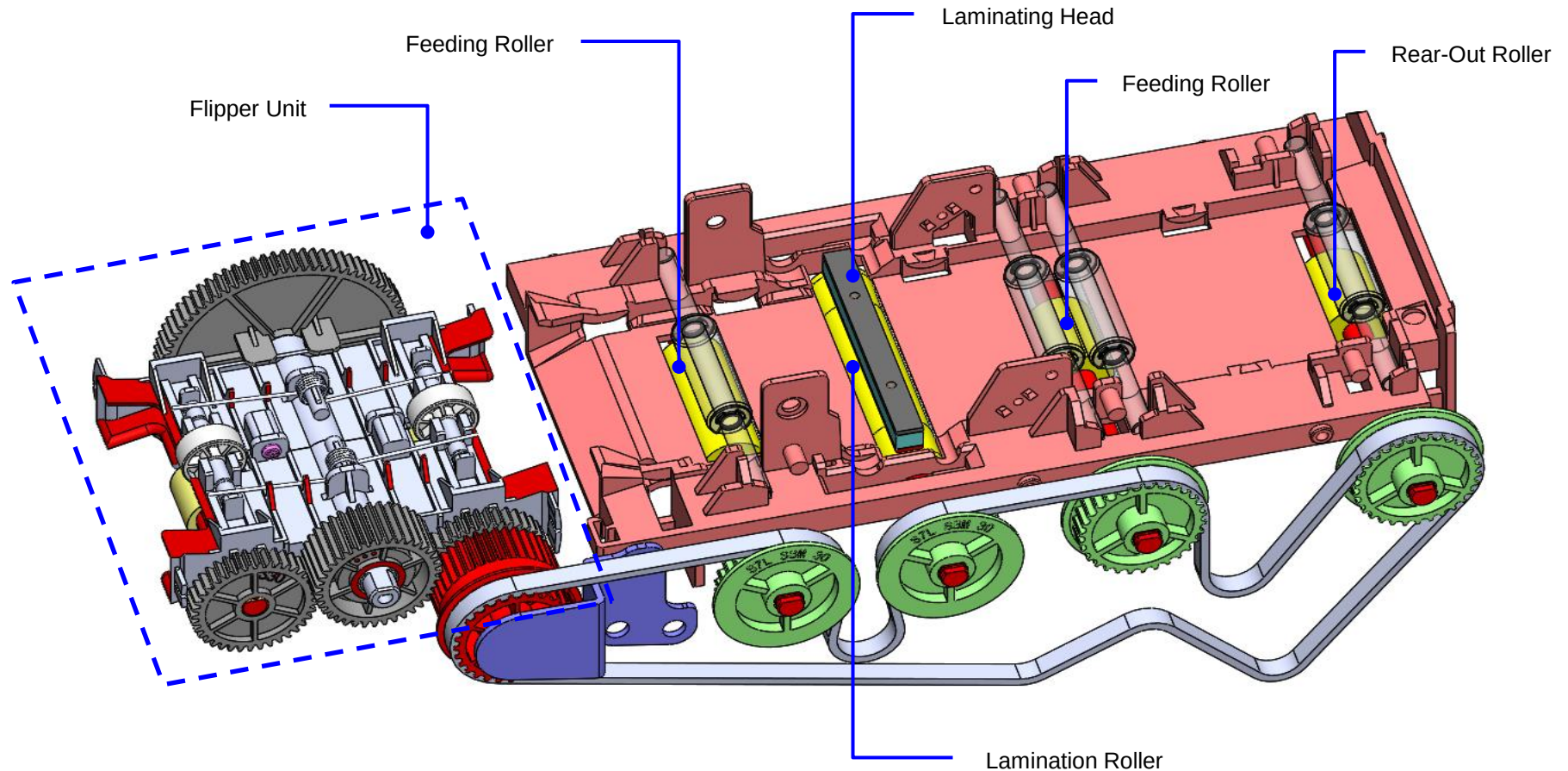
1.3.3 Wired Diagram for Flipper Main Board



1.4 Card Movement Parts of Laminator

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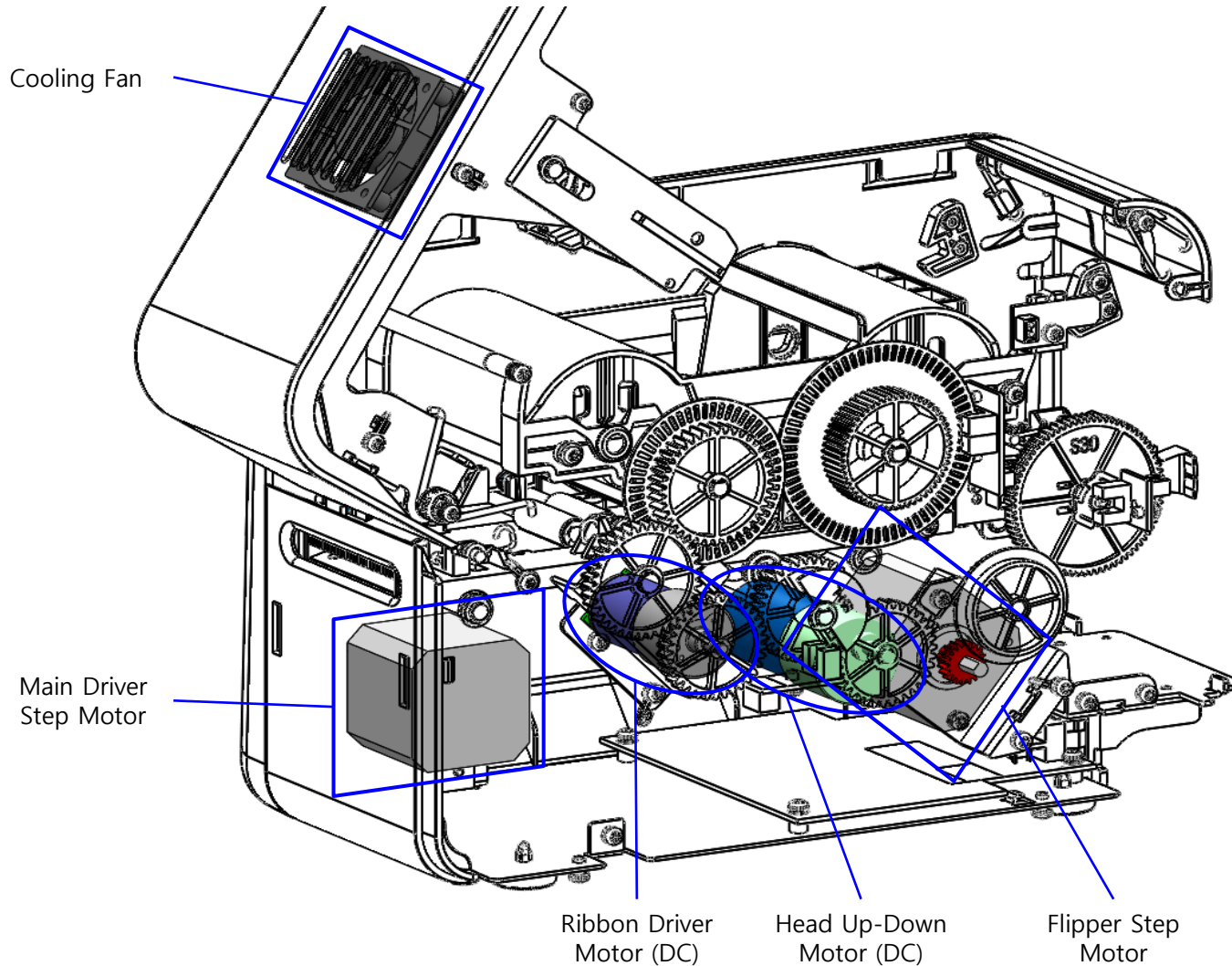
1.4.1 Laminating Head, Rollers and Flipper Unit



1.4 Card Movement Parts of Laminator

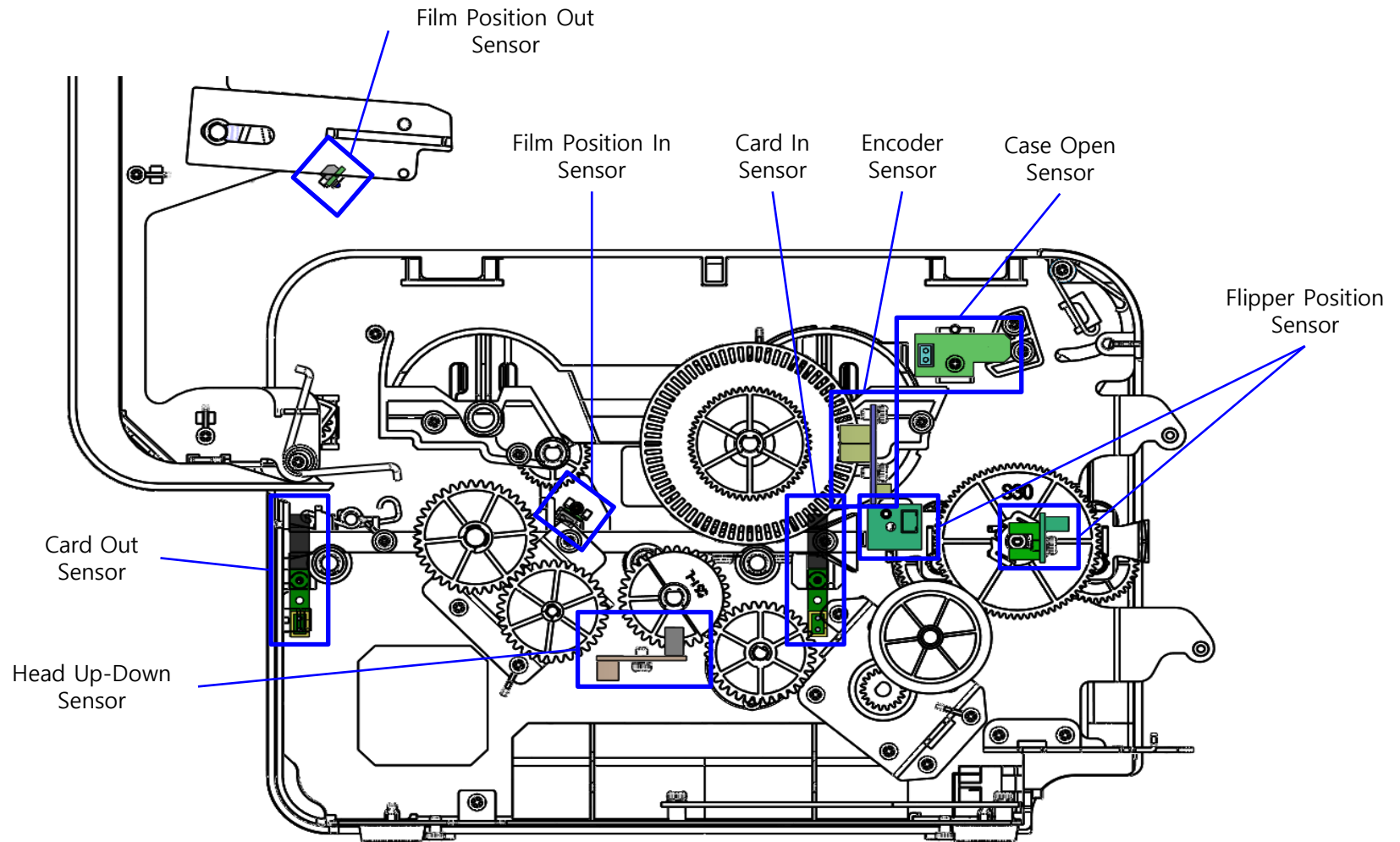
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1.4.2 Motors



1.5 Sensors of Laminator

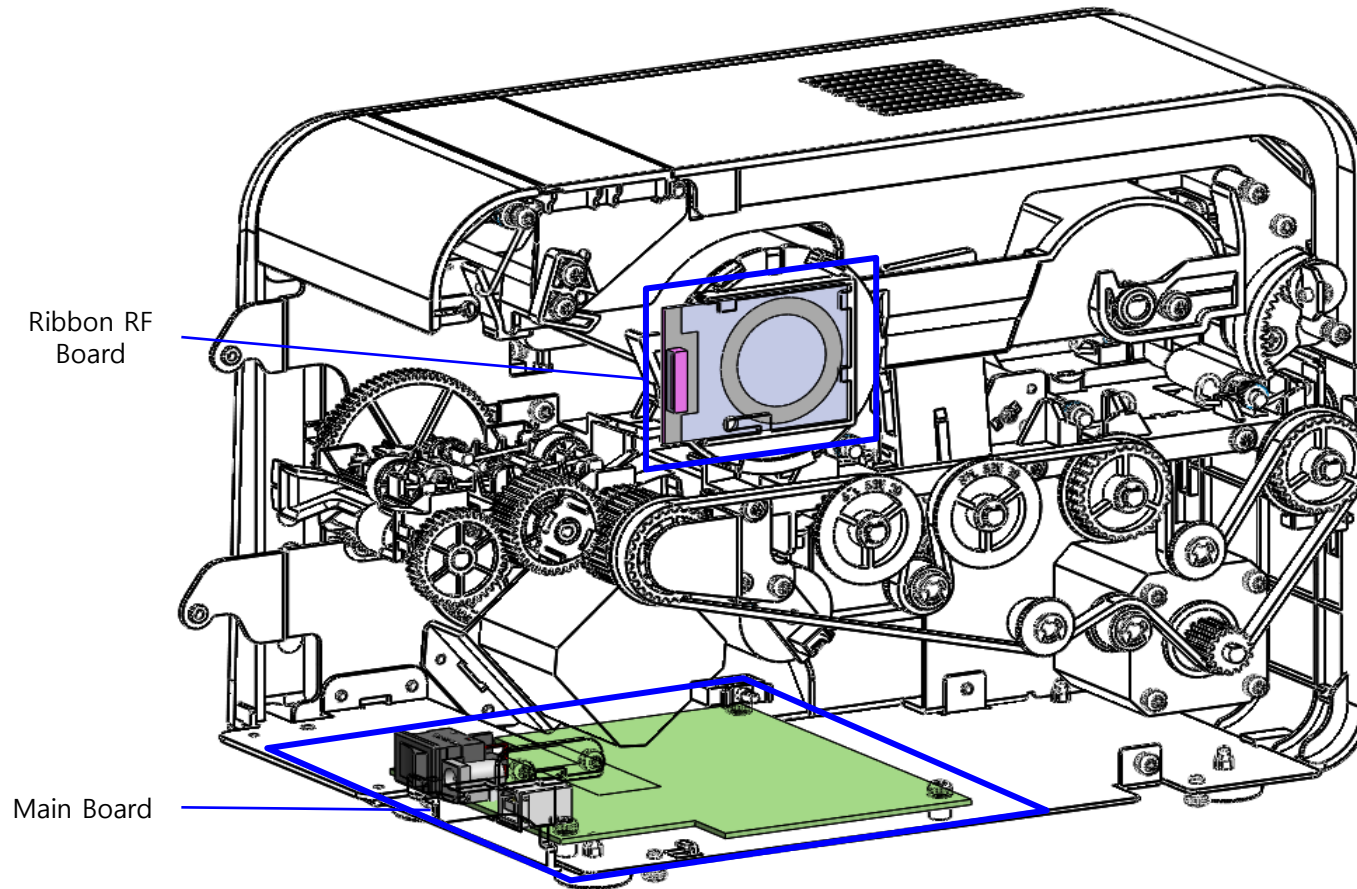
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1.6 PCBs of Laminator

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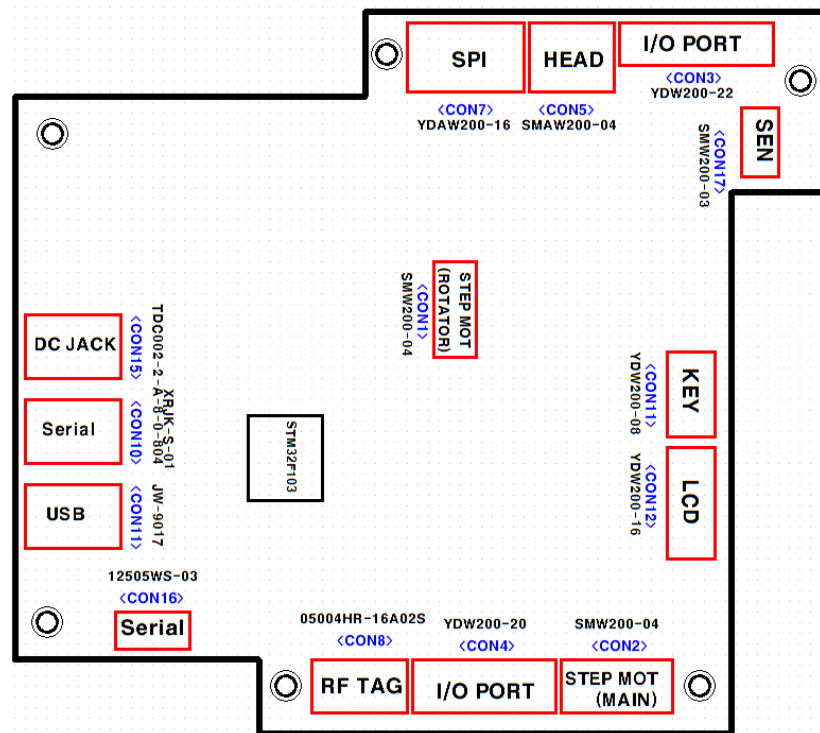
1.6.1 PCBs



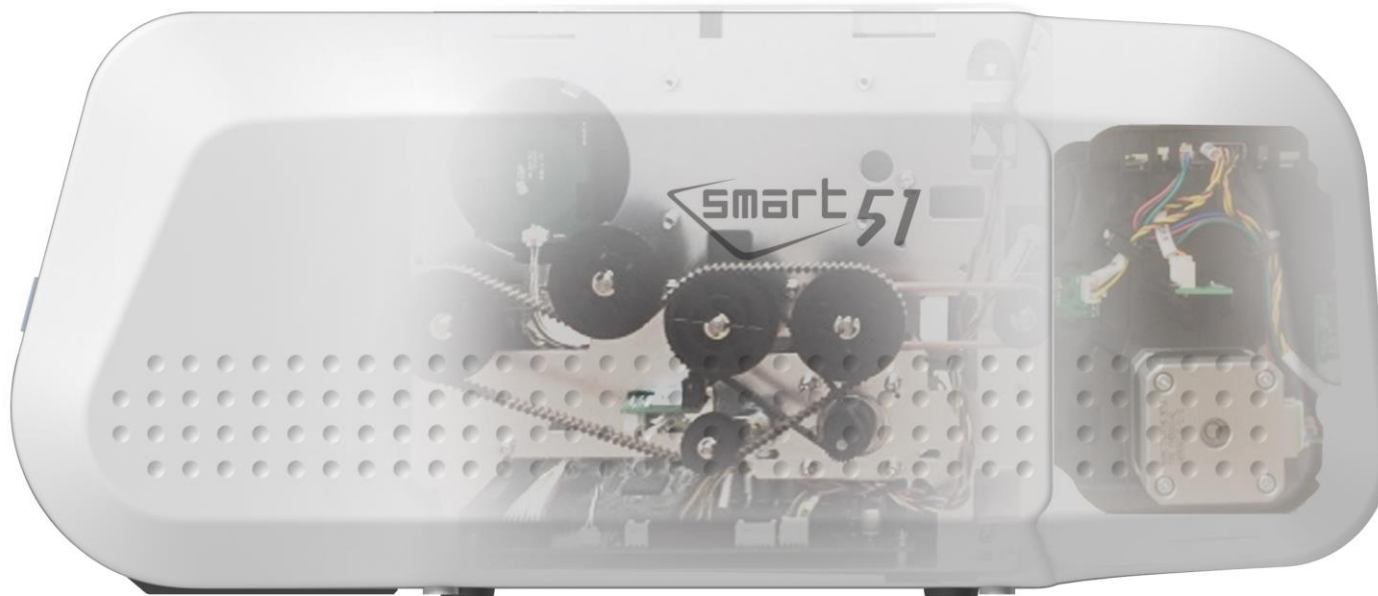
1.6 PCBs of Laminator

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1.6.2 Wired Diagram for Laminator Main Board



2. SMART-51 Printer Replacement



2.1 Printer Disassembly

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2.1.1 SMART-51S Disassembling (1)



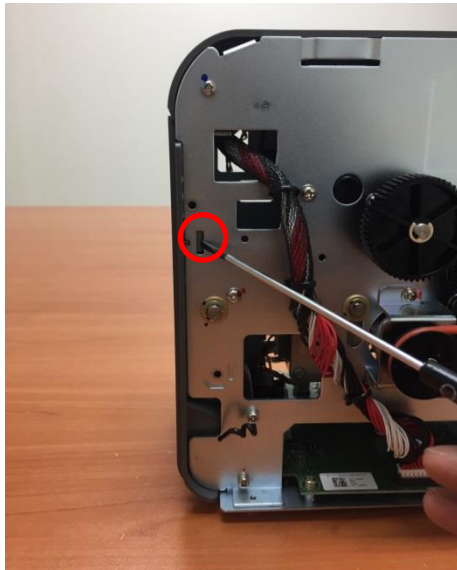
1. Unscrew total 4 screws on the base plate
2. Grip the bottom part of right/left Side Cover and pivot from upper part of right/left Side Cover.
3. After detaching the lower part of right/left Side Cover, lift it up to disassemble.



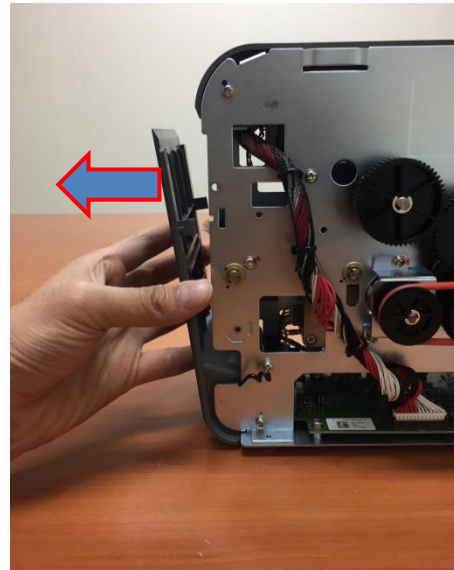
2.1 Printer Disassembly

YOUR BEST ID PRINTER PROVIDER

2.1.1 SMART-51S Disassembling (2)

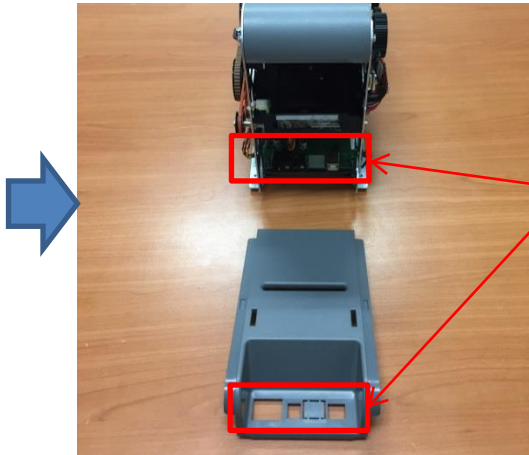


- Unlock the hook of Rear Cover



- Disassembling of Rear Cover

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

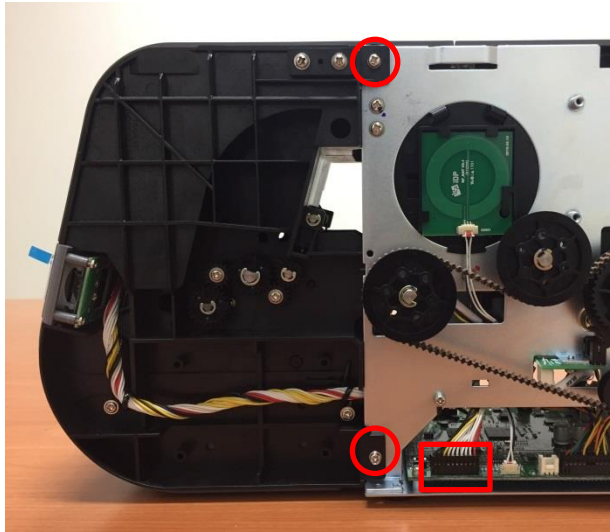


- Please match the connectors of Main B/D with the holes of rear cover

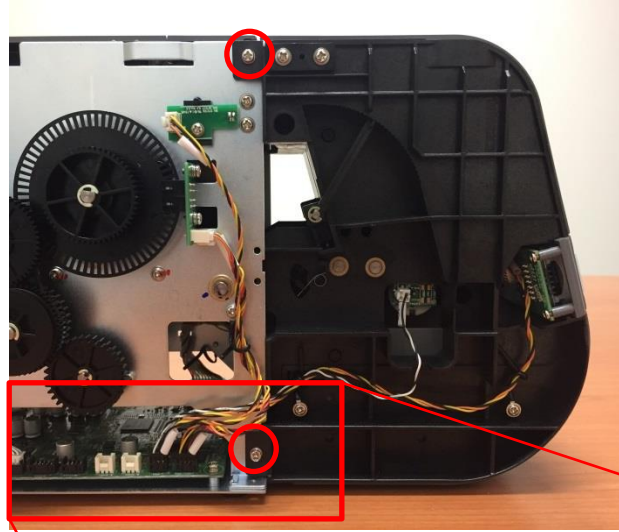
2.1 Printer Disassembly

YOUR BEST ID PRINTER PROVIDER

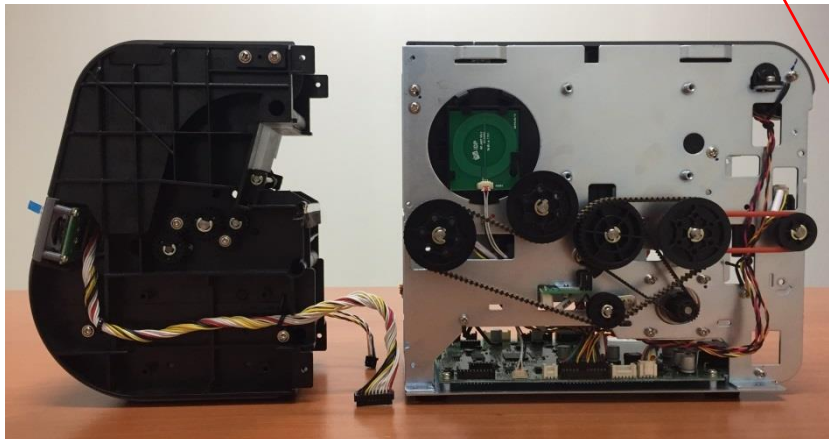
2.1.1 SMART-51S Disassembling (3)



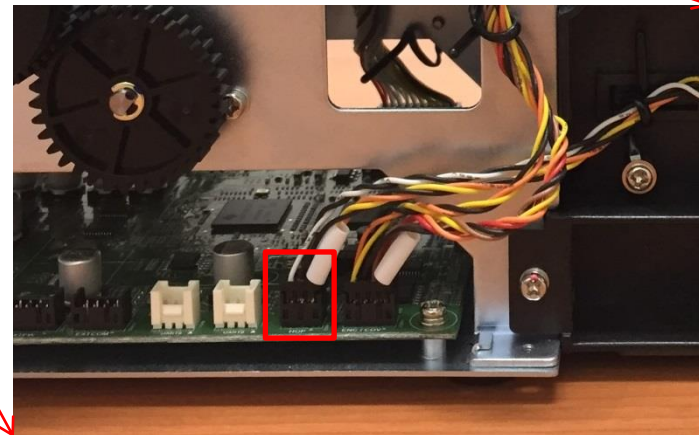
- Unscrew 2 screws/ Disconnect LCD cable



- Unscrew 2 screws / Disconnect sensor cable



- After disassembly



- Location of the connector of sensor cable

1. Unscrew the 4 fixed screws on the red circles.
2. Disconnect the cables between Hopper Module and Main B/D.
3. Disassemble Hopper Module.
4. When assembling, insert the LCD cable into the main frame of the printer body and connect it first.

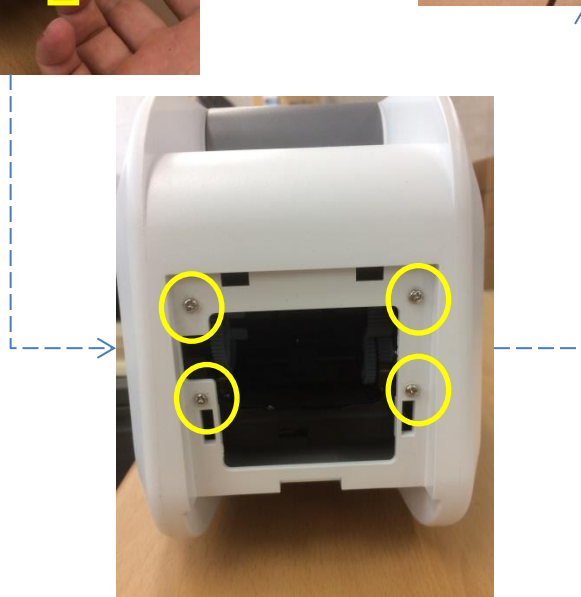
2.1 Printer Disassembly

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2.1.2 SMART-51D Disassembling (1)



1. Push the bottom side of the Flipper Back Cover and pull it. Then it is removed.
2. Unscrew the 4 Screws.
3. Disassemble Flipper Main Cover to pull in the direction of the arrow.



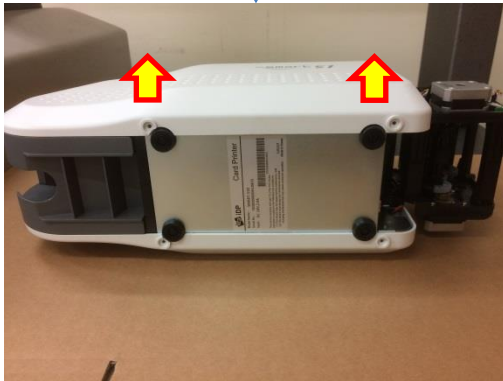
2.1 Printer Disassembly

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2.1.2 SMART-51D Disassembling (2)



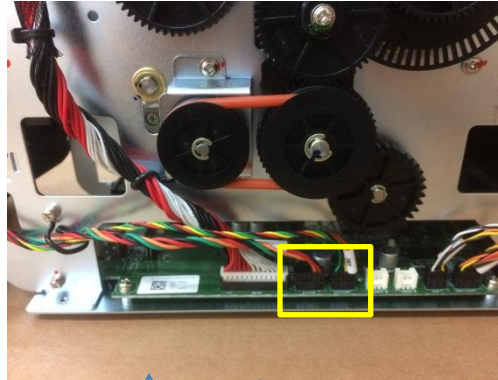
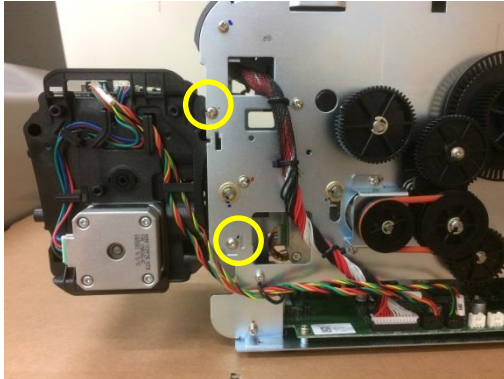
1. Unscrew total 4 screws on the base plate
2. Grip the bottom part of right/left Side Cover and pivot from upper part of right/left Side Cover.
3. After detaching the lower part of right/left Side Cover, lift it up to disassemble.



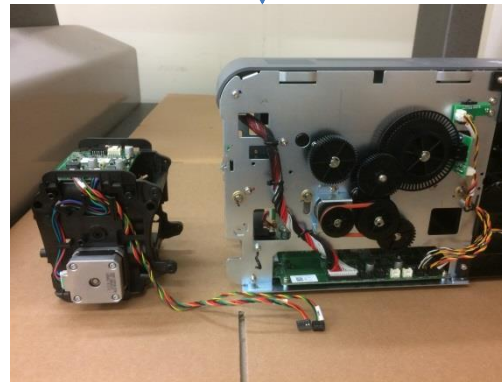
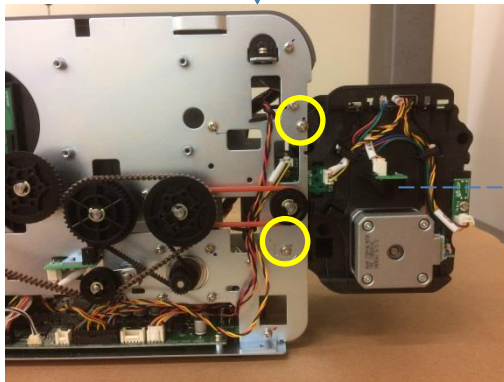
2.1 Printer Disassembly

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2.1.2 SMART-51D Disassembling (3)

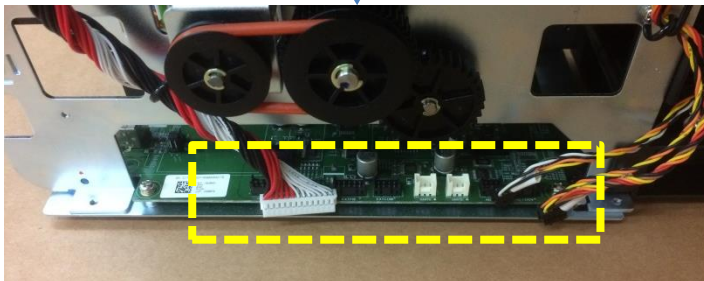
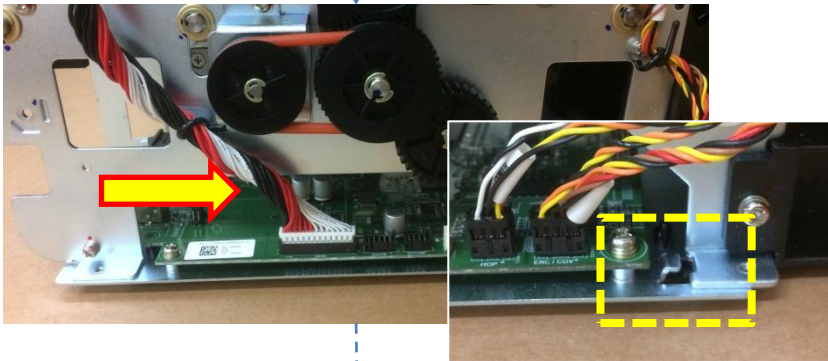
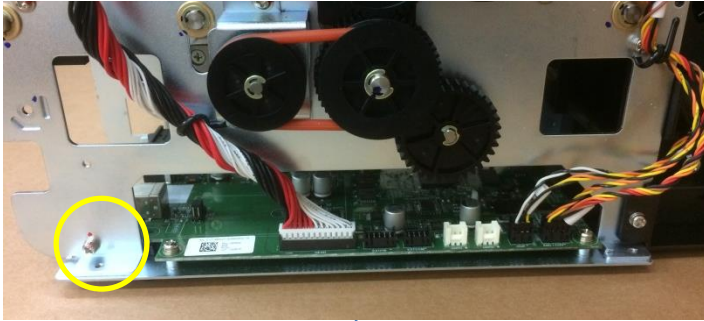


1. Unscrew the 4 screws that fix Flipper.
2. Disconnect the 2 cables between Flipper and Main B/D.
3. Disassemble Flipper.



2.2 Printer Main Board

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1. Unscrew 2 screws to fix the Base Plate in the right/left Side Plate.
2. Unhook the base plate to push the body in the direction of the arrow.
3. Disconnect the exposed all cables on the Main Board.
4. Lay down the body and disconnect the remained cables.



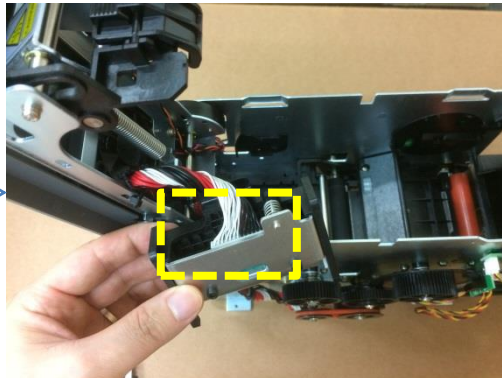
2.3 Print Head and Top Cover

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2.3.1 Print Head



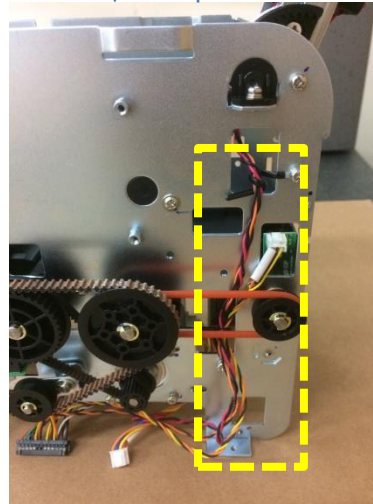
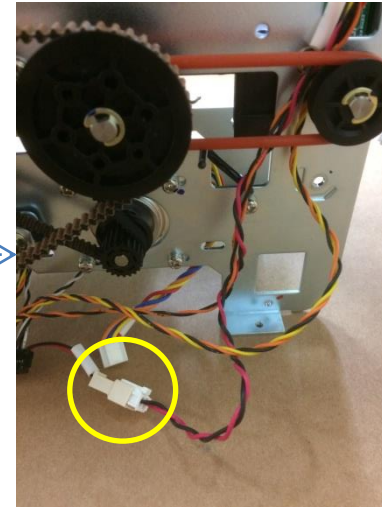
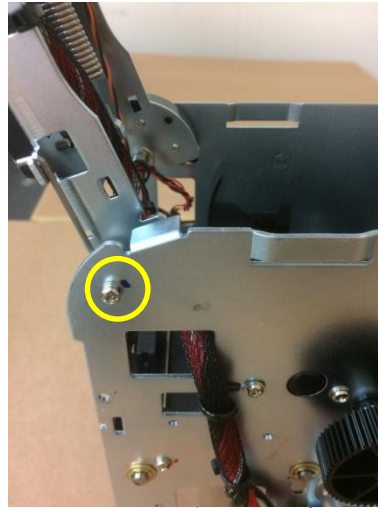
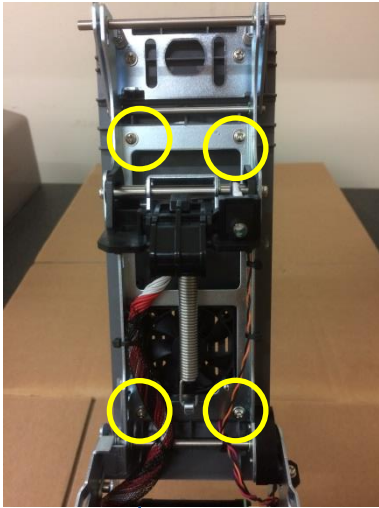
1. Press the push button of Hook, rotate the Print Head to the bottom side.
2. Disconnect the Print Head cable.



2.3 Print Head and Top Cover

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2.3.2 Printer Top Cover (1)

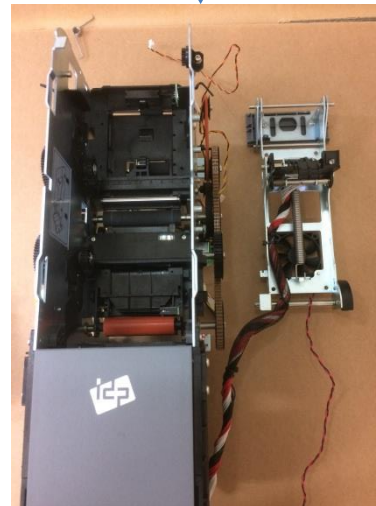
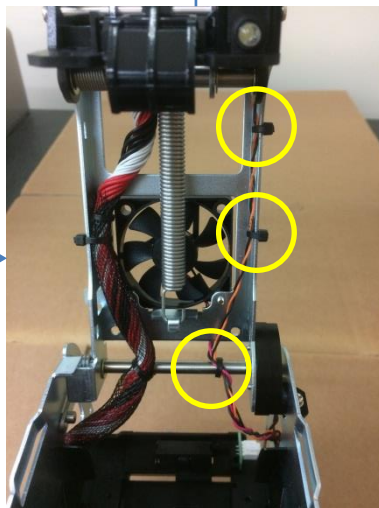
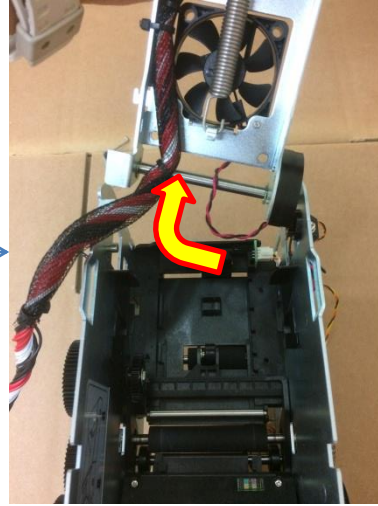


3. Unscrew 4 screws which fix the Top Cover.
4. Unscrew 2 screws which fix the Shaft.
5. Arrange the cables and disconnect it.

2.3 Print Head and Top Cover

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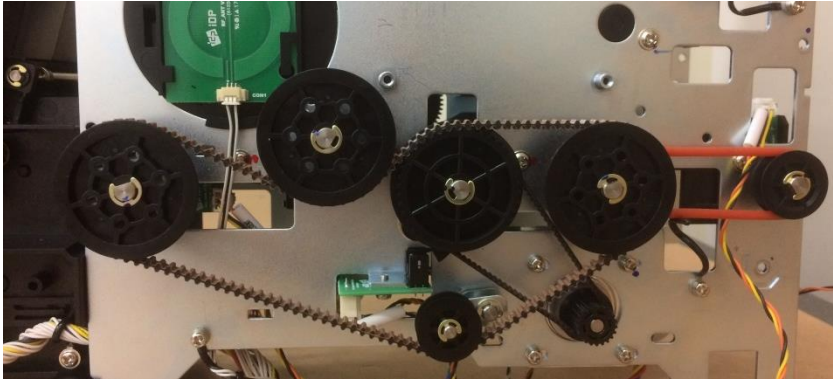
2.3.2 Printer Top Cover (2)



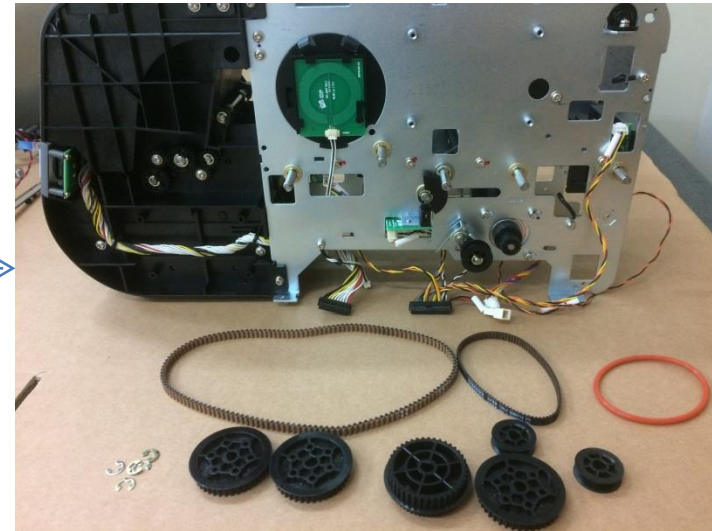
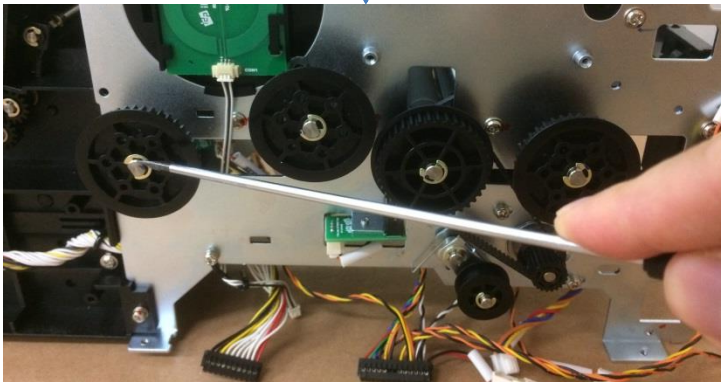
6. Disconnect the connector of Color-In sensor.
7. Remove the 3 cable ties.
8. Disassemble the Head Assy. to pull in the direction of the arrow.

2.4 Printer Belts / Pulleys

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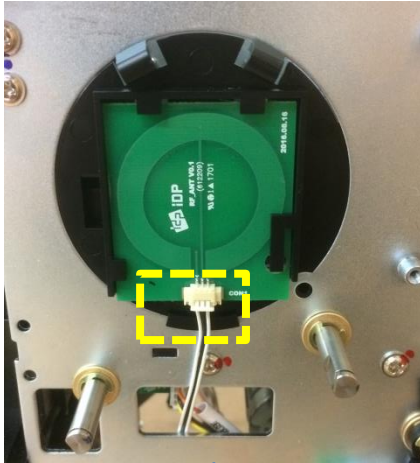


1. Remove the belts of the right side of the Printer.
2. Remove the E-rings and disassemble the pulleys.

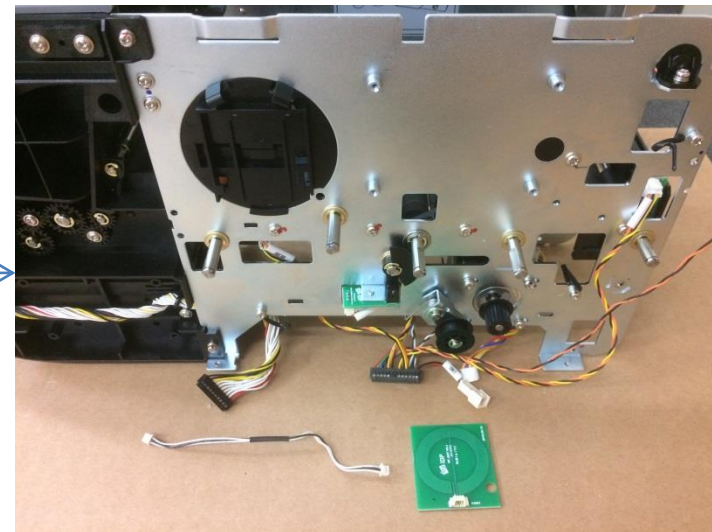
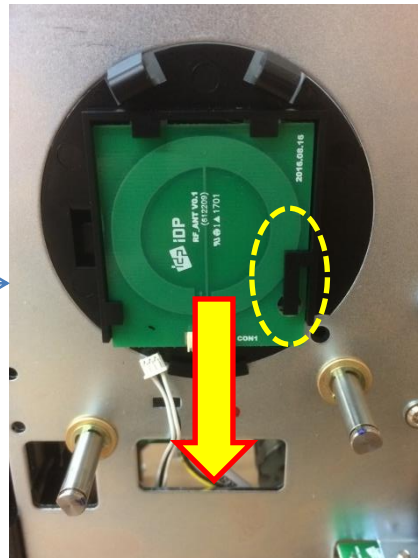


2.5 Ribbon RF Board

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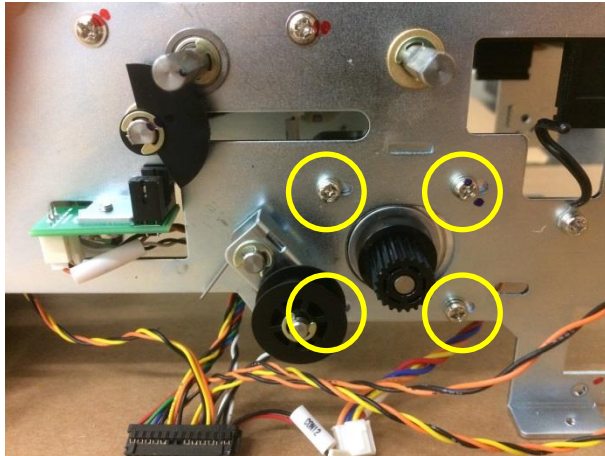
1. Disconnect the cable in the Ribbon RF Board.
2. Disassemble the Ribbon RF Board by pulling it in the direction of the arrow after lift up the hook to fix it.



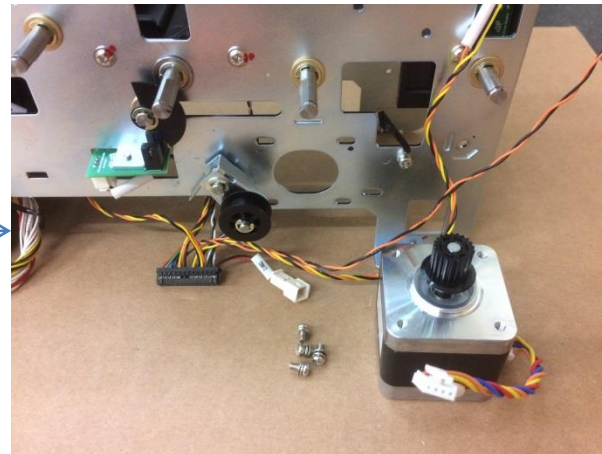
2.6 Printer Motors

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2.6.1 Main Step Motor



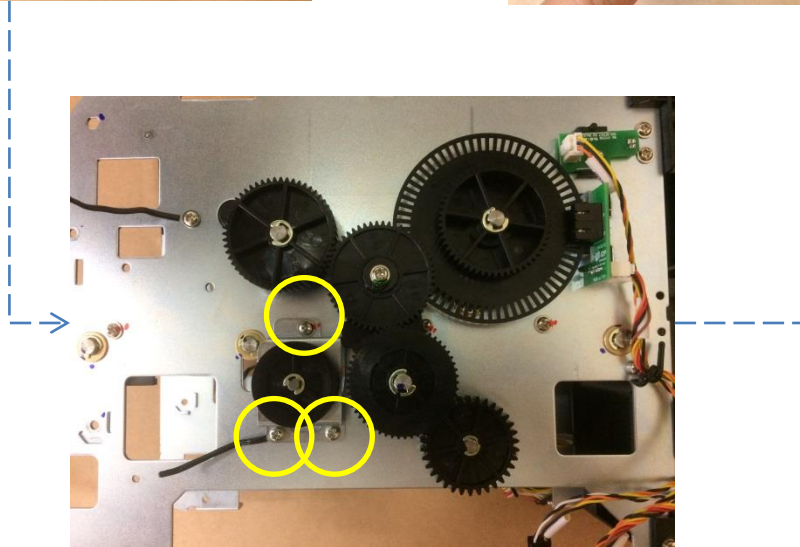
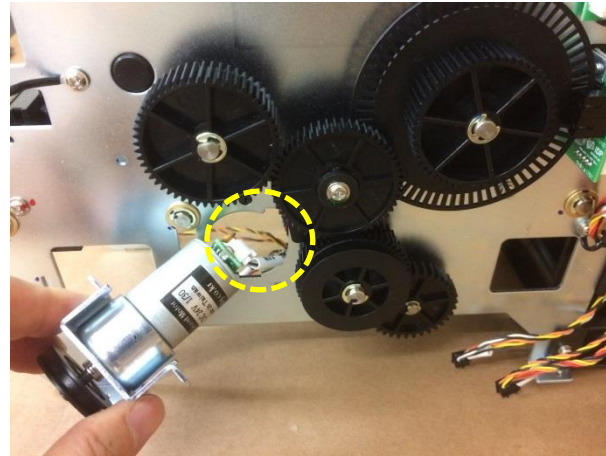
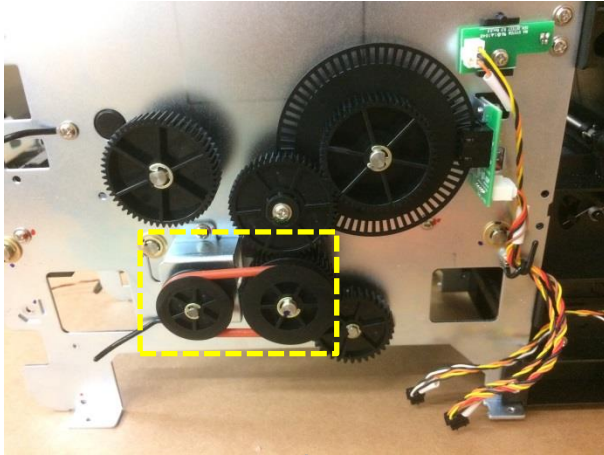
1. Disassemble the Main Step Motor by unscrewing a 4 screws.



2.6 Printer Motors

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2.6.2 Ribbon Motor

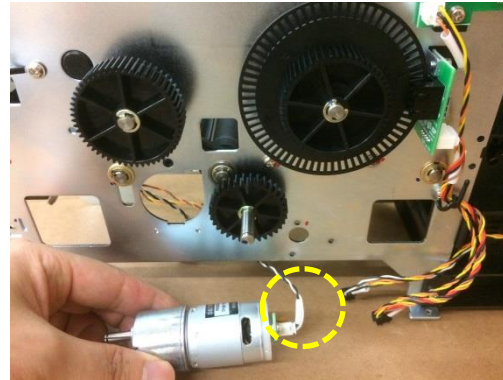
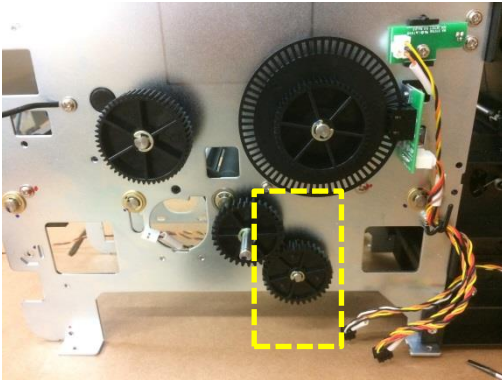


2. Remove the ribbon belt in the left side of the Printer
3. Unscrew the 3 screws which fix the Ribbon motor assy.
4. Disconnect the cable in the Ribbon Motor.

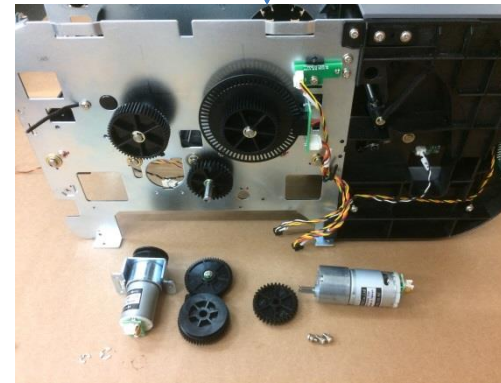
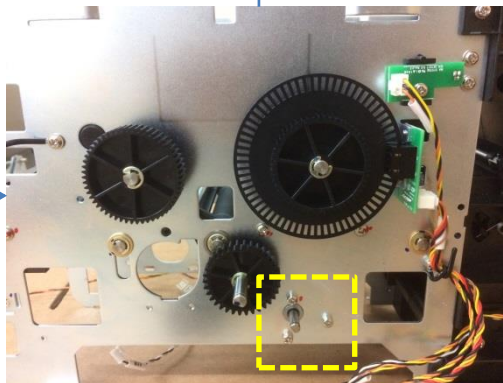
2.6 Printer Motors

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2.6.3 Head Up/Down Motor

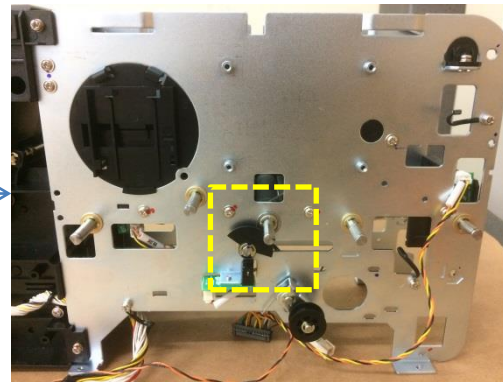
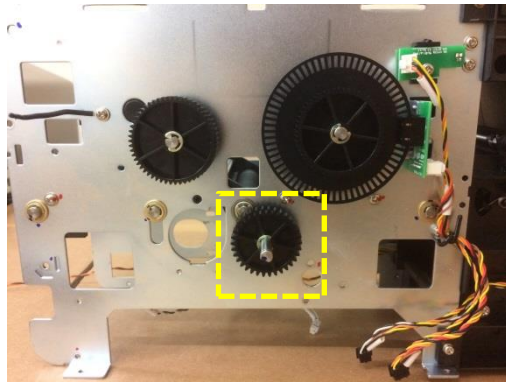


5. After disassembling a Swing Gear and removing a E-ring of Head U/D Motor pulley, disassemble the pulley.
6. Unscrew the 3 screws to fix the Head U/D Motor.
7. Disconnect the cable in the Head H/D Motor.

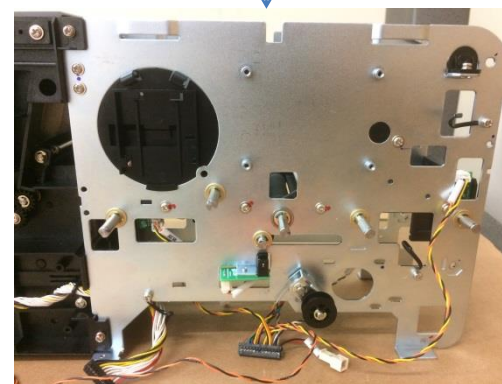
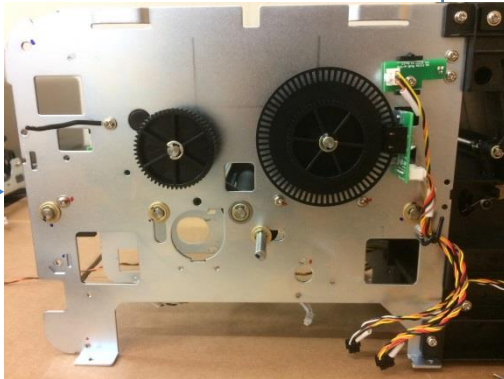


2.7 Printer Rollers / Cam Shaft

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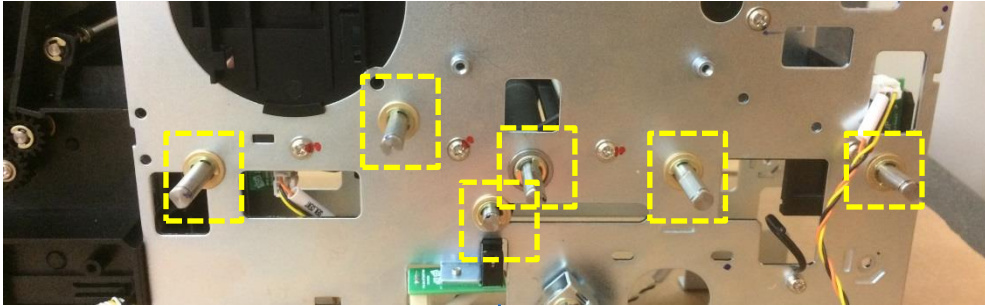


1. Disassemble the gear in the Head U/D shaft in the left side of the Printer.
2. Disassemble the bracket in the Head U/D shaft in the right side of the Printer.



2.7 Printer Rollers / Cam Shaft

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3. Disassemble the 6 E-rings and 6 Bearings to fix the rollers and cam shaft.



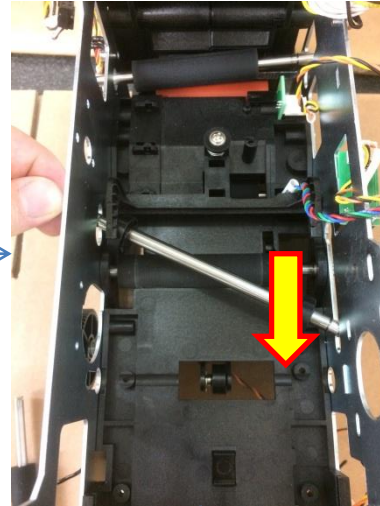
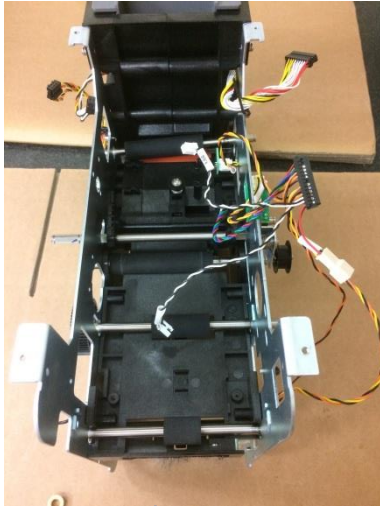
**Left side of
the Printer**



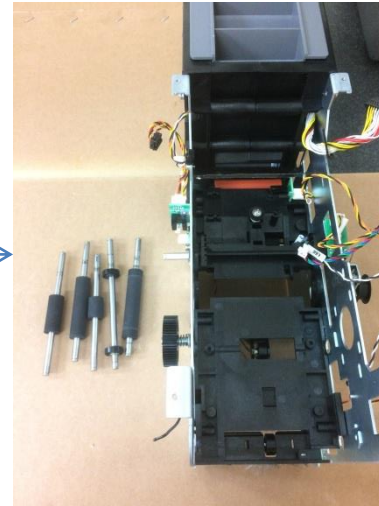
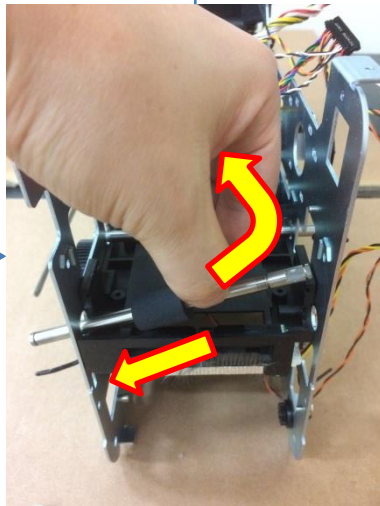
**Right side of
the Printer**

2.7 Printer Rollers / Cam Shaft

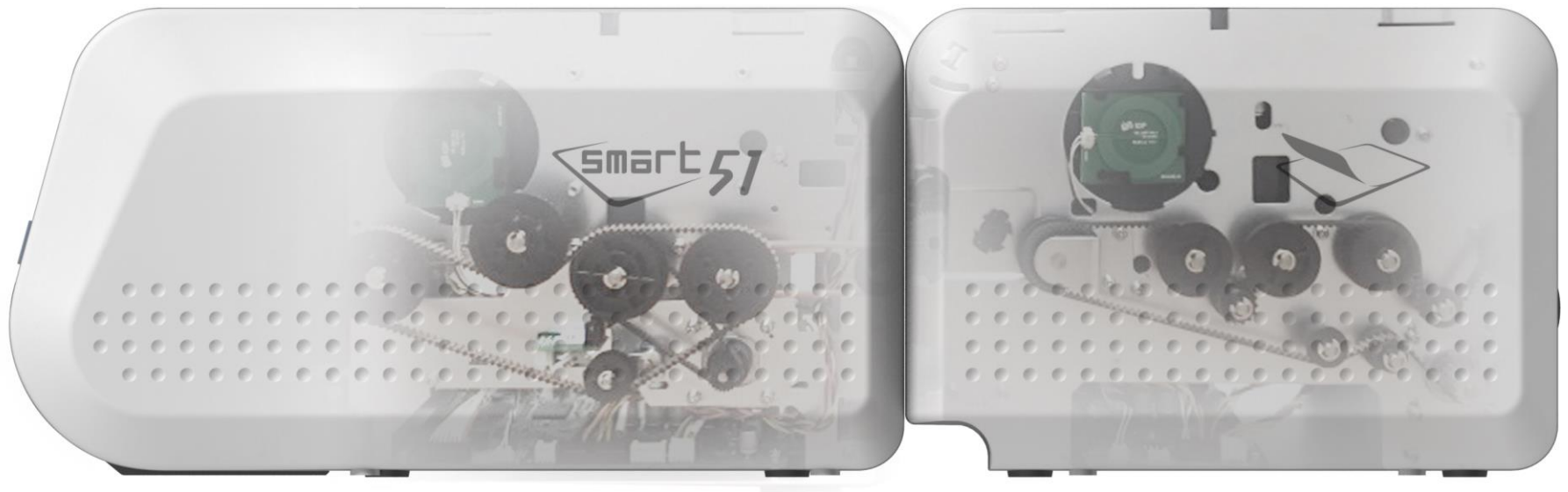
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4. Flip the body of the Printer.
5. Disassemble the rollers and shafts by pushing them in the direction of the arrow and pulling it except the Head U/D shaft.
6. Disassemble the Head U/D Shaft by pushing it in the direction of the arrow.



3. SMART-51 Laminator Replacement



3.1 Laminator Disassembly

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3.1.1 Side Cover of Printer/Laminator

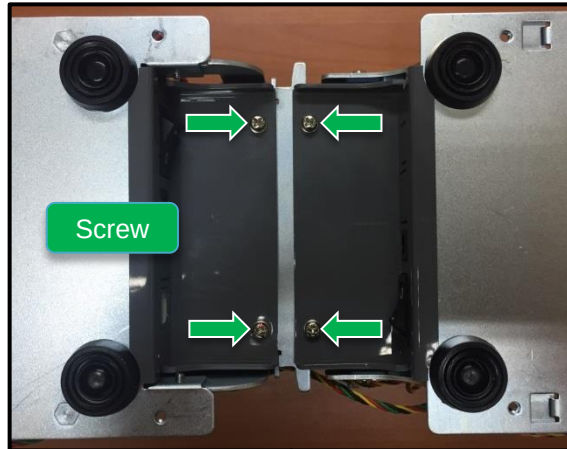


1. Unscrew total 8 screws on the base plate of printer and laminator.
2. Grip the bottom part of right/left Side Cover and pivot from upper part of right/left Side Cover.
3. After detaching the lower part of right/left Side Cover, lift it up to disassemble.
4. Disassemble the 4 side covers in the same way.

3.1 Laminator Disassembly

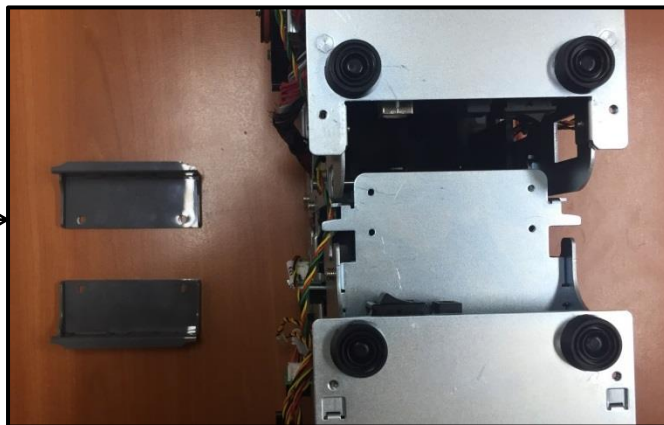
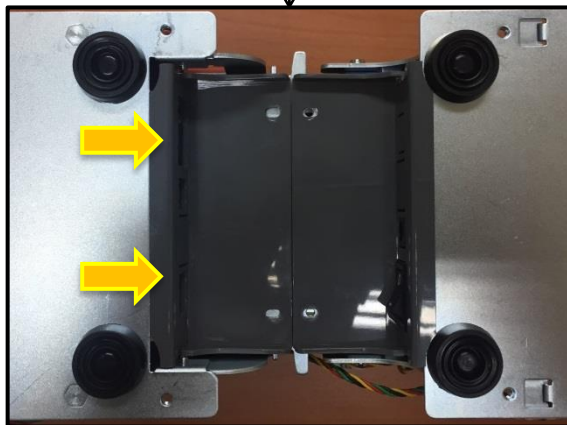
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3.1.2 Connector Cover



5. Unscrew the 4 screws in the 2 Connector Covers.

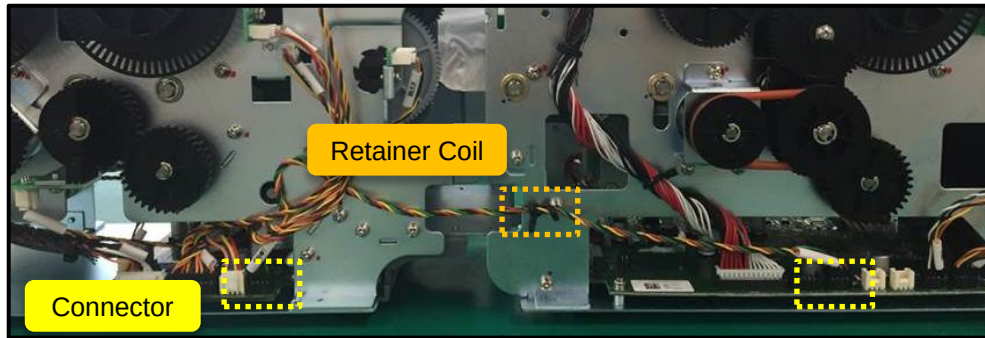
6. Disassemble Connector Covers by pushing them to the opposite side of printer and laminator.



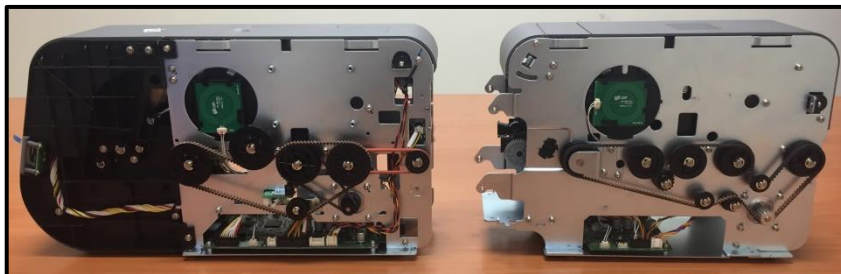
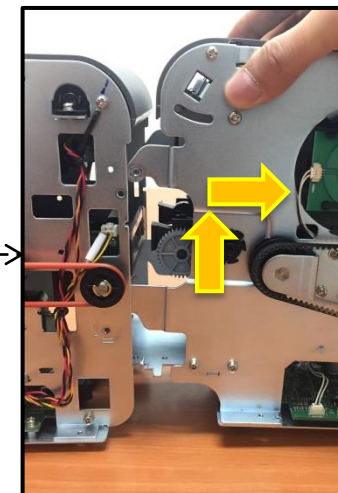
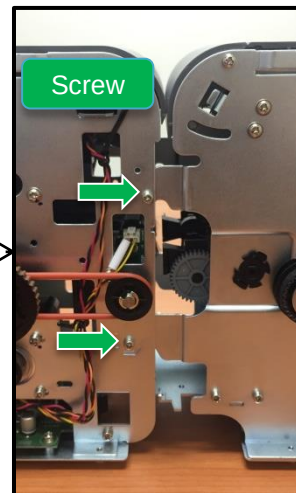
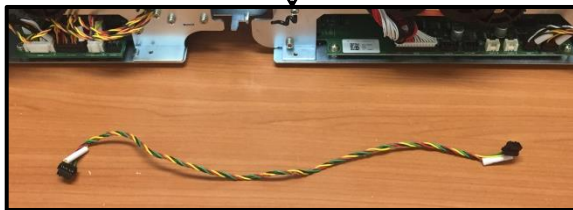
3.1 Laminator Disassembly

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3.1.3 Link Cable

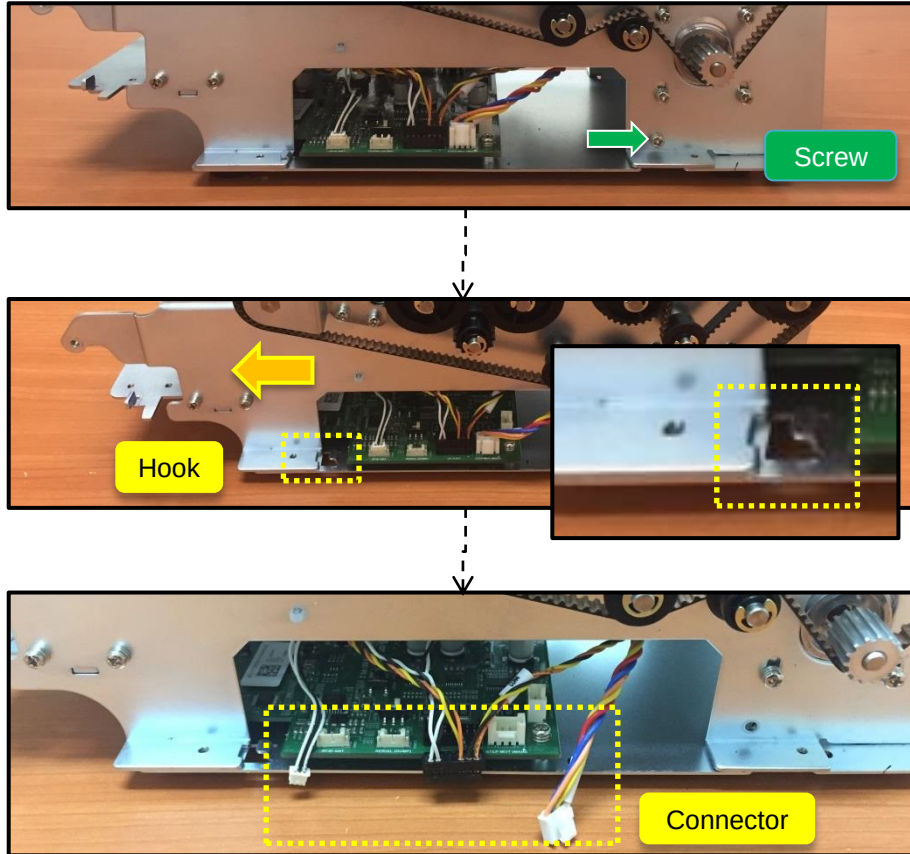


7. Disconnect the connectors after untying a retainer coil.
8. Unscrew the 4 screws that is fixed the printer and laminator.
9. Disassemble lower set point by lifting up the laminator module.

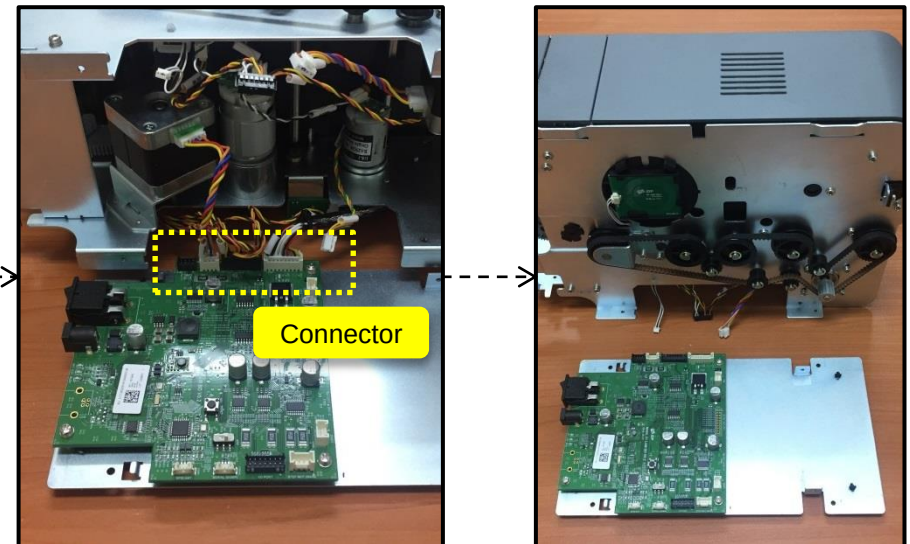


3.2 Laminator Main Board

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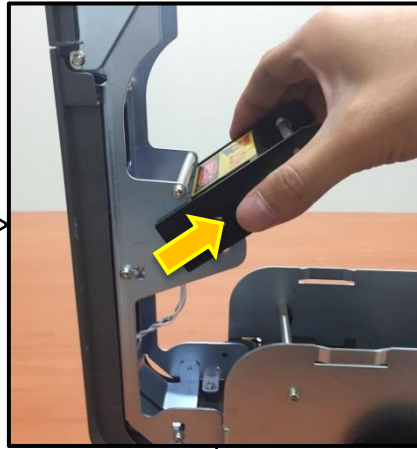
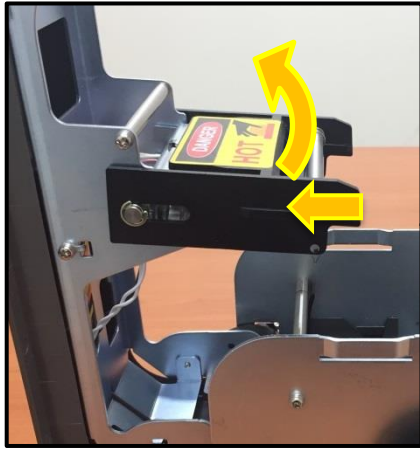
1. Unscrew 2 screws to fix the Base Plate in the right/left Side Plate.
2. Unhook the Base Plate to push the body in the direction of the arrow.
3. Disconnect the exposed all cables on the Main Board.
4. Lay down the body and disconnect the remained cables.



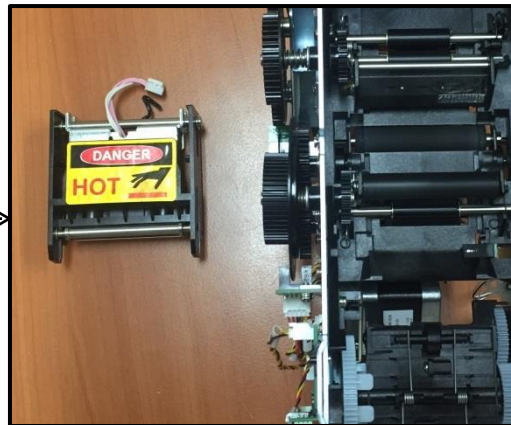
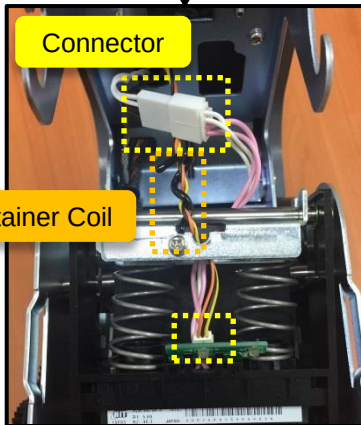
3.3 Laminator Head and Top Cover

YOUR BEST ID PRINTER PROVIDER

3.3.1 Laminator Head



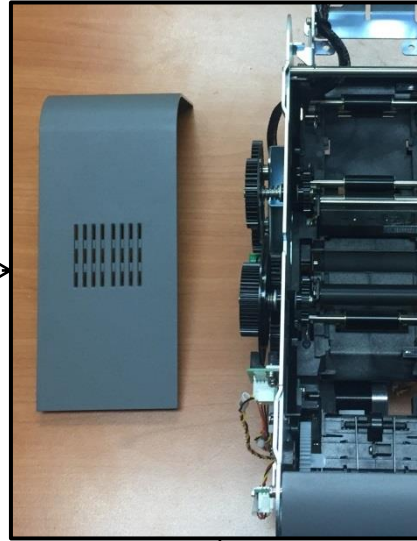
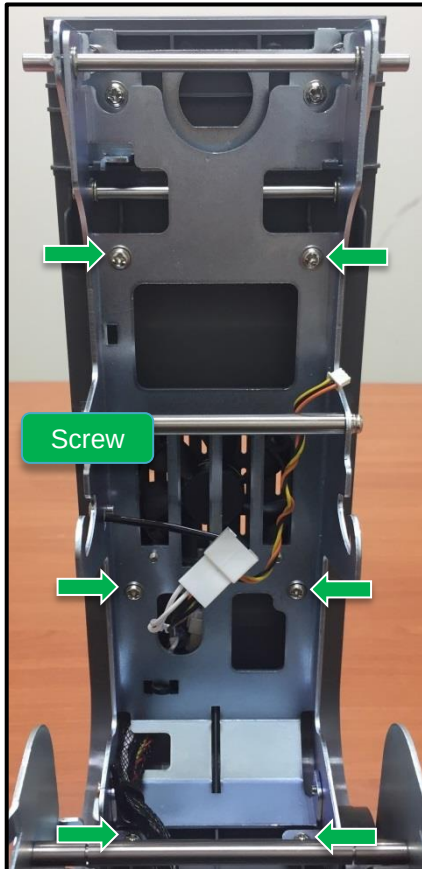
1. Open the Laminator Top Cover.
2. Push the Laminator Head inside Top Cover deeply and lift it up to disassemble.
3. Rotate the Laminator Head, untie the retainer coil and disconnect the cables.



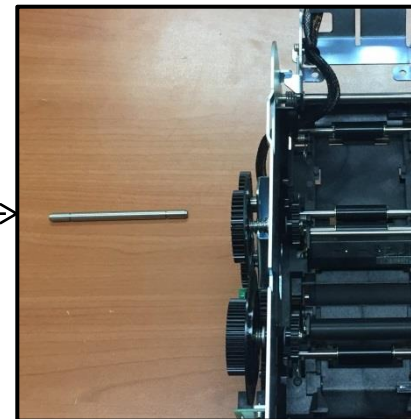
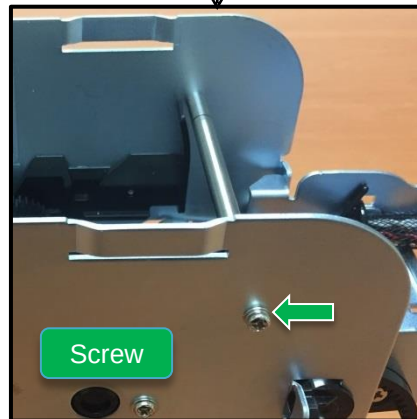
3.3 Laminating Head and Top Cover

YOUR BEST ID PRINTER PROVIDER

3.3.2 Laminator Top Cover (1)



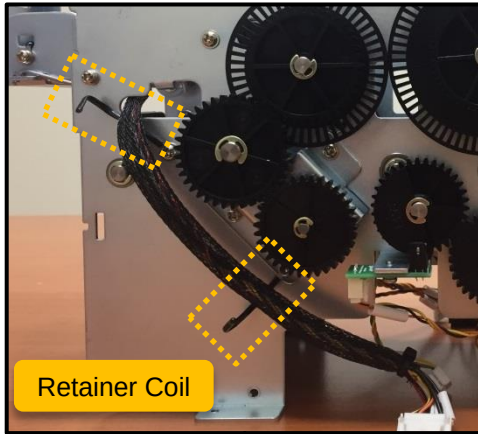
1. Unscrew the 6 screws in order to disassemble the Top Cover.
2. Unscrew the 2 screws that is fixed the shaft and remove the shaft.



3.3 Laminating Head and Top Cover

YOUR BEST ID PRINTER PROVIDER

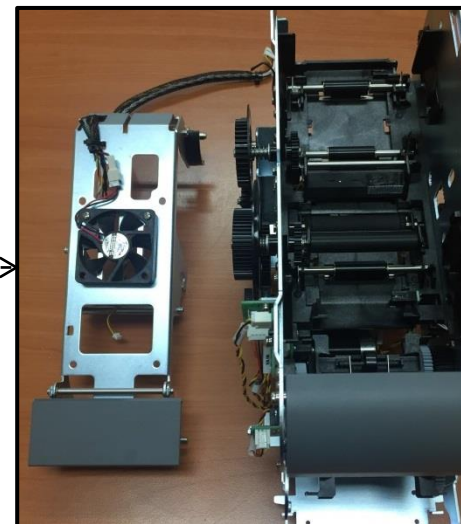
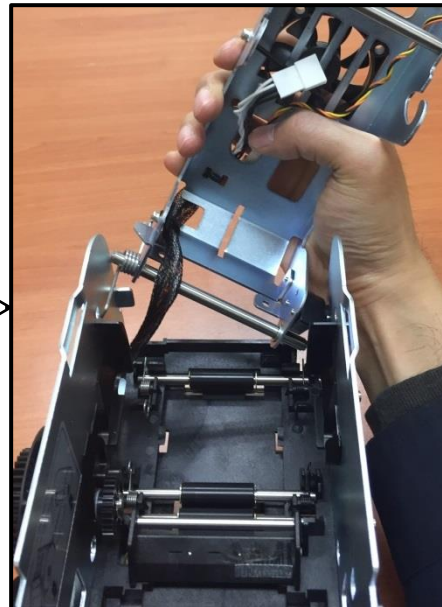
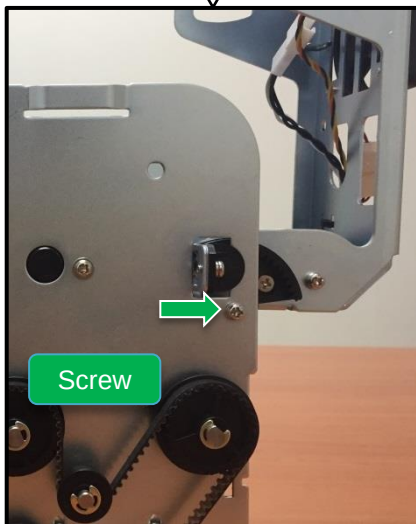
3.3.2 Laminator Top Cover (2)



3. Untie 2 retainer coils that is fixed the cable.

4. Remove the 2 screws that is fixed the Top Cover Assy.

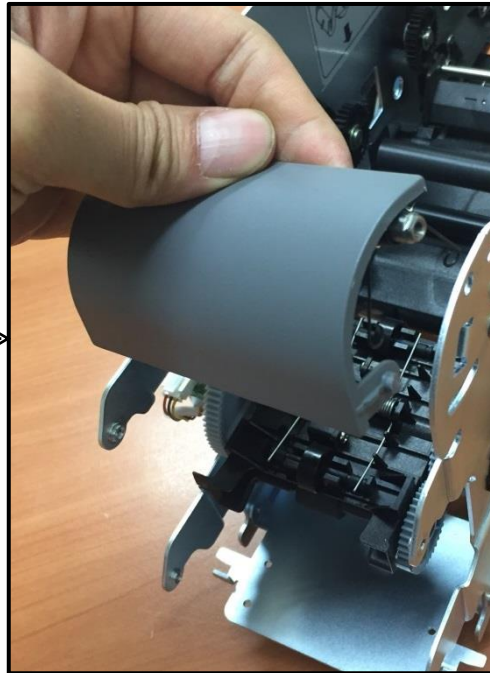
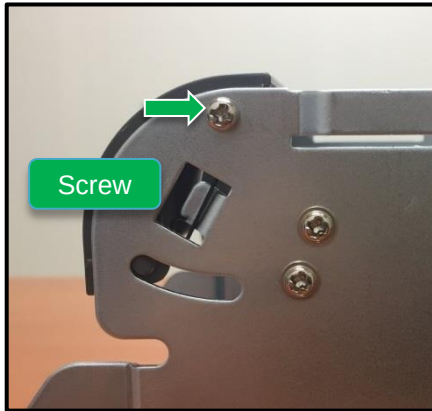
5. Broaden the gap of the both main plates and disassemble the Top Cover Assy. with a cable.



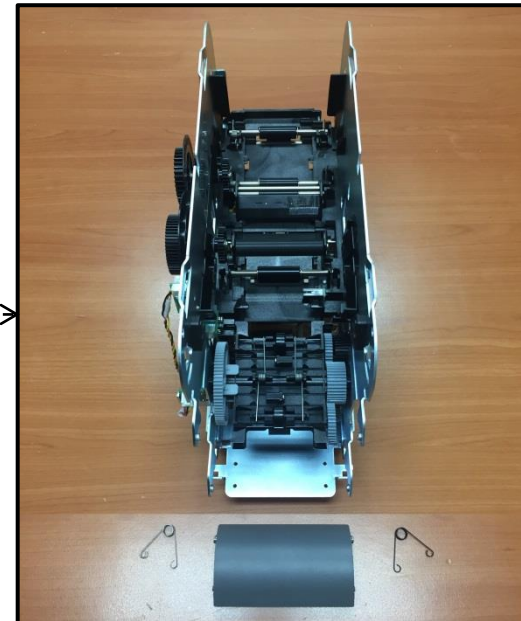
3.3 Laminating Head and Top Cover

YOUR BEST ID PRINTER PROVIDER

3.3.2 Laminator Top Cover (3)

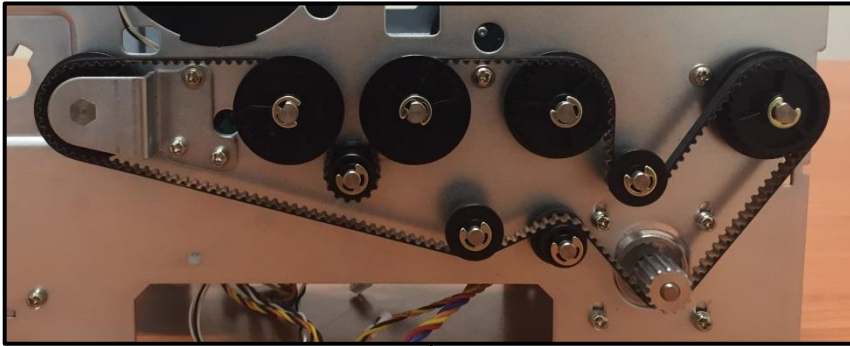


6. Unscrew the 2 screws in the Front Cover.
7. Broaden the gap of the both main plate and disassemble the Front Cover.
8. Please keep the 2 springs safe.

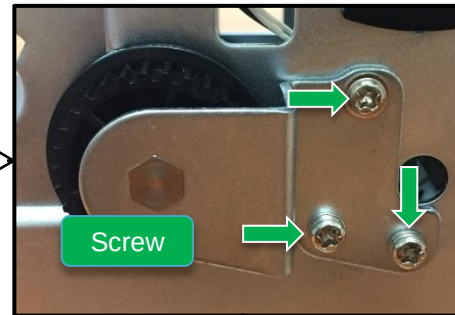
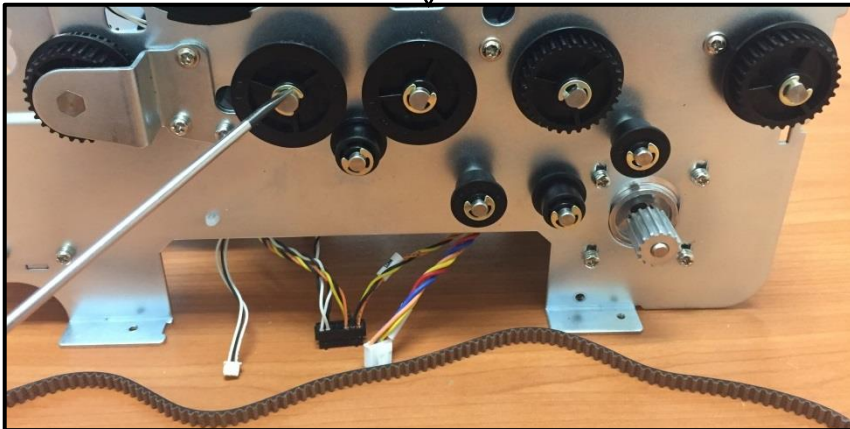


3.4 Laminator Belts / Pulleys

YOUR BEST ID PRINTER PROVIDER

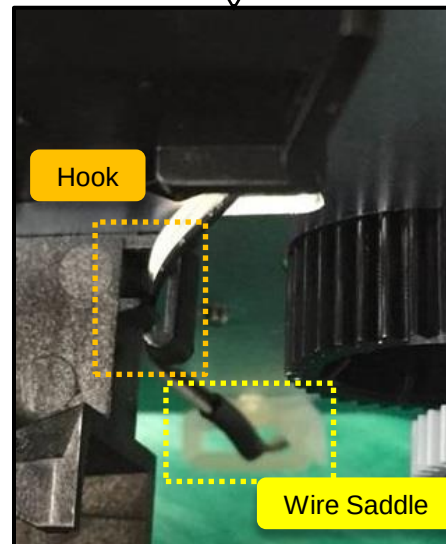
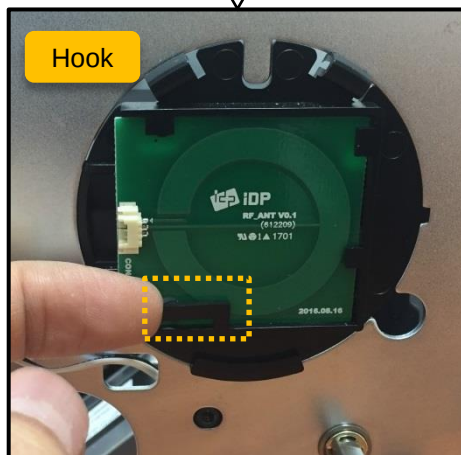
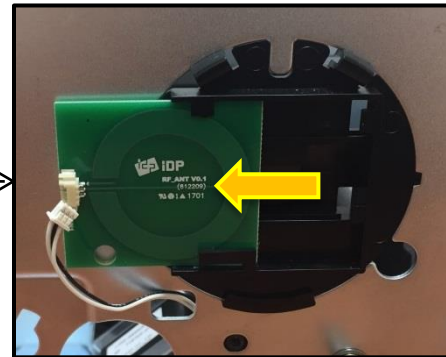
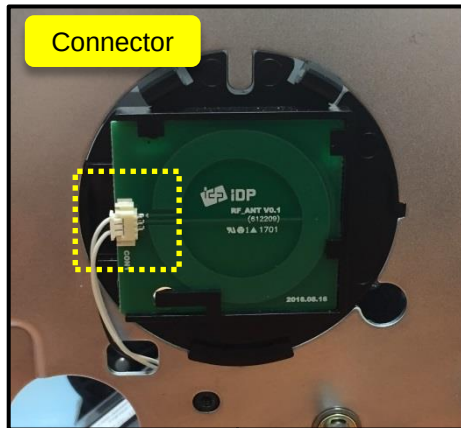


1. Remove the belts of the right side of the Printer.
2. Remove the E-rings.
3. Unscrew 3 screws fixed pulley and disassemble the pulleys.



3.5 Patch RF Board

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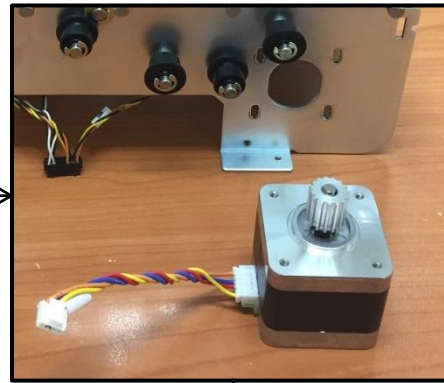
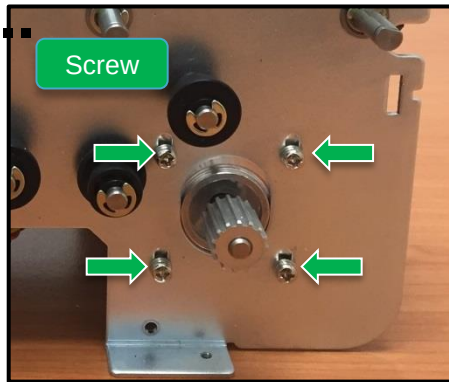


1. Disconnect the cable in the Ribbon RF Board.
2. Disassemble the Ribbon RF Board by pulling it in the direction of the arrow after lift up the hook to fix it.
3. Disassemble the cable fixed in the hook inside the main plate and wire saddle.

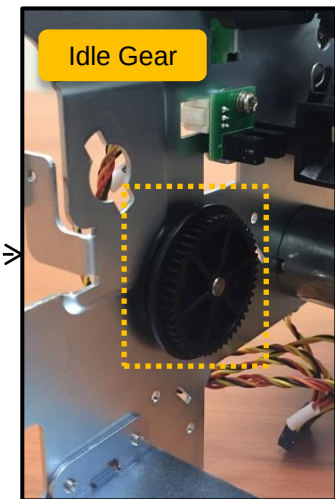
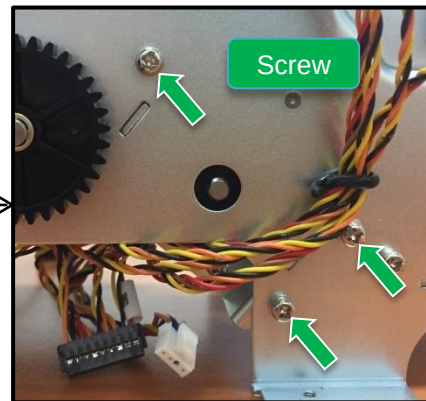
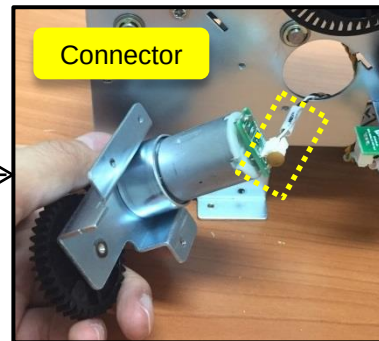
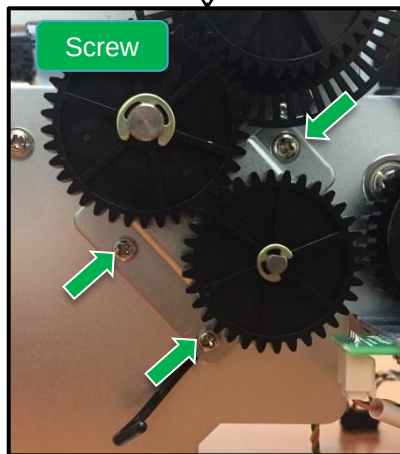


3.6 Laminator Motors

3.6.1 Laminator Step Motor / Laminator Ribbon Motor



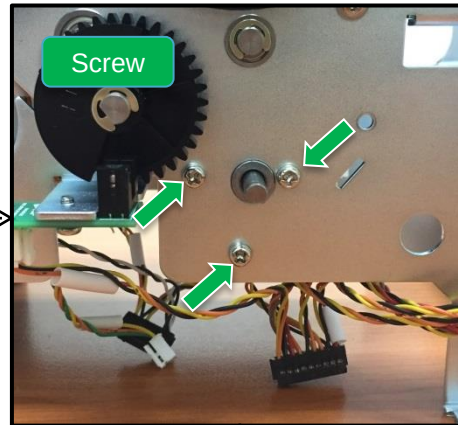
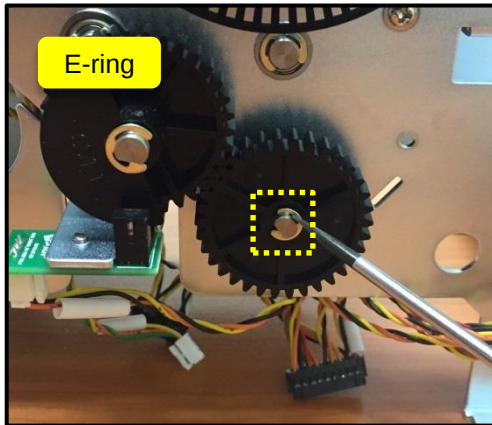
1. Unscrew 4 screws fixed the Laminator Step Motor.
 2. Disassemble the Ribbon Motor Assy. and Flipper Step Motor Assy. after unscrewing the screws in the left side plate.
- ❖ Flipper Idle Gear is disassembled if Ribbon Motor Assy. and Flipper Step Motor Assy.



3.6 Laminator Motors

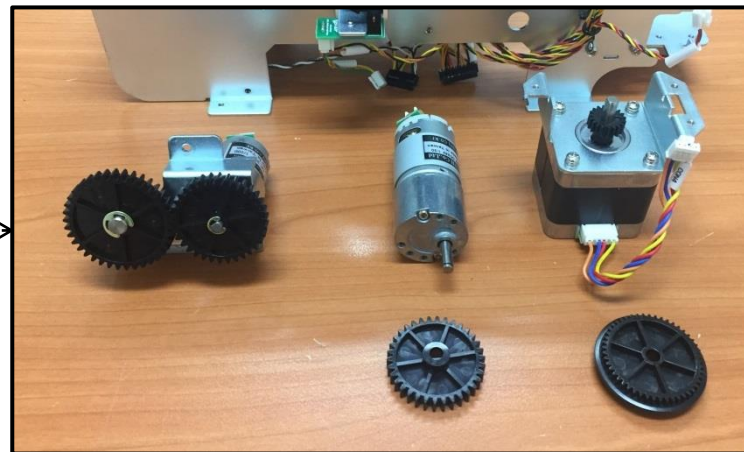
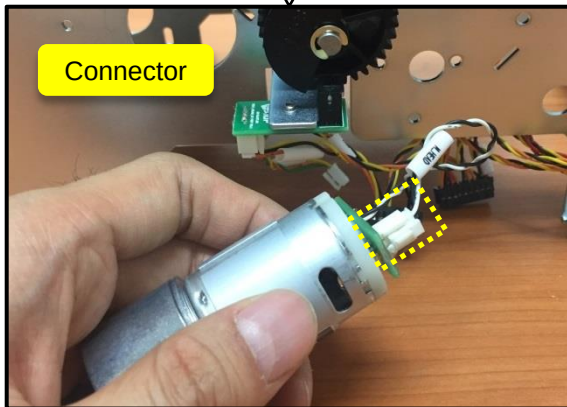
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3.6.2 Head Up/Down Motor



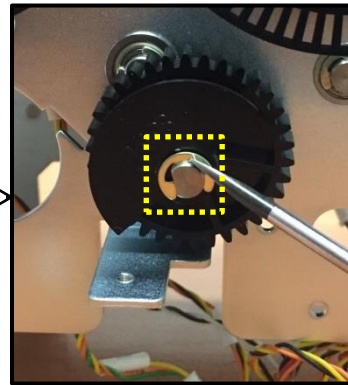
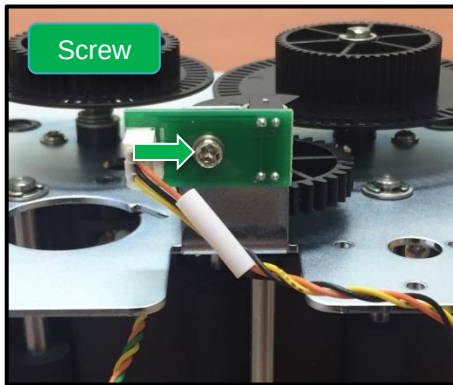
3. Remove the E-ring and Head U/D gear.

4. Unscrew 3 screws and disassemble the Head U/D Motor.



3.7 Laminator Rollers / Cam Shaft

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1. Disassemble the Head U/D sensor, cam and Head U/D gear.
2. Remove the 5 E-rings, bearings and metal bushes.

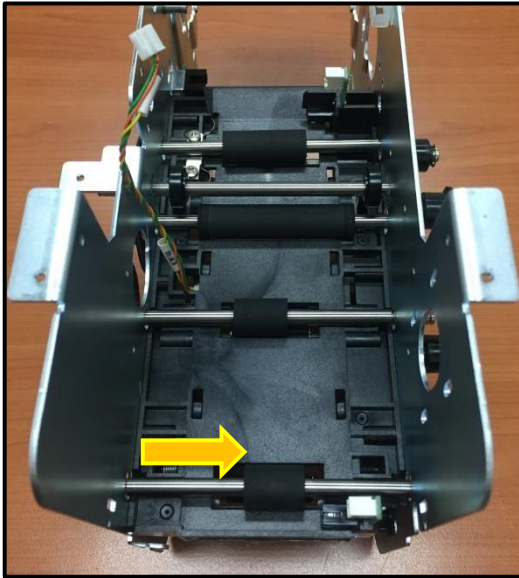


E-ring
/ Bearing

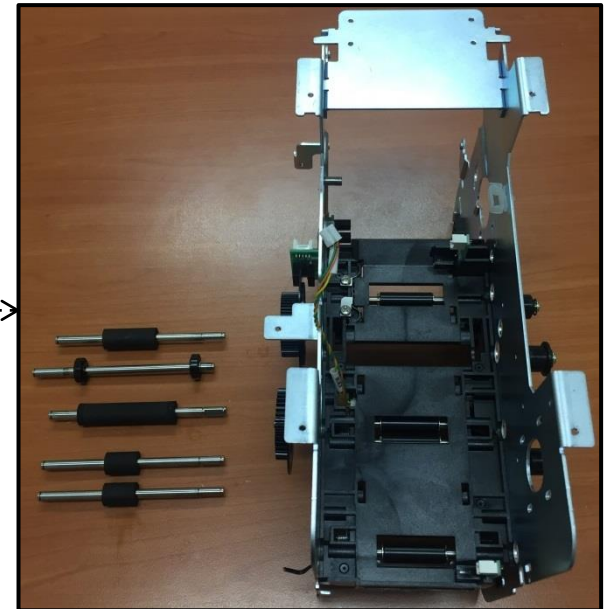
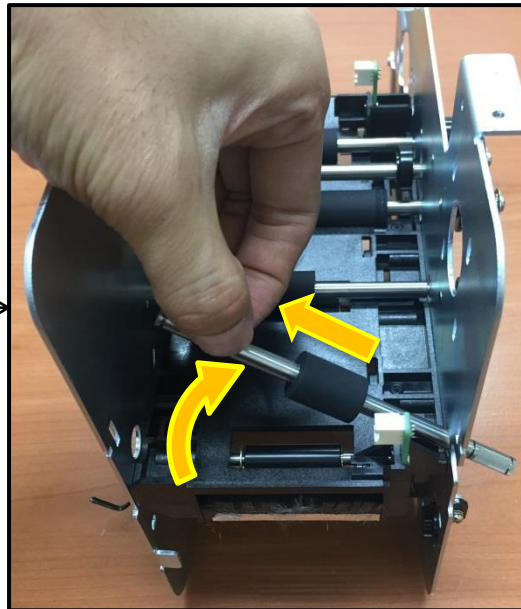


3.7 Laminator Rollers / Cam Shaft

YOUR BEST ID PRINTER PROVIDER

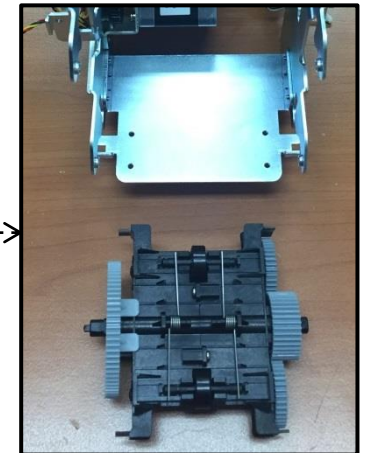
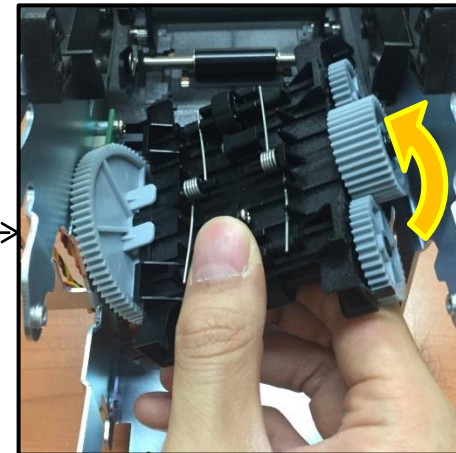
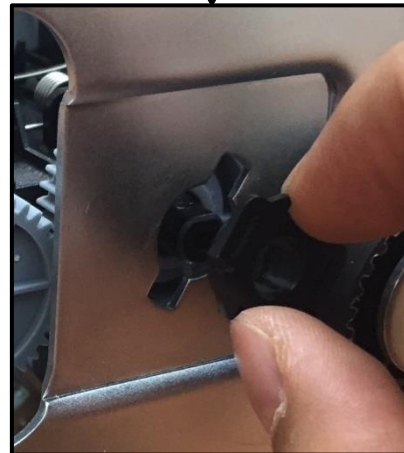
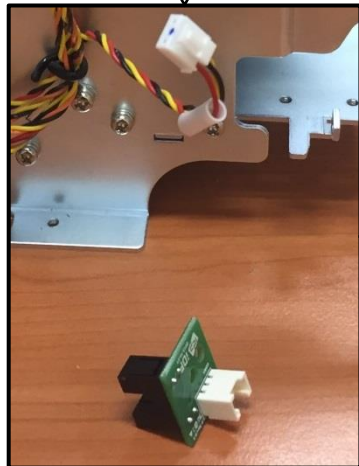
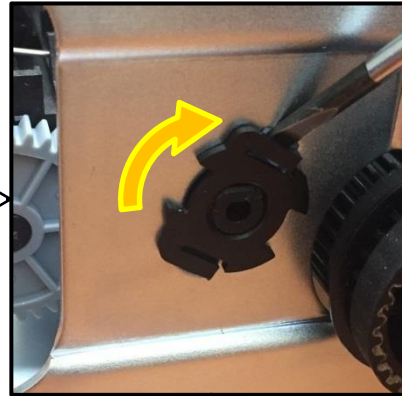
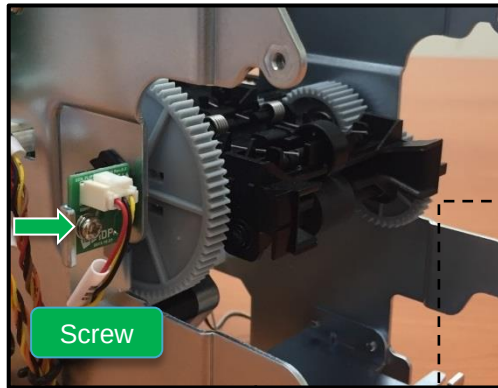


3. Flip the body of the Printer.
4. Disassemble the rollers and shafts by pushing them in the direction of the arrow and pulling it out.



3.8 Laminator Flipper Unit

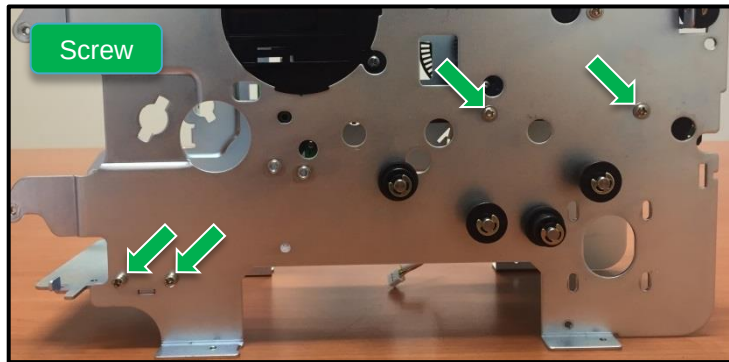
YOUR BEST ID PRINTER PROVIDER



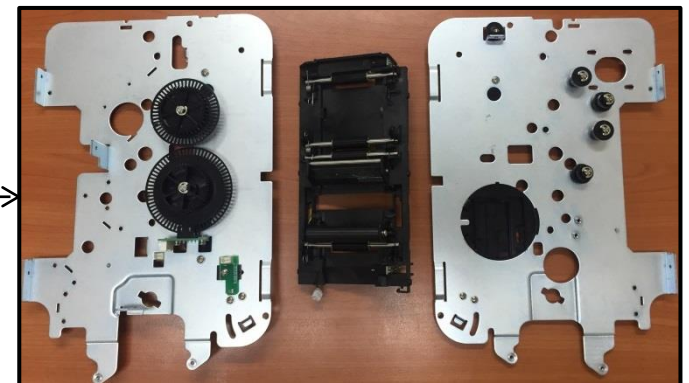
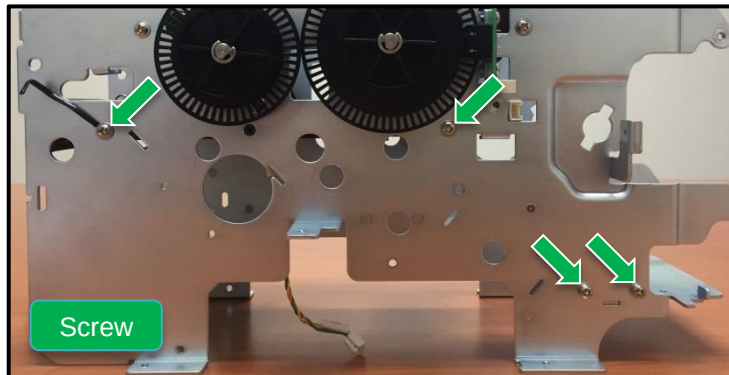
1. Disassemble the Flipper Position Sensor in the left side plate by unscrewing the screw.
2. Lift up the flipper Mold Bush by screw driver, rotate it by 90 degrees and disassemble it.
3. Push the Flipper Unit to the left Side Plate and Lift up the right part of the Flipper Unit.

3.9 Laminator Main Guide / Side Plate

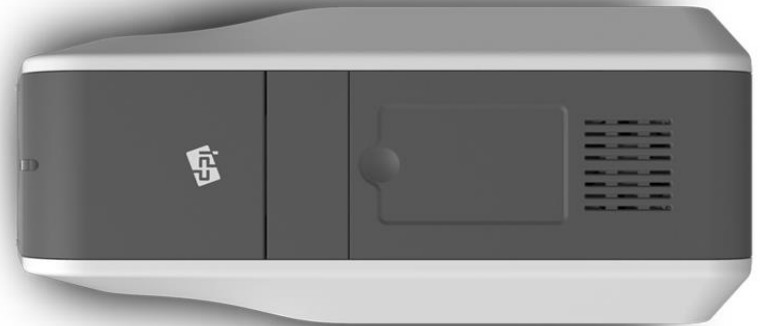
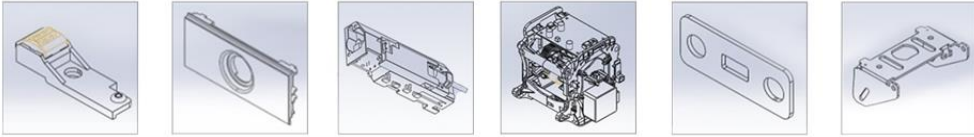
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1. Unscrew 4 screws that is fixed the bottom Connector Plate and Main Guide in the right/left side plate.
2. Disassemble the Main Guide Assy. and Side Plates.



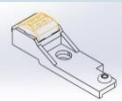
4. SMART-51 Option Placement & Wiring



4.1 Lower MS

YOUR BEST ID PRINTER PROVIDER

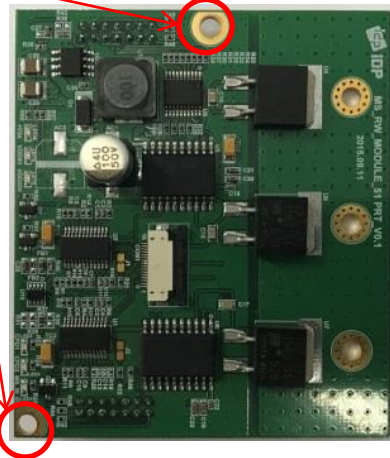
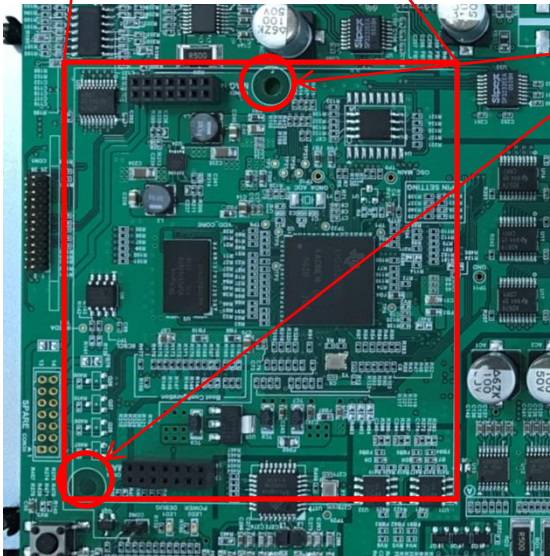
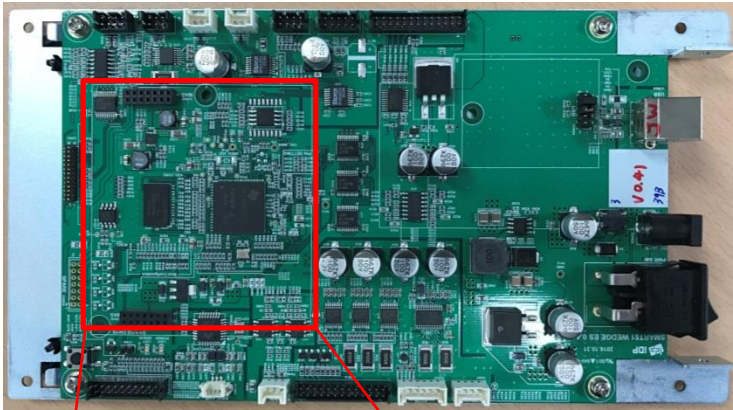
(#651356 SP S51 MAGNETIC_ENCODER_ISO)

No.	Fig.	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	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

4.1 Lower MS

YOUR BEST ID PRINTER PROVIDER

1. Disassemble the Main B/D Module as the left picture.
2. Fix the lock spacer (#612275) to fix the Option in the 2 holes.
3. Assemble the MS Option PCB on the lock spacer with a audible click.
4. The installed picture is as below picture.

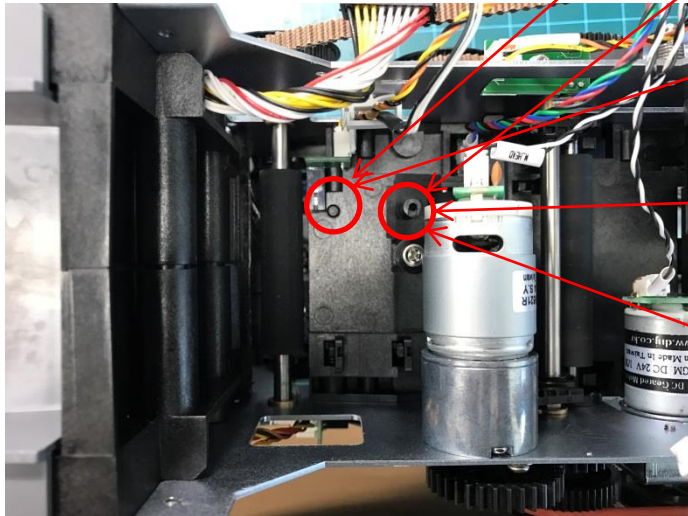


4.1 Lower MS

YOUR BEST ID PRINTER PROVIDER



5. Connect the FFC cable (#610146) and MS Head as the left picture.
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).



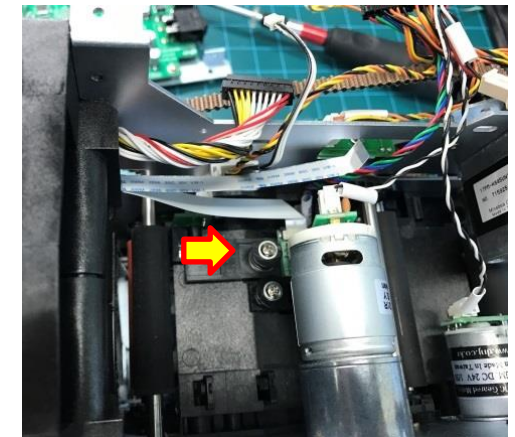
#610020



#610507



#610116



4.1 Lower MS

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

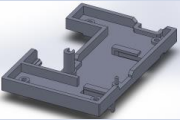
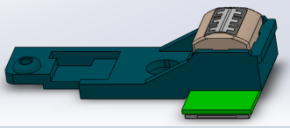
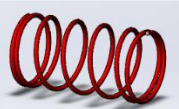
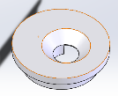
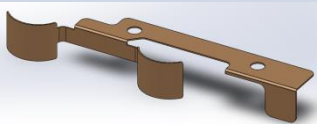
10. After covering the Main B/D module as the below picture, fix it. And, assemble the Right/Left Side Cover and Rear Cover.



4.2 Upper MS

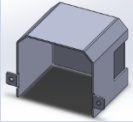
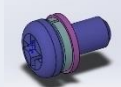
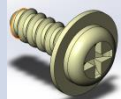
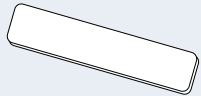
YOUR BEST ID PRINTER PROVIDER

(#651358 SP S51 UPPER_MAGNETIC_ENCODER_ISO)

No.	Fig.	IDP Code	DESC.	Q'ty
1		612057	HOLDER S51,UPPER_MS	1
2		610020	O_RING SS,PI1.7/1	1
3		630095	MS_TG313RWVPH BD,SMART,0.1	1
4		610507	SPRING SS,MS_TENSION	1
5		612056	HOLDER S51,UP_MS_HEAD_SPRING_SET	1
6		611557	SCREW SS,T2_2.6X6,CSH,BLACK	1
7		612065	PLATE S51,CARD_PUSH	1

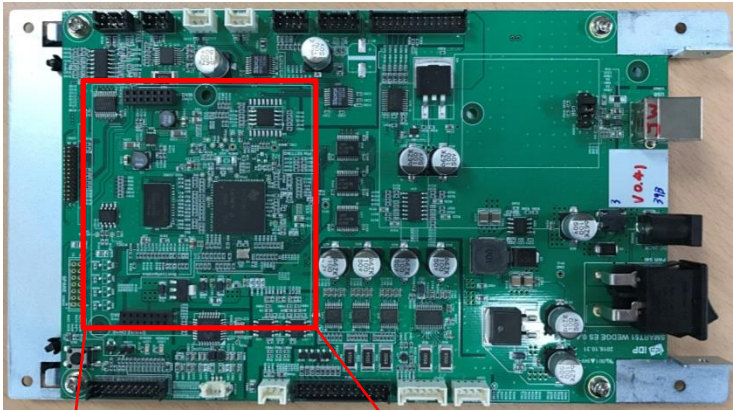
4.2 Upper MS

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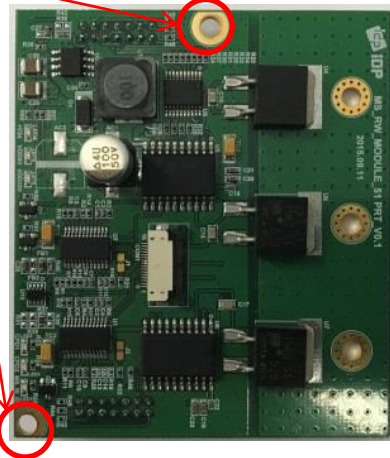
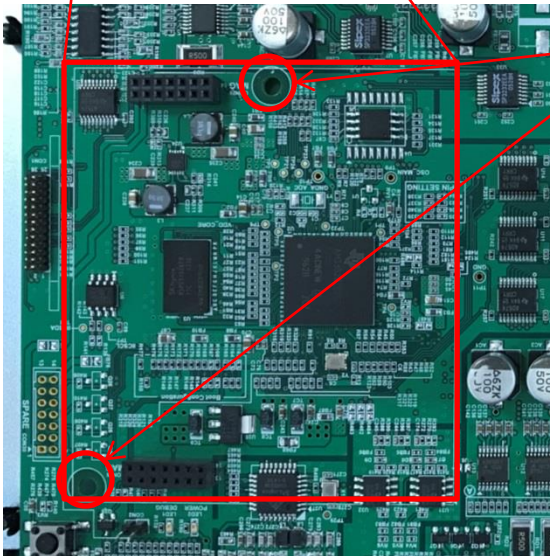
No.	Fig.	IDP Code	DESC.	Q'ty
8		612066	PLATE S51,COVER_MOTOR	1
9		610355	SCREW SS,M3X6,SAM	2
10		610887	SCREW SS,T2_3X8,PH	4
11		612275	LOCK S51,SPACER_LCF-5	2
12		630191	MS_RW MODULE_51 BD,SMART51 PRT,0.1	1
13		610155	TAPE SS,BOTH,12X75	1
14		612301	FFC CABLE,400MM,16P,0.5MM,2896 C-TYPE	1

4.2 Upper MS

YOUR BEST ID PRINTER PROVIDER

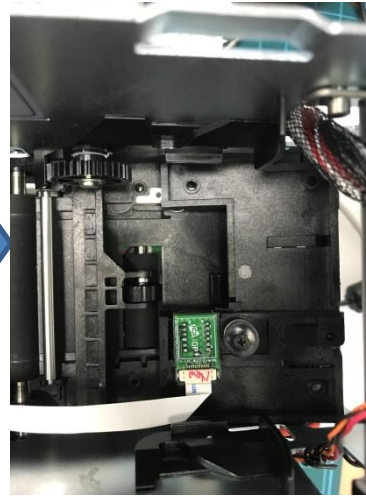
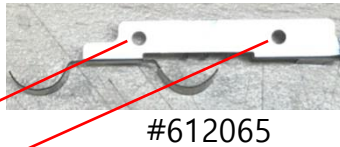
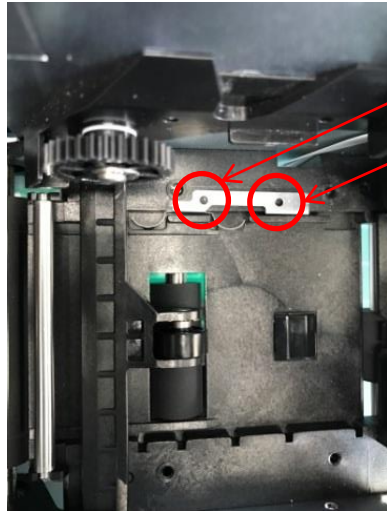


1. Disassemble the Main B/D Module as the left picture.
2. Fix the lock spacer (#612275) to fix the Option in the 2 holes.
3. Assemble the MS Option PCB on the lock spacer with a audible click.
4. The installed picture is as below picture.

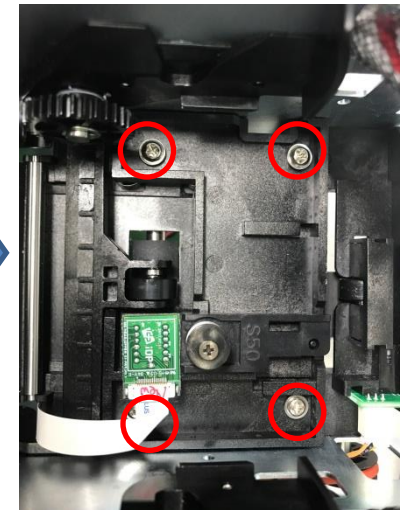
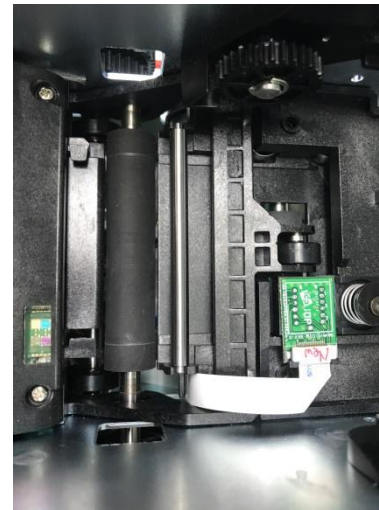
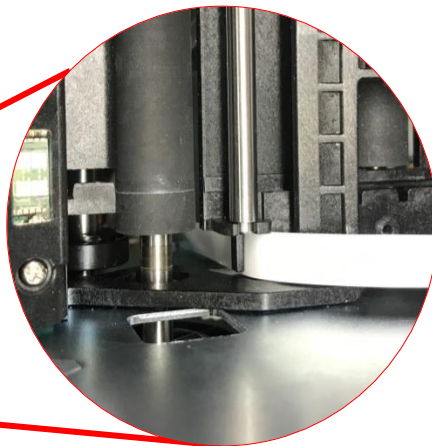
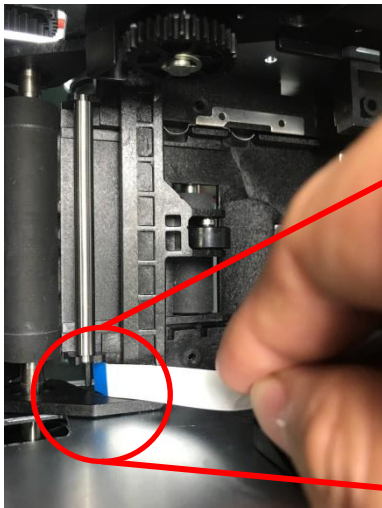


4.2 Upper MS

YOUR BEST ID PRINTER PROVIDER

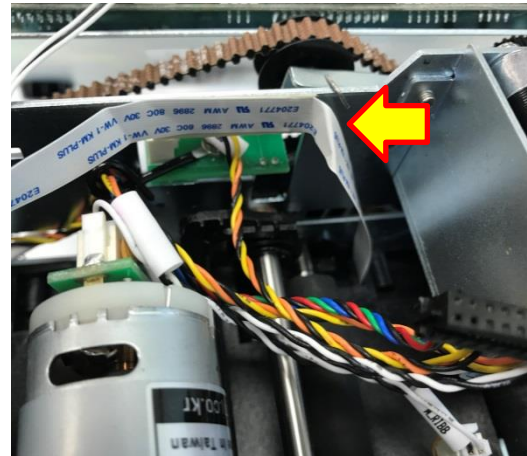
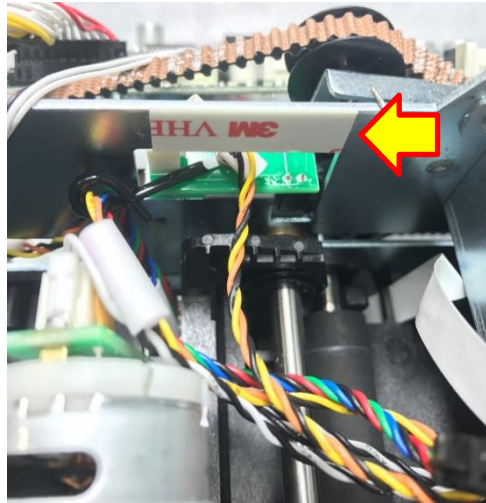


7. Open the Top Cover and Locate the Plate Spring (#612065) on the main guide.
8. Assemble the Upper MS Holder on the Main Guide as the left picture.
9. Arrange the FFC cable not to interfere other parts and insert it into the printer.
10. Fix the Upper MS Holder by 4 screws.



4.2 Upper MS

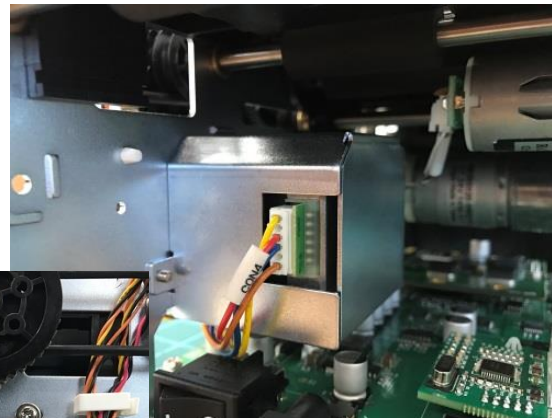
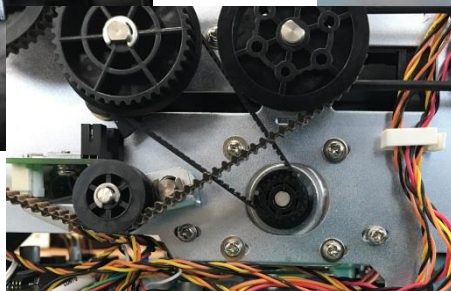
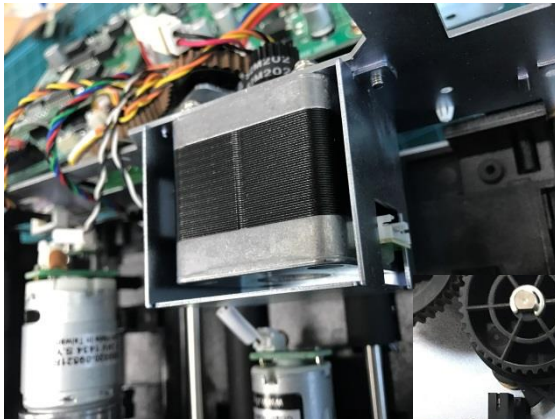
YOUR BEST ID PRINTER PROVIDER



11. Flip the body of printer. And attach the double sided tape on the inside of the right Side Plate. Arrange the FFC cable and attach it to the tape.

12. In order to prevent interfering the noise of Step Motor, Assemble the Motor Cover (#612066) by M3 screw as the left picture after disconnect the cable of Step Motor.

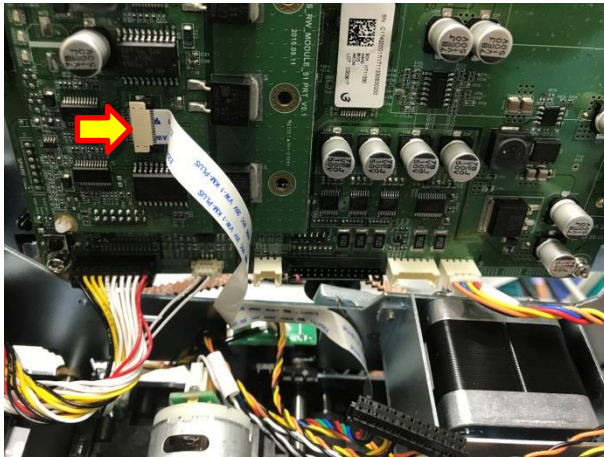
13. After fix the screws, connect the cable of Step Motor again.



4.2 Upper MS

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

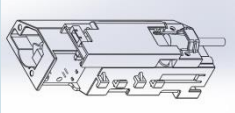
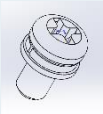
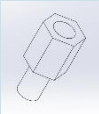
15. After covering the Main B/D module as the below picture, fix it. And, assemble the Right/Left Side Cover and Rear Cover.



4.3 Contact Smart Card Reader

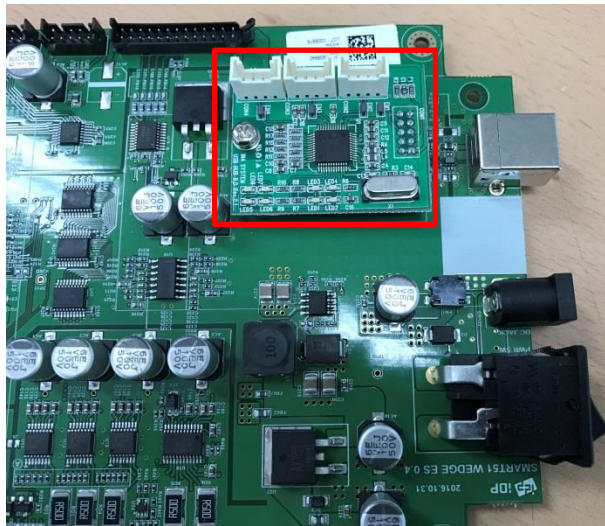
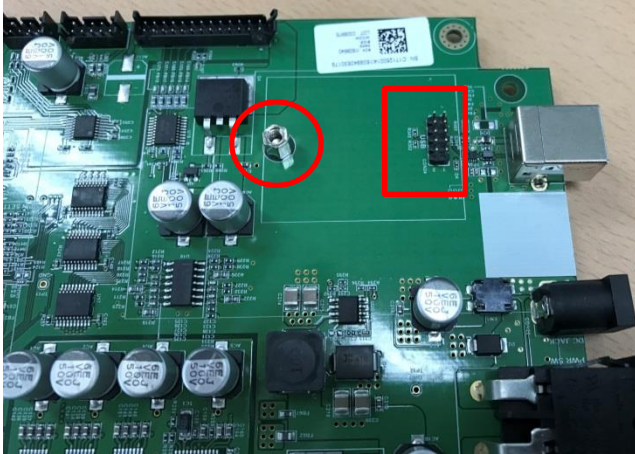
YOUR BEST ID PRINTER PROVIDER

(#651359 SP S51 INTERNAL_SMART_CARD_ENCODER)

No.	Fig.	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

4.3 Contact Smart Card Reader

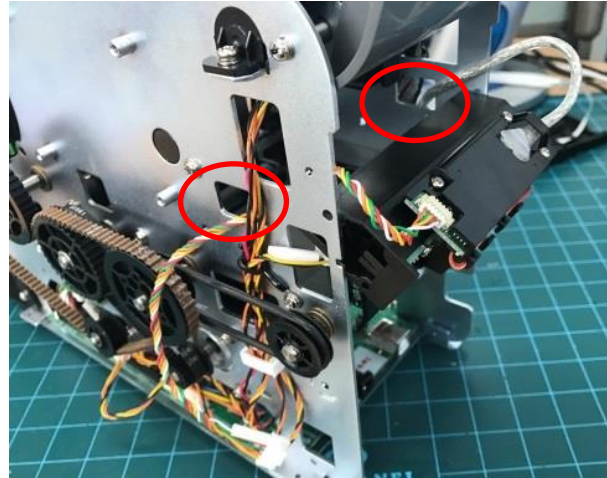
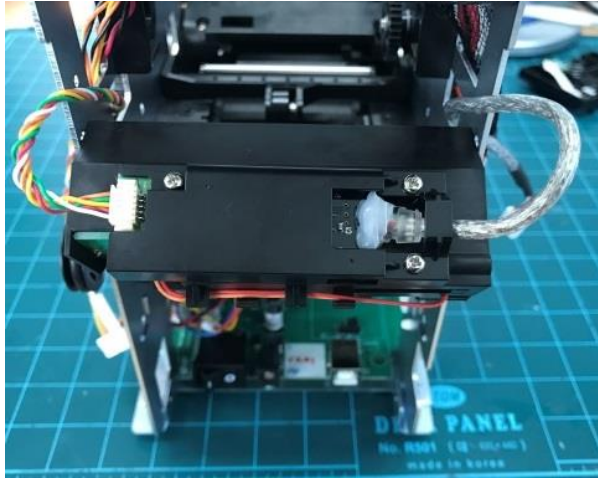
YOUR BEST ID PRINTER PROVIDER



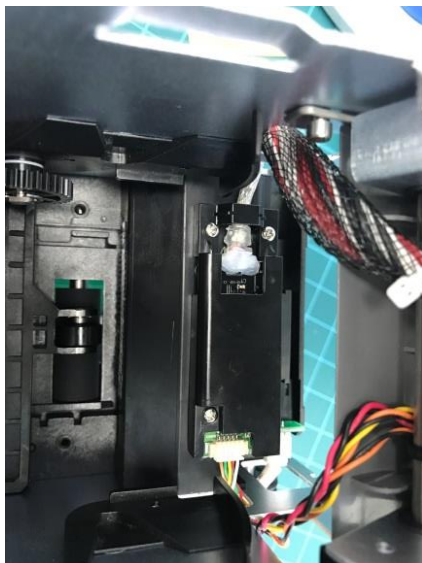
1. Disassemble the Main B/D after disassembling Side Covers and Rear Cover. Remove 2 jumpers.
2. Assemble the USB Hub B/D after installing a hexa-bolts (#610430) and Nuts (#610375).

4.3 Contact Smart Card Reader

YOUR BEST ID PRINTER PROVIDER

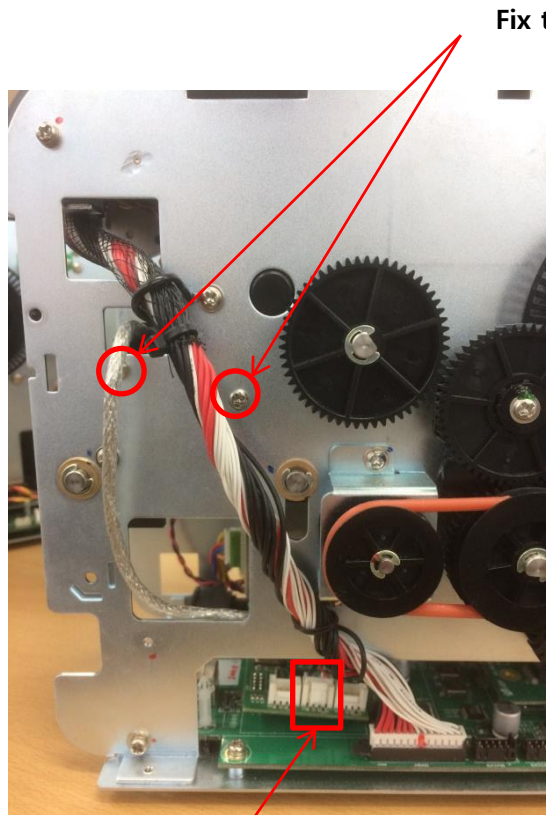


3. Insert the IC Module in the rear side of the printer after removing a Rear Cover.
4. Arrange the cables through the 2 holes in the right/left side of the printer. Be Careful not to damage them by the sharp edge of the hole of side plate.
5. Fix IC Module after pushing it. Please prevent it from interfering the roller.

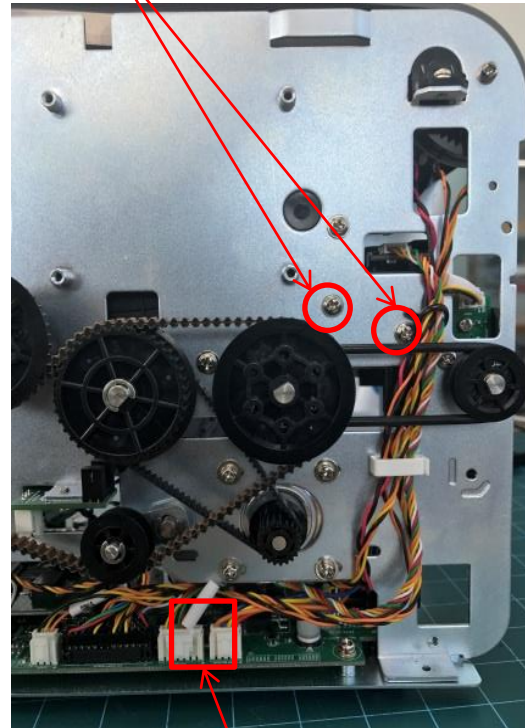


4.3 Contact Smart Card Reader

YOUR BEST ID PRINTER PROVIDER



Connection of USB
cable (2nd slot)



Connection of
connector

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 the left picture.
9. Arrange the cables to prevent interfering belts or other parts.
10. Assemble the both Side Covers and Rear Cover.

4.4 Contactless Smart Card Reader

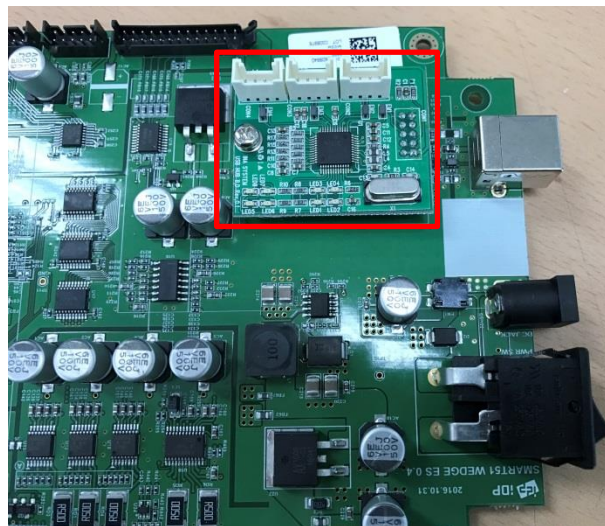
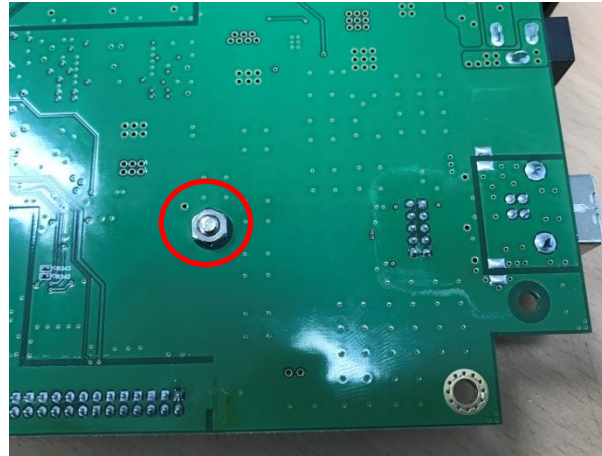
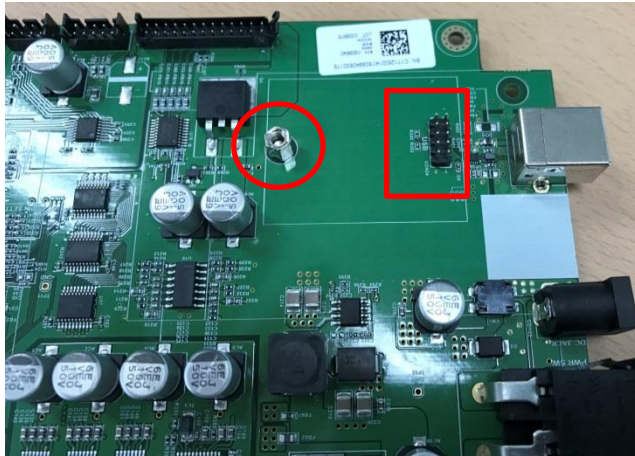
YOUR BEST ID PRINTER PROVIDER

(#651362 SP S51 INTNL_CNTCTLSS_CARD_ENCODER_DUALI)

No.	Fig.	IDP Code	DESC.	Q'ty
1		610949	MODULE,DE-ABCM	1
2		612204	IN_RF_GENDER_51 PRT PCB,V0.1	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

4.4 Contactless Smart Card Reader

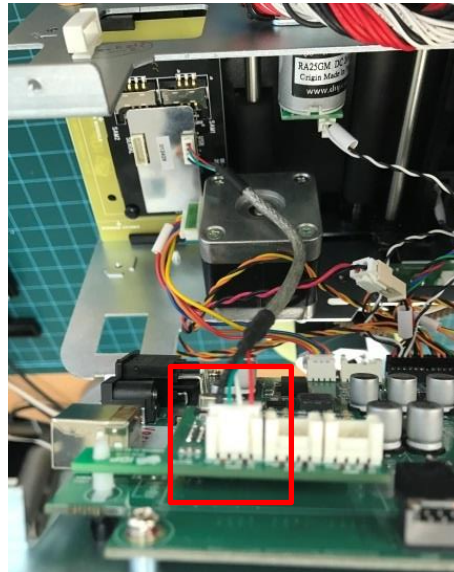
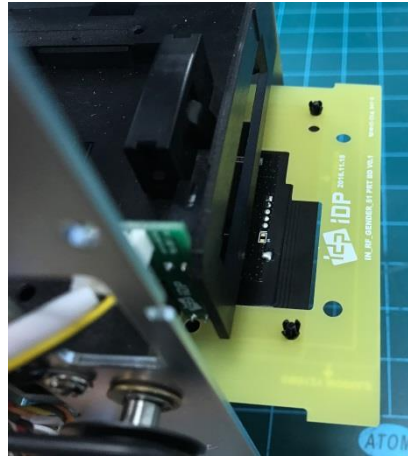
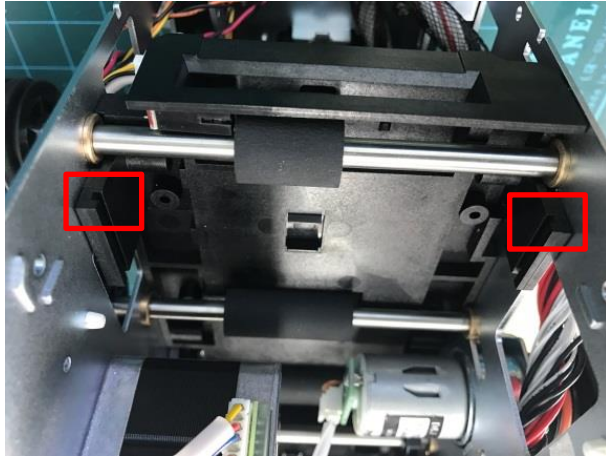
YOUR BEST ID PRINTER PROVIDER



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 hex-bolts (#610430) and Nuts (#610375).

4.4 Contactless Smart Card Reader

YOUR BEST ID PRINTER PROVIDER



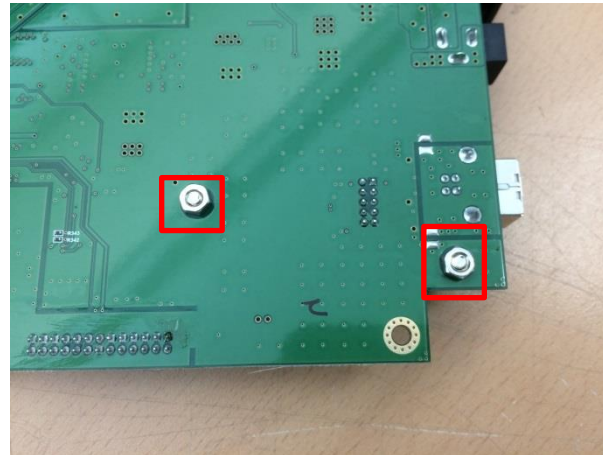
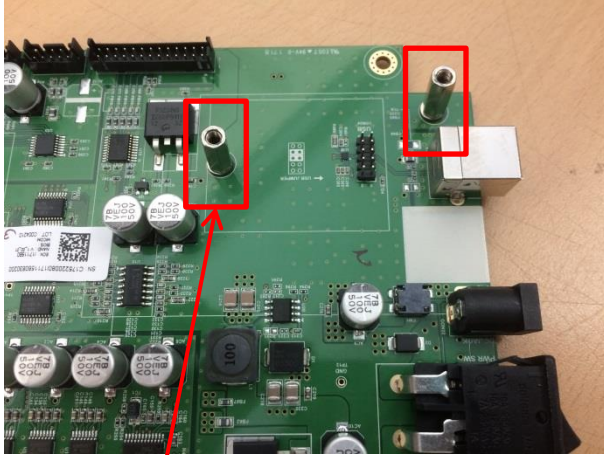
3. Assemble the RF Module in the rear side of the printer after removing a Rear Cover. Insert it into the slots in the red rectangle.
4. Connect the cable of RF Module to the left 1st slot of the USB Hub B/D on the main B/D.
5. Assemble the both Side Covers and Rear Cover.

4.5 Ethernet

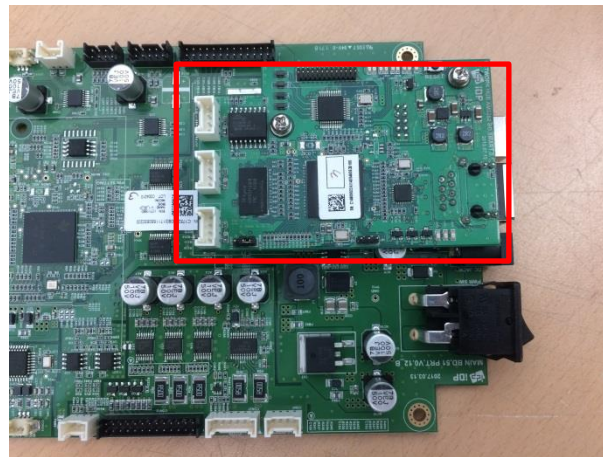
(#651367 SP S51 NETWORK_HUB)

No.	Fig.	IDP Code	DESC.	Q'ty
1		630106	NETWORK HUB AM3352 BD,SMART,0.1	1
2		610375	NUT SS,M3X2.4	2
3		610355	SCREW SS,M3X6,SAM	2
4		610374	WASHER SS,M3_SPRING	2
5		610673	SCREW SS,M3X13,HEX	2

4.5 Ethernet



610673, 610374

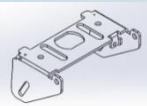
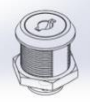
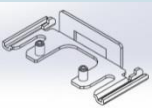
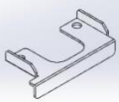
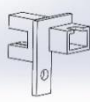
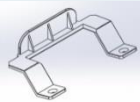


1. Disassemble the Main B/D after disassembling Side Covers and Rear Cover. Remove 2 jumpers.
2. Install hexa-bolts (#610673), washer (#610374) and Nuts (#610375).
3. Assemble the Ethernet Module to the main B/D by fixing M3 screws (#610355).

4.6 Printer Lock

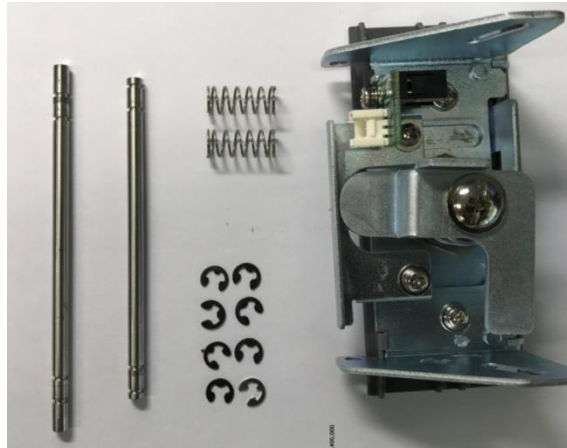
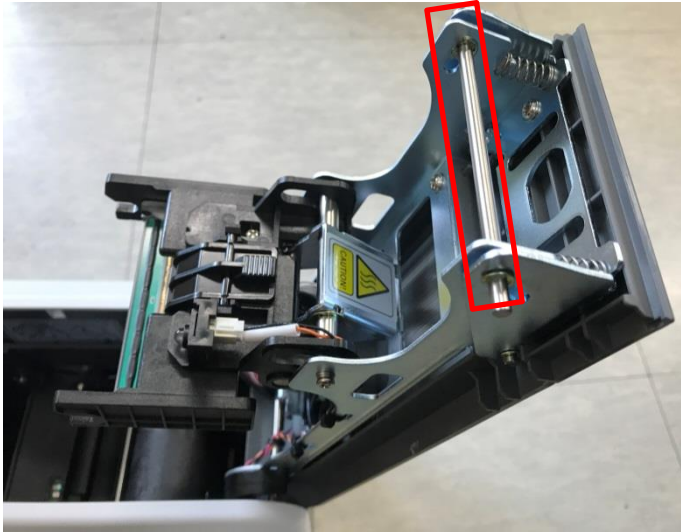
YOUR BEST ID PRINTER PROVIDER

(#651363 SP S51 LOCK_PRINTER)

No.	Fig.	IDP Code	DESC.	Q'ty
1		612064	PLATE S51,BK_LOCK_TOP	1
2		612041	COVER S51,TOP_BUTTON_LOCK	1
3		611893	LOCK S7PC03-20_1.0	1
4		612061	PLATE S51,BK_KEY_LOCK	1
5		612062	PLATE S51,BK_LOCK_FRONT	1
6		612063	PLATE S51,BK_LOCK_FRONT_2	1
7		630186	SEN_LOCK_51 PRT BD,SMART51 PRT,0.1	1
8		612003	BRACKET S51,CARD_LOCK	1

4.6 Printer Lock

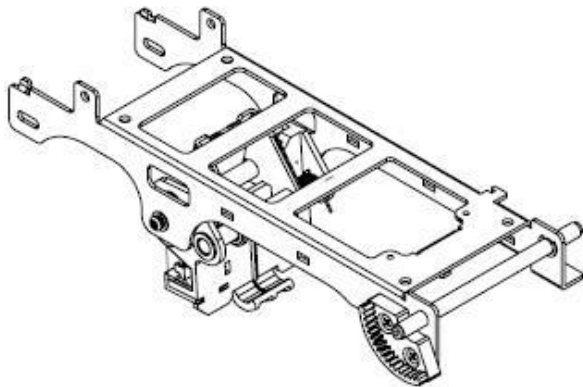
YOUR BEST ID PRINTER PROVIDER



1. Disassemble the Button Module from the Top Cover Module. At first, disassemble the Top Cover and remove the E-rings to fix the Button Module in the 2 shafts.
2. They are used when reassembling, so please keep it safe.

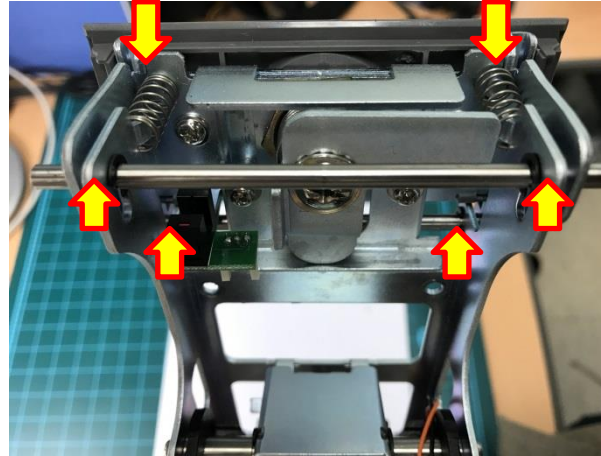
[The reassembled parts]

#640520 ASSY S51,BUTTON_TOP-LOCK
#612089 SHAFT S51,LOCK_COVER_TOP
#612086 SHAFT S51,HINGE_LOCK_TOP
#612087 SPRING S51, TOP_COVER_BUTTON
#610954 E_RING SS,Pi3

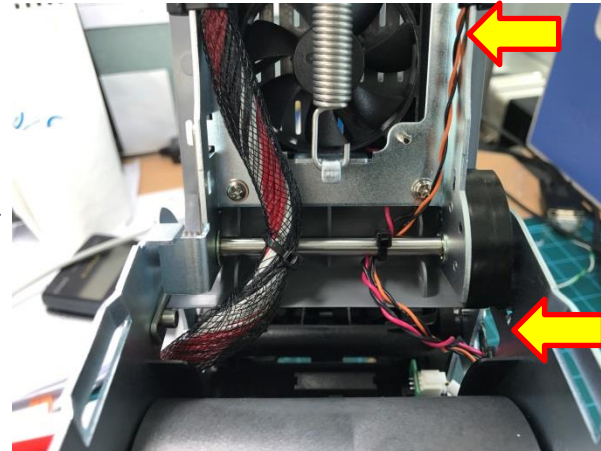
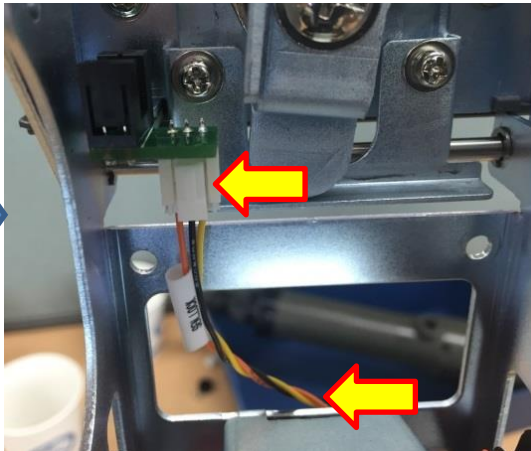


4.6 Printer Lock

YOUR BEST ID PRINTER PROVIDER

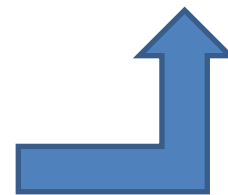
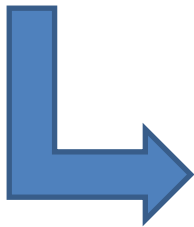


3. Fix the Button Module by assembling a 2 shafts as the left picture.
4. Arrange the shafts to check the position of E-ring and Top Cover Frame, and fix the E-rings.
5. Insert the 2 springs in the both side of the Button module as the left picture.
6. Connect the sensor cable to the sensor in the Button Module.



4.6 Printer Lock

YOUR BEST ID PRINTER PROVIDER



7. Open the Front Cover.
8. Assemble the Card Lock by fixing the 2 screws.

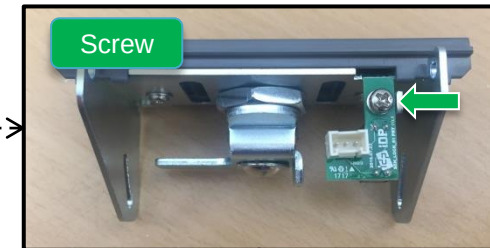
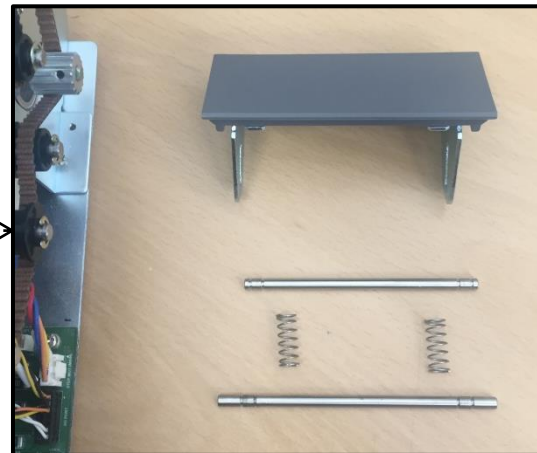
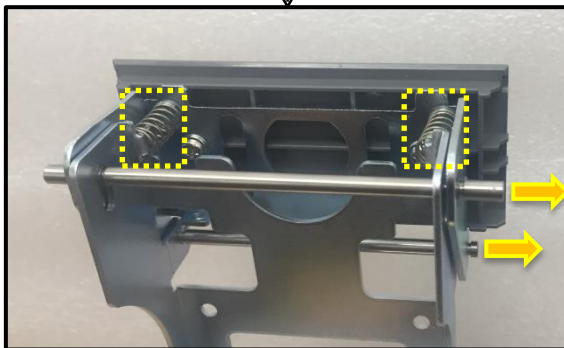
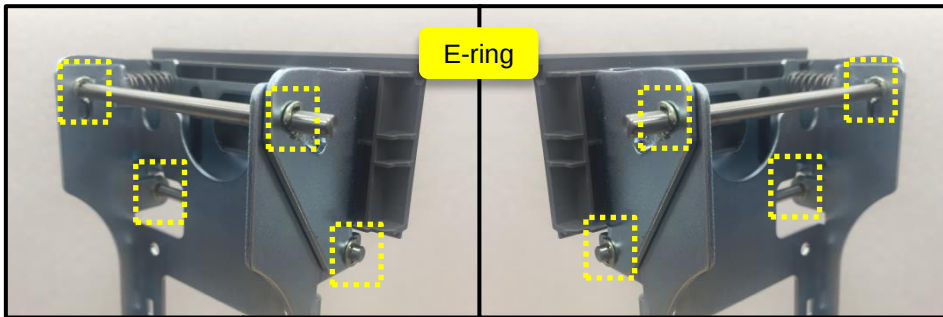
4.7 Laminator Lock

(#651364 SP S51 LOCK_LAMINATOR)

No.	Fig.	IDP Code	DESC.	Q'ty
1		640594	ASSY S51L,BUTTON_TOP-LOCK	1
2		612122	WIRE,SEN_LOCK_51 PRT,3P,540mm	1

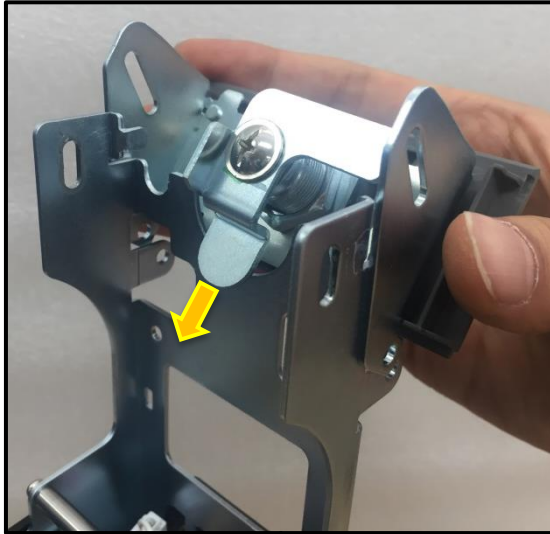
4.7 Laminator Lock

1. Disassemble the Button Module from the Laminator Top Cover Module. At first, disassemble the Top Cover and remove the E-rings to fix the Button Module in the 2 shafts.
2. Remove the 2 springs and pull the 2 shafts.
3. Disassemble the sensor in the laminator lock by removing a screw.

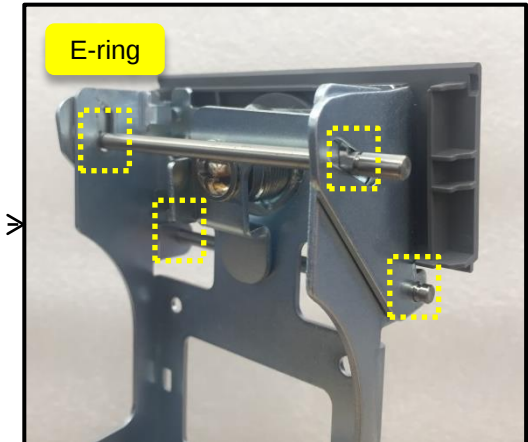
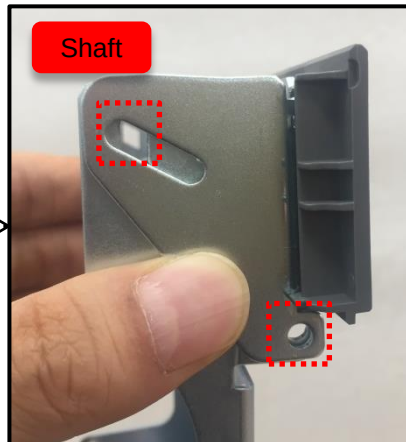
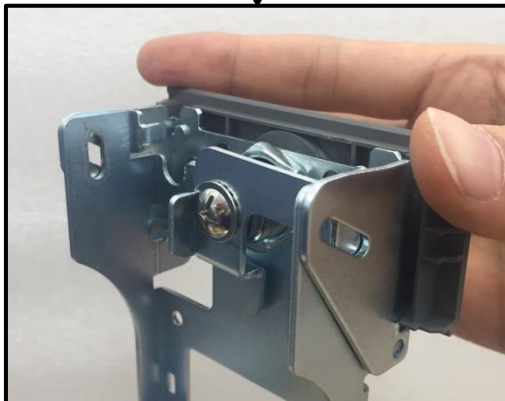


4.7 Laminator Lock

YOUR BEST ID PRINTER PROVIDER

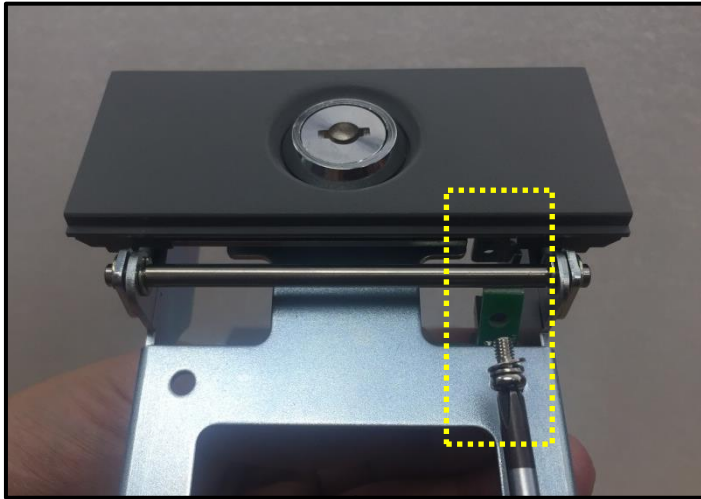


4. Locate the Laminator Lock Assy. into the Top Cover Plate.
5. Insert 2 shafts into the hole of lock plate and top cover plate and assemble it by fix the E-rings.



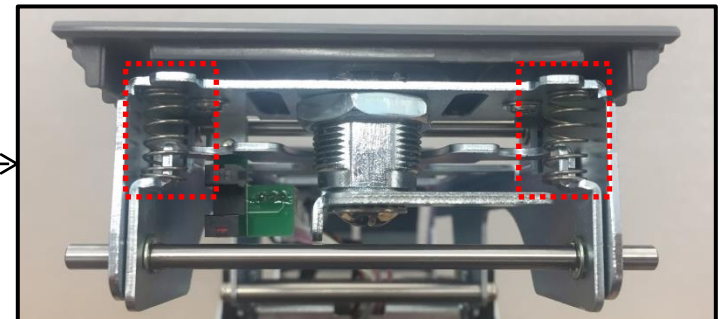
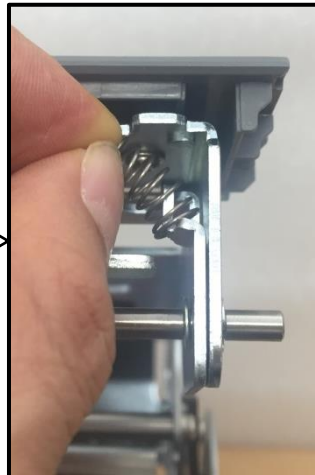
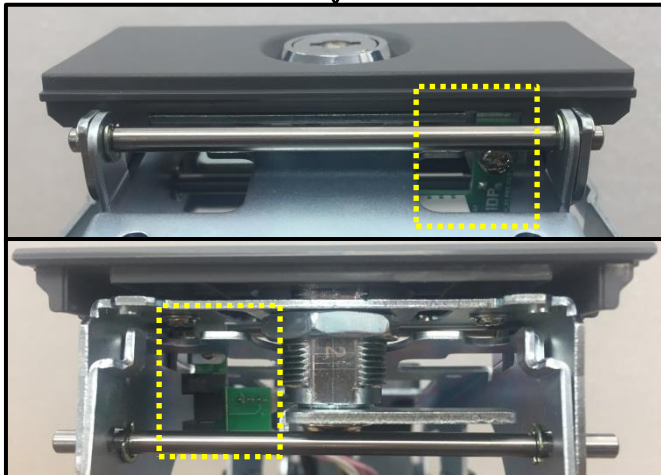
4.7 Laminator Lock

YOUR BEST ID PRINTER PROVIDER



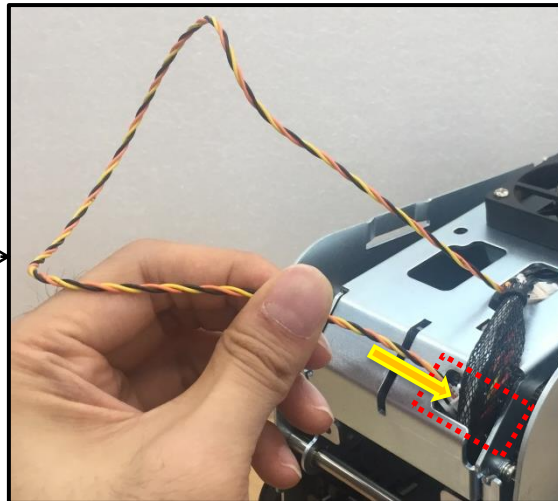
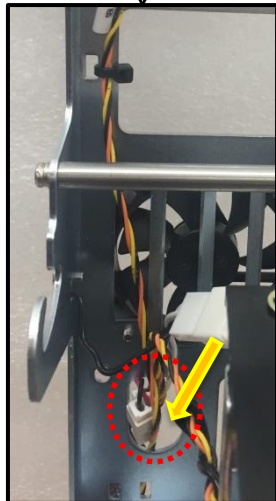
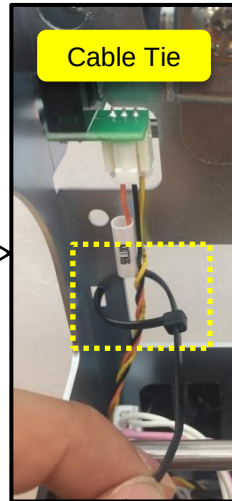
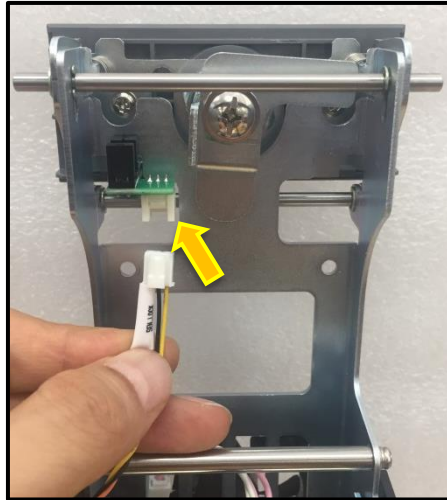
6. Assemble the disassembled sensor as the left pictures.

7. Arrange 2 springs between the Top Cover Plate and Button Plate.

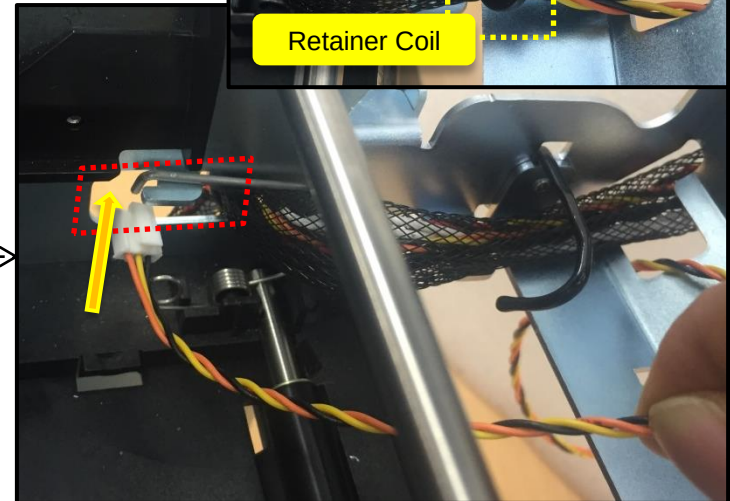
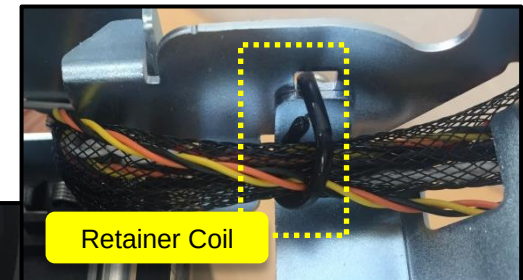


4.7 Laminator Lock

YOUR BEST ID PRINTER PROVIDER

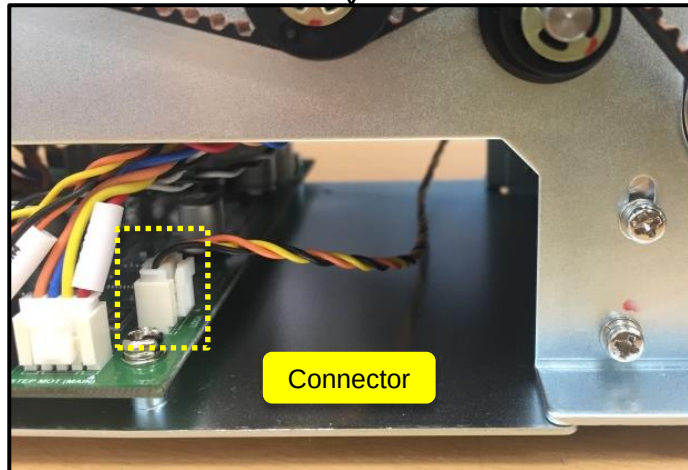
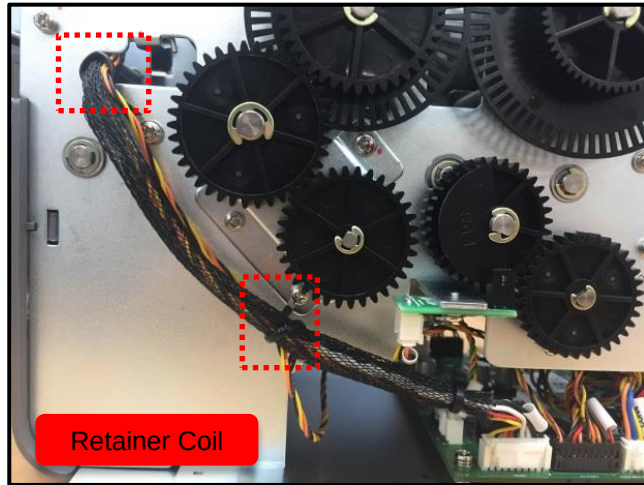


8. Connect the cable of LOCK SENSOR and tie it on the Top Cover Plate.
 9. Arrange the cable with the existing cables.
- ❖ Fix the cable by Retainer Coil



4.7 Laminator Lock

YOUR BEST ID PRINTER PROVIDER



10. Tie the sensor cable with other cables by the 2 existing Retainer Coil.

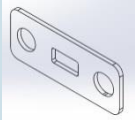
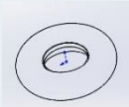
11. Connect the cable on the Main B/D.

12. Assemble the Both Side Covers and Top Cover.



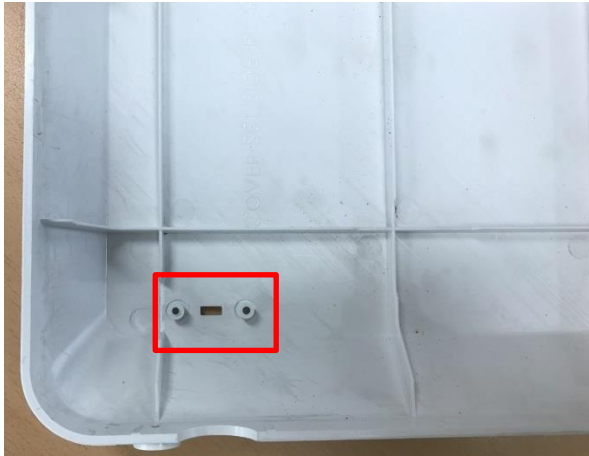
4.8 Kensington Lock

651365 SP S51 LOCK_KENSINGTON

No.	Fig.	IDP Code	DESC.	Q'ty
1		610759	PLATE SO,K_LOCK	1
2		610021	O_RING SS,Pi4.4/2.6	4
3		610365	SCREW SS,T2_3X6,FH	2

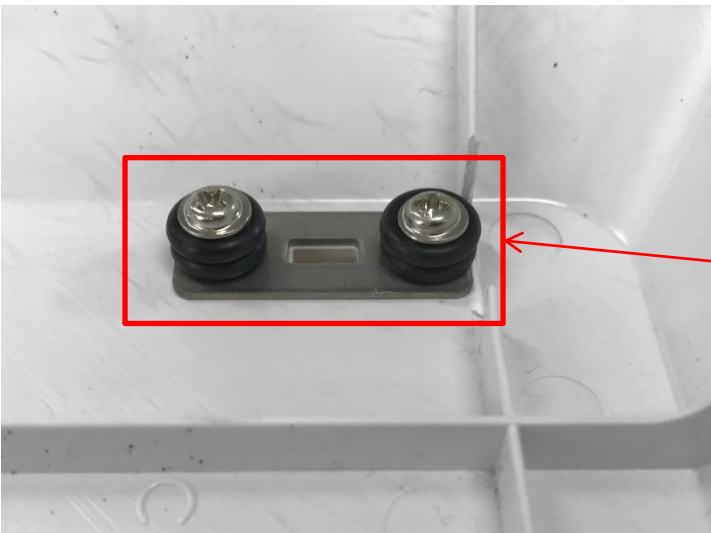
4.8 Kensington Lock

YOUR BEST ID PRINTER PROVIDER



1. Disassemble the Right Side Cover.
2. Assemble the Kensington Lock part in the inside of the Side Cover.
Assembling order

- ① 2 rubber rings →
- ② Kensington lock plate →
- ③ Screw

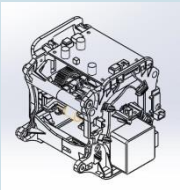
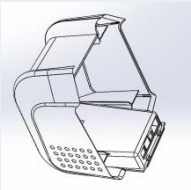
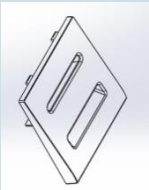
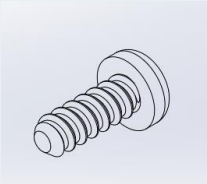


Fixed Order

- Screws
- Kensington Lock plate
- 2 Rubber rings
- Right Side Cover

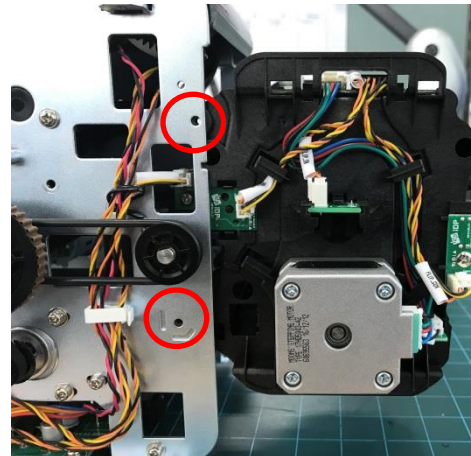
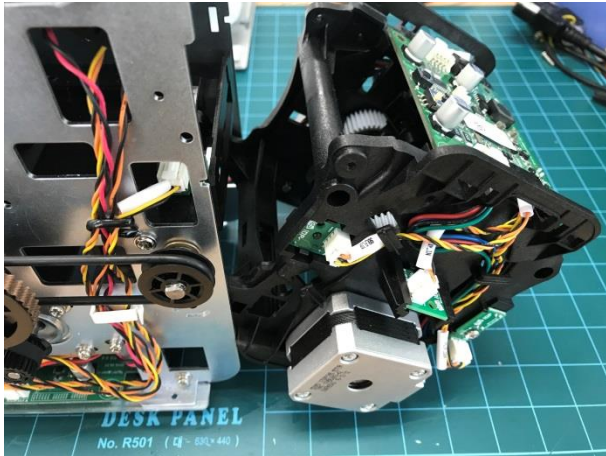
4.9 Flipper

(#651366 SP S51 FLIPPER)

No.	Fig.	IDP Code	DESC.	Q'ty
1		640543	ASSY S51,FLIPPER_MAIN	1
2		612031	COVER S51,FLIPPER	1
3		612032	COVER S51,FLIPPER_BACK	1
4		610887	SCREW SS,T2_3X8,PH	4

4.9 Flipper

YOUR BEST ID PRINTER PROVIDER



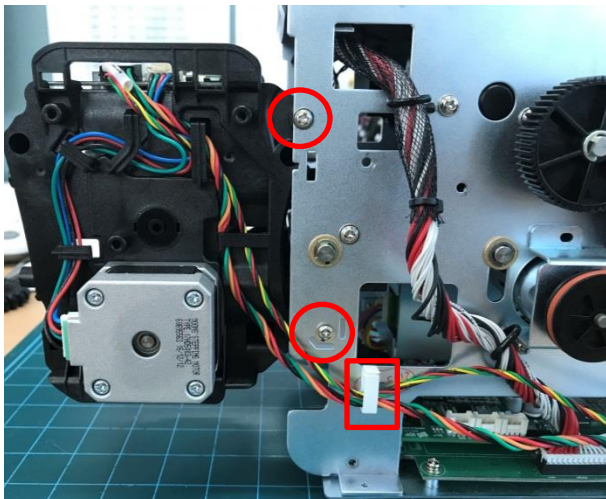
1. Disassemble the right/left Side Cover and Rear Cover.

2. Remove the cover of Flipper Module.

3. Insert the bumps of Flipper Module into the groove of the Side Plates.

4. Fix it by 4 screws.

5. 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.



4.9 Flipper

YOUR BEST ID PRINTER PROVIDER

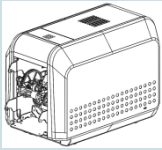


6. Assemble the Flipper Cover in the direction of the arrow and fix it by 4 screws.
7. Assemble the Flipper Back Cover.

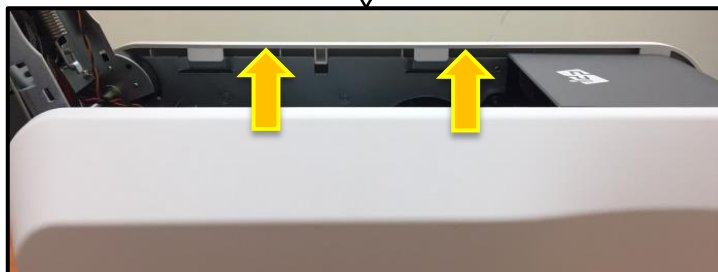
4.10 Laminator

YOUR BEST ID PRINTER PROVIDER

(#651310 SP S51L SMART-51L(ID))

No.	Fig.	IDP Code	DESC.	Q'ty
1		640557	ASSY S51L,OPT_STD_MD_IDP	1
2		612223	WIRE,SERIAL_LINK_51_LAM,4P,290mm	1
3		612287	COVER S51,CONNECTOR_LIM V1.0	1
4		610355	SCREW SS,M3X6,SAM	6
5		611911	ADAPTOR,ATS-065T-P241(24V/2.7A,PEAK 11A)	1

4.10 Laminator



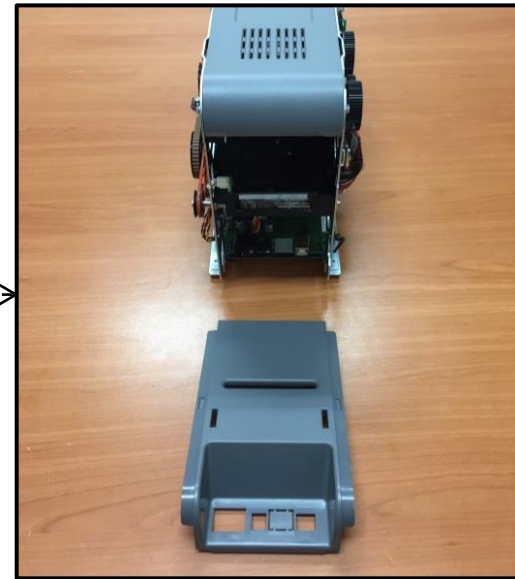
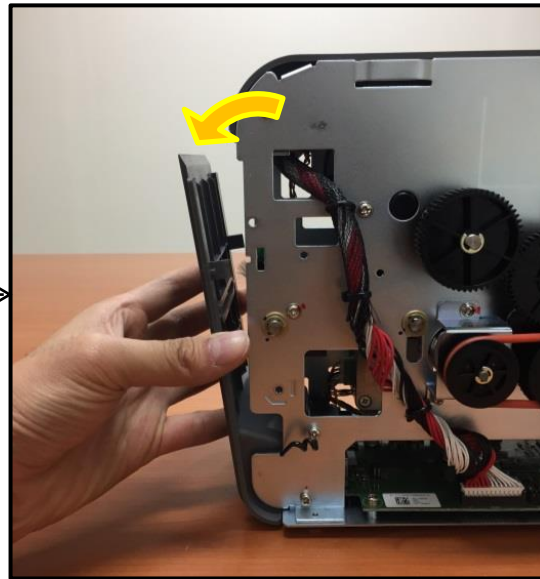
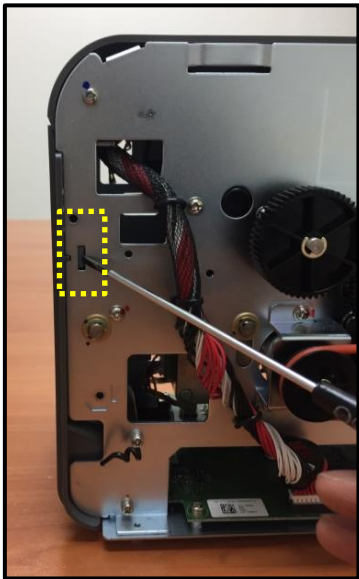
1. Unscrew total 4 screws on the base plate
2. Grip the bottom part of right/left Side Cover and pivot from upper part of right/left Side Cover.
3. After detaching the lower part of right/left Side Cover, lift it up to disassemble.



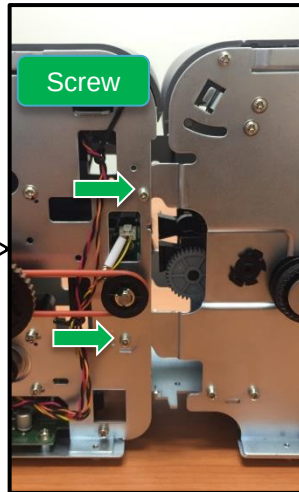
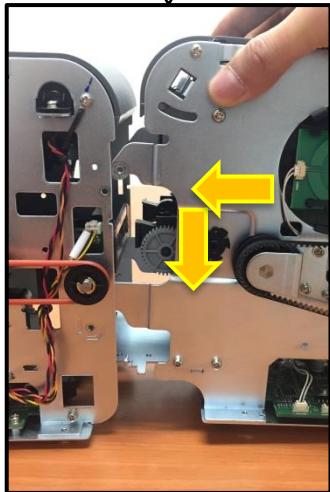
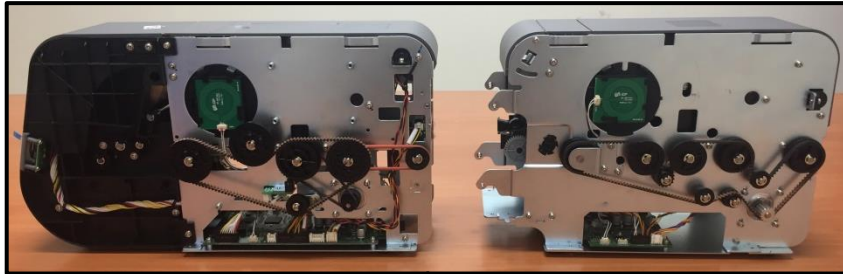
4.10 Laminator

YOUR BEST ID PRINTER PROVIDER

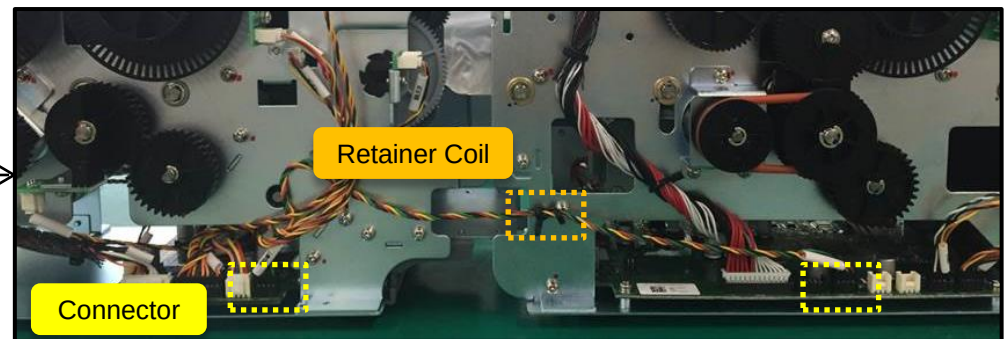
4. Rear Cover is connected to Side Plates by Hook.
5. Unlock the both side Hook of Rear Cover by using the screw driver or other device.
6. Disassemble Rear Cover to pull it by hand.



4.10 Laminator

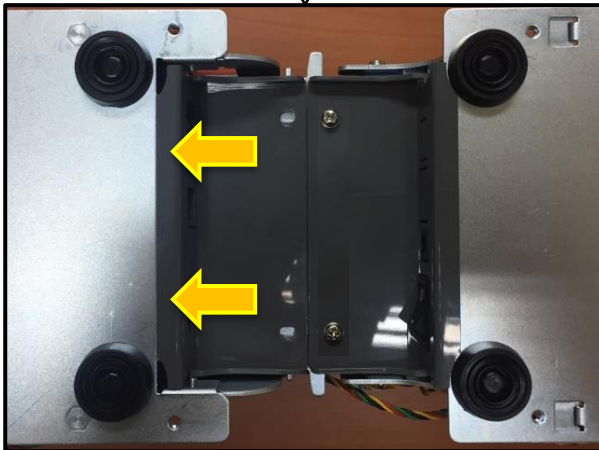
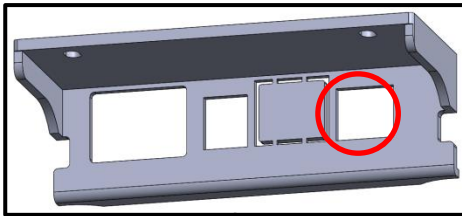


7. After disassemble the Laminator Side Covers, locate the Laminator Module on the rear side of the Printer.
8. Lift up the front side of Laminator Module and insert the 4 Mounting Arms into the inside of the Side Plates of Printer and match the hole of screws.
9. Fix 4 screws.
10. Connect the Link cable on the left side of printer and Laminator, and fix it by Retainer Coil.



4.10 Laminator

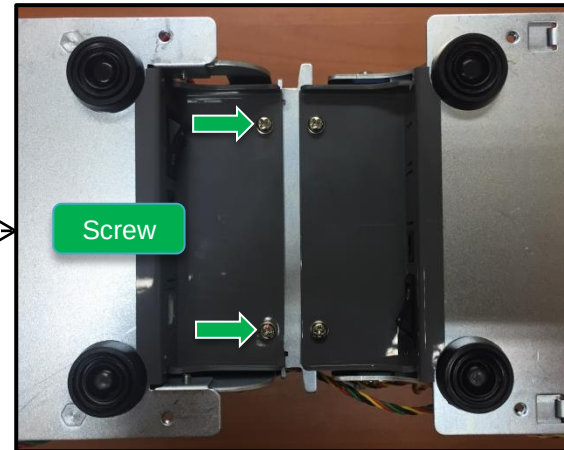
YOUR BEST ID PRINTER PROVIDER



11. Remove the protector in Connector Cover and Push it to the printer.

❖ The Connector Cover in the Laminator is already assembled.

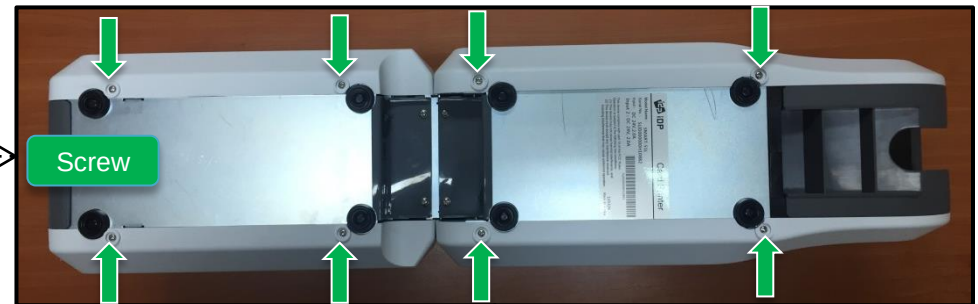
12. Fix it by 2 screws.



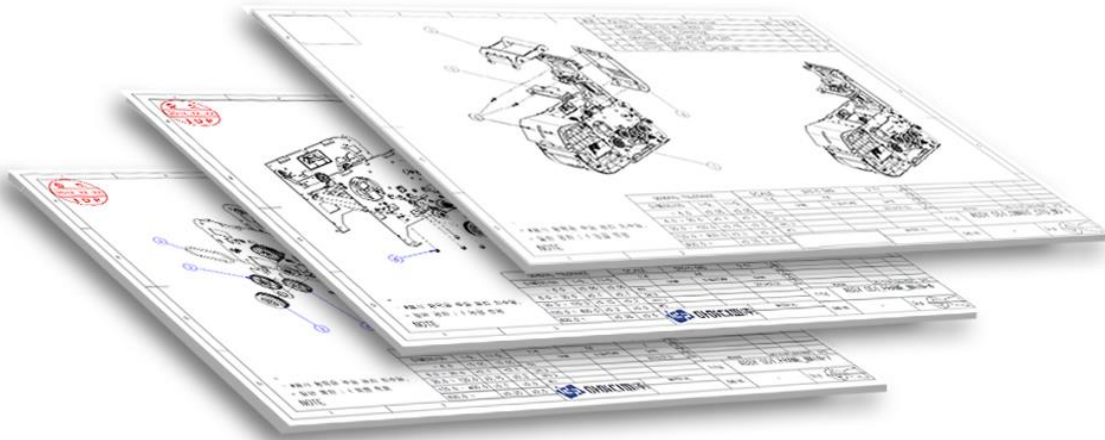
4.10 Laminator



13. Assemble the Side Covers and fix it by 8 screws.



A. Assembly View for Printer



A.1 Hopper Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	612043	FRAME S51,HOPPER_BODY_L		1
2	612044	FRAME S51,HOPPER_BODY_R		1
3	612076	ROLLER S51,HOPPER_CARD_IN_1		1
4	612077	ROLLER S51,HOPPER_CARD_IN_2		1
5	612042	DIVERTER S51,HOPPER_CARD		1
6	610421	BEARING SS,OIL INESS_6X10_METAL		4
7	610955	E_RING SS,Pi4_Y		4
8	610454	ROLLER SS,HOPPER_GATE		2
9	612197	BRACKET S51,HOPPER_EMPTY_SENSOR	V1.0	1
10	630021	ASSY SS HOPPER MOT		1
11	610359	SCREW SS,M2X5,SAM		2
12	610368	SCREW SS,T2_3X14,PH		4
13	611752	SCREW SS,T2_3X6,PH_2W		2
14	610433	TIE SS,RETAINER_COIL_RB2		2

NOTE

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

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:10	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

CHK'D

APPV'D

MFG

NAME

SIGNATURE

DATE

2016-04-27

REASON

REVISION

ENGINEER

DATE

TITLE

ASSY S51, INPUT_HOPPER-1

DWG NO.

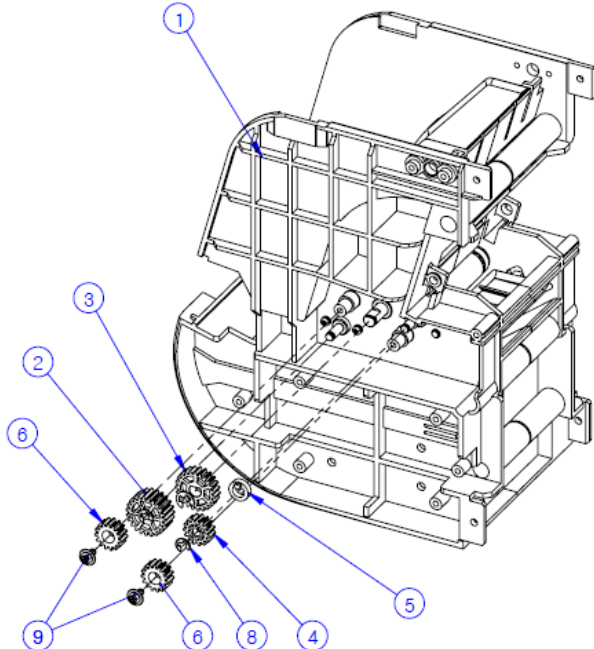
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3rd

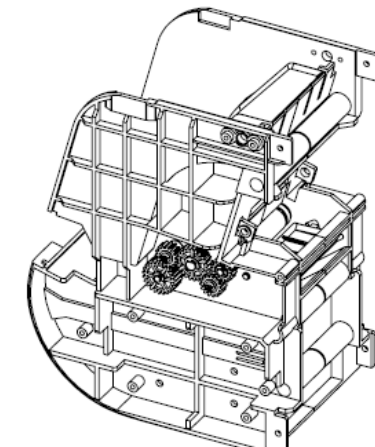
마이크로피쥬

A.1 Hopper Assy.

YOUR BEST ID PRINTER PROVIDER



품번	PartNo	Description	Ver.	수량
1	-	ASSY S51, INPUT_HOPPER-1		1
2	610460	GEAR SS,HOPPER_MOT		1
3	610463	GEAR SS,HOPPER_ROLLER_1		1
4	610464	GEAR SS,HOPPER_ROLLER_2		1
5	610086	GEAR SS,HOPPER_GATE_ROLLER_SET		1
6	612048	GEAR S51,HOPPER_ROLLER_CONNECT		2
7	610955	E_RING SS,Pi4_Y		1
8	610954	E_RING SS,Pi3_Y		2
9	611752	SCREW SS,T2_3X6,PH_2W		2



출 도
201X.XX.XX
IDP

1 2 3

A B C D

1 2 3 4 5 6 8 9

NOTE

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

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							

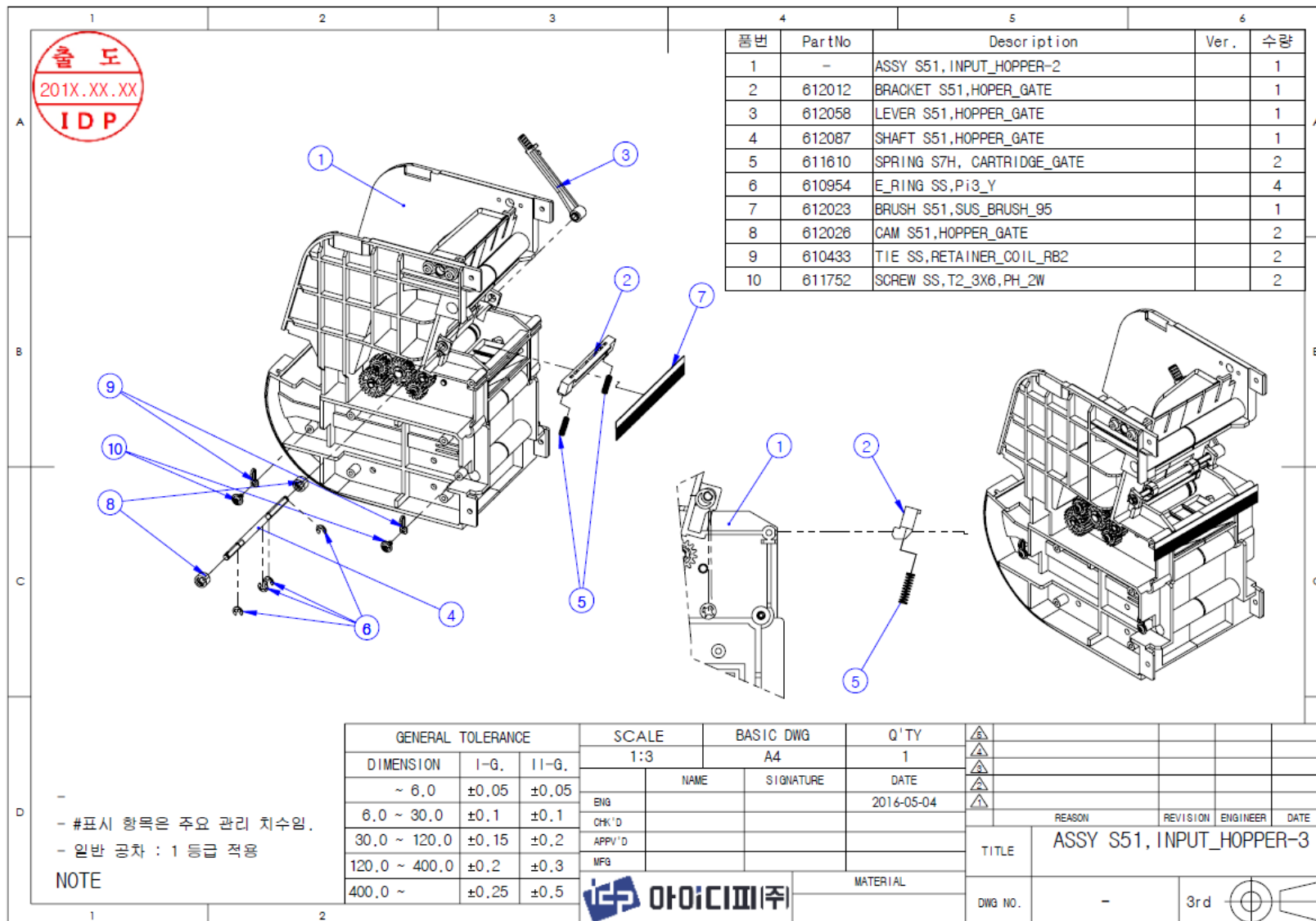
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ENG		2016-05-02				
CHK'D						
APPV'D						
MFG						

TITLE: ASSY S51, INPUT_HOPPER-2

DWG NO. 3rd

A.1 Hopper Assy.

YOUR BEST ID PRINTER PROVIDER



A.1 Hopper Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	-	ASSY S51, INPUT_HOPPER-3		1
2	640525	ASSY S51, FRONT_LCD_COVER		1
3	630182	SEN_HOP_51_PRT BD, SMART51 PRT, 0.1		1
4	611058	LABEL S3, MAG, IC_CARD_INSERTION		1
5	611752	SCREW SS, T2_3X6, PH_2W		6
6	612034	COVER S51, FRONT_COVER		1
7	612010	BRACKET S51, HINGE_FRONT_COVER		2
8	610491	SPRING SS, HOPPER_CARD_DIVIDE		1

NOTE

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

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:10	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

CHK'D

APPV'D

MFG

NAME

SIGNATURE

DATE

2016-05-04

TITLE

ASSY S51, INPUT_HOPPER-4

REASON

REVISION

ENGINEER

DATE

DWG NO.

640531

3rd

A.1 Hopper Assy.

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
			품번	PartNo	Description
			1	612087	SHAFT S51,HOPPER_GATE
			2	612026	CAM S51,HOPPER_GATE
			3	610954	E_RING SS,PI3_Y
			Ver.	수량	

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
1:2

BASIC DWG
A4

Q'TY
1

DATE
2016-05-04

TITLE
ASSY S51, IH_CAM_SHAFT

DWG NO.
64----

3rd

NOTE

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

REASON

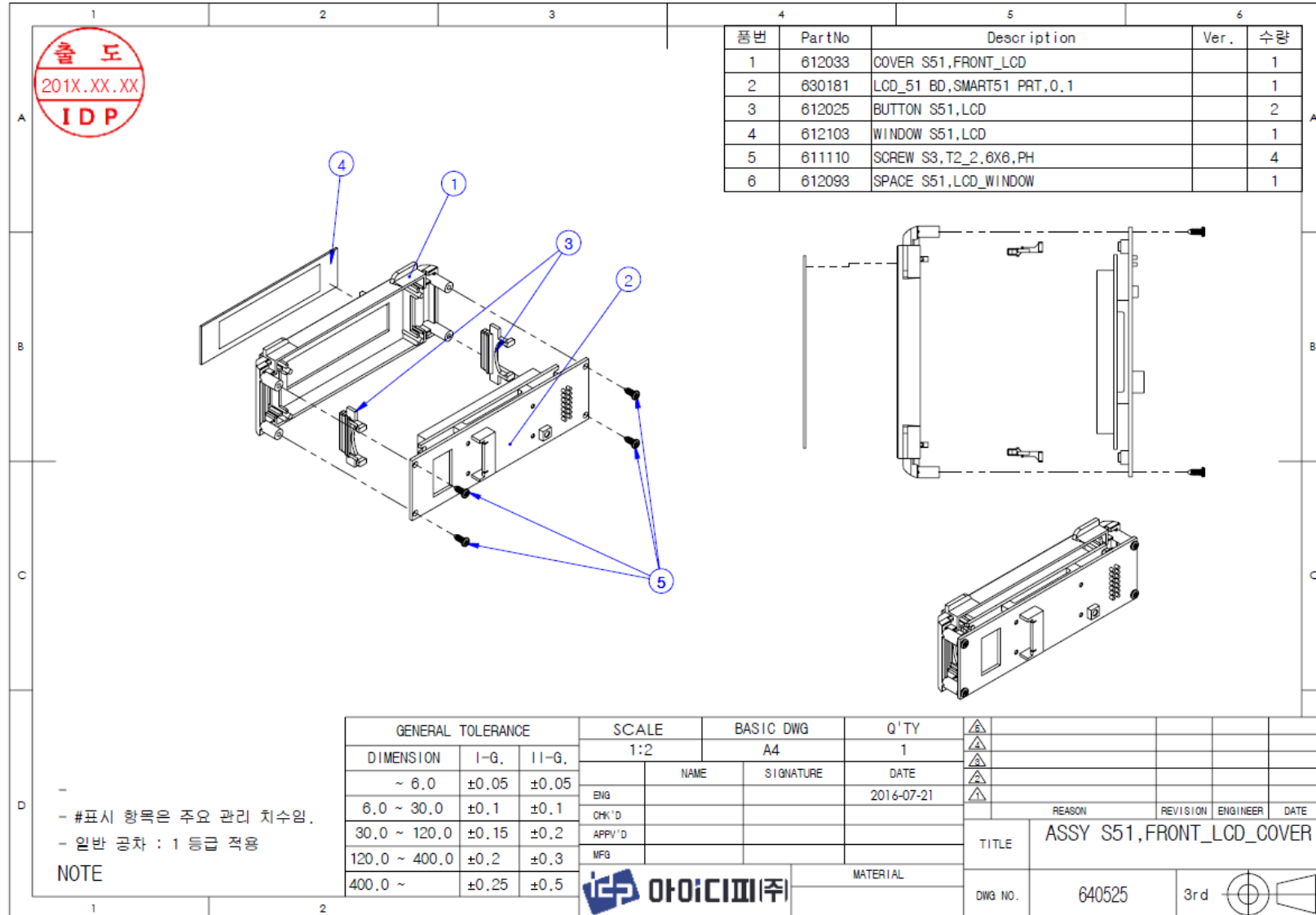
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ENGINEER

DATE

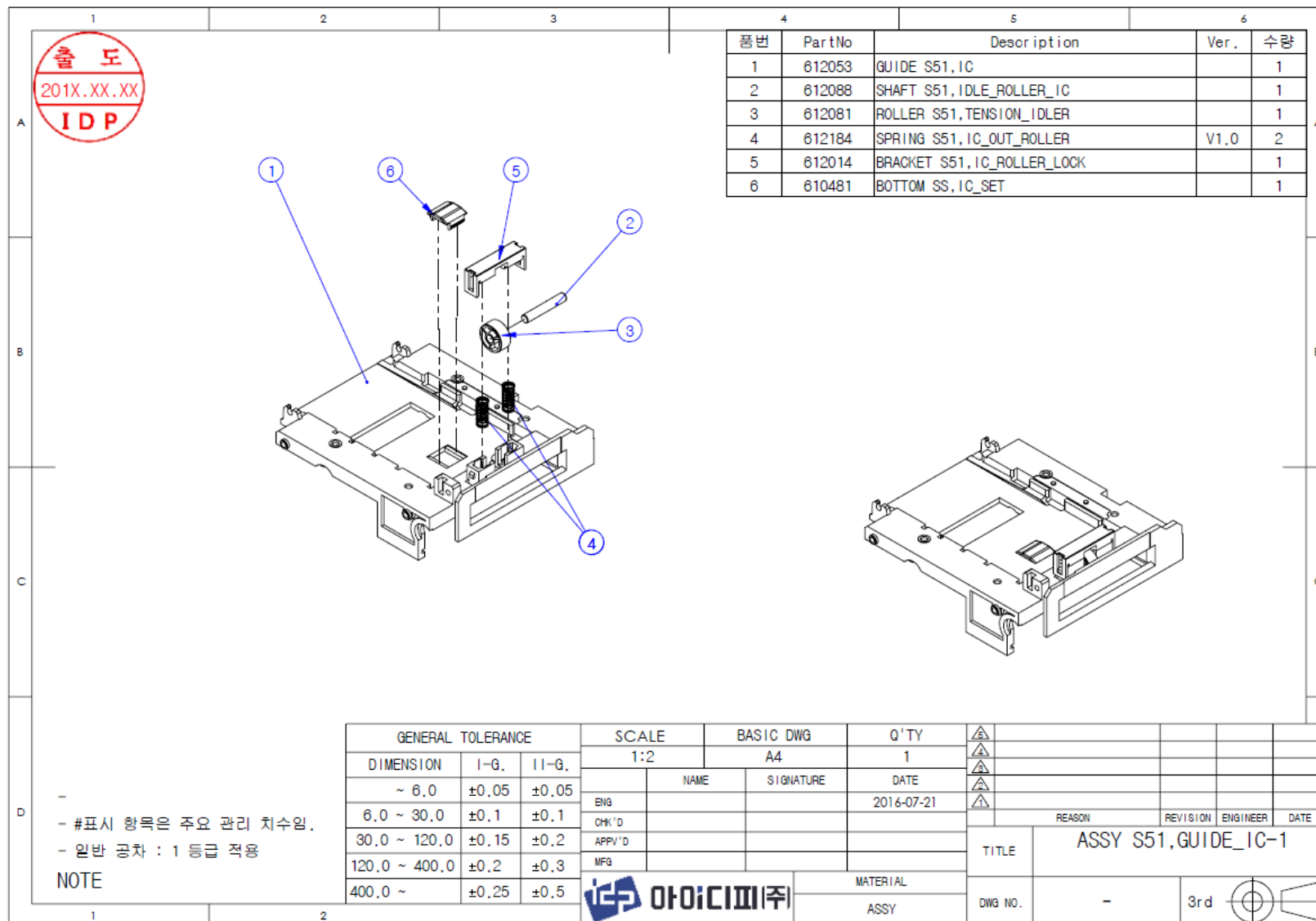
A.1 Hopper Assy.

YOUR BEST ID PRINTER PROVIDER



A.2 Guide IC Assy.

YOUR BEST ID PRINTER PROVIDER



A.2 Guide IC Assy.

YOUR BEST ID PRINTER PROVIDER

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출 도 201X.XX.XX IDP																																			
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Q'TY 1			DATE 2016-07-21																																
REASON			REVISION ENGINEER DATE																																
TITLE ASSY S51, GUIDE_IC-2			DWG NO. - 3rd																																
GENERAL TOLERANCE			MATERIAL																																
DIMENSION I-G. II-G.			아미디피제																																
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6.0 ~ 30.0 ±0.1 ±0.1			CHK'D																																
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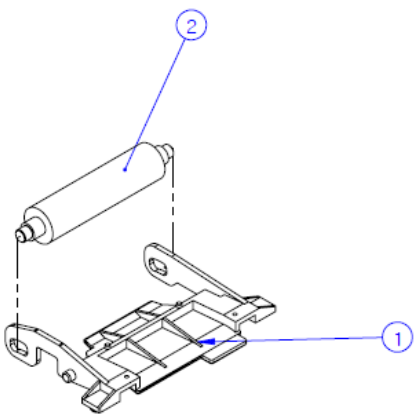
A.3 Guide MS Assy.

YOUR BEST ID PRINTER PROVIDER

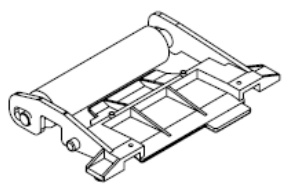
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품번	PartNo	Description	Ver.	수량																																				
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4	610084	GUIDE SS,TENSION_SPRING_SET		2																																				
5	630188	SEN_COLOR_IN_51 PRT BD,SMART51 PRT,0.1		1																																				
6	612082	SCREW SS,T2_2X4,PH		1																																				
출 도 201X.XX.XX IDP																																								
GENERAL TOLERANCE <table border="1"> <thead> <tr> <th>DIMENSION</th> <th>I-G.</th> <th>II-G.</th> </tr> </thead> <tbody> <tr> <td>~ 6.0</td> <td>±0.05</td> <td>±0.05</td> </tr> <tr> <td>6.0 ~ 30.0</td> <td>±0.1</td> <td>±0.1</td> </tr> <tr> <td>30.0 ~ 120.0</td> <td>±0.15</td> <td>±0.2</td> </tr> <tr> <td>120.0 ~ 400.0</td> <td>±0.2</td> <td>±0.3</td> </tr> <tr> <td>400.0 ~</td> <td>±0.25</td> <td>±0.5</td> </tr> </tbody> </table>			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 1:2 BASIC DWG A4 Q'TY 1 DATE 2016-07-21 REASON REVISION ENGINEER DATE TITLE ASSY S51,GUIDE_MS-1 DWG NO. - 3rd																			
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																																						
NOTE - #표시 항목은 주요 관리 치수임. - 일반 공차 : 1 등급 적용			아미디피주 MATERIAL ASSY																																					

A.3 Guide MS Assy.

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
			품번	PartNo	Description
			1	612192	BRACKET SS,CLEANING_ROLLER,V1.2
			2	610920	ROLLER SS,CLEANING,1.1
			Ver.	수량	
				1	
				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			

ENG NAME SIGNATURE DATE

CHK'D

APPV'D

MFG

NOTE

- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

REASON REVISION ENGINEER DATE

TITLE ASSY S51,GUIDE_MS-2

DWG NO. - 3rd



A.3 Guide MS Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	-	ASSY S51, GUIDE_MS-1		1
2	-	ASSY S51, GUIDE_MS-2		1
3	630185	SEN_CENT_51 PRT BD, SMART51 PRT, 0.1		1
4	610365	SCREW SS, T2_3X6, FH		1
5	610502	SPRING SS, CLEANING_ROLLER		2

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

NOTE

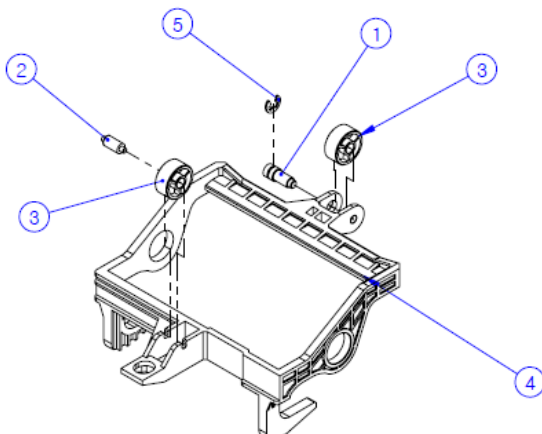
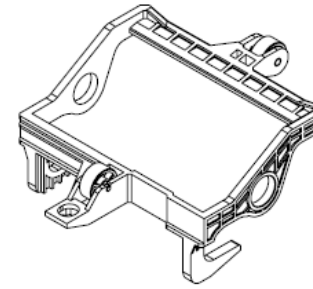
GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:2	A4	1
~ 6.0	±0.05	±0.05			
6.0 ~ 30.0	±0.1	±0.1			
30.0 ~ 120.0	±0.15	±0.2			
120.0 ~ 400.0	±0.2	±0.3			
400.0 ~	±0.25	±0.5			

ENG	NAME	SIGNATURE	DATE
CHK'D			2016-07-21
APPV'D			
MFG			

REASON		REVISION	ENGINEER	DATE
TITLE		ASSY S51, GUIDE_MS-3		
DWG NO.	-	3rd		

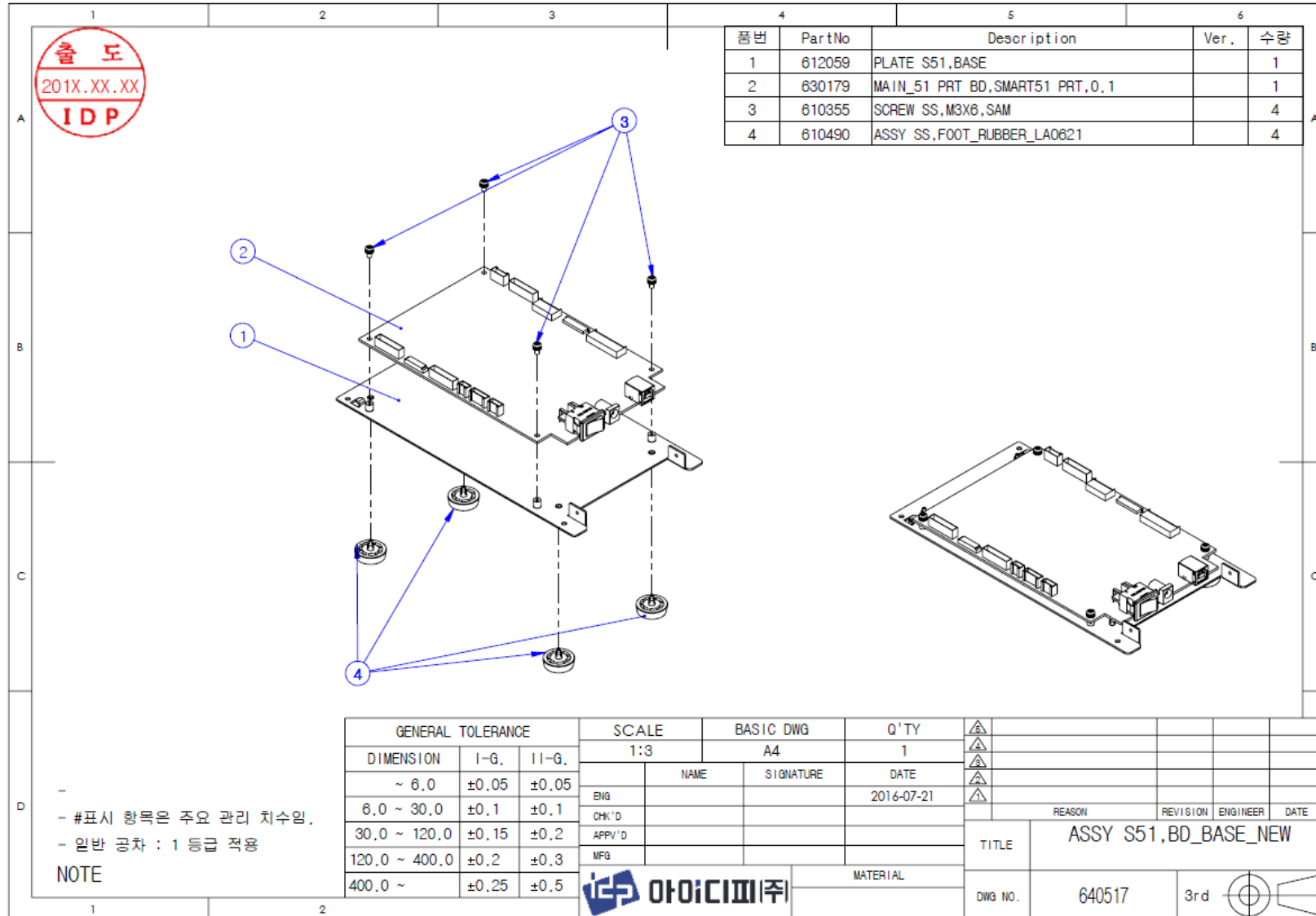
A.4 Tension Roller Assy.

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6																														
			<table border="1"> <thead> <tr> <th>품번</th> <th>PartNo</th> <th>Description</th> <th>Ver.</th> <th>수량</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>612091</td> <td>SHAFT S51,TENSION_ROLLER</td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>610397</td> <td>SHAFT SS,TENSION_ROLLER_A</td> <td></td> <td>1</td> </tr> <tr> <td>3</td> <td>612081</td> <td>ROLLER S51,TENSION_IDLER</td> <td></td> <td>2</td> </tr> <tr> <td>4</td> <td>612022</td> <td>BRACKET S51,TENSION_ROLLER</td> <td></td> <td>1</td> </tr> <tr> <td>5</td> <td>610954</td> <td>E_RING SS,P13_Y</td> <td></td> <td>1</td> </tr> </tbody> </table>			품번	PartNo	Description	Ver.	수량	1	612091	SHAFT S51,TENSION_ROLLER		1	2	610397	SHAFT SS,TENSION_ROLLER_A		1	3	612081	ROLLER S51,TENSION_IDLER		2	4	612022	BRACKET S51,TENSION_ROLLER		1	5	610954	E_RING SS,P13_Y		1
품번	PartNo	Description	Ver.	수량																															
1	612091	SHAFT S51,TENSION_ROLLER		1																															
2	610397	SHAFT SS,TENSION_ROLLER_A		1																															
3	612081	ROLLER S51,TENSION_IDLER		2																															
4	612022	BRACKET S51,TENSION_ROLLER		1																															
5	610954	E_RING SS,P13_Y		1																															
																																			
출 도 201X.XX.XX IDP																																			
SCALE 1:2 BASIC DWG A4 Q'TY 1 DATE 2016-07-21			REASON REVISION ENGINEER DATE																																
GENERAL TOLERANCE <table border="1"> <thead> <tr> <th>DIMENSION</th> <th>I-G.</th> <th>II-G.</th> </tr> </thead> <tbody> <tr> <td>~ 6.0</td> <td>±0.05</td> <td>±0.05</td> </tr> <tr> <td>6.0 ~ 30.0</td> <td>±0.1</td> <td>±0.1</td> </tr> <tr> <td>30.0 ~ 120.0</td> <td>±0.15</td> <td>±0.2</td> </tr> <tr> <td>120.0 ~ 400.0</td> <td>±0.2</td> <td>±0.3</td> </tr> <tr> <td>400.0 ~</td> <td>±0.25</td> <td>±0.5</td> </tr> </tbody> </table>			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	TITLE ASSY S51, TENSION_IDLER_ROLLER DWG NO. 640536 3rd														
DIMENSION	I-G.	II-G.																																	
~ 6.0	±0.05	±0.05																																	
6.0 ~ 30.0	±0.1	±0.1																																	
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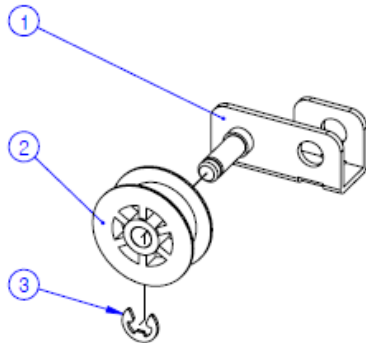
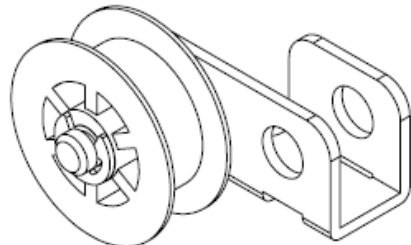
A.5 Main Board Assy.

YOUR BEST ID PRINTER PROVIDER



A.6 Auto Tension Roller Assy.

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6																				
																									
			출 도 201X.XX.XX IDP	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>품번</th> <th>PartNo</th> <th>Description</th> <th>Ver.</th> <th>수량</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>612190</td> <td>PLATE S51,BK_IDLE_ROLLER</td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>612180</td> <td>ROLLER S51,BELT_IDLE</td> <td>V1.0</td> <td>1</td> </tr> <tr> <td>3</td> <td>610954</td> <td>E_RING SS,Pi3_Y</td> <td></td> <td>1</td> </tr> </tbody> </table>	품번	PartNo	Description	Ver.	수량	1	612190	PLATE S51,BK_IDLE_ROLLER		1	2	612180	ROLLER S51,BELT_IDLE	V1.0	1	3	610954	E_RING SS,Pi3_Y		1	
			품번	PartNo	Description	Ver.	수량																		
			1	612190	PLATE S51,BK_IDLE_ROLLER		1																		
2	612180	ROLLER S51,BELT_IDLE	V1.0	1																					
3	610954	E_RING SS,Pi3_Y		1																					

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY				
DIMENSION	I-G.	II-G.	2:1	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			2016-11-02					
CHK'D								
APPV'D								
MFG								

TITLE		ASSY S51,BK_AUTO_TENSION	
DWG NO.	64	3rd	

A.7 Film Path Guide Assy.

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
			품번	PartNo	Description
			1	612125	BRACKET S51_GUIDE_FLIM_ASSY
			2	610689	BRUSH SS,SUS_BRUSH,10mm
			Ver.	수량	
				1	
				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							

NOTE

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

ENG	NAME	SIGNATURE	DATE
CHK'D			2016-07-21
APPV'D			
MFG			

		MATERIAL	
ASSY		ASSY	

TITLE	ASSY S51,FLIM_PATH_GUIDE		
DWG NO.	640521	3rd	

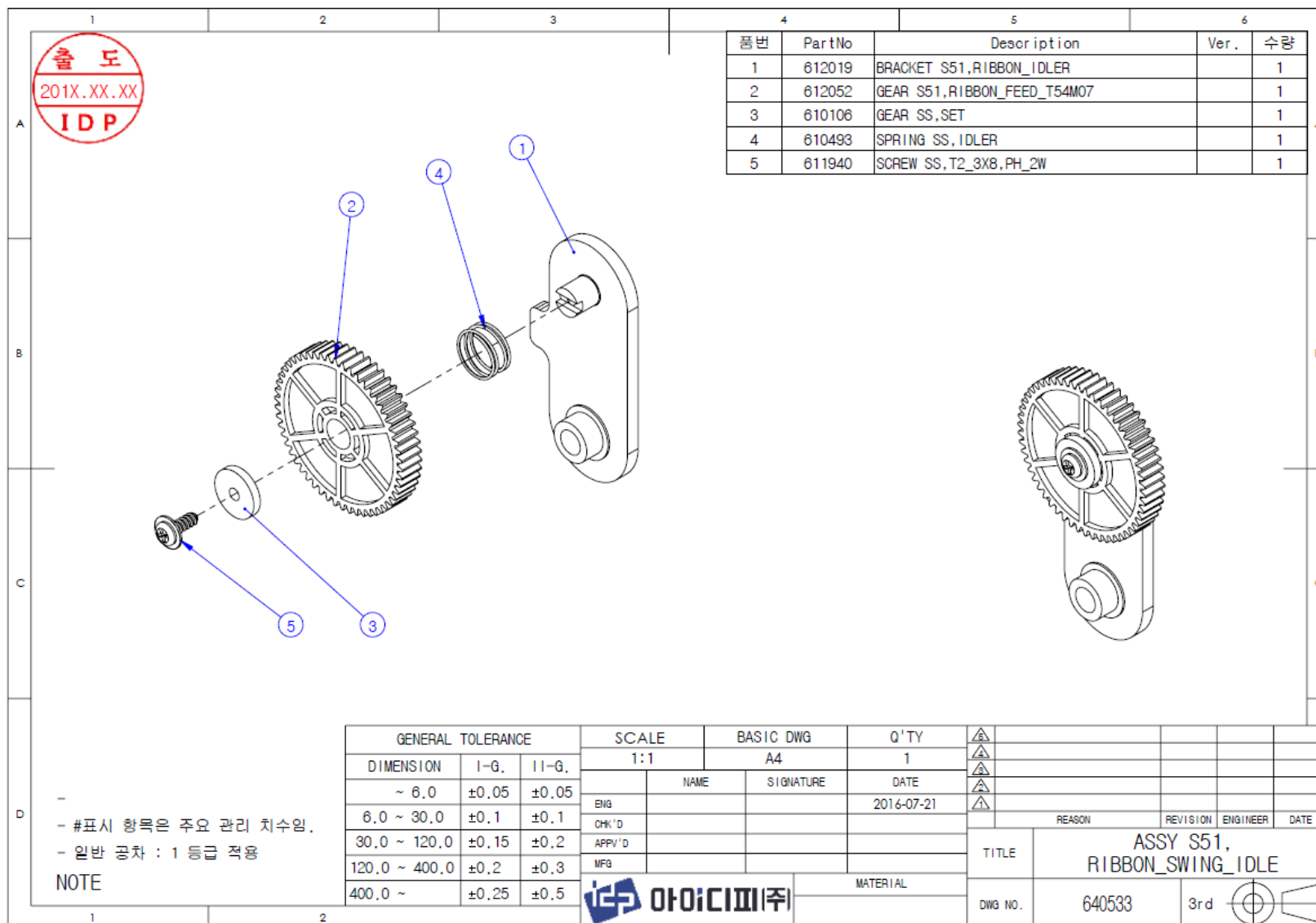
A.8 Head Down-Up Shaft Assy.

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6																									
			<table border="1"> <thead> <tr> <th>품번</th> <th>PartNo</th> <th>Description</th> <th>Ver.</th> <th>수량</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>612085</td> <td>SHAFT S51, HEAD_UP_DOWN</td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>610955</td> <td>E_RING SS, P14_Y</td> <td></td> <td>2</td> </tr> <tr> <td>3</td> <td>612027</td> <td>CAM S51, HEAD_UP_DOWN</td> <td></td> <td>2</td> </tr> <tr> <td>4</td> <td>612024</td> <td>BUSH S51, HEAD_DOWN_UP_CAM HOLDER</td> <td></td> <td>2</td> </tr> </tbody> </table>			품번	PartNo	Description	Ver.	수량	1	612085	SHAFT S51, HEAD_UP_DOWN		1	2	610955	E_RING SS, P14_Y		2	3	612027	CAM S51, HEAD_UP_DOWN		2	4	612024	BUSH S51, HEAD_DOWN_UP_CAM HOLDER		2
품번	PartNo	Description	Ver.	수량																										
1	612085	SHAFT S51, HEAD_UP_DOWN		1																										
2	610955	E_RING SS, P14_Y		2																										
3	612027	CAM S51, HEAD_UP_DOWN		2																										
4	612024	BUSH S51, HEAD_DOWN_UP_CAM HOLDER		2																										
출 도 201X.XX.XX IDP																														
SCALE 1:2 BASIC DWG A4 Q'TY 1 DATE 2016-07-21 REASON REVISION ENGINEER DATE																														
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DIMENSION	I-G.	II-G.																												
~ 6.0	±0.05	±0.05																												
6.0 ~ 30.0	±0.1	±0.1																												
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마이크로소프트																														
MATERIAL																														
TITLE ASSY S51, HEAD_DOWN_UP_SHAFT																														
DWG NO. 640528																														
3rd																														

A.9 Ribbon Swing Gear Assy.

YOUR BEST ID PRINTER PROVIDER



A.10 Side Plate Left Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	612281	PLATE S51,FRAME_LEFT	V1.0	1
2	612185	BRACKET S51,LOCK_TOPCOVER	V1.0	1
3	611752	SCREW SS,T2_3X6,PH_2W		5
4	612020	BRACKET S51,RIBBON_SUPPLY		1
5	640111	ASSY SS,RIBBON_MOTOR		1
6	610357	SCREW SS,M3X8,SAM		2
7	610433	TIE SS,RETAINER_COIL_RB2		1
8	612047	GEAR S51,ENCODER_T55M07		1
9	612291	SHAFT S51,RIBBON_FEED	V1.0	1
10	612096	SPRING S51,RIBBON_FEED_SUPPLY		1
11	612100	WASHER S51,PI6_DCUT		1
12	612099	SWSPT10-6-0.5		2
13	610955	E_RING SS,PI4_Y		2
14	612051	GEAR S51,RIBBON_FEED_T33M07		1

NOTE

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- 일반 공차 : 1 등급 적용

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:3	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			

아이디피주

NAME	SIGNATURE	DATE	REASON	REVISION	ENGINEER	DATE
ENG		2016-07-21				
CHK'D						
APPV'D						
MFG						

TITLE

ASSY S51,SIDE_PLATE_LEFT-1

DWG NO.

-

3rd

A.10 Side Plate Left Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	-	ASSY S51,SIDE_PLATE_LEFT-1		1
2	612178	BRACKET S51,RIBBON_TAKE_UP	V1.0	1
3	611752	SCREW SS,T2_3X6,PH_2W		2
4	612090	SHAFT S51,RIBBON_FEED		1
5	612051	GEAR S51,RIBBON_FEED_T33M07		1
6	612046	GEAR S51,ENCODER_GUIDE_T55M07		1
7	612099	SWSPT10-6-0.5		2
8	612100	WASHER S51,PI6_DCUT		1
9	612096	SPRING S51,RIBBON_FEED_SUPPLY		1
10	610955	E_RING SS,PI4_Y		2
11	630031	HEAD U/D MOTOR BD,SMART,0.4		1
12	610355	SCREW SS,M3X6,SAM		3

NOTE

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- 일반 공차 : 1 등급 적용

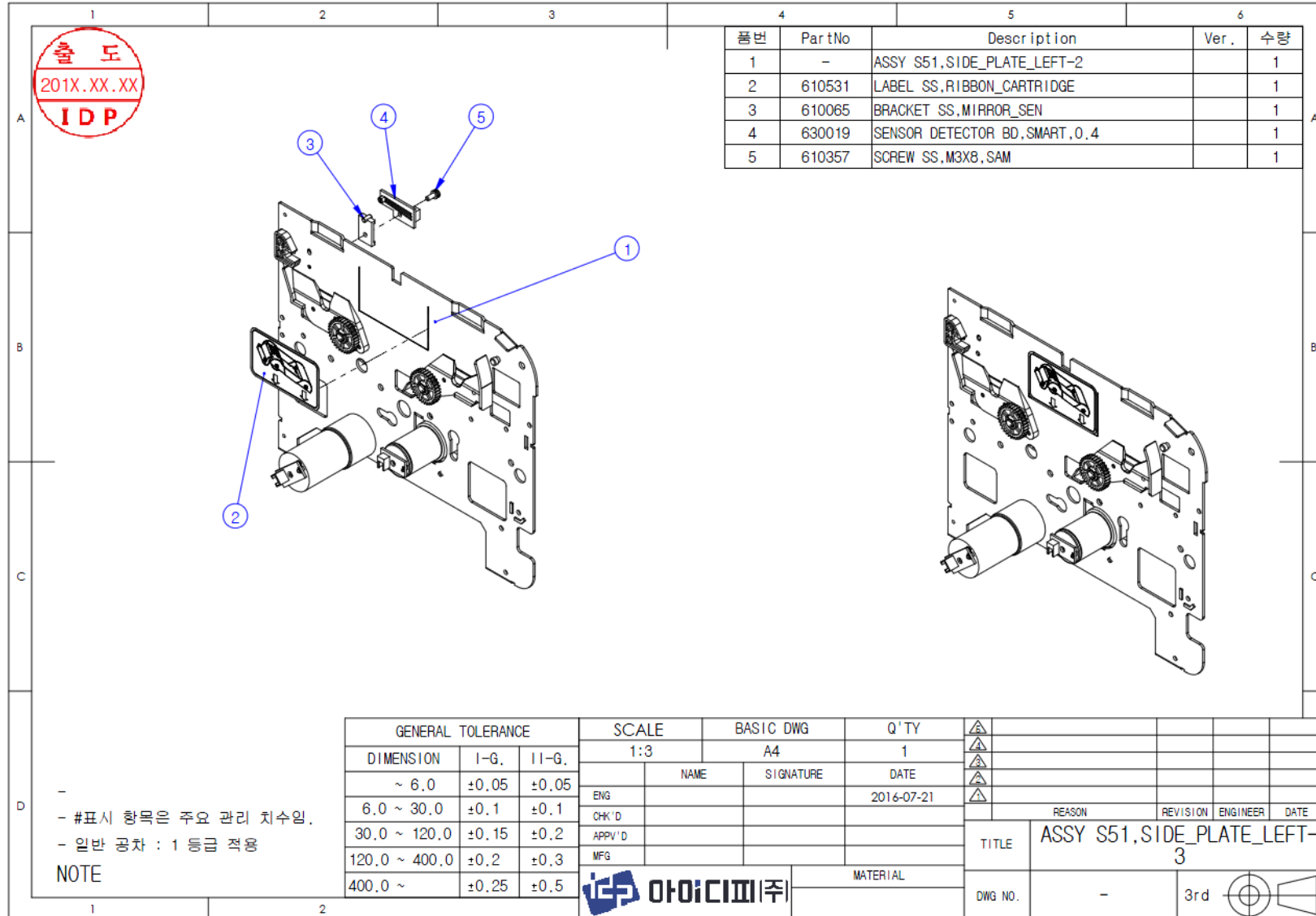
GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:3	A4	1
~ 6.0	±0.05	±0.05			
6.0 ~ 30.0	±0.1	±0.1			
30.0 ~ 120.0	±0.15	±0.2			
120.0 ~ 400.0	±0.2	±0.3			
400.0 ~	±0.25	±0.5			

아이디피주

REASON	REVISION	ENGINEER	DATE
ASSY S51,SIDE_PLATE_LEFT-2			

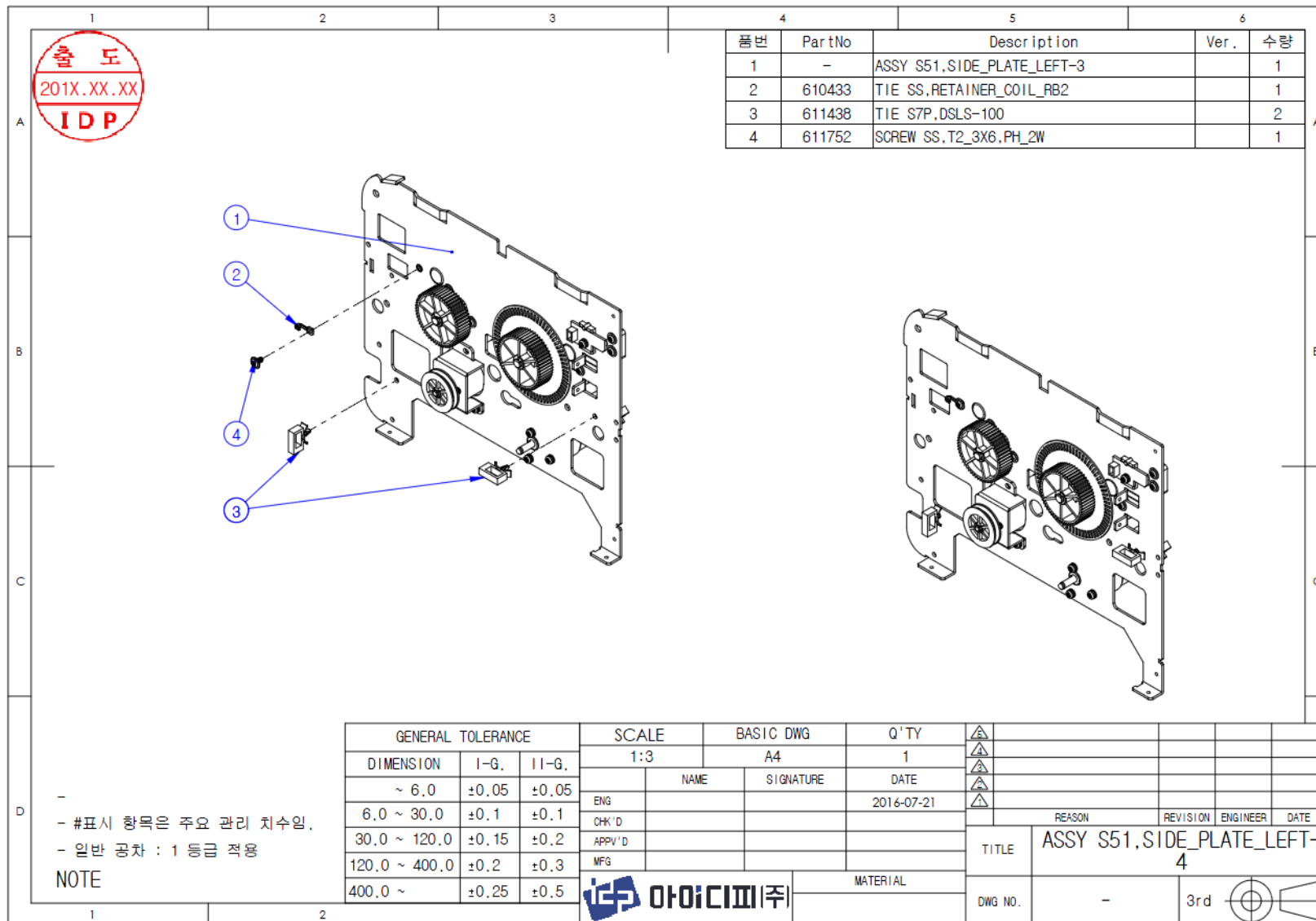
A.10 Side Plate Left Assy.

YOUR BEST ID PRINTER PROVIDER



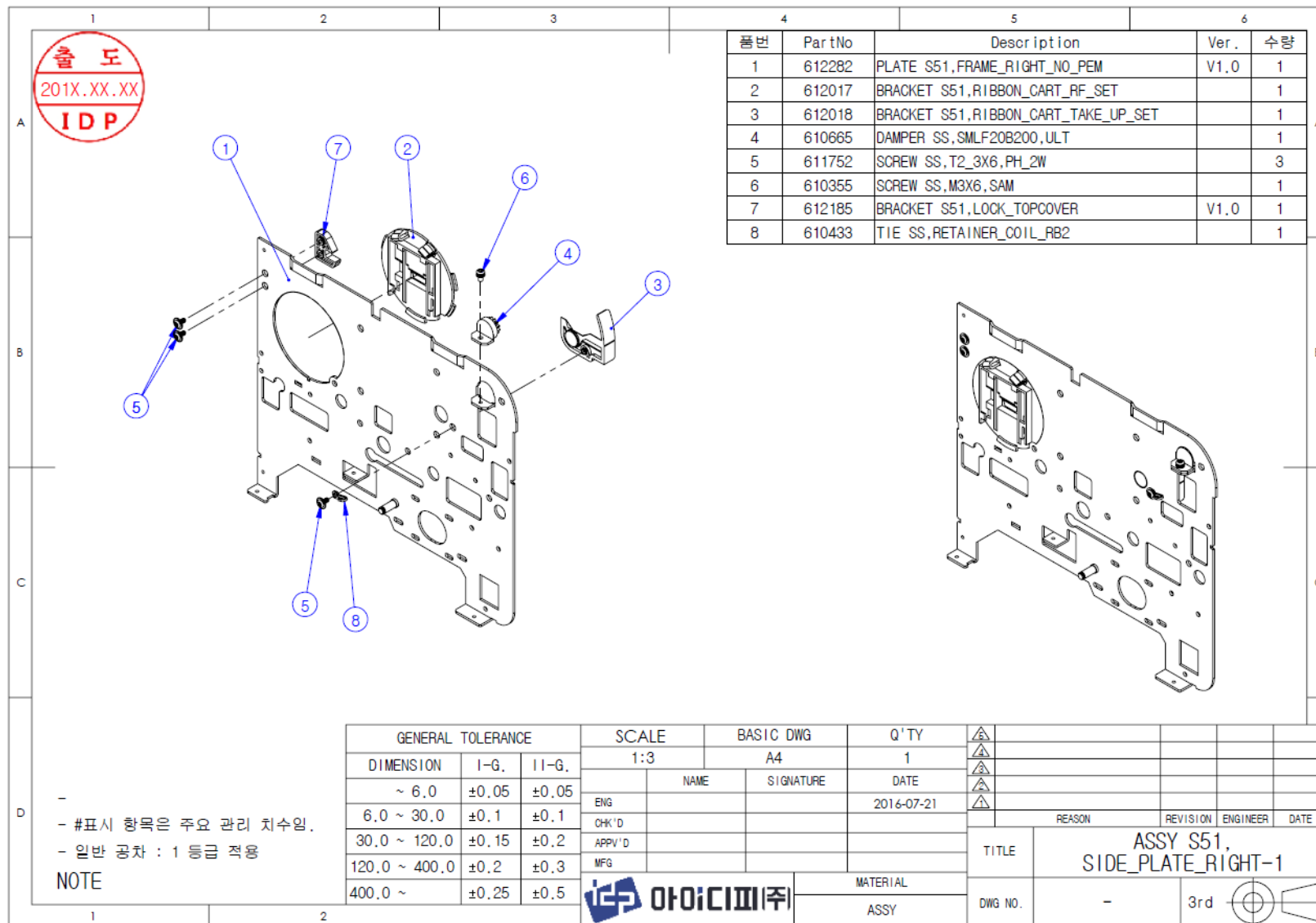
A.10 Side Plate Left Assy.

YOUR BEST ID PRINTER PROVIDER



A.11 Side Plate Right Assy.

YOUR BEST ID PRINTER PROVIDER



A.11 Side Plate Right Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	-	ASSY S51, SIDE_PLATE_RIGHT-1		1
2	630183	SEN_HEAD_51 PRT BD, SMART51 PRT, 0.1		1
3	610355	SCREW SS, M3X6, SAM		1
4	611438	TIE S7P, DSLS-100		2
5	-	ASSY S51, BK_AUTO_TENSION		1
6	612191	SPRING S51, AUTO_TENSION		1
7	610955	E_RING SS, P14_Y		1

NOTE

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GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:3	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			

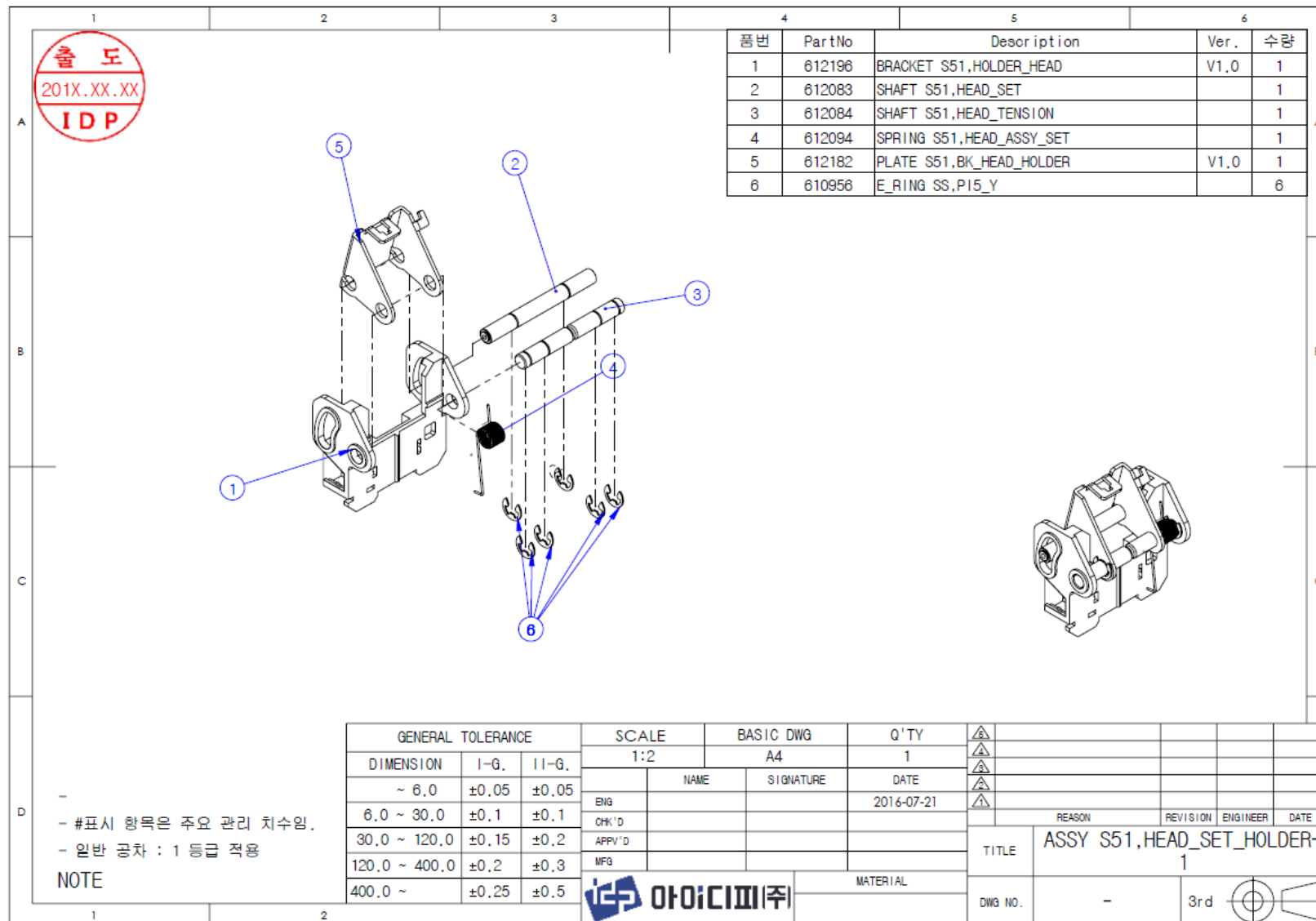
NAME	SIGNATURE	DATE
ENG		2016-07-21
CHK'D		
APPV'D		
MFG		

TITLE	REASON	REVISION	ENGINEER	DATE
ASSY S51, SIDE_PLATE_RIGHT-2				

MATERIAL	DWG NO.	3rd
ASSY	-	

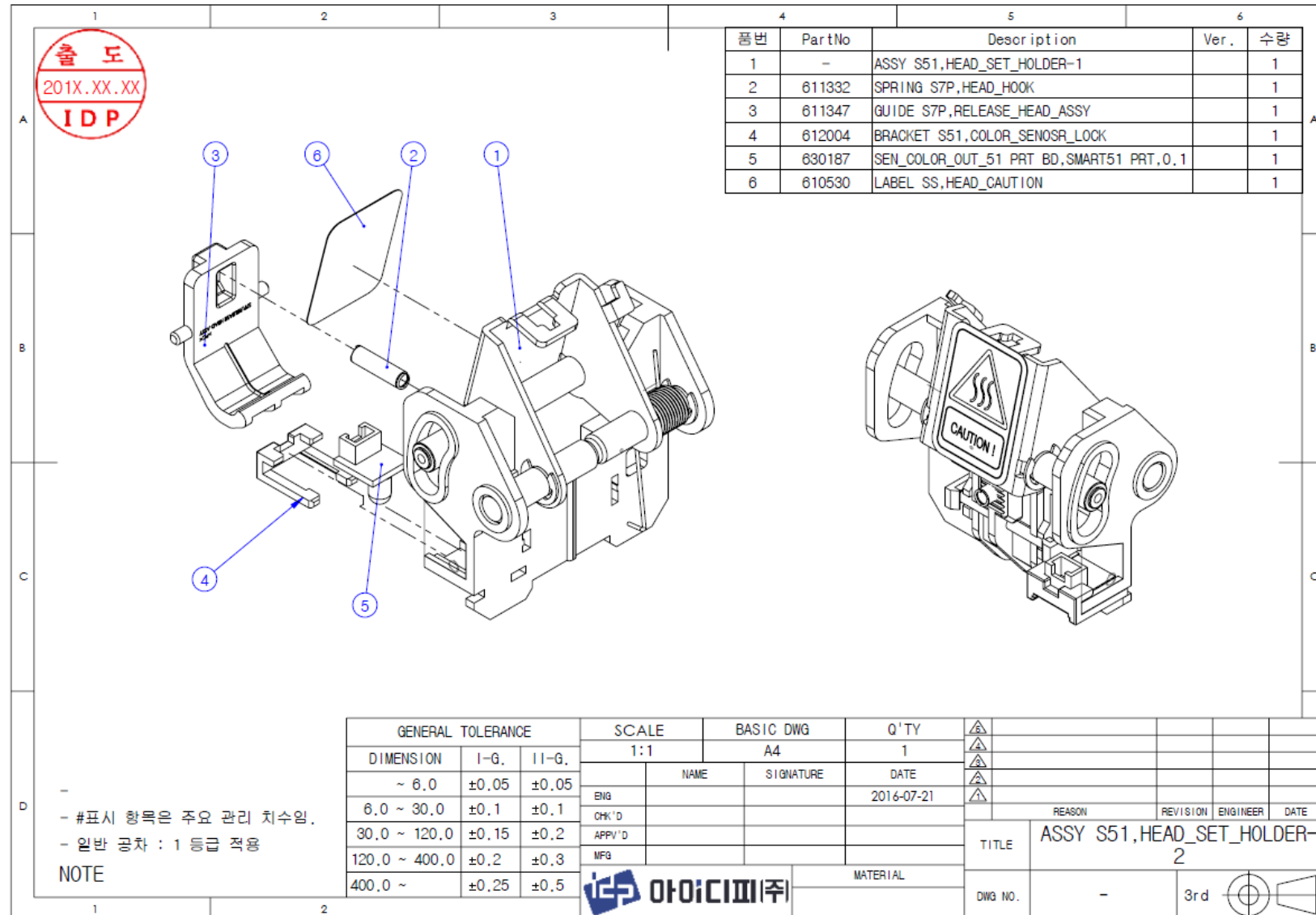
A.12 Head Set Holder Assy.

YOUR BEST ID PRINTER PROVIDER



A.12 Head Set Holder Assy.

YOUR BEST ID PRINTER PROVIDER



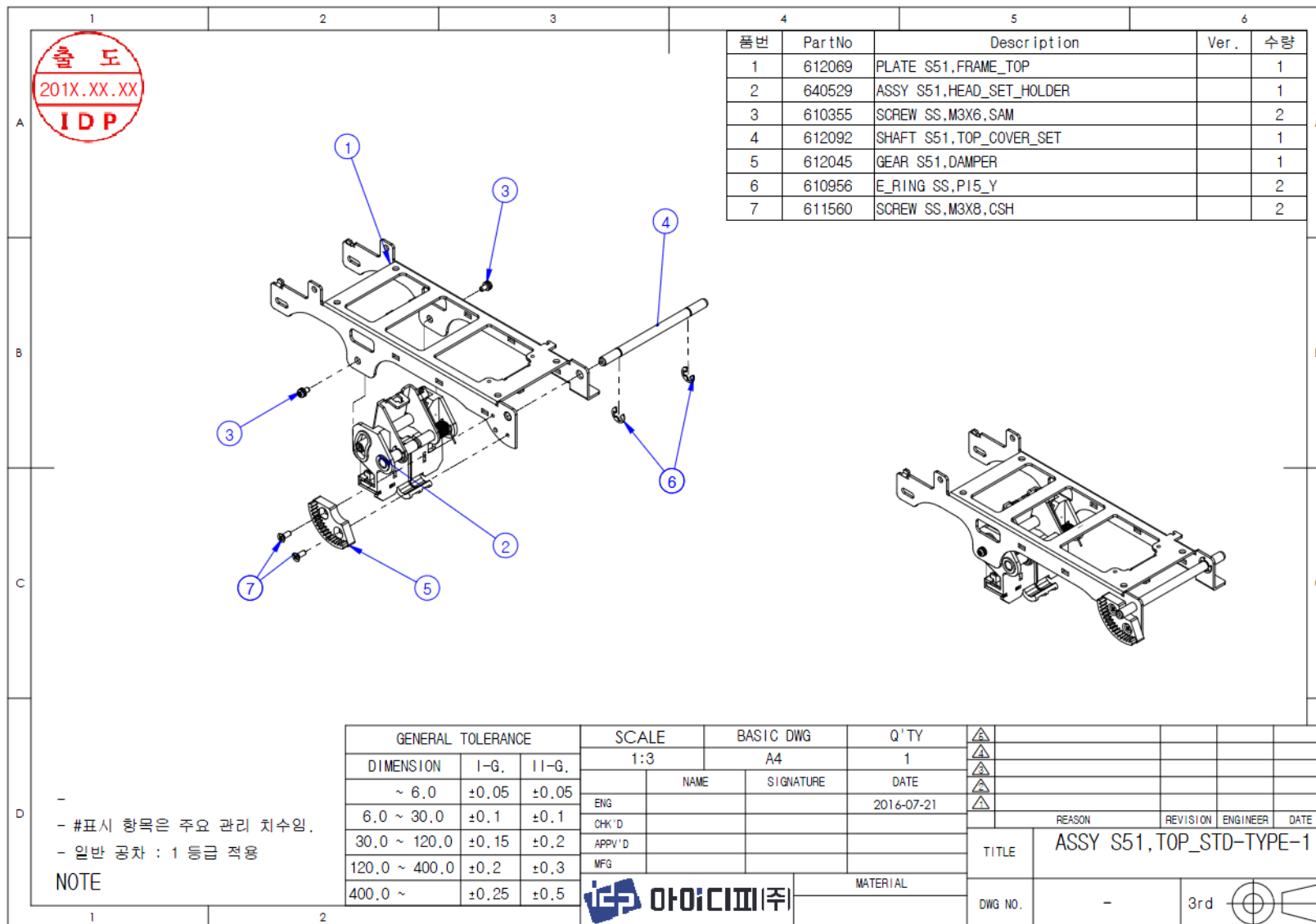
A.13 Button Top Assy.

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6																				
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품번	PartNo	Description	Ver.	수량																					
1	612064	PLATE S51,BK_LOCK_TOP		1																					
2	612040	COVER S51,TOP_BUTTON		1																					
3	611752	SCREW SS,T2_3X6,PH_2W		2																					
출 도 201X.XX.XX IDP																									
SCALE 1:2 BASIC DWG A4 Q'TY 1 DATE 2016-07-21 REASON REVISION ENGINEER DATE TITLE ASSY S51,BUTTON_TOP DWG NO. 640519 3rd																									
GENERAL TOLERANCE <table border="1"> <thead> <tr> <th>DIMENSION</th> <th>I-G.</th> <th>II-G.</th> </tr> </thead> <tbody> <tr> <td>~ 6.0</td> <td>±0.05</td> <td>±0.05</td> </tr> <tr> <td>6.0 ~ 30.0</td> <td>±0.1</td> <td>±0.1</td> </tr> <tr> <td>30.0 ~ 120.0</td> <td>±0.15</td> <td>±0.2</td> </tr> <tr> <td>120.0 ~ 400.0</td> <td>±0.2</td> <td>±0.3</td> </tr> <tr> <td>400.0 ~</td> <td>±0.25</td> <td>±0.5</td> </tr> </tbody> </table>			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					
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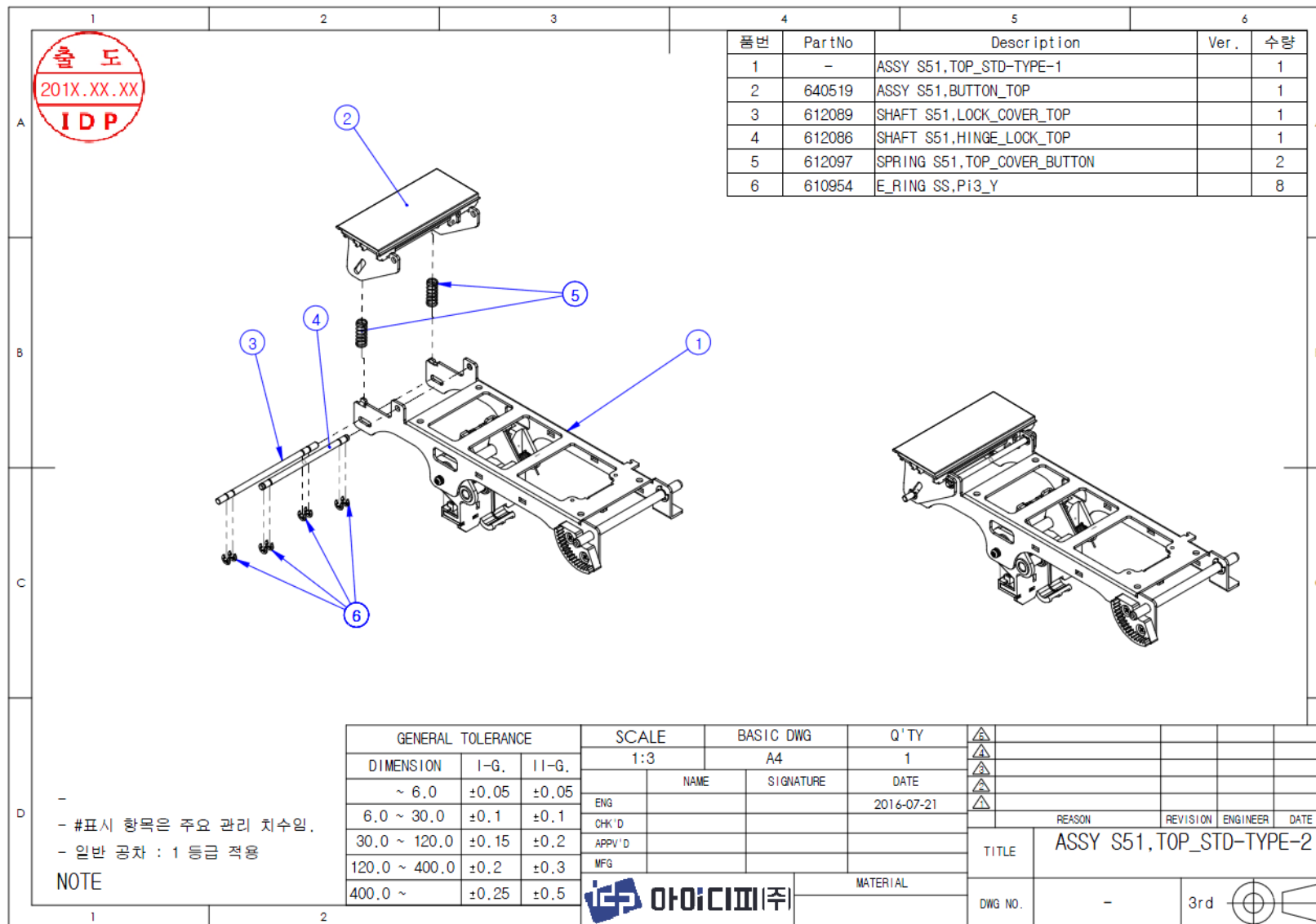
A.14 Top Plate STD-Type Assy.

YOUR BEST ID PRINTER PROVIDER



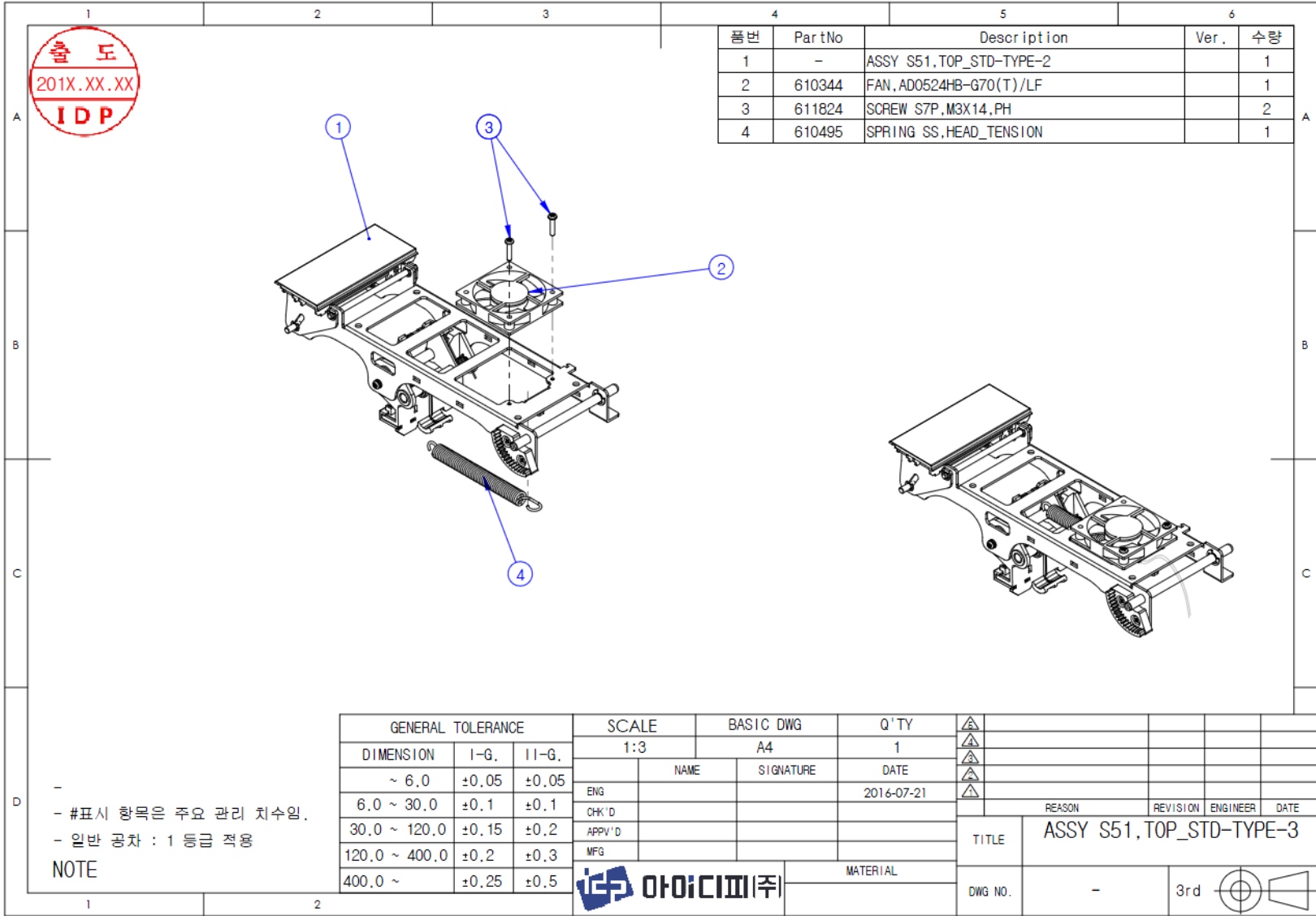
A.14 Top Plate STD-Type Assy.

YOUR BEST ID PRINTER PROVIDER



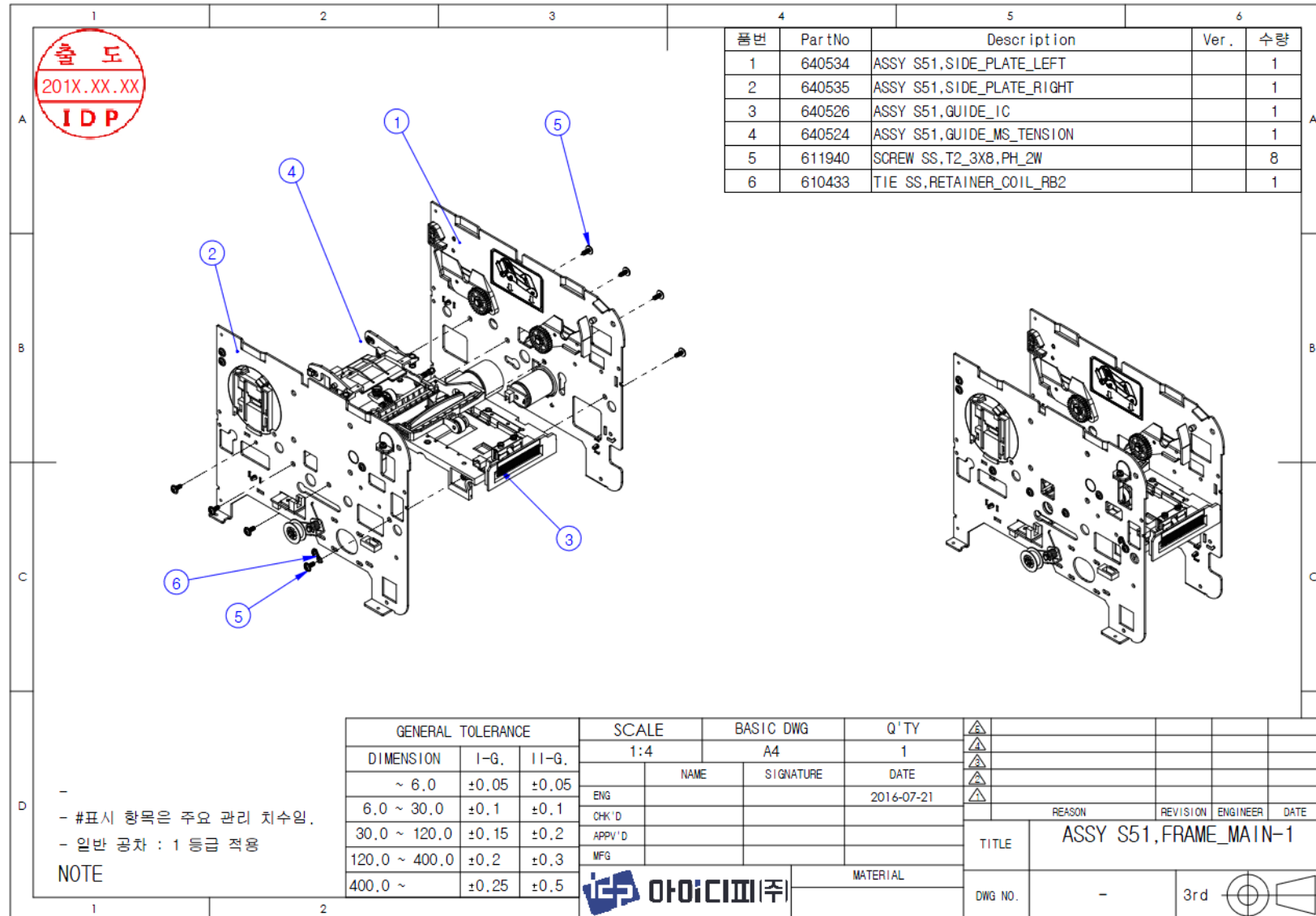
A.14 Top Plate STD-Type Assy.

YOUR BEST ID PRINTER PROVIDER



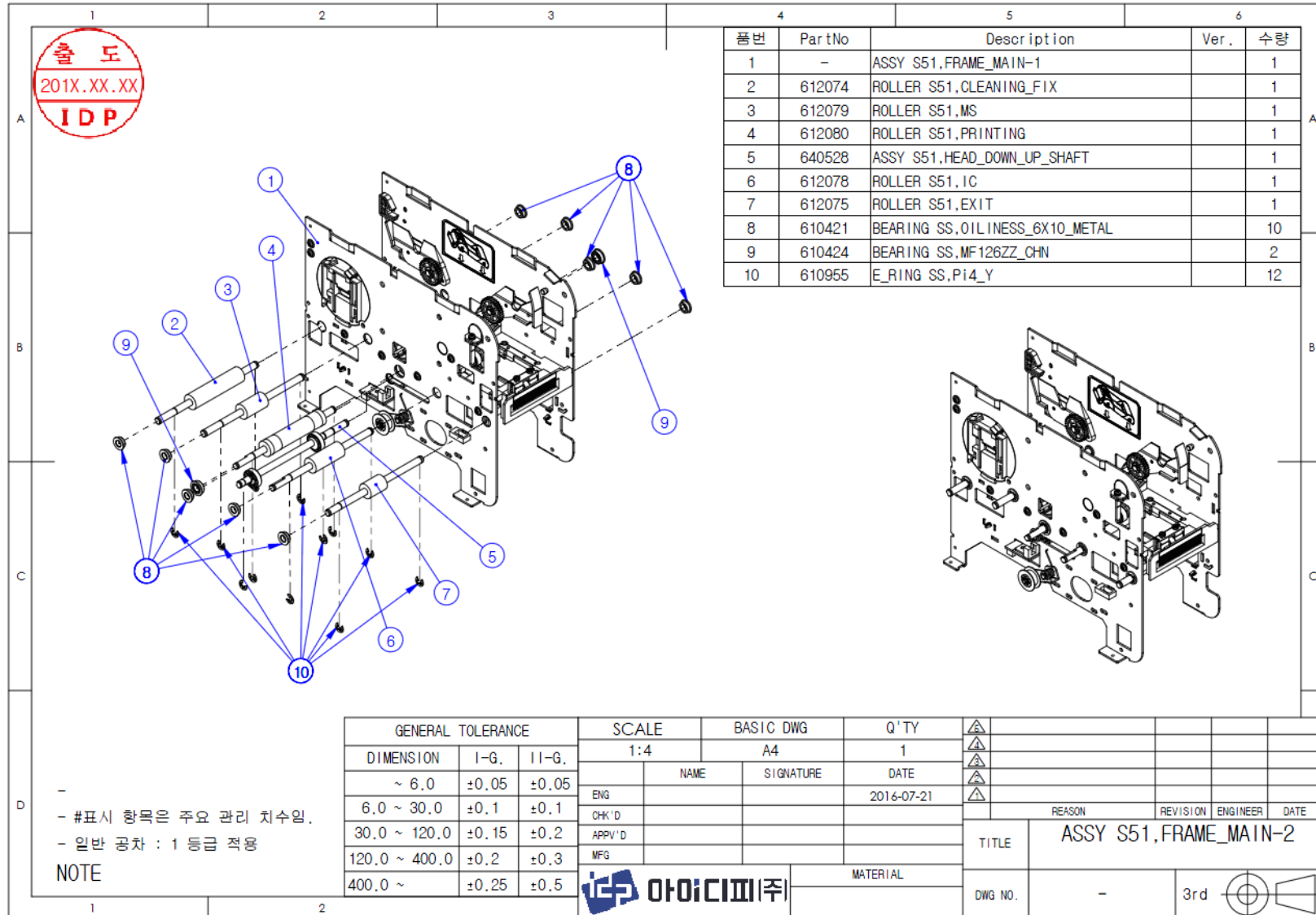
A.15 Frame Main Assy.

YOUR BEST ID PRINTER PROVIDER



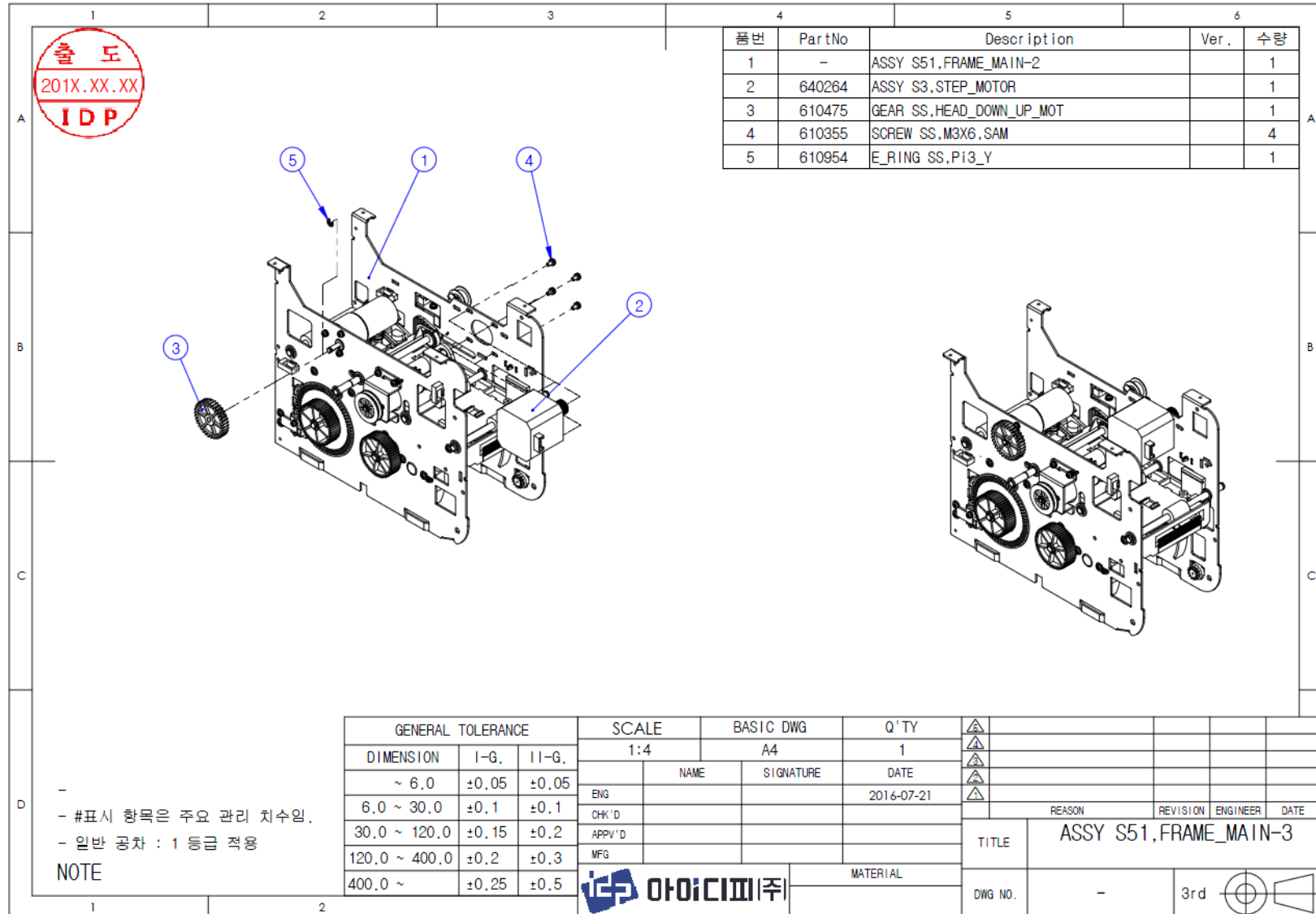
A.15 Frame Main Assy.

YOUR BEST ID PRINTER PROVIDER



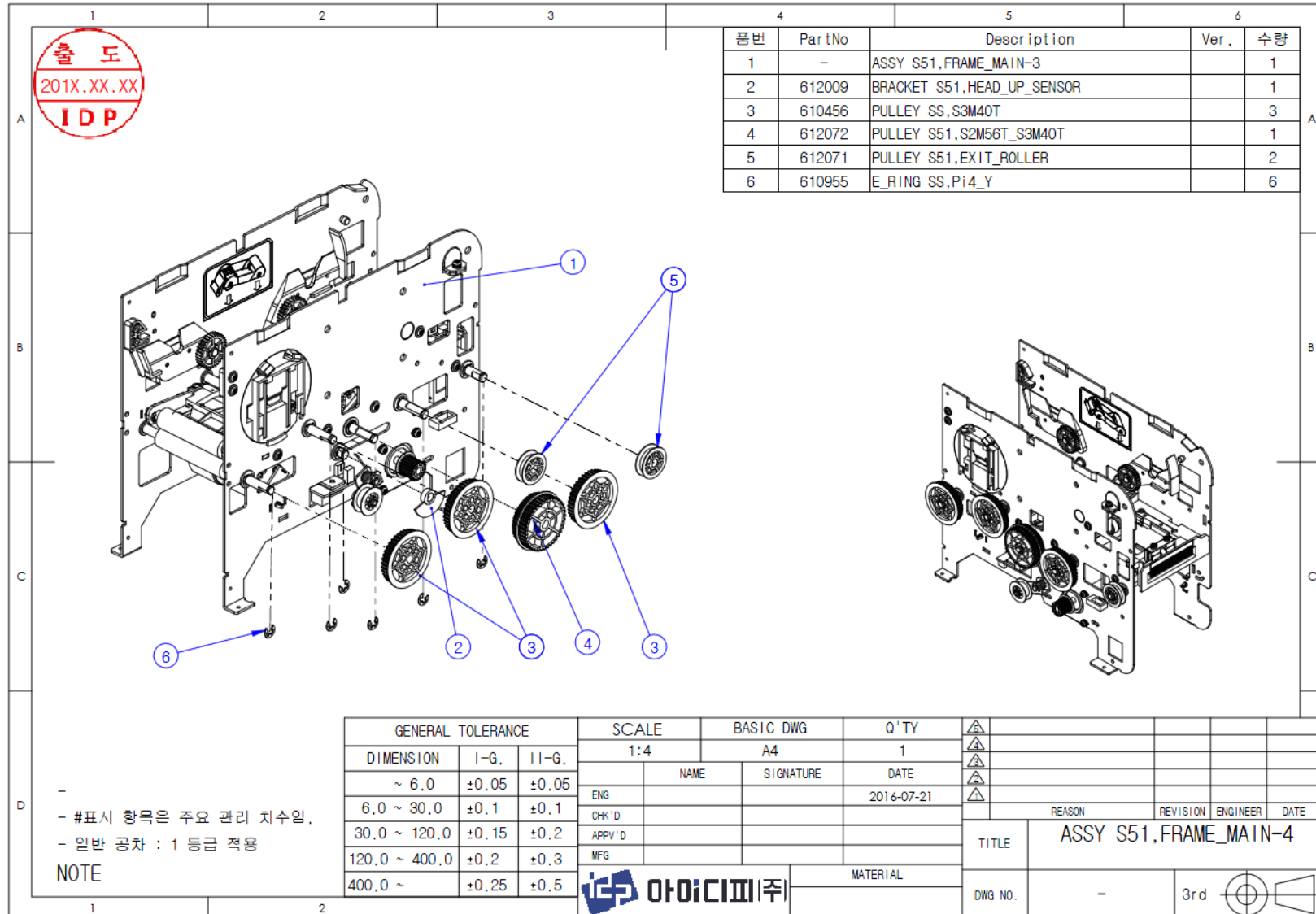
A.15 Frame Main Assy.

YOUR BEST ID PRINTER PROVIDER



A.15 Frame Main Assy.

YOUR BEST ID PRINTER PROVIDER



A.15 Frame Main Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	-	ASSY S51,FRAME_MAIN-4		1
2	640521	ASSY S51,FLIM_PATH_GUIDE		1
3	611110	SCREW S3,T2_2,6X6,PH		2
4	630180	RF_ANT BD,SMART51 PRT,0.1		1

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:4	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		2016-07-21
CHK'D		
APPV'D		
MFG		

REASON	REVISION	ENGINEER	DATE

NOTE

- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

TITLE

ASSY S51,FRAME_MAIN-5

DWG NO.

-

3rd

A.15 Frame Main Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	-	ASSY S51,FRAME_MAIN-5		1
2	612090	SHAFT S51,RIBBON_FEED		1
3	612099	SWSPT10-6-0,5		2
4	612051	GEAR S51,RIBBON_FEED_T33M07		1
5	612100	WASHER S51,PI6_DCUT		1
6	612096	SPRING S51,RIBBON_FEED_SUPPLY		1
7	612047	GEAR S51,ENCODER_T55M07		1
8	610955	E_RING SS,PI4_Y		2

출 도
201X.XX.XX
IDP

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY
DIMENSION	I-G.	II-G.	1:4	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

아미디피(주)

NAME	SIGNATURE	DATE
ENG		2016-07-21
CHK'D		
APPV'D		
MFG		

TITLE

ASSY S51,FRAME_MAIN-6

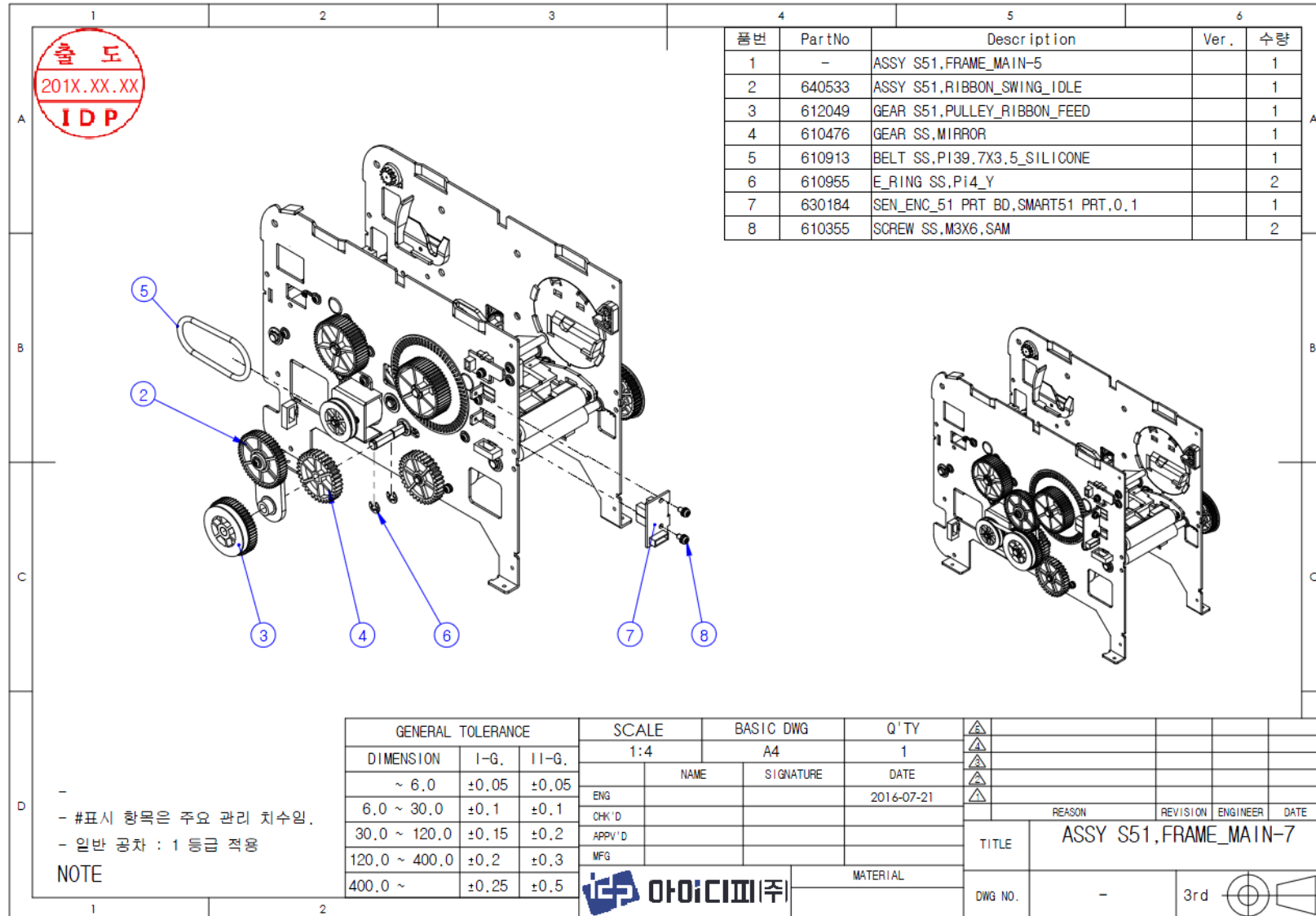
DWG NO.

-

3rd

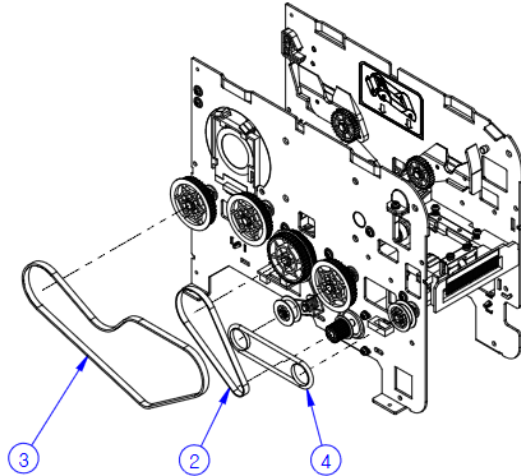
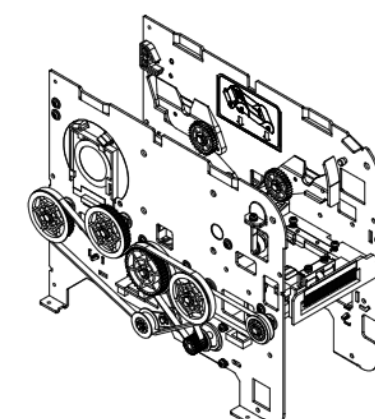
A.15 Frame Main Assy.

YOUR BEST ID PRINTER PROVIDER



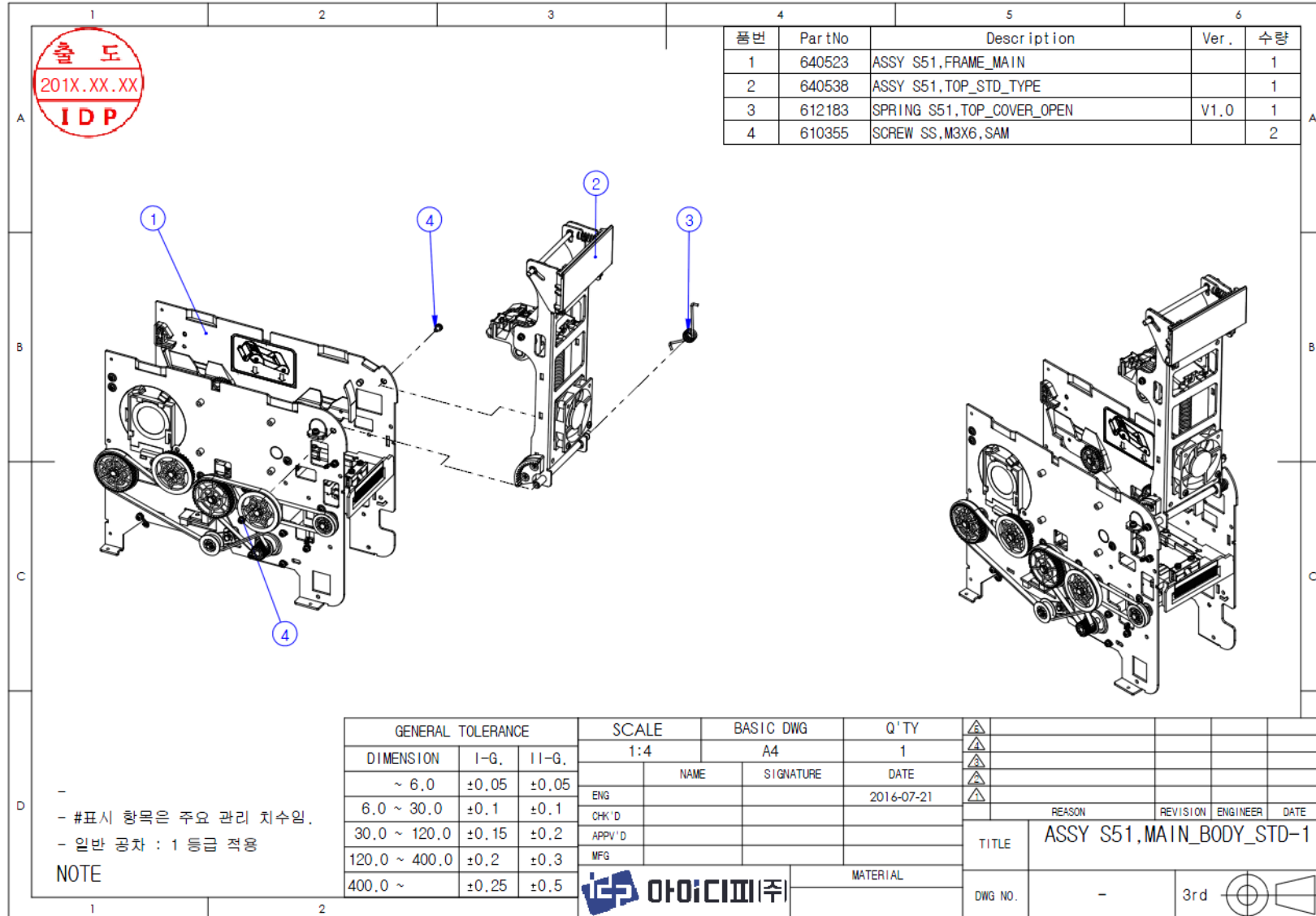
A.15 Frame Main Assy.

YOUR BEST ID PRINTER PROVIDER

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MFG																																															
TITLE			ASSY S51,FRAME_MAIN-8																																												
DWG NO.			3rd																																												

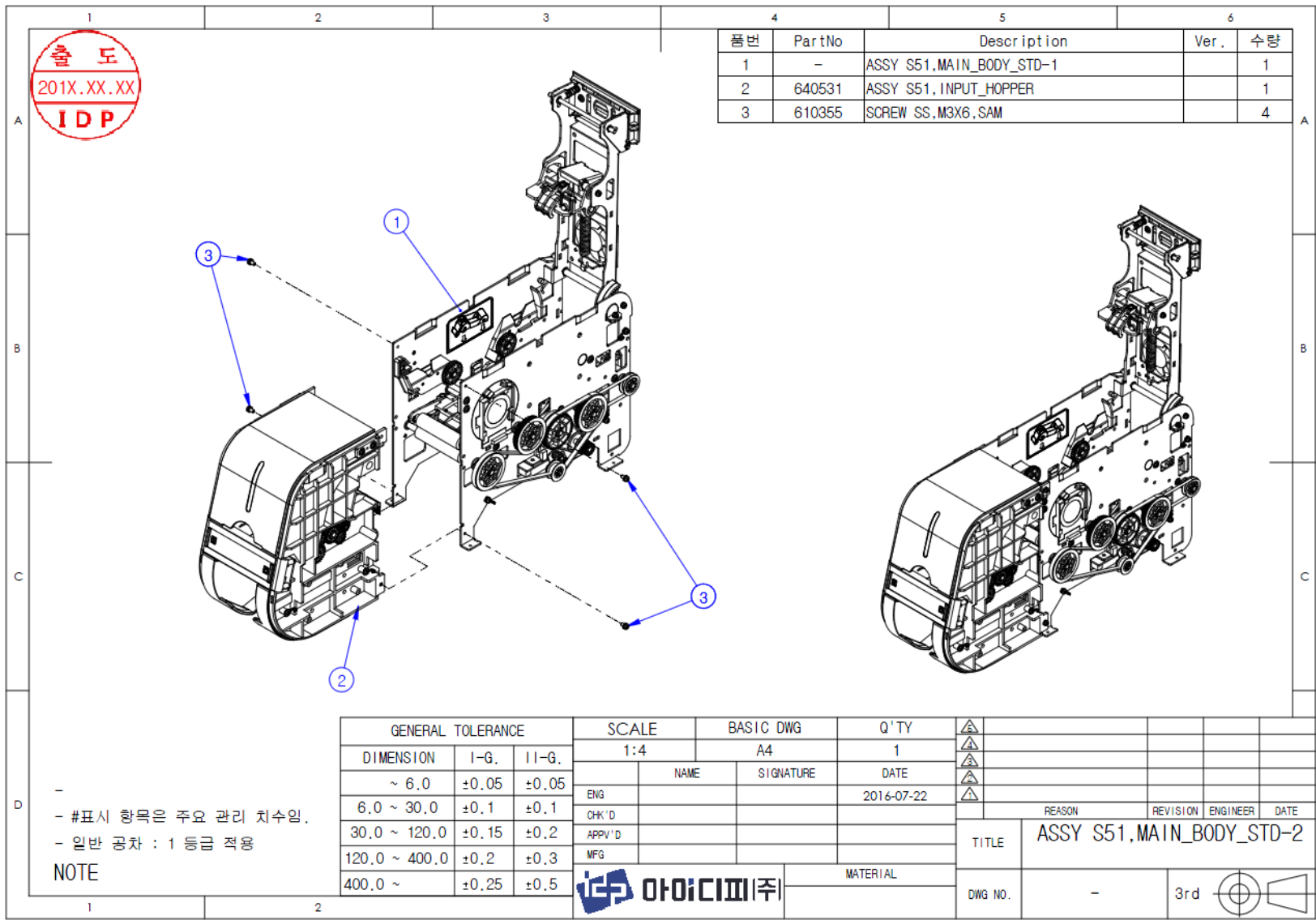
A.16 Main Body Assy.

YOUR BEST ID PRINTER PROVIDER



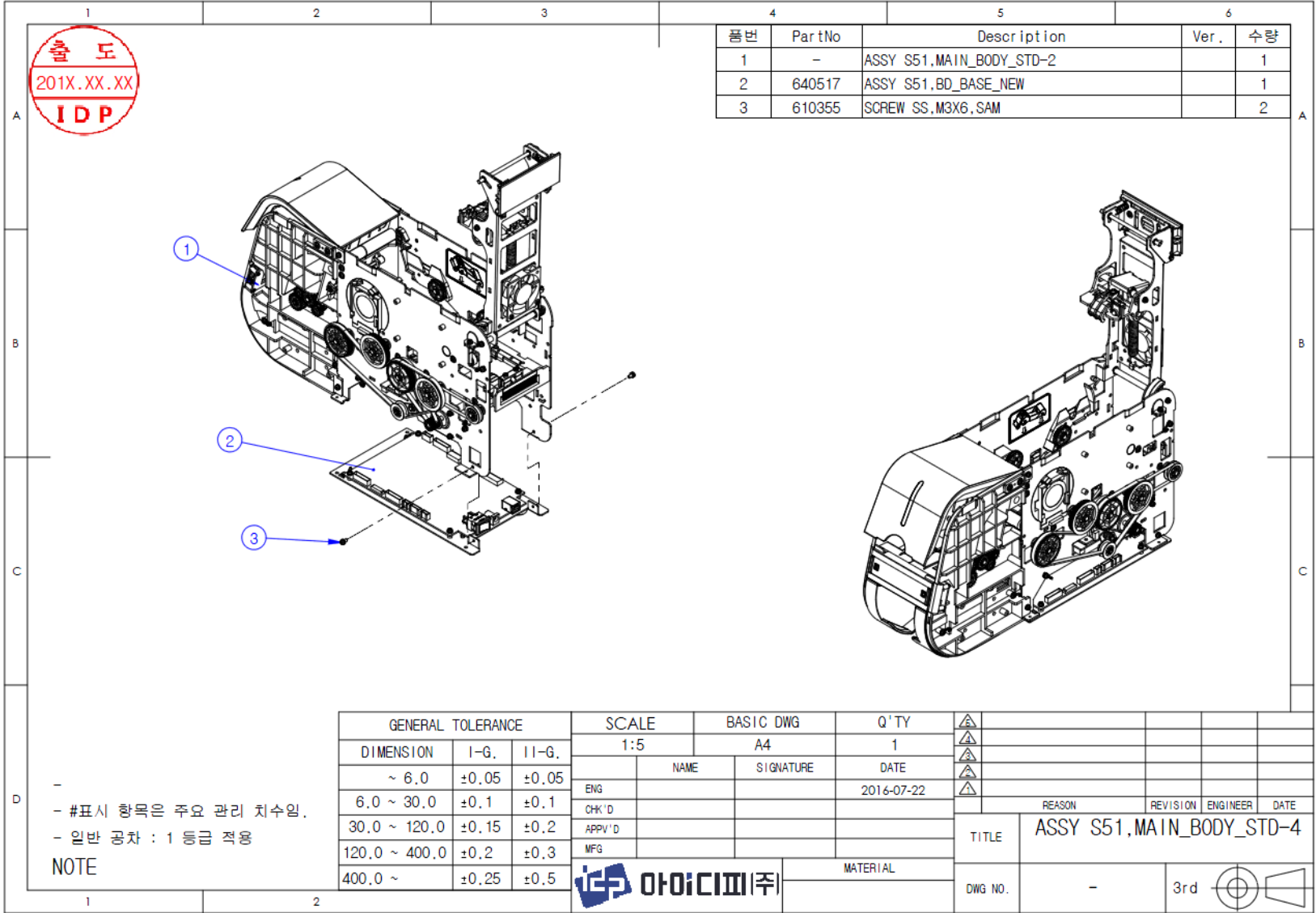
A.16 Main Body Assy.

YOUR BEST ID PRINTER PROVIDER



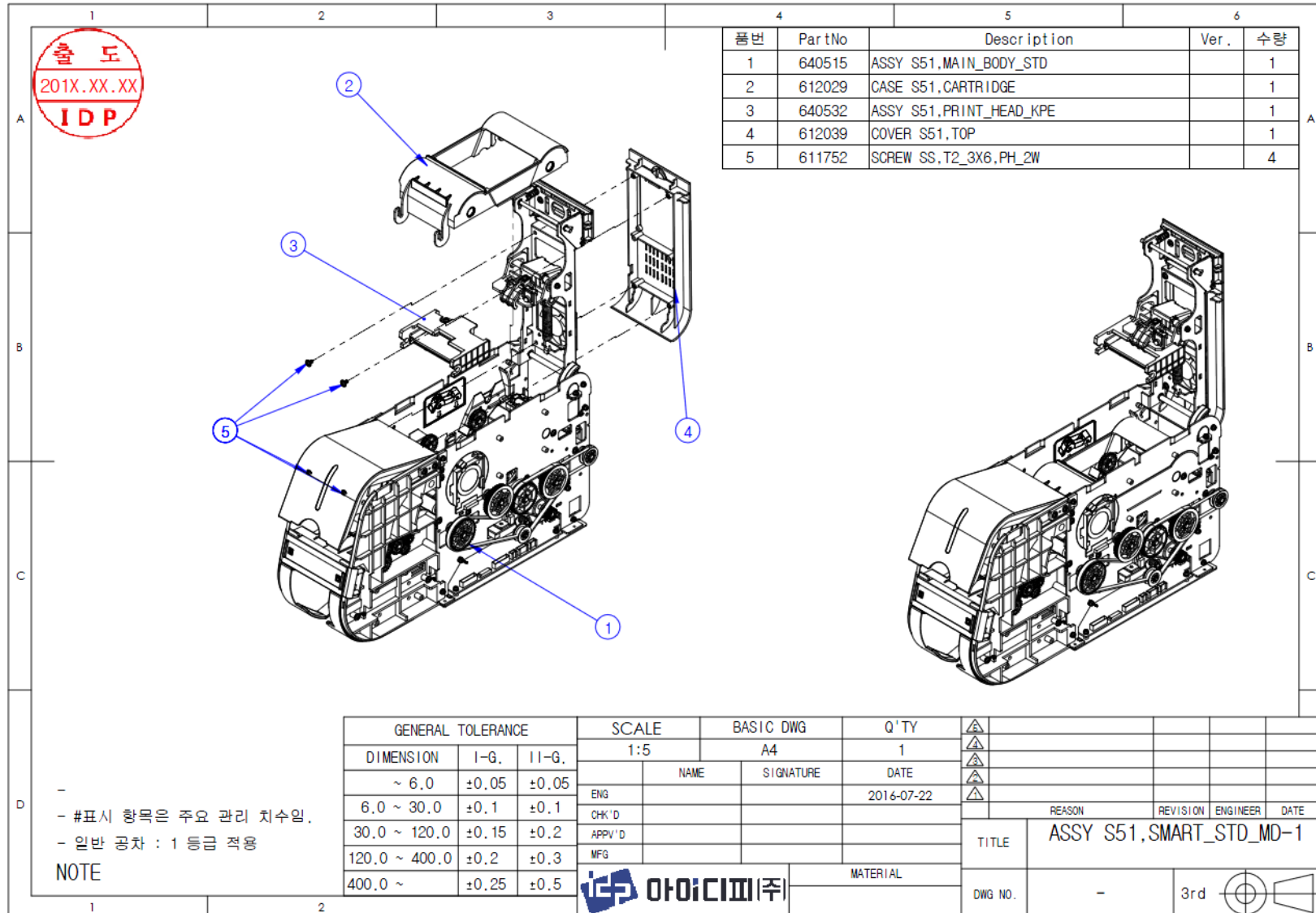
A.16 Main Body Assy.

YOUR BEST ID PRINTER PROVIDER



A.16 Main Body Assy.

YOUR BEST ID PRINTER PROVIDER



A.16 Main Body Assy.

YOUR BEST ID PRINTER PROVIDER

품번	PartNo	Description	Ver.	수량
1	-	ASSY S51,SMART_STD_MD-1		1
2	612030	COVER S51,BACK		1
3	612036	COVER S51,SIDE_LEFT		1
4	612037	COVER S51,SIDE_RIGHT		1
5	610356	SCREW SS,M3X6,PH		4

- #표시 항목은 주요 관리 치수임.

- 일반 공차 : 1 등급 적용

NOTE

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		2016-07-22
CHK'D		
APPV'D		
MFG		

REASON	REVISION	ENGINEER	DATE
ASSY S51,SMART_STD_MD-2			

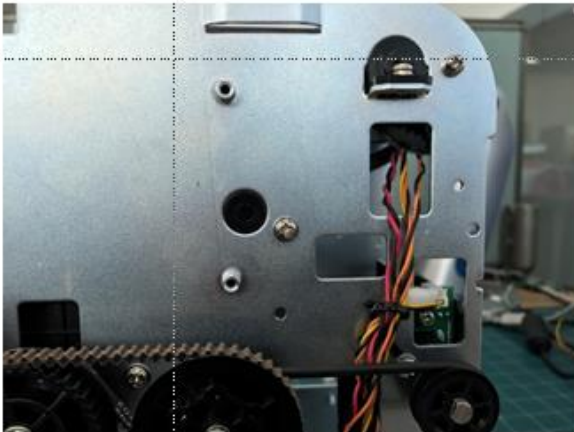
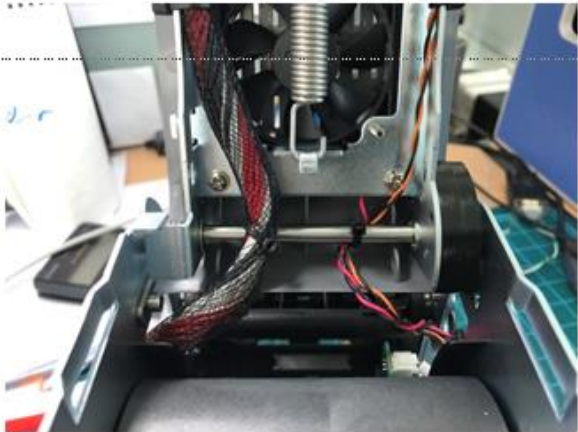
TITLE	DWG NO.	3rd
	-	

A.17 Cabling

YOUR BEST ID PRINTER PROVIDER

작업 방법

- Cable #61**** 그림과 같이 조립한다.



작성일자

사용 부품

No	Code	Description	수량
1	612116	WIRE,THERMAL_HEAD_51 PRT,26P,370mm	1
2	612117	WIRE,SEN_ENC_COV_51 PRT,8P,180mm	1
3	612118	WIRE,HOP_MOT_SEN_51 PRT,5P,260mm	1
4	612119	WIRE,LCD_SW_51 PRT,20P,270mm	1
5	612120	WIRE,I/O_51 PRT,15P,480mm	1
6	612121	WIRE,RF_ANT_51 PRT,3P,130mm	1
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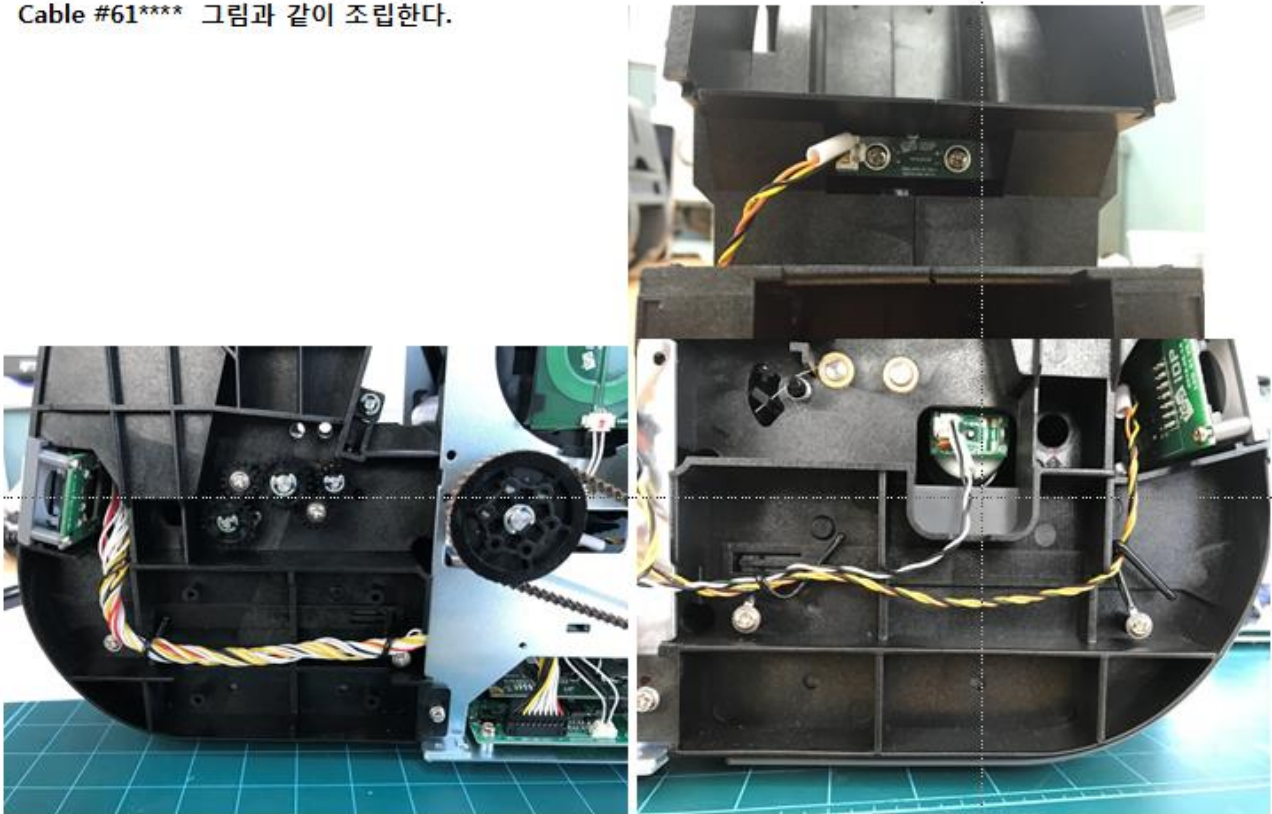
사용 공구 / 측정 장비

No	품명	규격
1	전동드라이버	+
2		
3		
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A.17 Cabling

작업 방법

- Cable #61**** 그림과 같이 조립한다.



1. 그림과 같이 조립한다.

작성일자

사용 부품

No	Code	Description	수량
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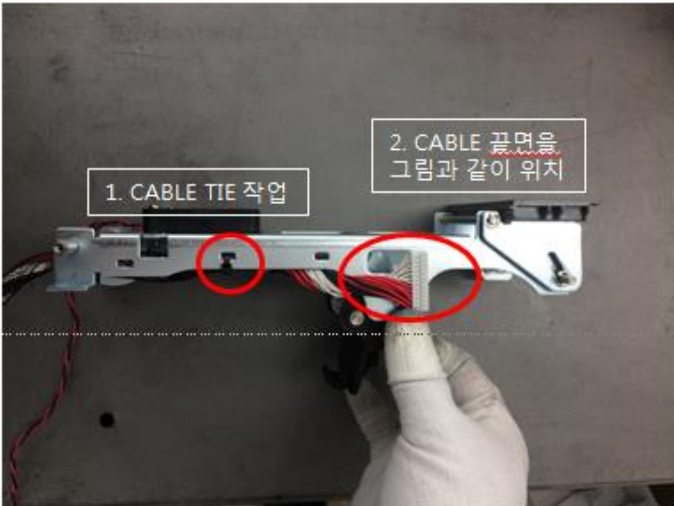
사용 공구 / 측정 장비

No	품명	규격
1	전동드라이버	+
2		
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A.17 Cabling

작업 방법

- Cable #61**** 그림과 같이 조립한다.



1. 그림과 같이 조립한다.

작성일자

사용 부품

No	Code	Description	수량
1	612116	WIRE,THERMAL_HEAD_51 PRT,26P,370mm	1
2	612117	WIRE,SEN_ENC_COV_51 PRT,8P,180mm	1
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14			
15			

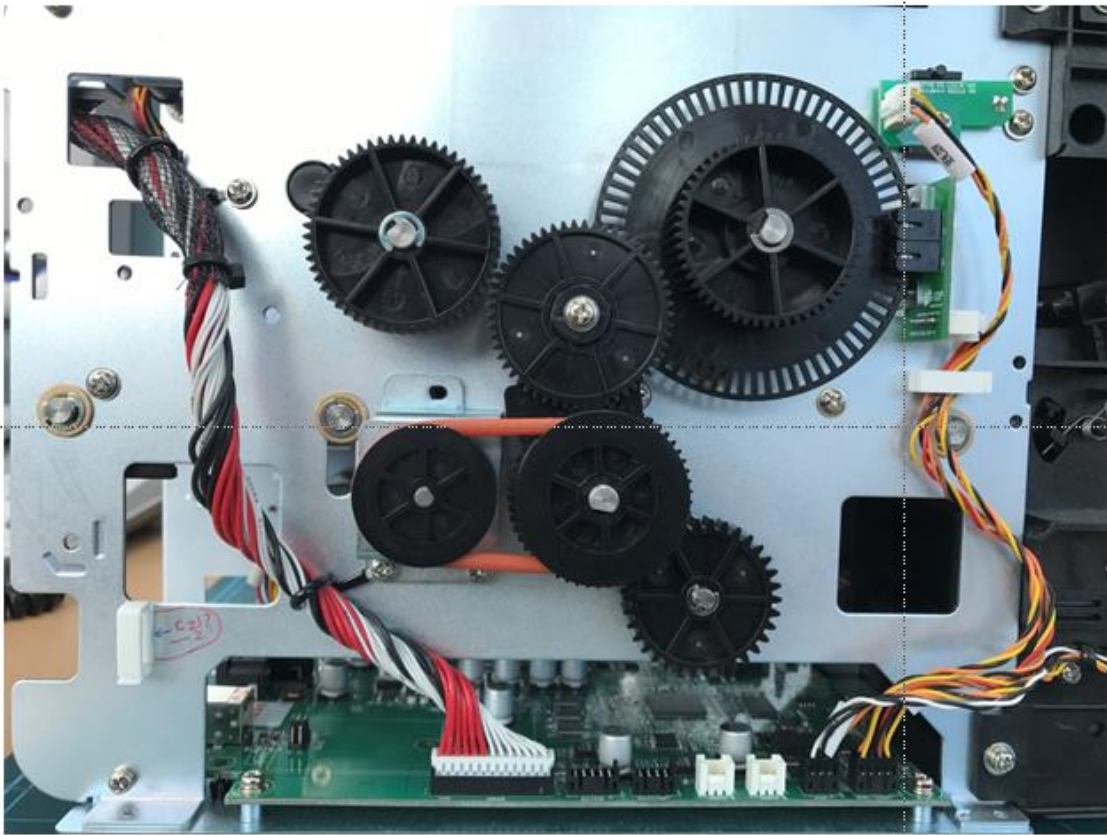
사용 공구 / 측정 장비

No	품명	규격
1	전동드라이버	+
2		
3		
4		
5		

A.17 Cabling

작업 방법

- Cable #61**** 그림과 같이 조립 / 정리 한다.



작성일자

사용 부품

No	Code	Description	수량
1	612116	WIRE,THERMAL_HEAD_51 PRT_26P,370mm	1
2	612117	WIRE,SEN_ENC_COV_51 PRT_8P,180mm	1
3	612118	WIRE,HOP_MOT_SEN_51 PRT_5P,260mm	1
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사용 공구 / 측정 장비

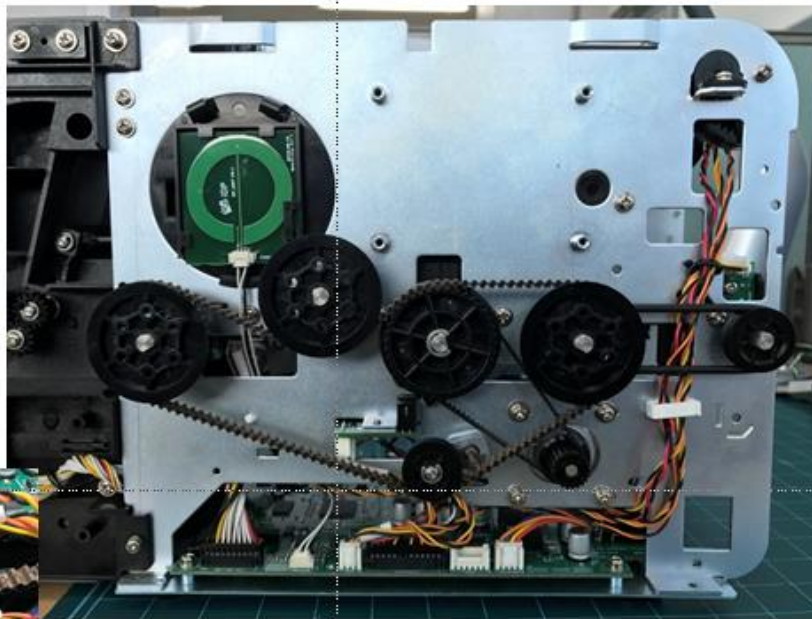
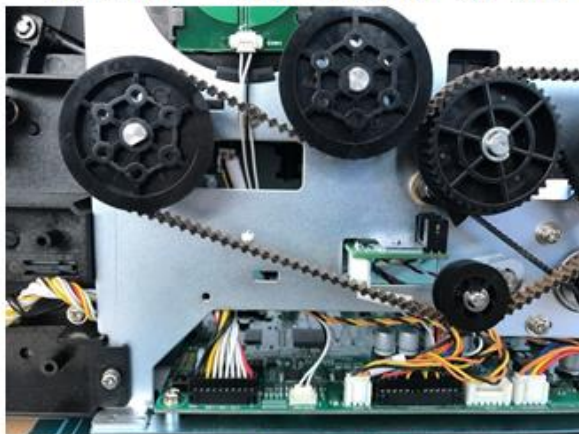
No	품명	규격
1	전동드라이버	+
2		
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5		

A.17 Cabling

YOUR BEST ID PRINTER PROVIDER

작업 방법

- Cable #61**** 그림과 같이 조립 / 정리 한다.



- RF Ant. & Sensor Cent 케이블 정리

작성일자

사용 부품

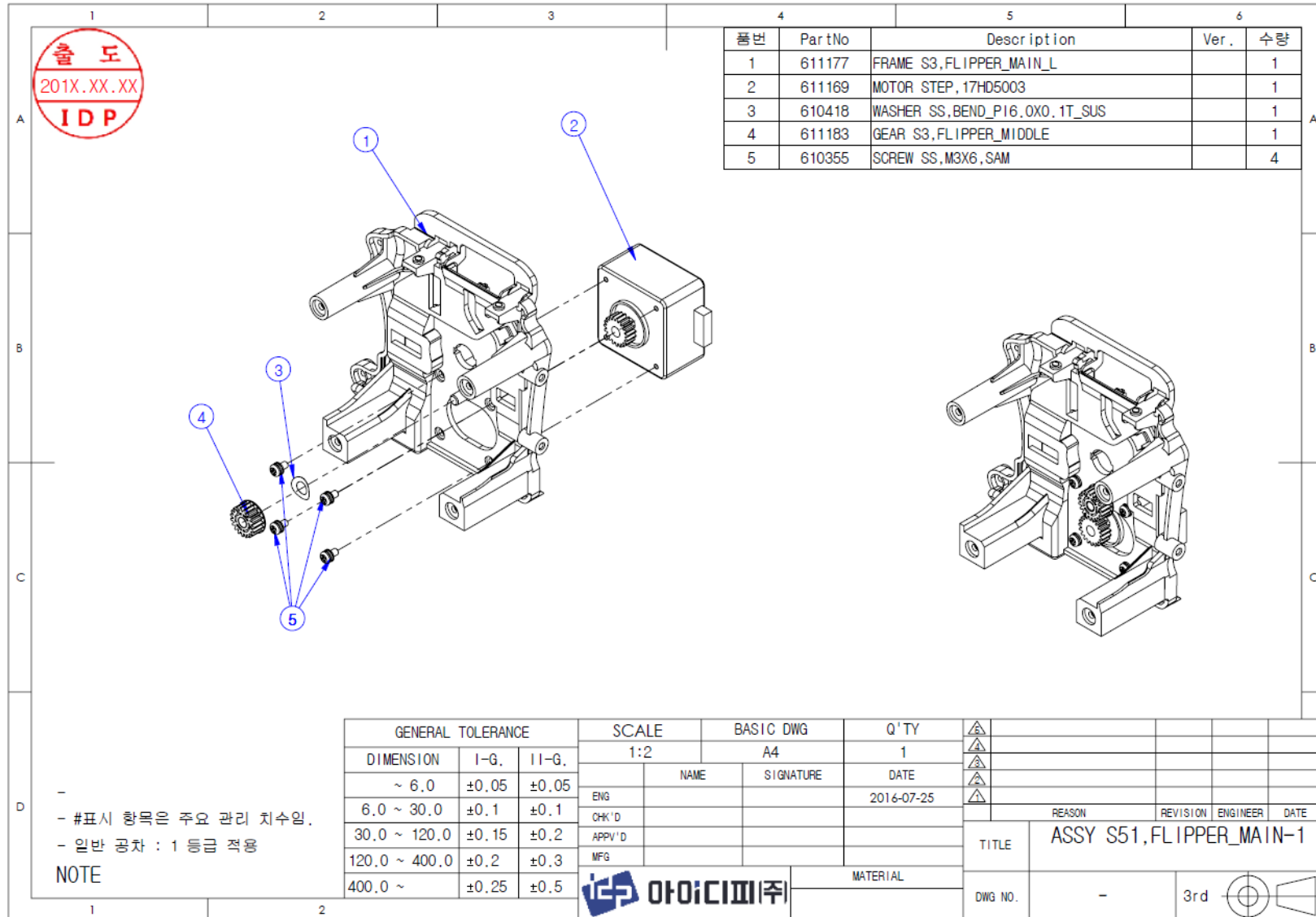
No	Code	Description	수량
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2	612117	WIRE,SEN_ENC_COV_51 PRT,8P,180mm	1
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12			
13			
14			
15			

사용 공구 / 측정 장비

No	품명	규격
1	전동드라이버	+
2		
3		
4		
5		

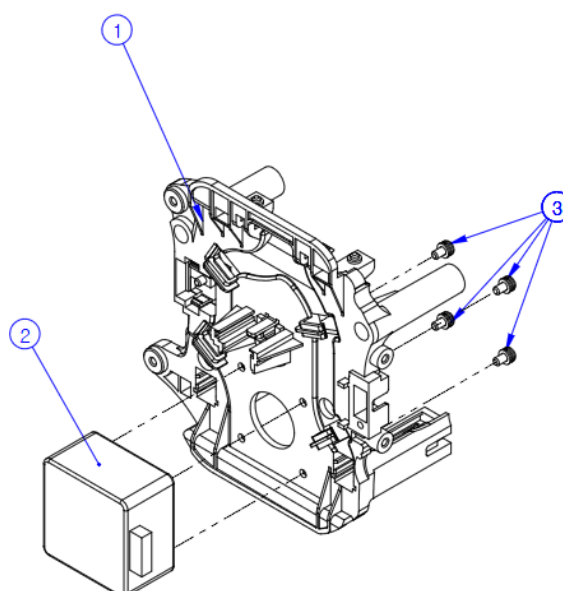
A.18 Flipper Assy.

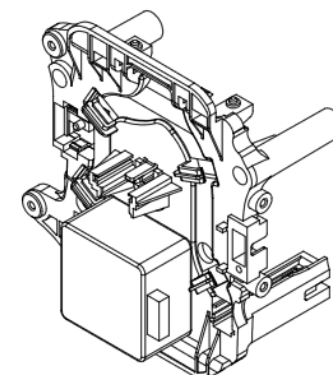
YOUR BEST ID PRINTER PROVIDER



A.18 Flipper Assy.

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
			품번	PartNo	Description
			1	611992	FRAME S3,FLIPPER_MAIN_R,V1.0
			2	611169	MOTOR STEP,17HD5003
			3	610355	SCREW SS,M3X6,SAM
			Ver.	수량	
					1
					1
					4



출도
201X.XX.XX
IDP

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

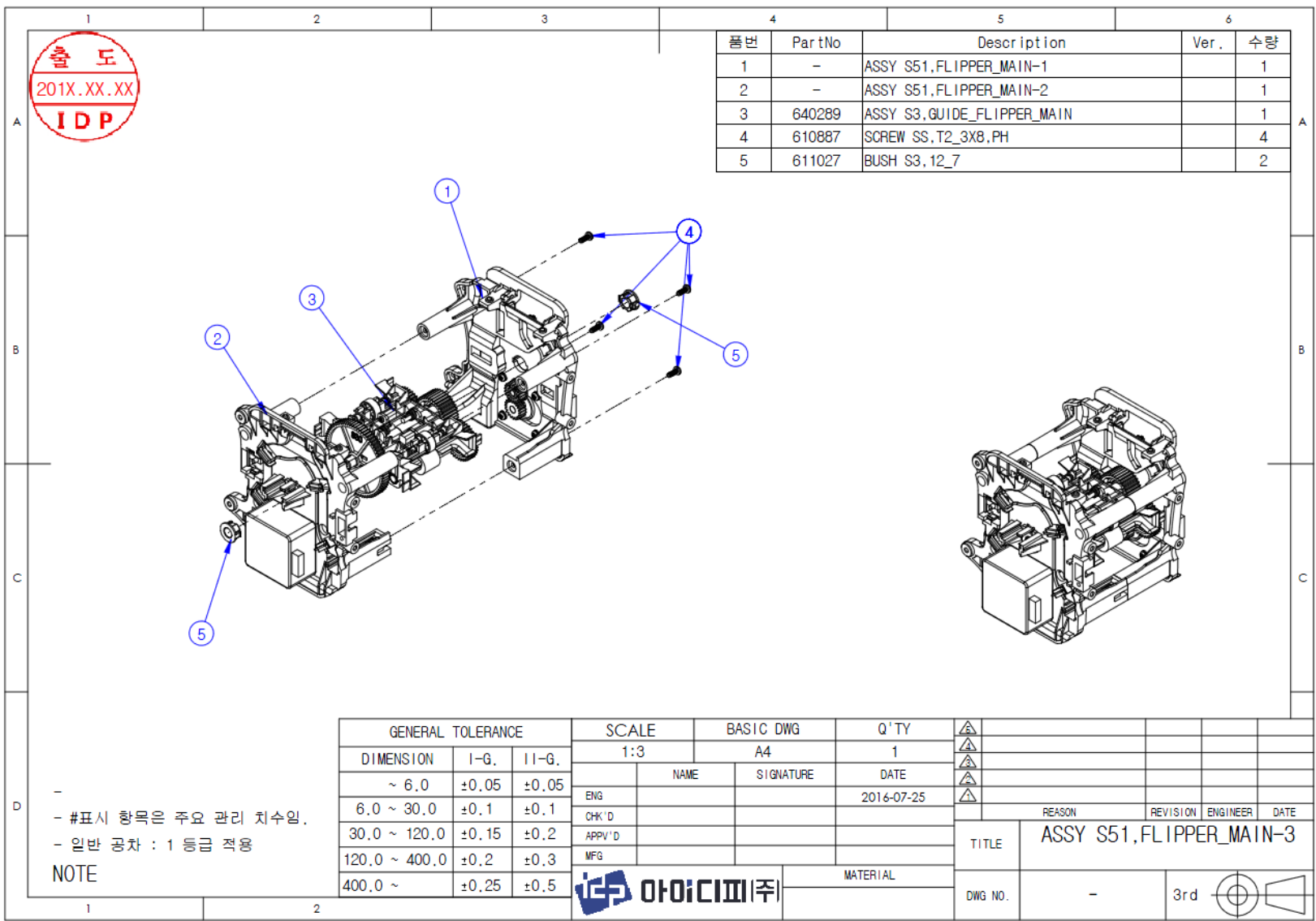
ENG	NAME	SIGNATURE	DATE
CHK'D			2016-07-25
APPV'D			
MFG			

아이디피주

TITLE		ASSY S51,FLIPPER_MAIN-2	
DWG NO.	-	3rd	

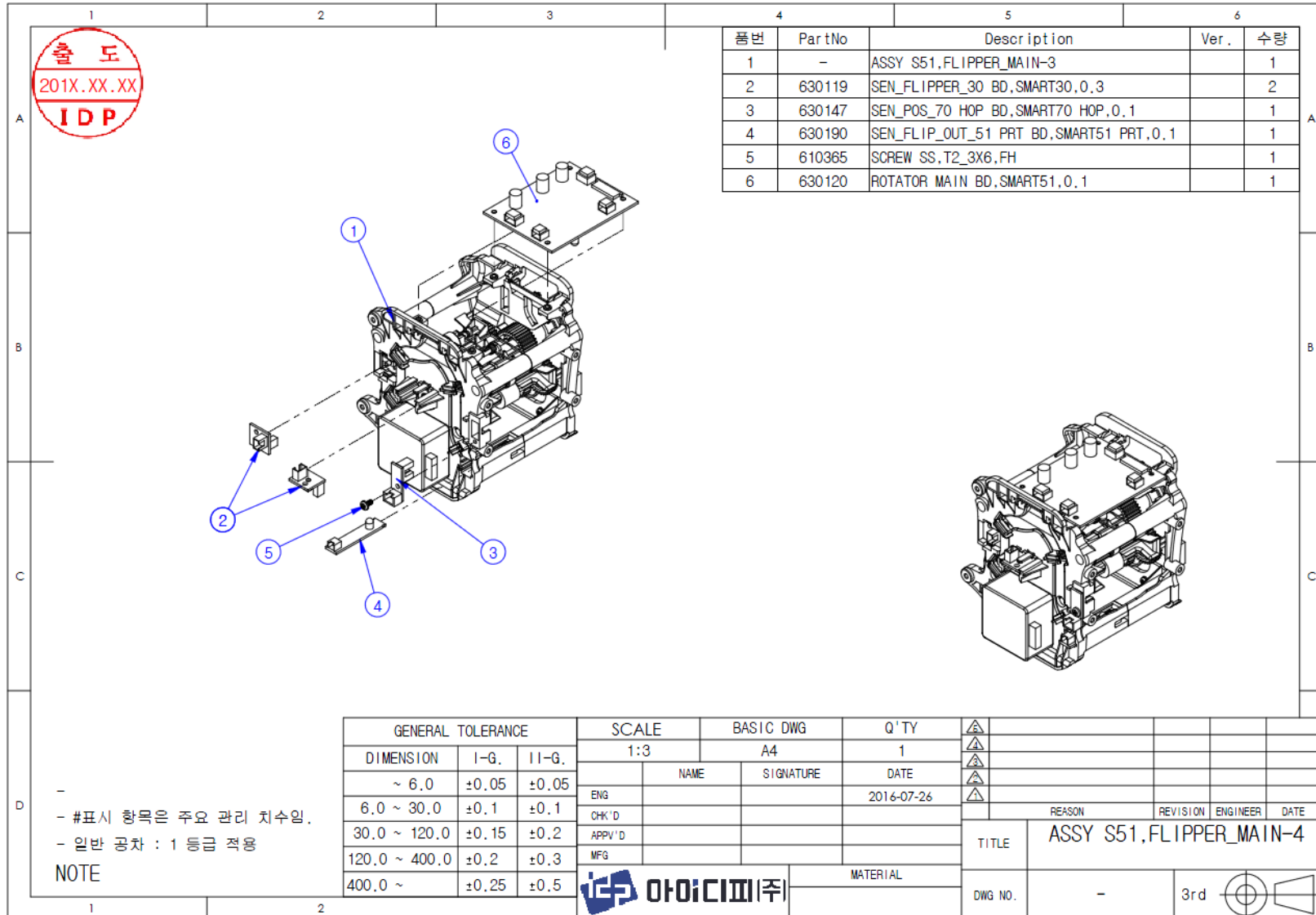
A.18 Flipper Assy.

YOUR BEST ID PRINTER PROVIDER

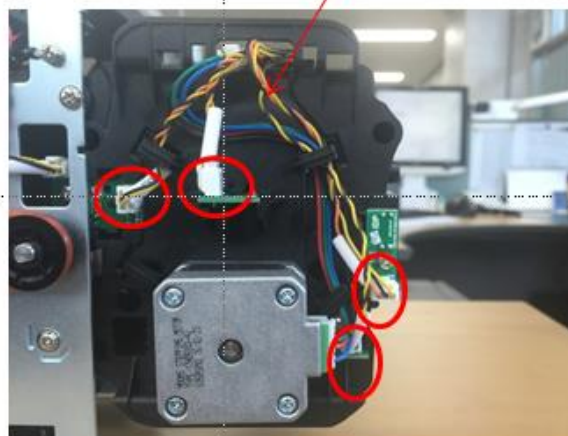


A.18 Flipper Assy.

YOUR BEST ID PRINTER PROVIDER



YOUR BEST ID PRINTER PROVIDER

2016. 8. 20

#3. 612124

1. 그림과 같이 조립한다.

사용 부품

[illegible]

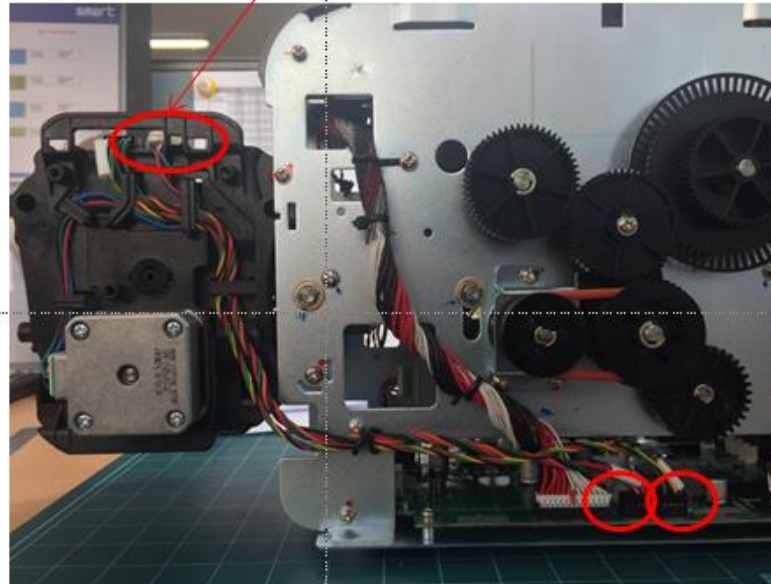
사용 공구 / 측정 장비

No	품명	규격
1	전동 드라이버	+
2		
3		
4		
5		

YOUR BEST ID PRINTER PROVIDER

2016. 8. 20

#2, 612123



1. 그림과 같이 조립한다.

사용 부품

[illegible]

사용 공구 / 측정 장비

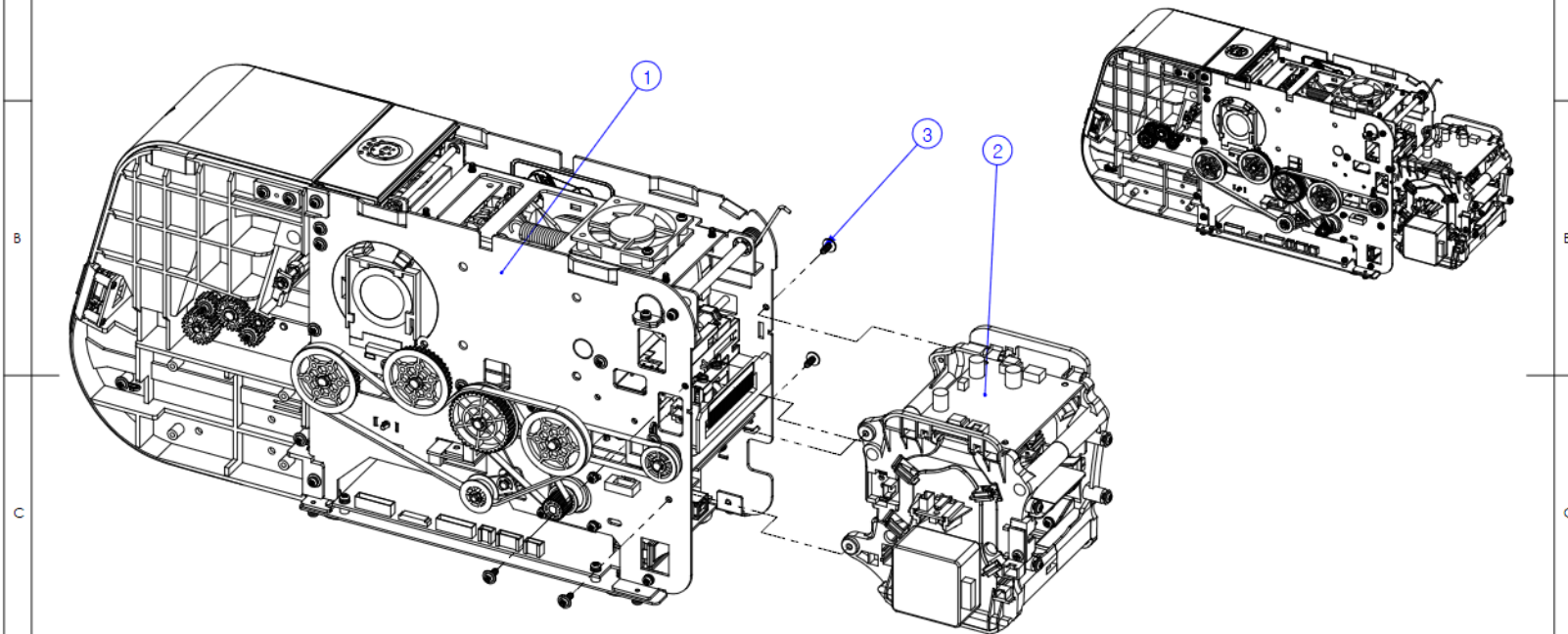
No	품명	규격
1	전동 드라이버	+
2		
3		
4		
5		

A.20 Flipper Binding

YOUR BEST ID PRINTER PROVIDER



품번	PartNo	Description	Ver.	수량
1	-	ASSY S51,MAIN_BODY_STD-4		1
4	640543	ASSY S51,FLIPPER_MAIN		1
5	611940	SCREW SS,T2_3X8,PH_2W		4



- #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
1:10		A4	1
ENG	NAME	SIGNATURE	DATE
CHK'D	김태호		2017-04-21
APPV'D			
MFG			



MATERIAL		TITLE	
SUS		DWG NO.	640540
		3rd	
		REASON	REVISION
		ENGINEER	DATE

A.20 Flipper Binding

YOUR BEST ID PRINTER PROVIDER

출 도
201X.XX.XX
IDP

품번	PartNo	Description	Ver.	수량
1		ASSY S51D,MAIN_BODY_DUAL		1
2	640532	ASSY S51,PRINT_HEAD_KPE		1
3	612029	CASE S51,CARTRIDGE		1
4	612037	COVER S51,SIDE_RIGHT		1
5	612036	COVER S51,SIDE_LEFT		1
6	612039	COVER S51,TOP		1
7	612031	COVER S51,FLIPPER		1
8	612032	COVER S51,FLIPPER_BACK		1
9	611752	SCREW SS,T2_3X6,PH_2W		4
10	611940	SCREW SS,T2_3X8,PH_2W		4
11	610356	SCREW SS,M3X6,PH		4

- #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.	1:20	A4	1
~ 6.0	±0.05	±0.05	NAME	SIGNATURE	DATE
6.0 ~ 30.0	±0.1	±0.1	ENG 김태호		2017-04-21
30.0 ~ 120.0	±0.15	±0.2	CHK'D		
120.0 ~ 400.0	±0.2	±0.3	APPV'D		
400.0 ~	±0.25	±0.5	MFG		

아이에디피주

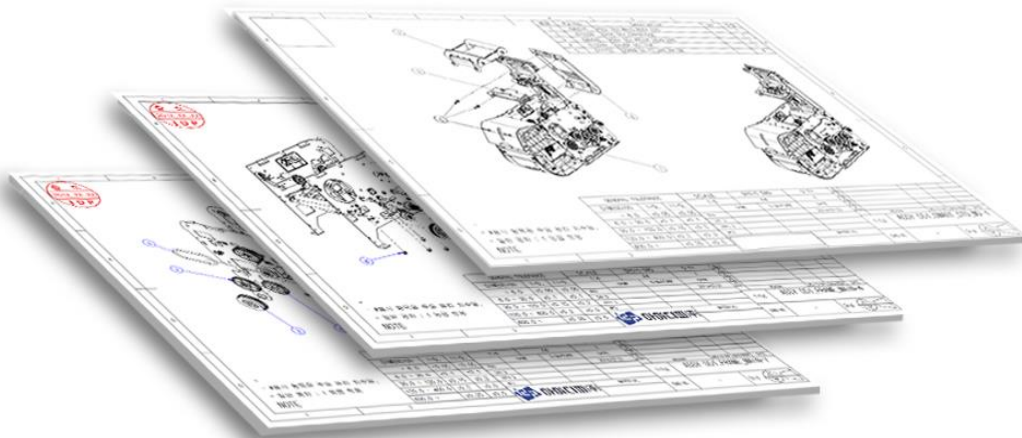
MATERIAL SUS

TITLE
 DWG NO. 640540

REASON
 REVISION
 ENGINEER
 DATE

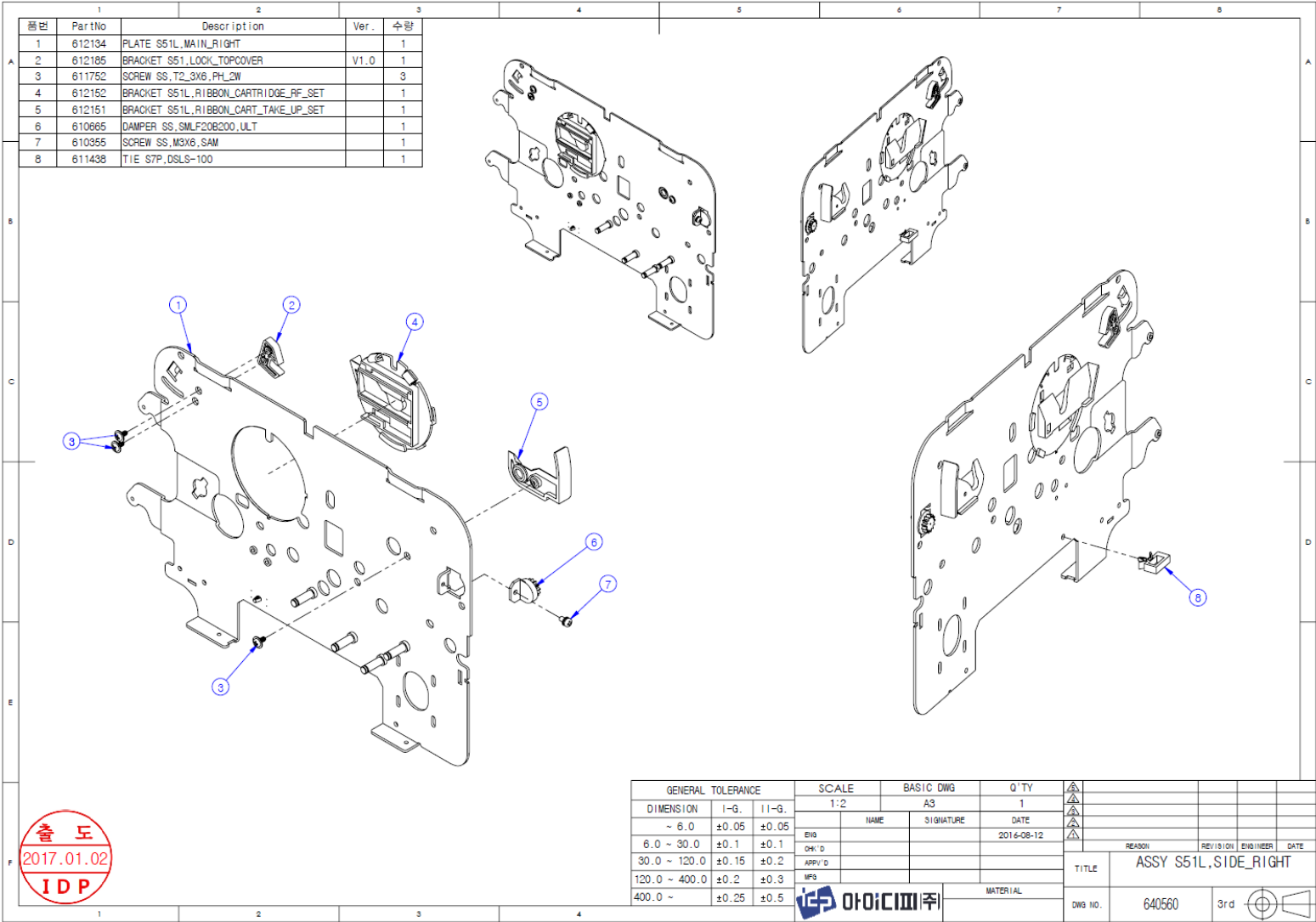
3rd

B. Assembly View for Laminator



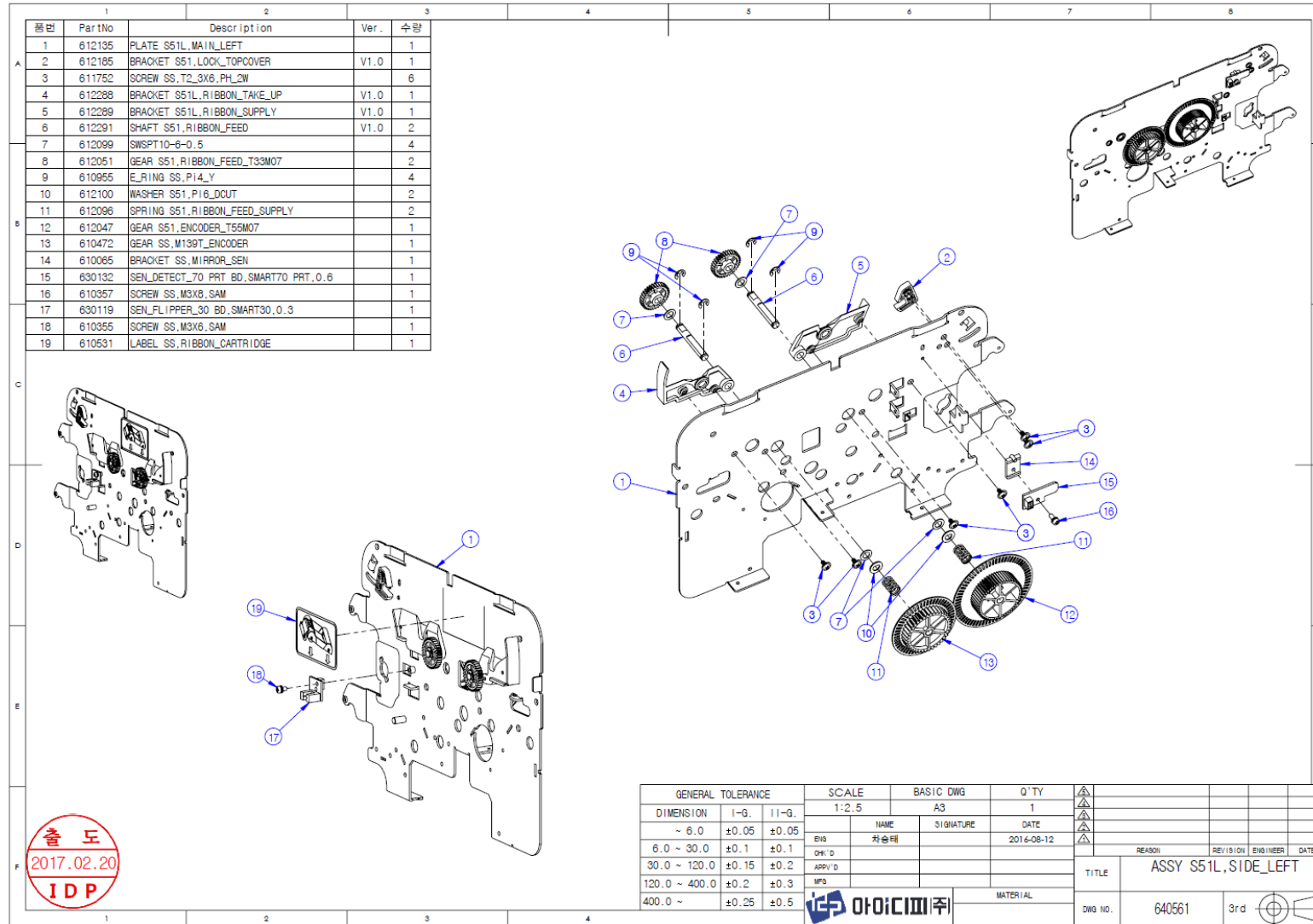
B.1 ASSY S51L, SIDE_RIGHT

YOUR BEST ID PRINTER PROVIDER



B.2 ASSY S51L, SIDE_LEFT

YOUR BEST ID PRINTER PROVIDER



B.3 ASSY SO,RIBBON_POS_SENSOR

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
품번	PartNo	품명	수량		
1	610900	BRACKET SO,RIBBON_POSITION_1.1	1		
2	610740	BRUSH SO,SUS_BRUSH_2SLOT	1		
3	630076	SEN_LAM_IN BD,SMART,0.1	1		
4	610362	SCREW SS,T2_2X5,PH	2		
5	610861	WIRE,SEN_LAM_IN,3P,110mm	1		

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY	REASON	REVISION	ENGINEER	APPROVAL	DATE
DIMENSION	I-G.	II-G.	1:1	A4	1	1				
~ 6.0	±0.05	±0.05				2				
6.0 ~ 30.0	±0.1	±0.1	ENG	NAME	SIGNATURE	DATE	3			
30.0 ~ 120.0	±0.15	±0.2	CHK'D							
120.0 ~ 400.0	±0.2	±0.3	APPV'D							
400.0 ~	±0.25	±0.5	MFG							

NOTE

1

2

아아이디피주

MATERIAL

DWG NO.

640194

3rd

TITLE

ASSY SO,RIBBON_POS_SENSOR

B.4 ASSY SO,ROLLER_TENSION

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
품번	PartNo	품명	수량		
1	611254	SHAFT SO, IDLE_TENSION_ROLLER_1.2	1		
2	611242	ROLLER SO, IDLE_TENSION_1.2	1		
3	610955	E_RING SS, PI4_Y	2		

NOTE

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY	REASON	REVISION	ENGINEER	APPROVAL	DATE
DIMENSION	I-G.	II-G.	1:1	A4	3	1				
~ 6.0	±0.05	±0.05		NAME	SIGNATURE	DATE	2			
6.0 ~ 30.0	±0.1	±0.1	ENG				3			
30.0 ~ 120.0	±0.15	±0.2	CHK'D							
120.0 ~ 400.0	±0.2	±0.3	APPV'D							
400.0 ~	±0.25	±0.5	MFG							

아이디피주

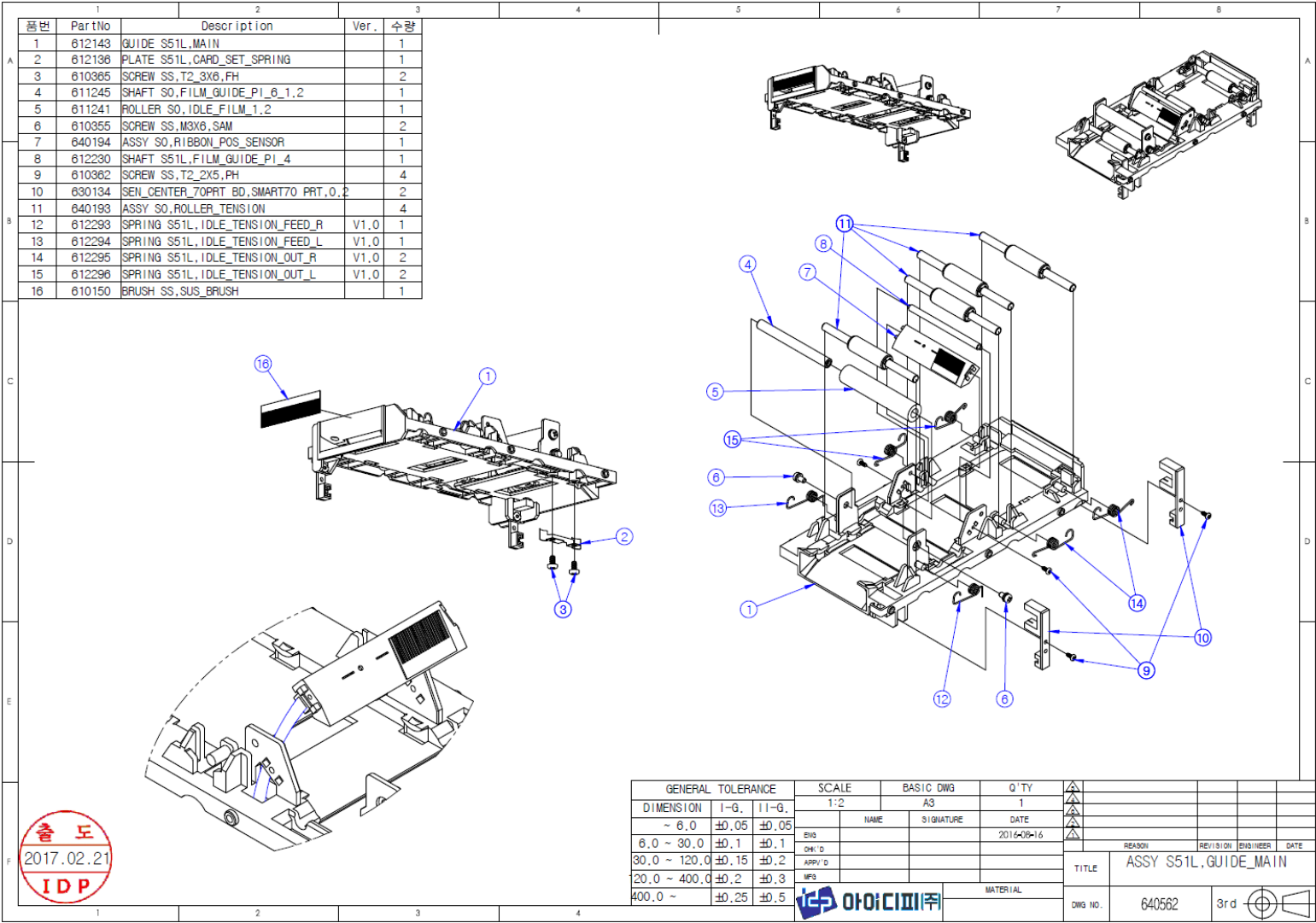
MATERIAL

TITLE ASSY SO,ROLLER_TENSION

DWG NO. 640193 3rd

B.5 ASSY S51L, GUIDE_MAIN

YOUR BEST ID PRINTER PROVIDER



B.6 ASSY S51L,HEAD_DOWN_UP

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
품번	PartNo	Description	수량		
1	612164	SHAFT S51L,HEAD_UP_DOWN	1		
2	612027	CAM S51,HEAD_UP_DOWN	2		
3	612024	BUSH S51,HEAD_DOWN_UP_CAM HOLDER	2		
4	610955	E_RING SS,P14_Y	2		

GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY				
DIMENSION	I-G.	II-G.	1:1.5	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			2016-08-16				
APPV'D							
MFG							

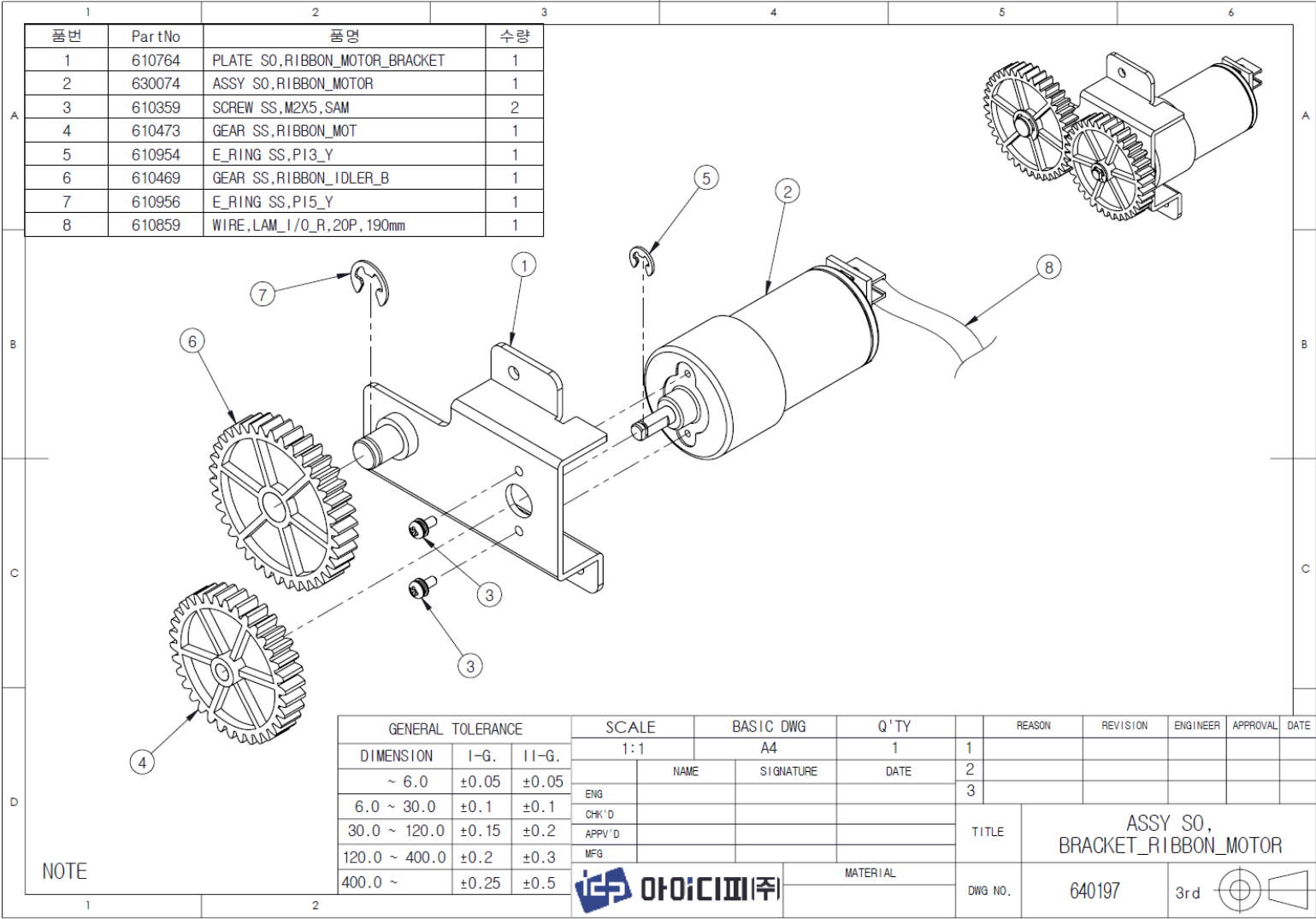
TITLE		ASSY S51L,HEAD_DOWN_UP	
DWG NO.	640563	3rd	

출도
2016.10.28
IDP

아이디피주

B.7 ASSY SO,BRACKET_RIBBON MOTOR

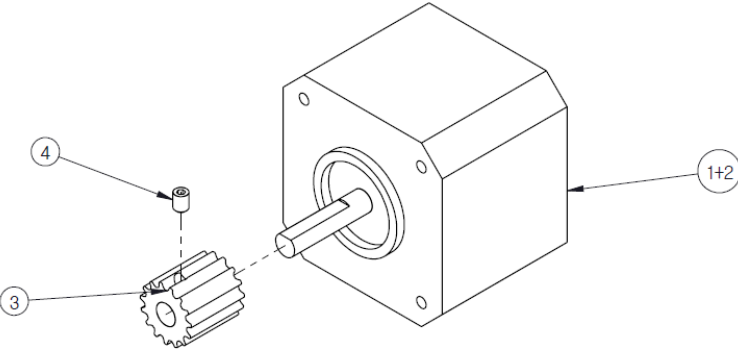
YOUR BEST ID PRINTER PROVIDER

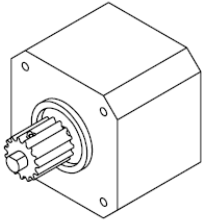


B.8 ASSY SO,STEP_MOTOR

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
품번	part no	품명	수량		
1	611262	MOTOR STEP, 17PM-K845UN10CN	1		
2	611263	WIRE, STEP MOT, 4P, 80MM	1		
3	610474	PULLEY SS, S3M15T	1		
4	610371	SCREW SS, M3X3, NON_HEAD	1		





GENERAL TOLERANCE			SCALE	BASIC DWG	Q'TY	REASON	REVISION	ENGINEER	APPROVAL	DATE
DIMENSION	I-G.	II-G.	1:1	A4	1					
~ 6.0	±0.05	±0.05		NAME	SIGNATURE	DATE				
6.0 ~ 30.0	±0.1	±0.1	ENG							
30.0 ~ 120.0	±0.15	±0.2	CHK'D							
120.0 ~ 400.0	±0.2	±0.3	APPV'D							
400.0 ~	±0.25	±0.5	MFG							

NOTE

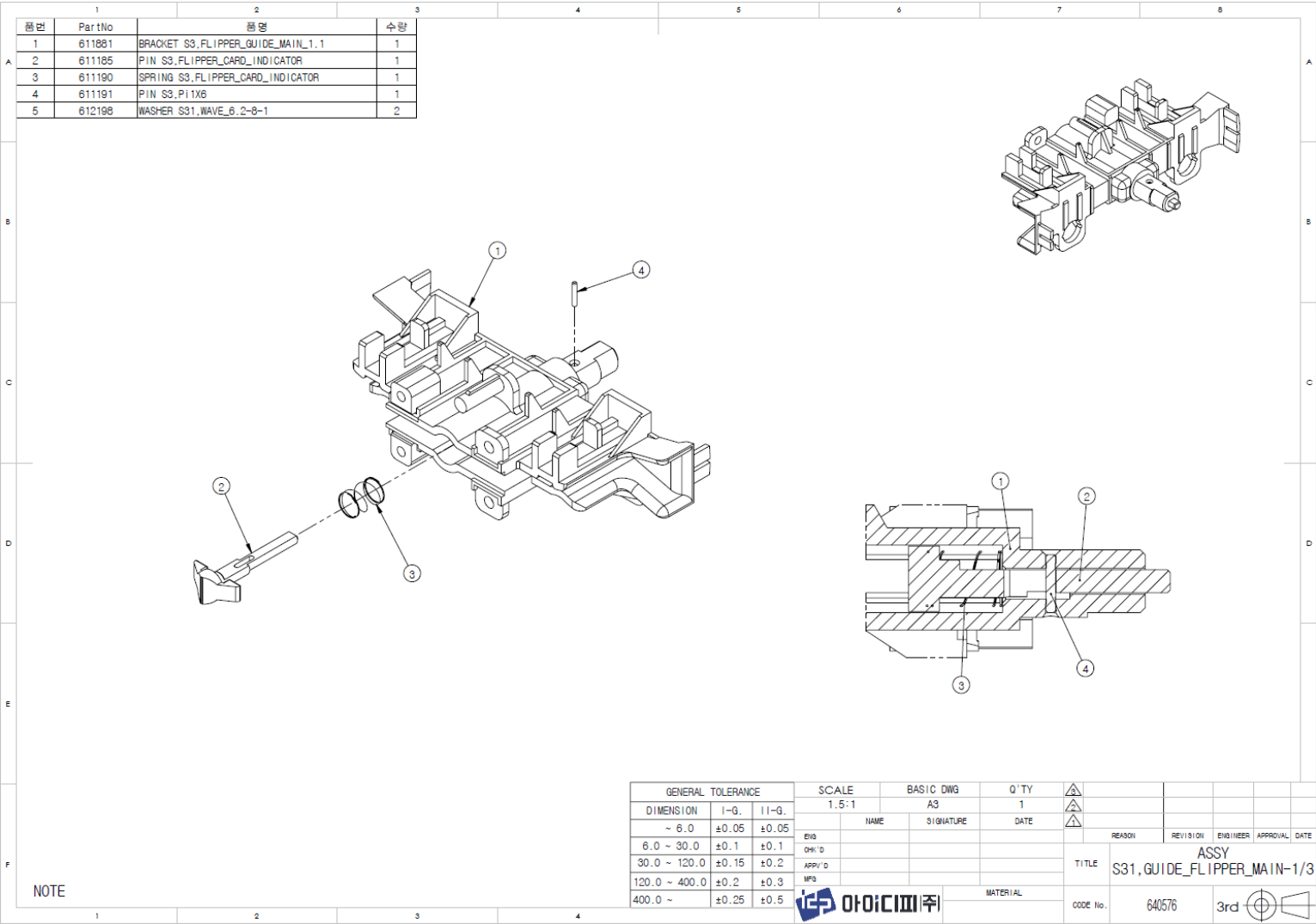
아이디피(주) MATERIAL

TITLE ASSY SO,STEP_MOTOR

DWG NO. 640185 3rd

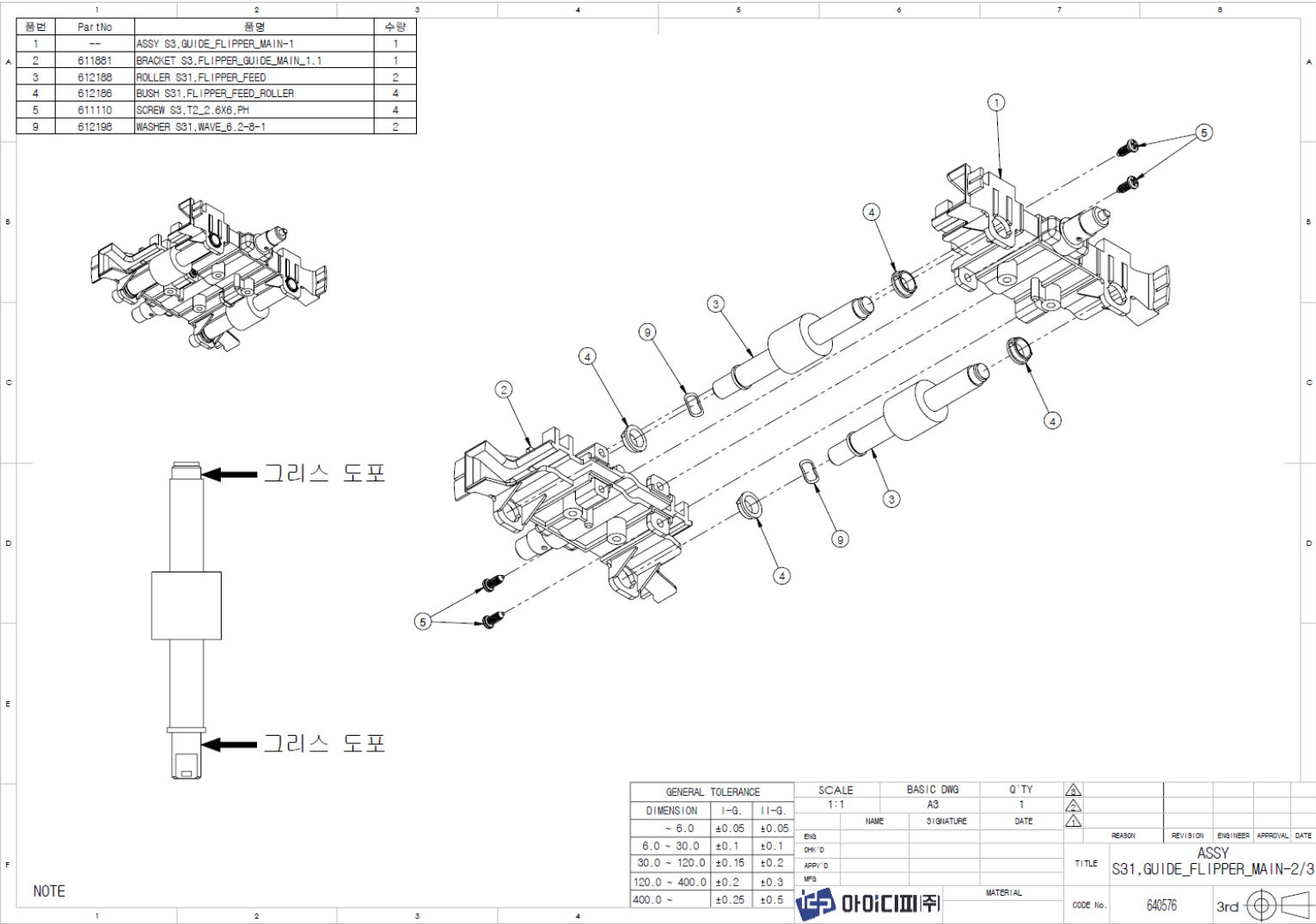
B.9 ASSY S31, GUIDE_FLIPPER_MAIN

YOUR BEST ID PRINTER PROVIDER



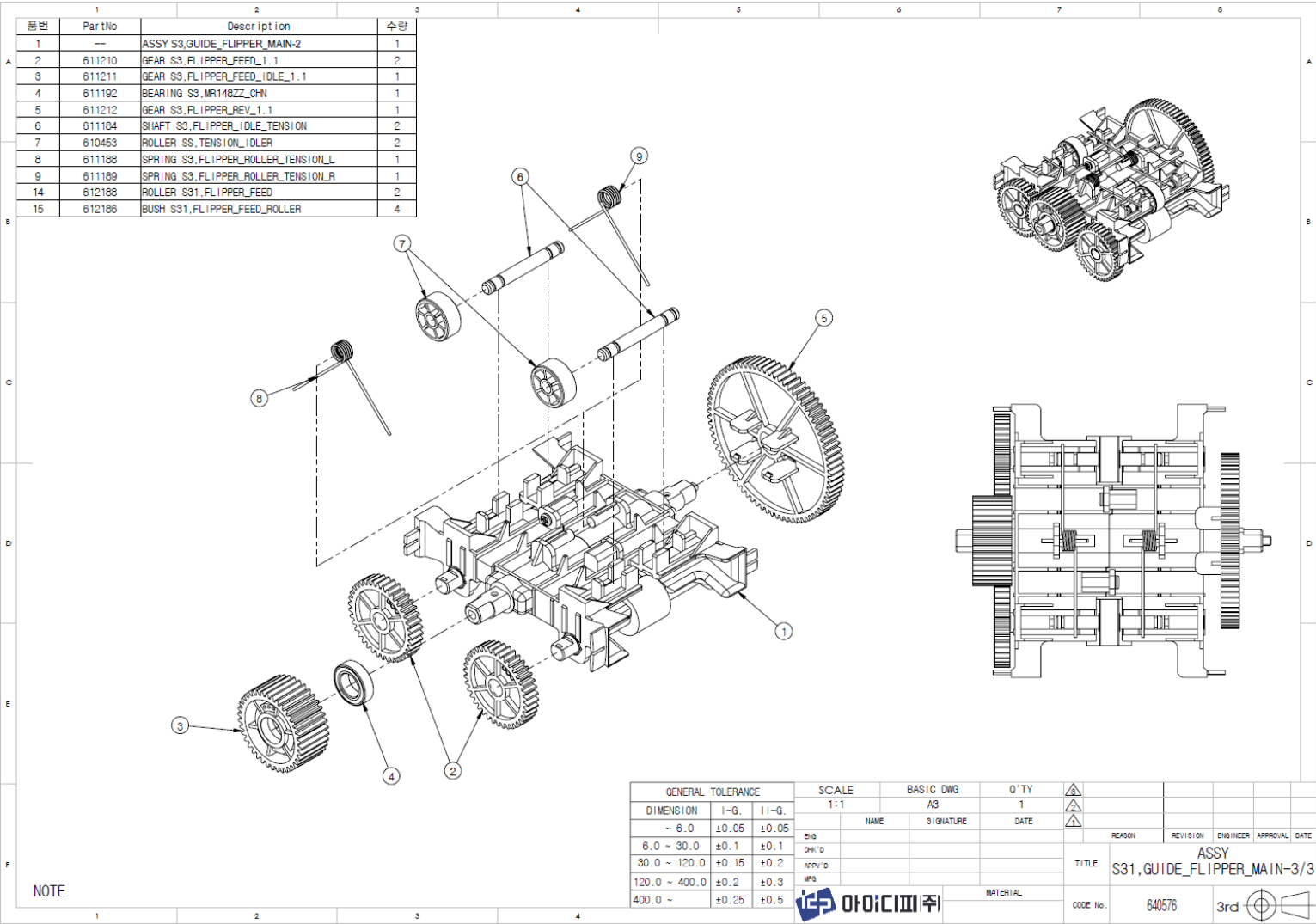
B.9 ASSY S31,GUIDE_FLIPPER_MAIN

YOUR BEST ID PRINTER PROVIDER



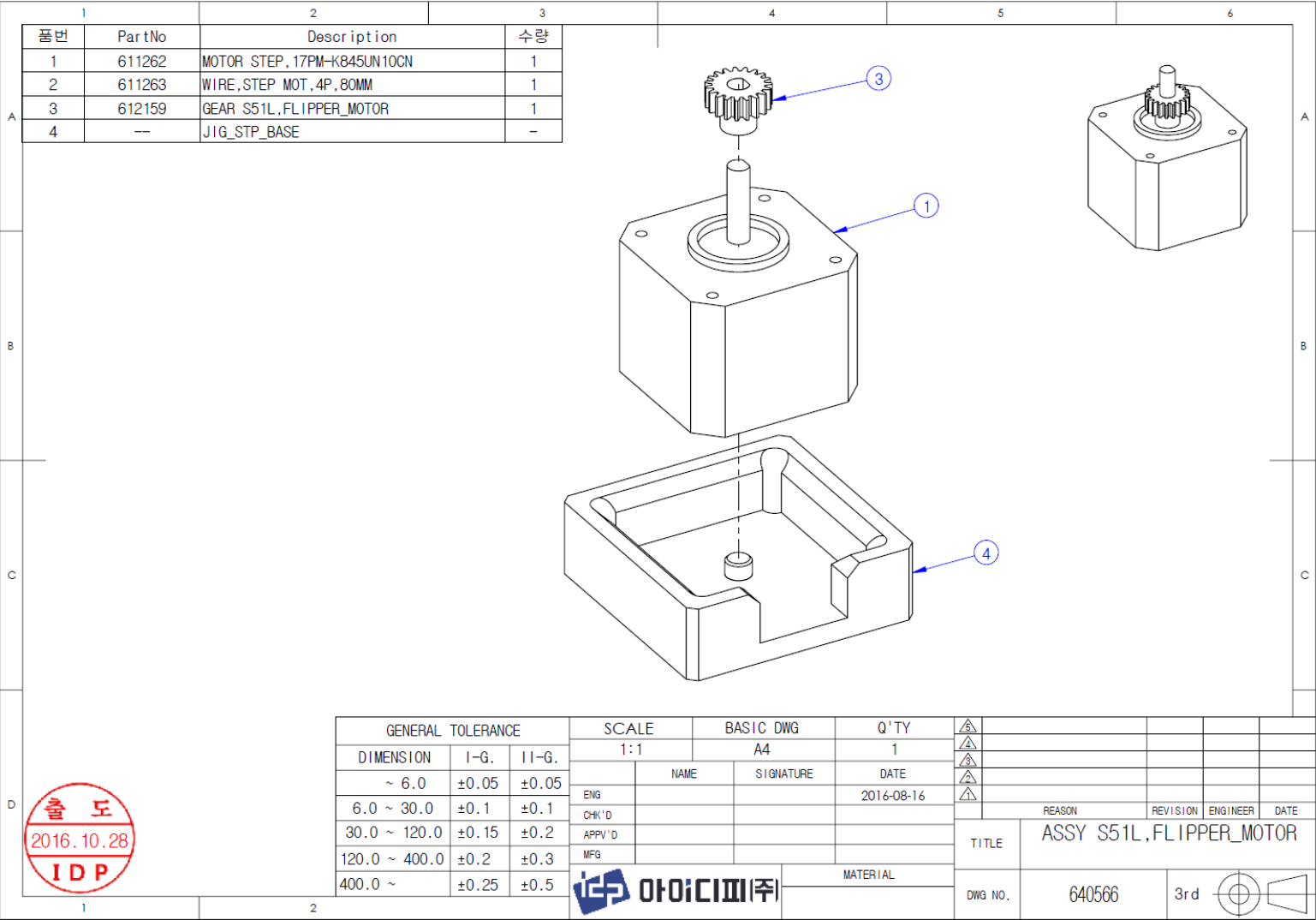
B.9 ASSY S31,GUIDE_FLIPPER_MAIN

YOUR BEST ID PRINTER PROVIDER



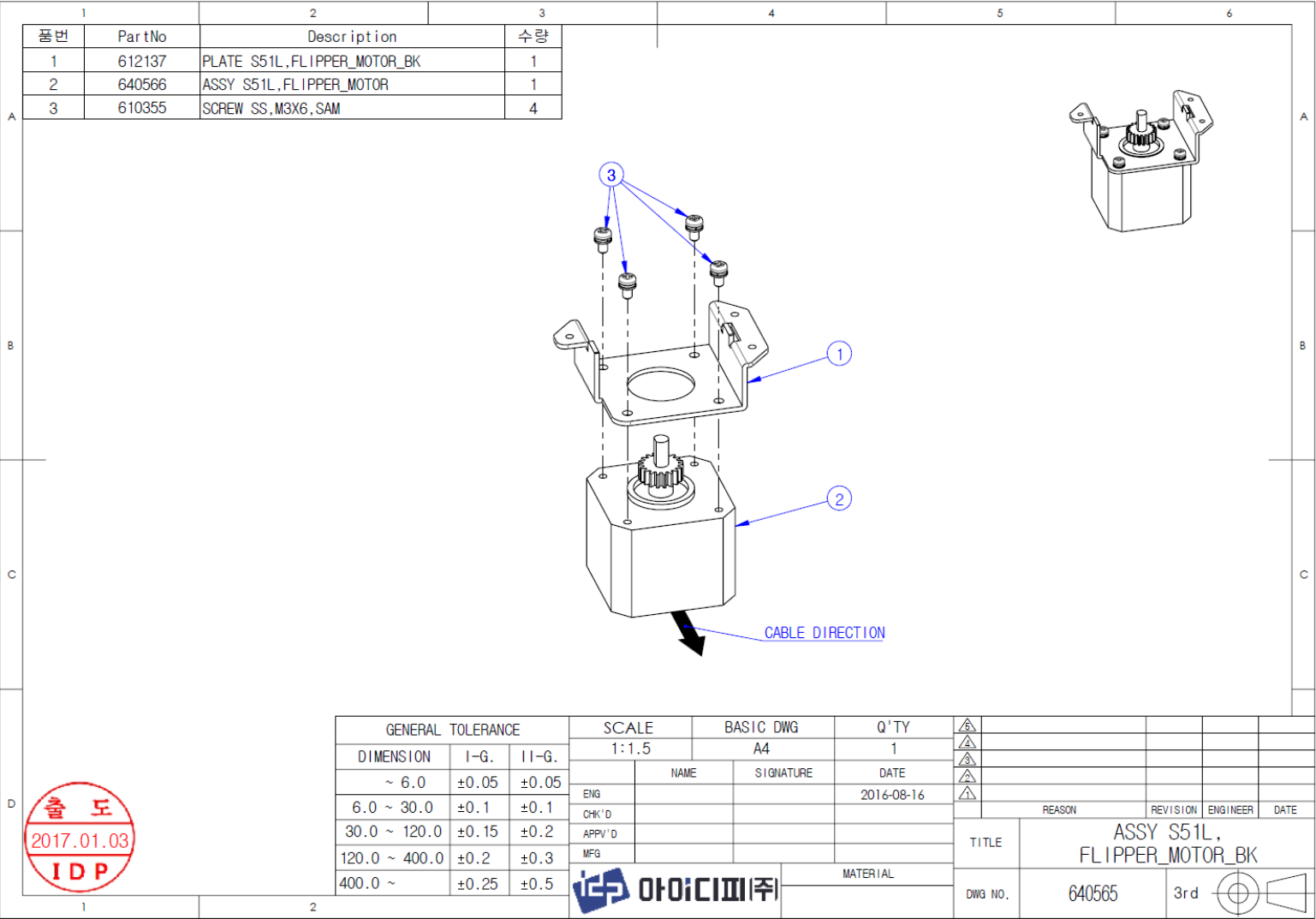
B.10 ASSY S51L,FLIPPER_MOTOR

YOUR BEST ID PRINTER PROVIDER



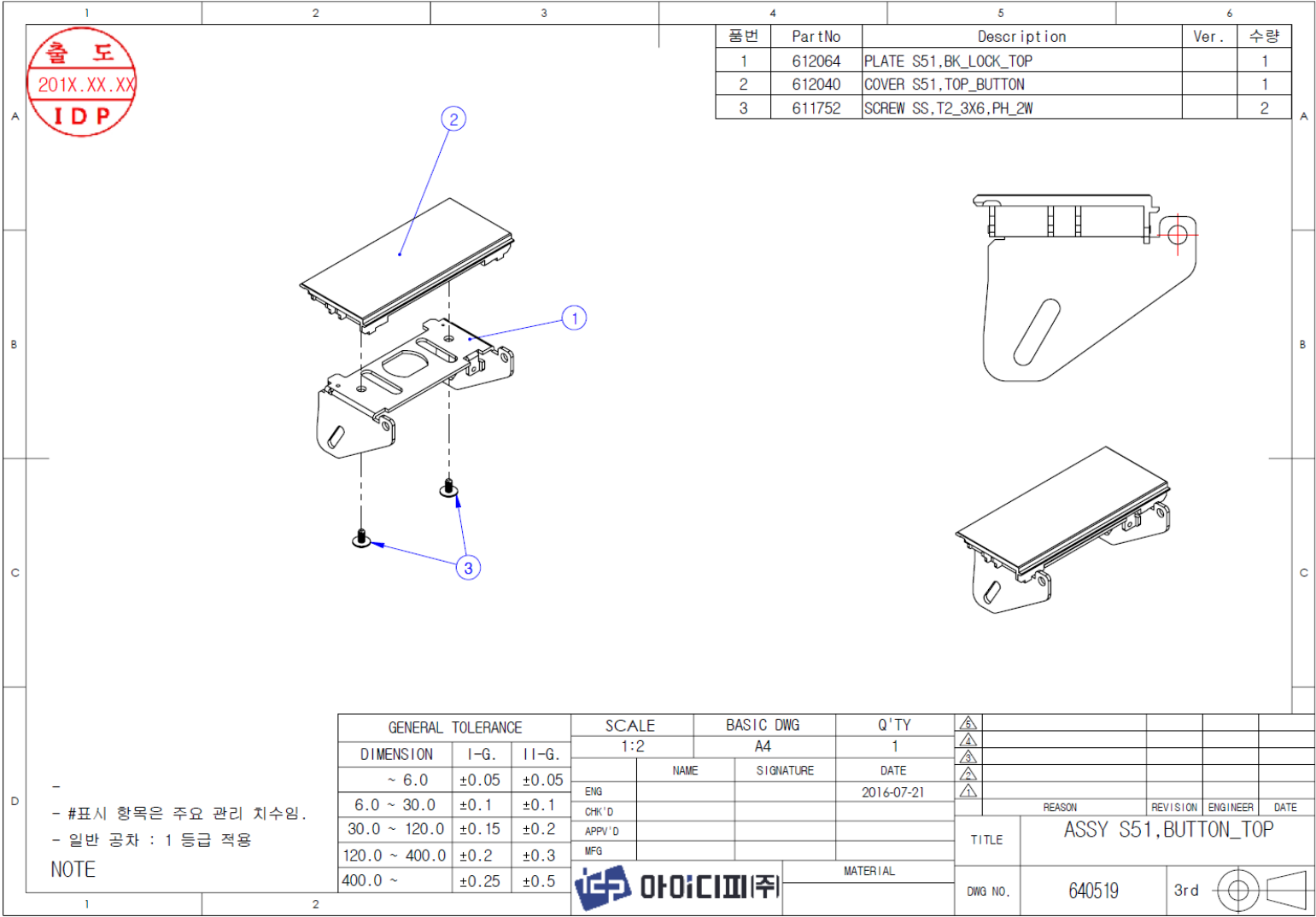
B.11 ASSY S51L,FLIPPER_MOTOR_BK

YOUR BEST ID PRINTER PROVIDER



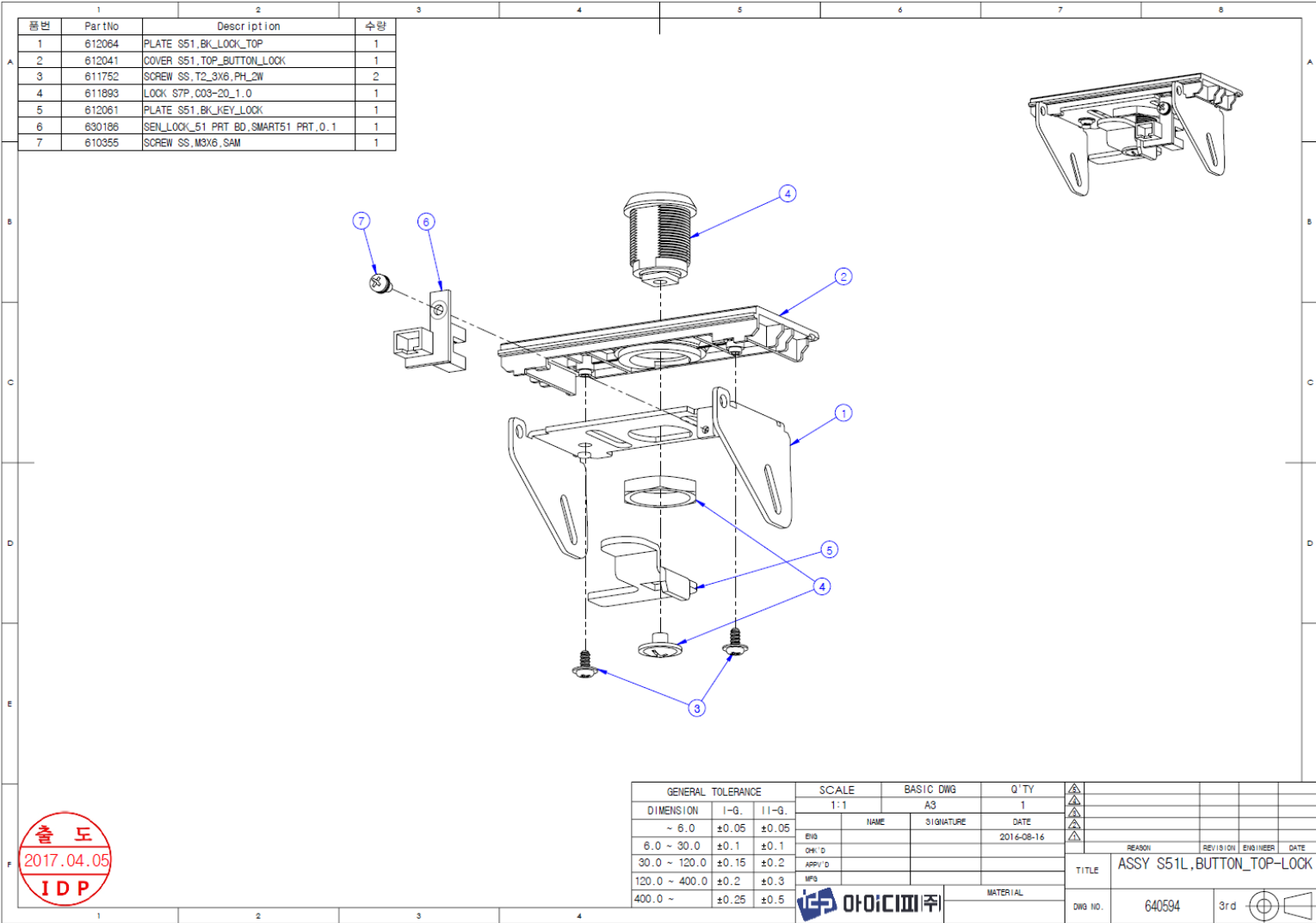
B.12 ASSY S51,BUTTON_TOP_STD

YOUR BEST ID PRINTER PROVIDER



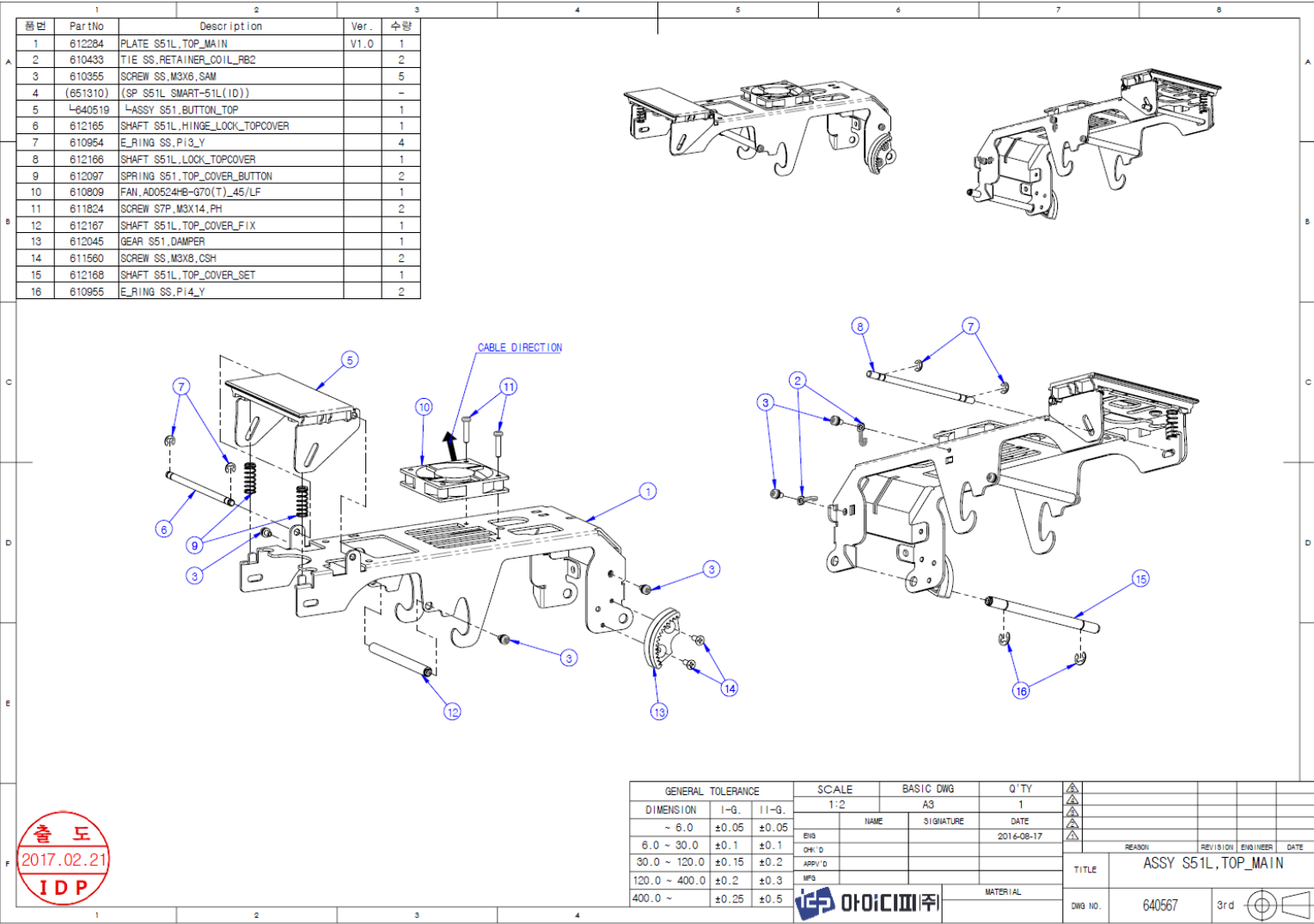
B.13 ASSY S51L,BUTTON_TOP-LOCK

YOUR BEST ID PRINTER PROVIDER



B.14 ASSY S51L, TOP_MAIN

YOUR BEST ID PRINTER PROVIDER



B.15 ASSY S51L,FLIPPER_PULLEY_BK

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
품번	PartNo	Description	Ver.	수량	
1	612160	PULLEY S51L,S3M30T_G38T		1	
2	610423	BEARING SS,MR126ZZ_CHN		1	
3	612139	PLATE S51L,PULLEY_FLIPPER_BK		1	
4	610354	SCREW SS,M3X6,SAM_2W		1	

Exploded view diagram of the Flipper Pulley Assembly. The diagram shows the following components labeled with circled numbers:

- 1: Pulley S51L,S3M30T_G38T
- 2: Bearing SS,MR126ZZ_CHN
- 3: Plate S51L,PULLEY_FLIPPER_BK
- 4: Screw SS,M3X6,SAM_2W

The diagram illustrates the assembly of the pulley onto the plate using the bearing and screw. A separate view shows the completed assembly.

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							

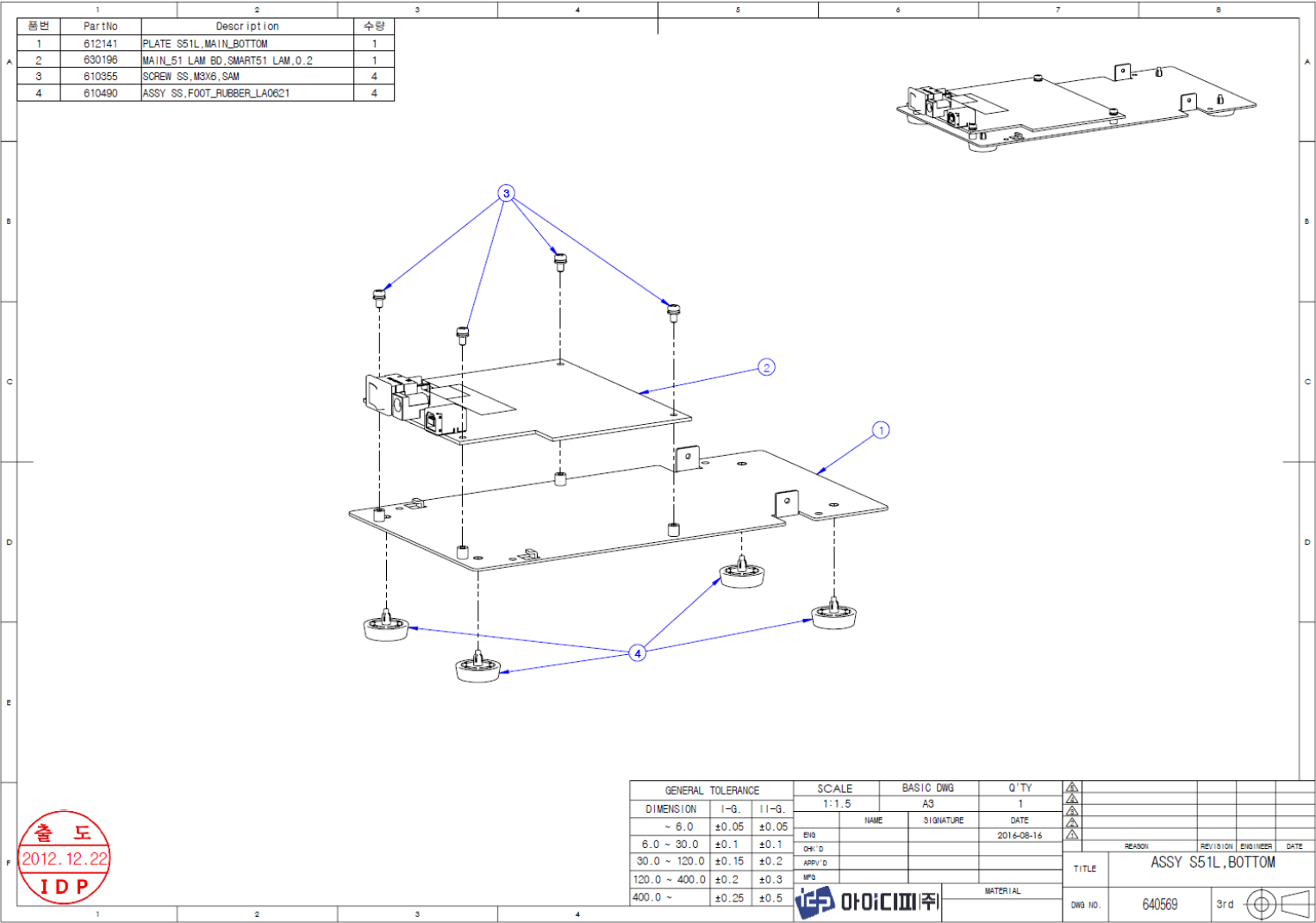
ENG	NAME	SIGNATURE	DATE				
CHK'D			2016-08-16				
APPV'D							
MFG							

TITLE		ASSY S51L, FLIPPER_PULLEY_BK	
DWG NO.	640568	3rd	

출도
2017.01.02
IDP

B.16 ASSY S51L,BOTTOM

YOUR BEST ID PRINTER PROVIDER



B.17 ASSY SO,PRINT_HEAD_HDR

YOUR BEST ID PRINTER PROVIDER

1	2	3	4	5	6
품번	PartNo	Description	수량		
1	612142	PLATE SO,HEAD_SET_HDR	1		
2	611972	LAMINATOR HEAD,HDR-0670K-4	1		
3	610355	SCREW SS,M3X6,SAM	2		

Exploded view diagram showing the assembly of the SO,PRINT_HEAD_HDR. The components are labeled 1, 2, and 3. Component 1 is the PLATE SO,HEAD_SET_HDR. Component 2 is the LAMINATOR HEAD,HDR-0670K-4. Component 3 is the SCREW SS,M3X6,SAM. The diagram shows the plate being inserted into the laminator head and secured with screws.

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							

ENG	NAME	SIGNATURE	DATE				
CHK'D			2016-10-31				
APPV'D							
MFG							

TITLE		REASON		REVISION	ENGINEER	DATE
ASSY SO,PRINT_HEAD_HDR						

출도
2016. 10. 31
IDP

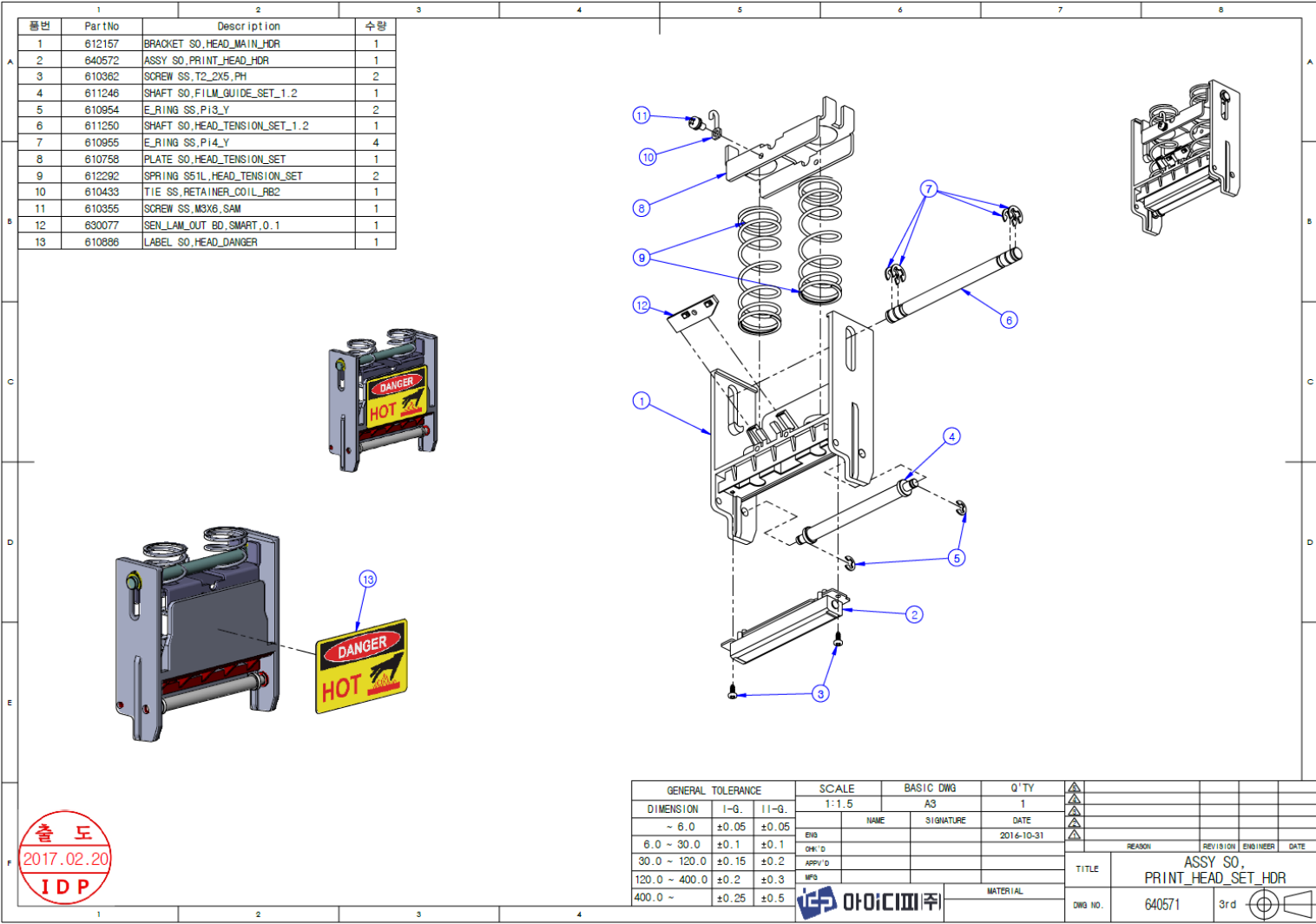
아이디피씨주

MATERIAL

DWG NO. 640572 3rd

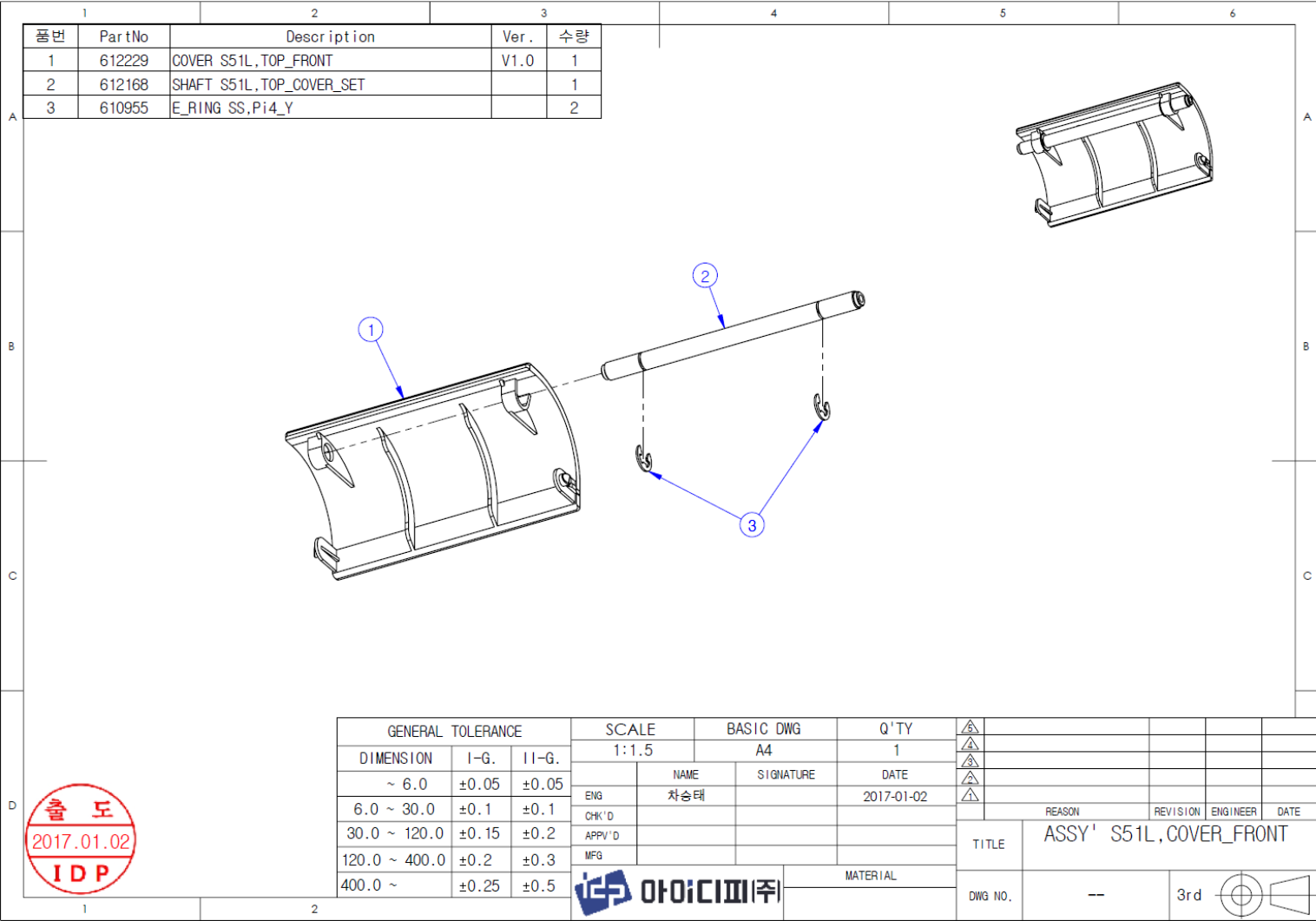
B.18 ASSY SO,PRINT_HEAD_SET_HDR

YOUR BEST ID PRINTER PROVIDER



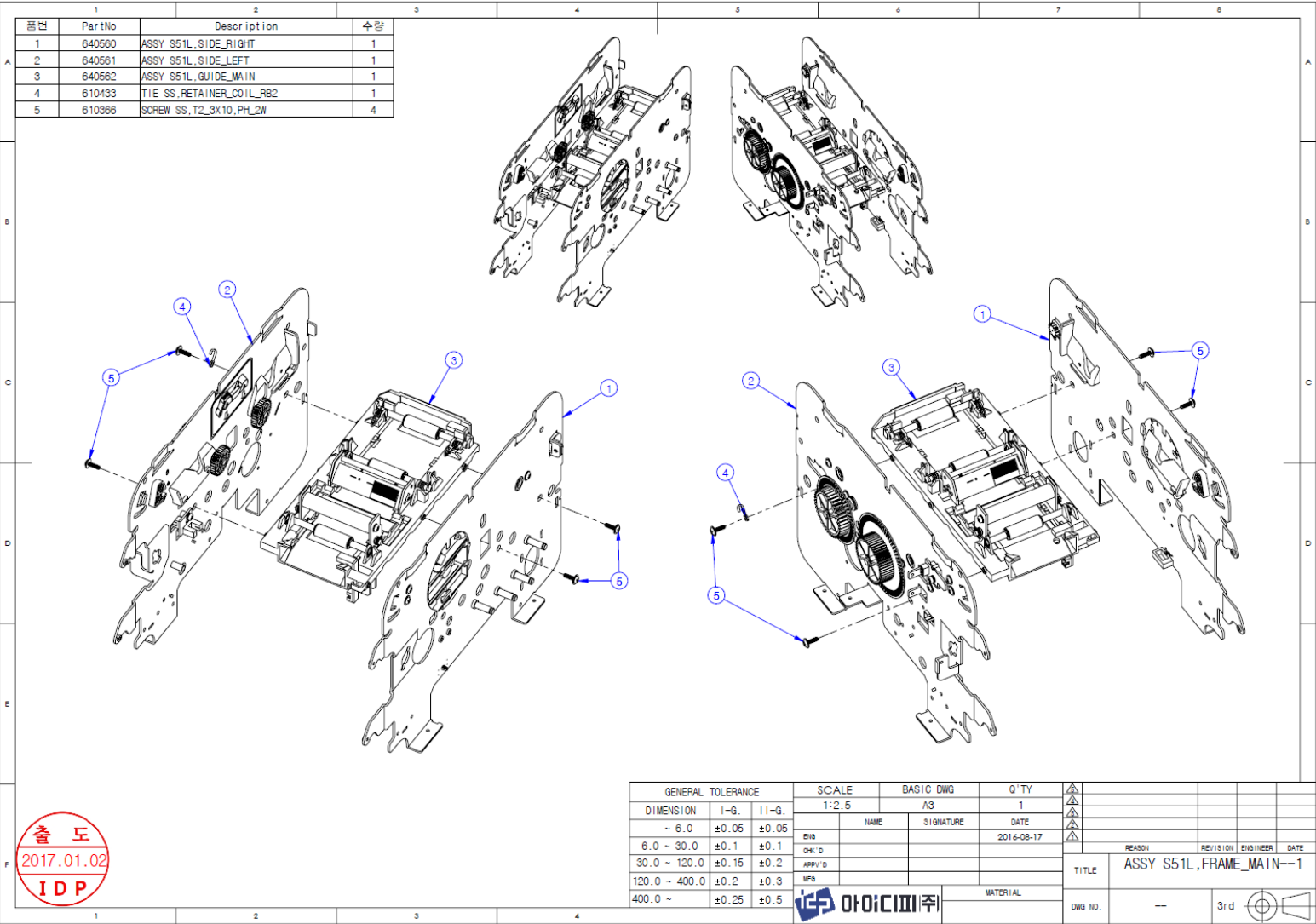
B.19 ASSY' S51L,COVER_FRONT

YOUR BEST ID PRINTER PROVIDER



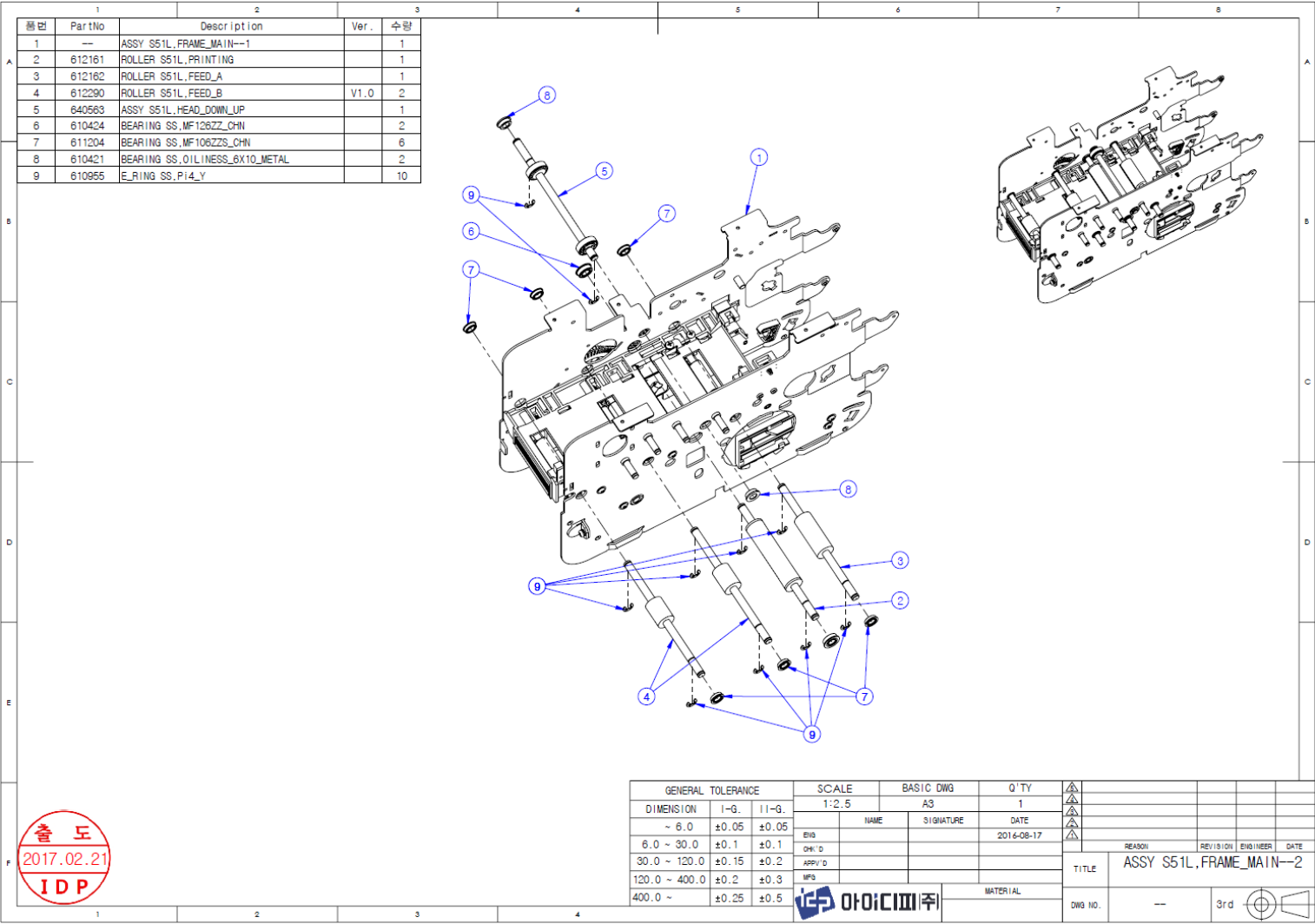
B.20 ASSY S51L,FRAME_MAIN

YOUR BEST ID PRINTER PROVIDER



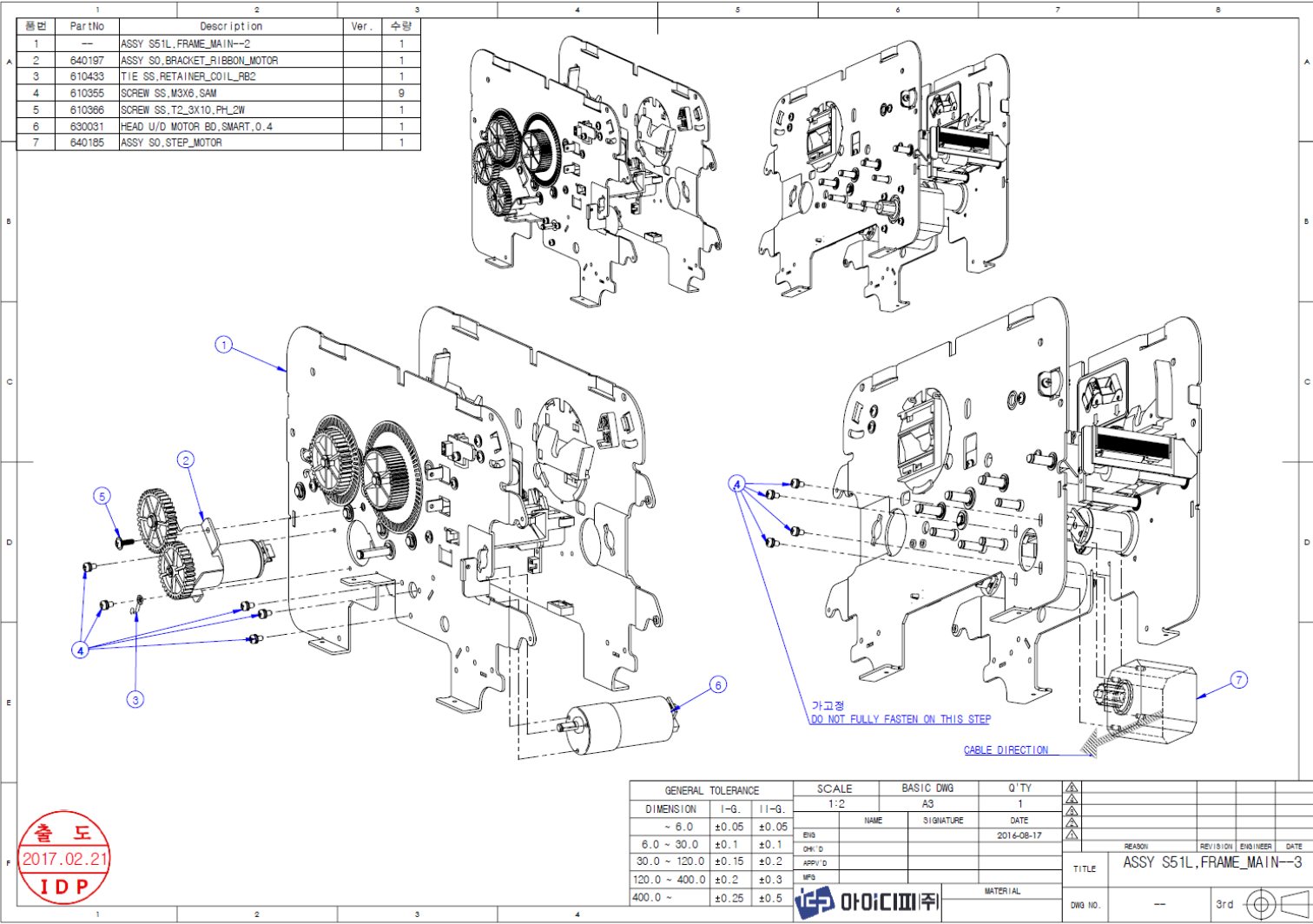
B.20 ASSY S51L,FRAME_MAIN

YOUR BEST ID PRINTER PROVIDER



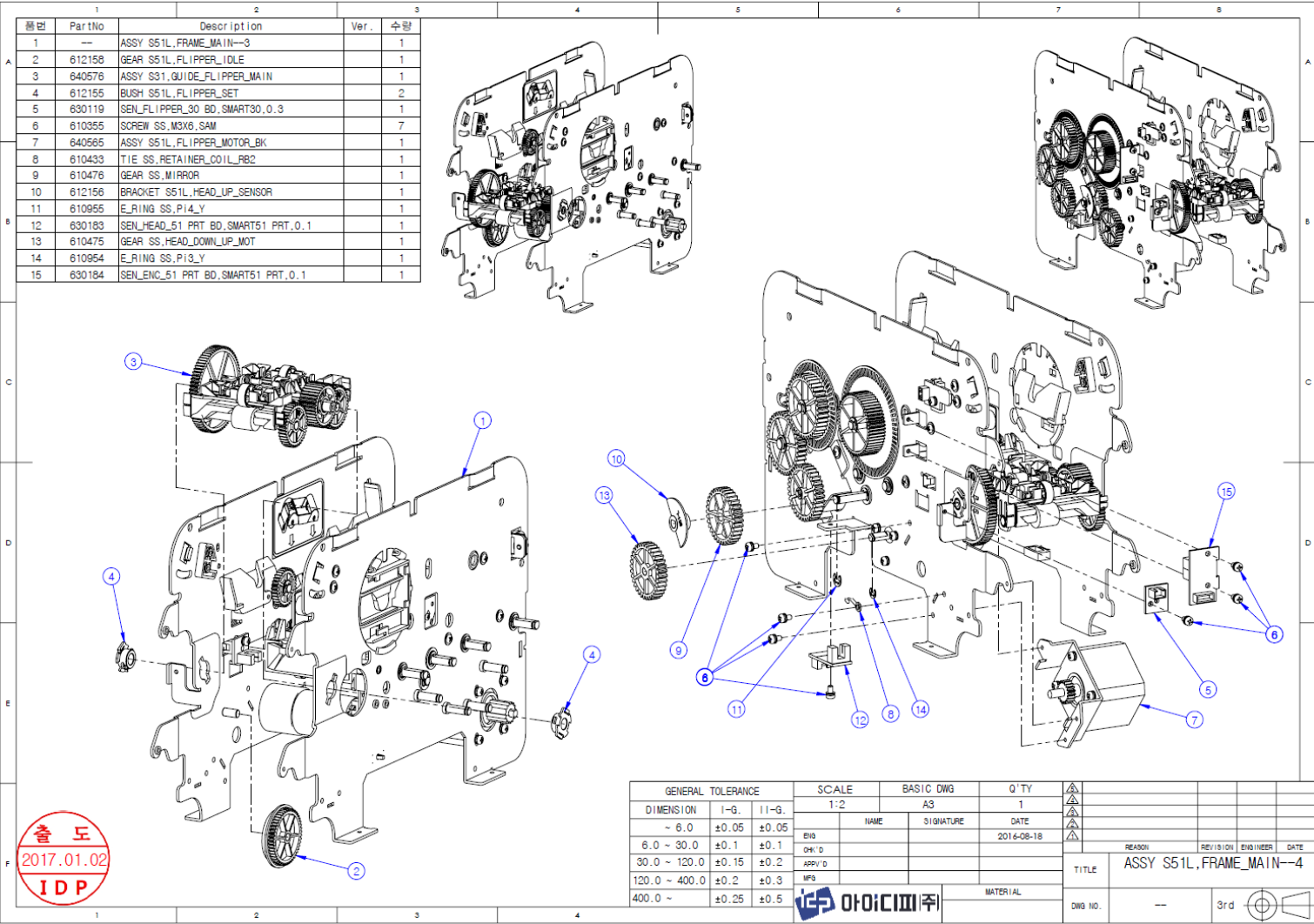
B.20 ASSY S51L,FRAME_MAIN

YOUR BEST ID PRINTER PROVIDER



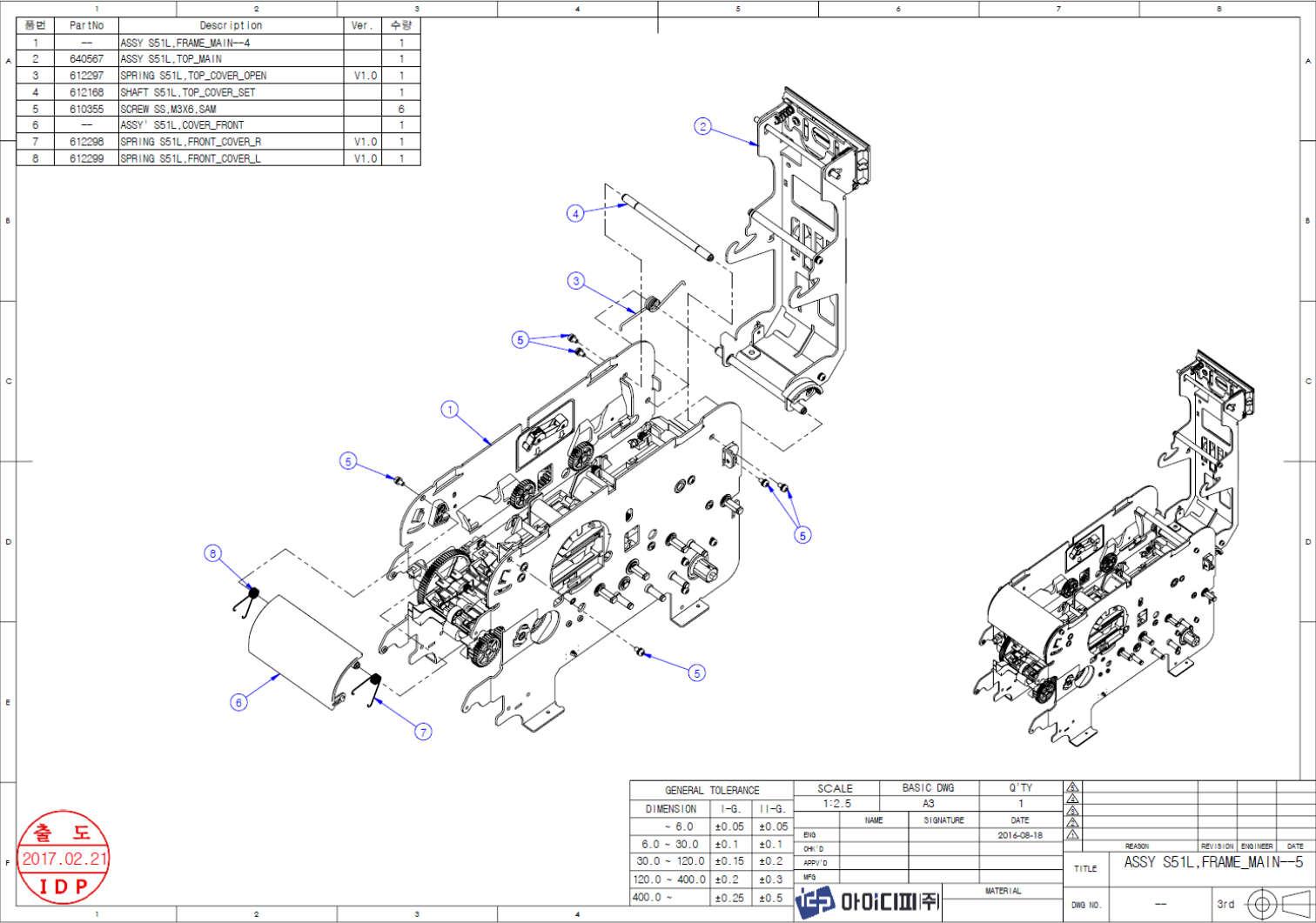
B.20 ASSY S51L,FRAME_MAIN

YOUR BEST ID PRINTER PROVIDER



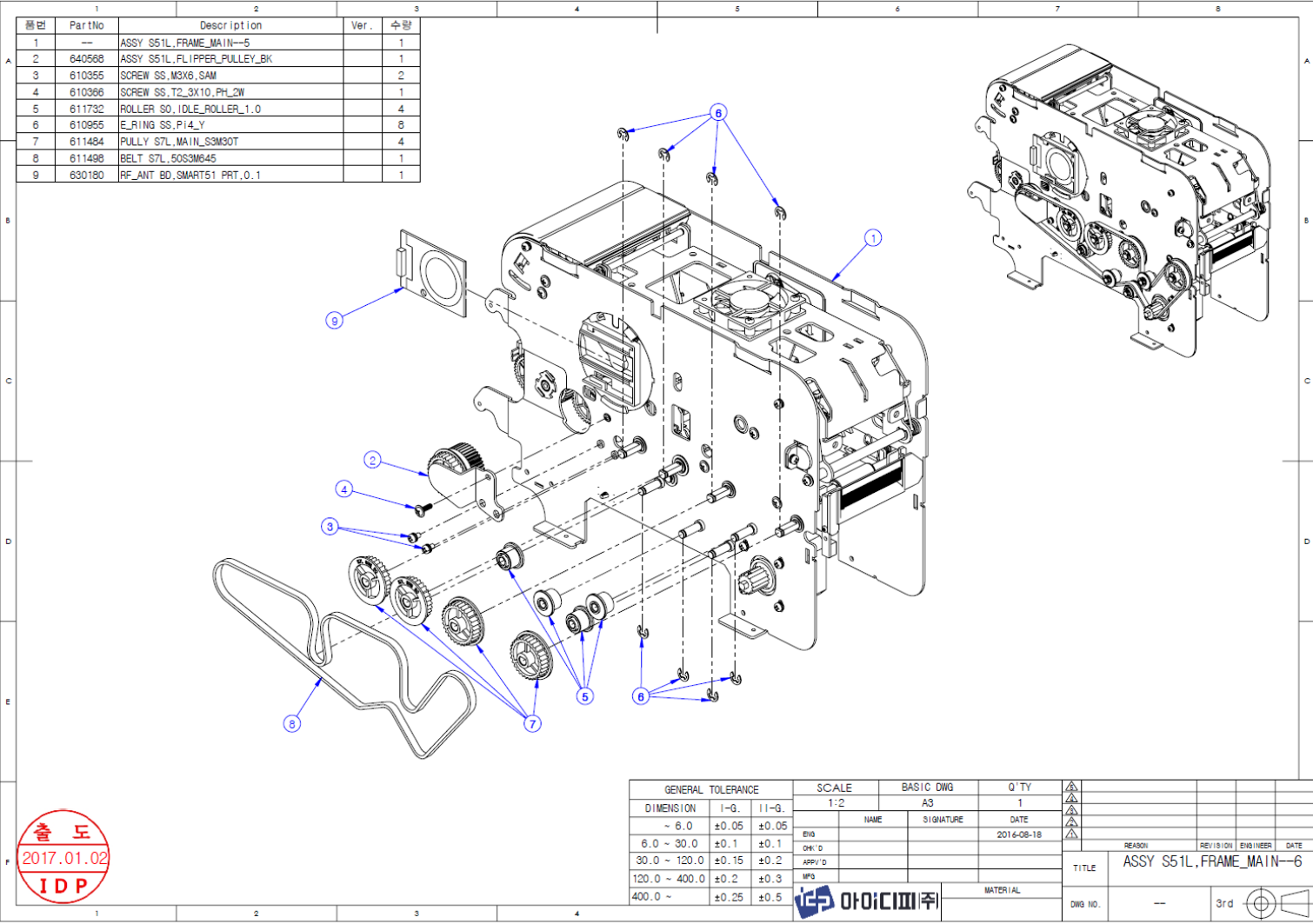
B.20 ASSY S51L,FRAME_MAIN

YOUR BEST ID PRINTER PROVIDER



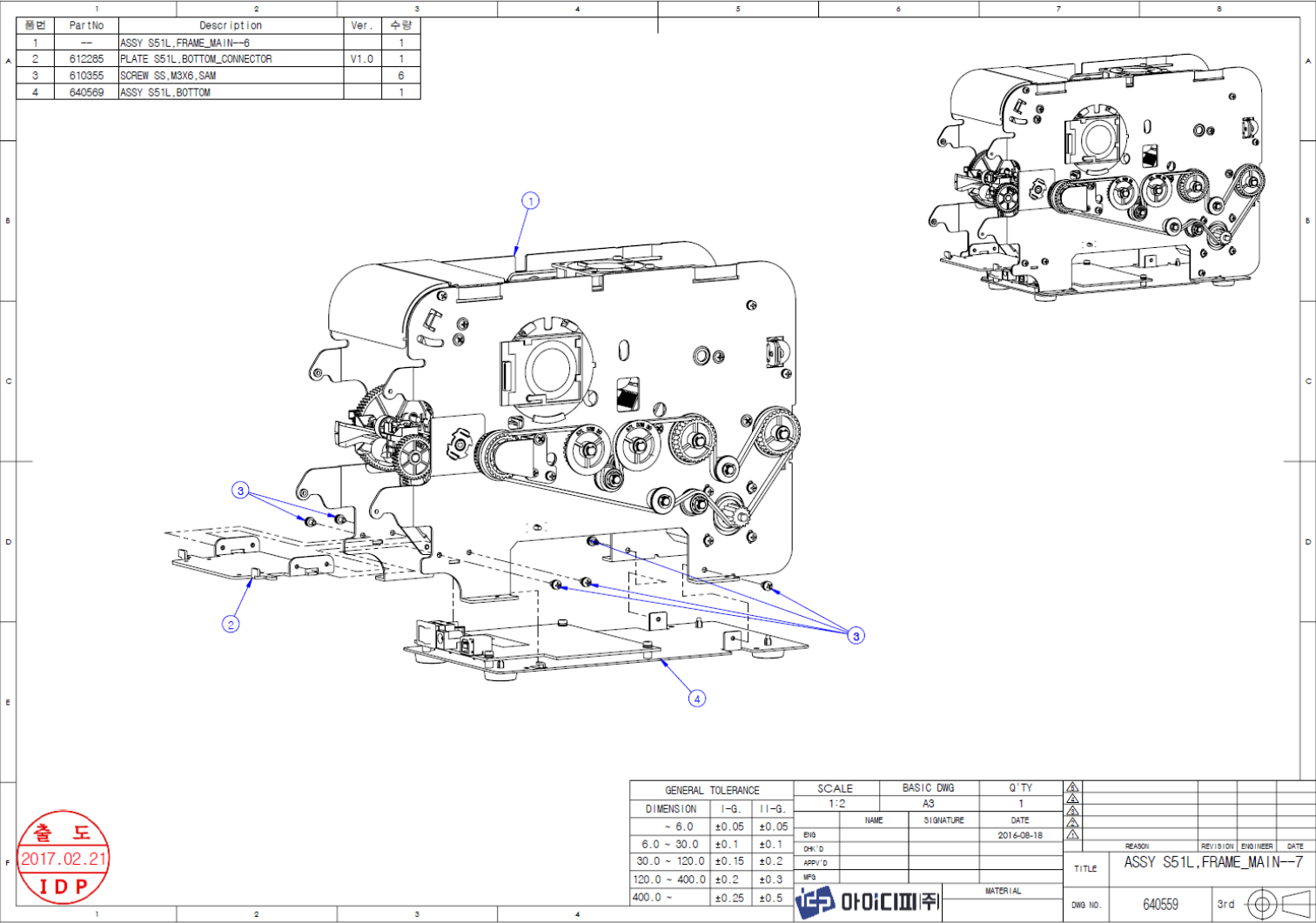
B.20 ASSY S51L,FRAME_MAIN

YOUR BEST ID PRINTER PROVIDER



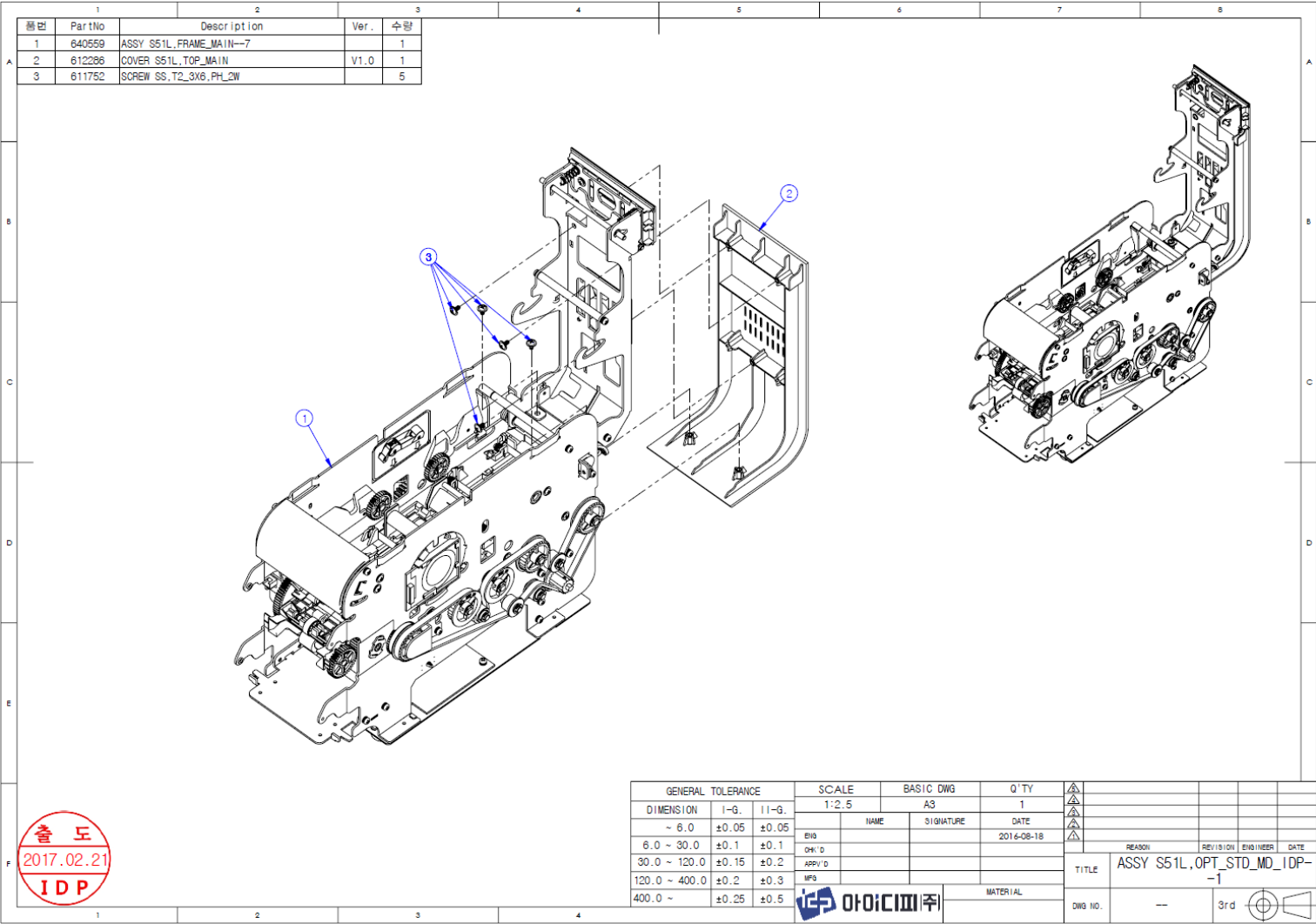
B.20 ASSY S51L,FRAME_MAIN

YOUR BEST ID PRINTER PROVIDER



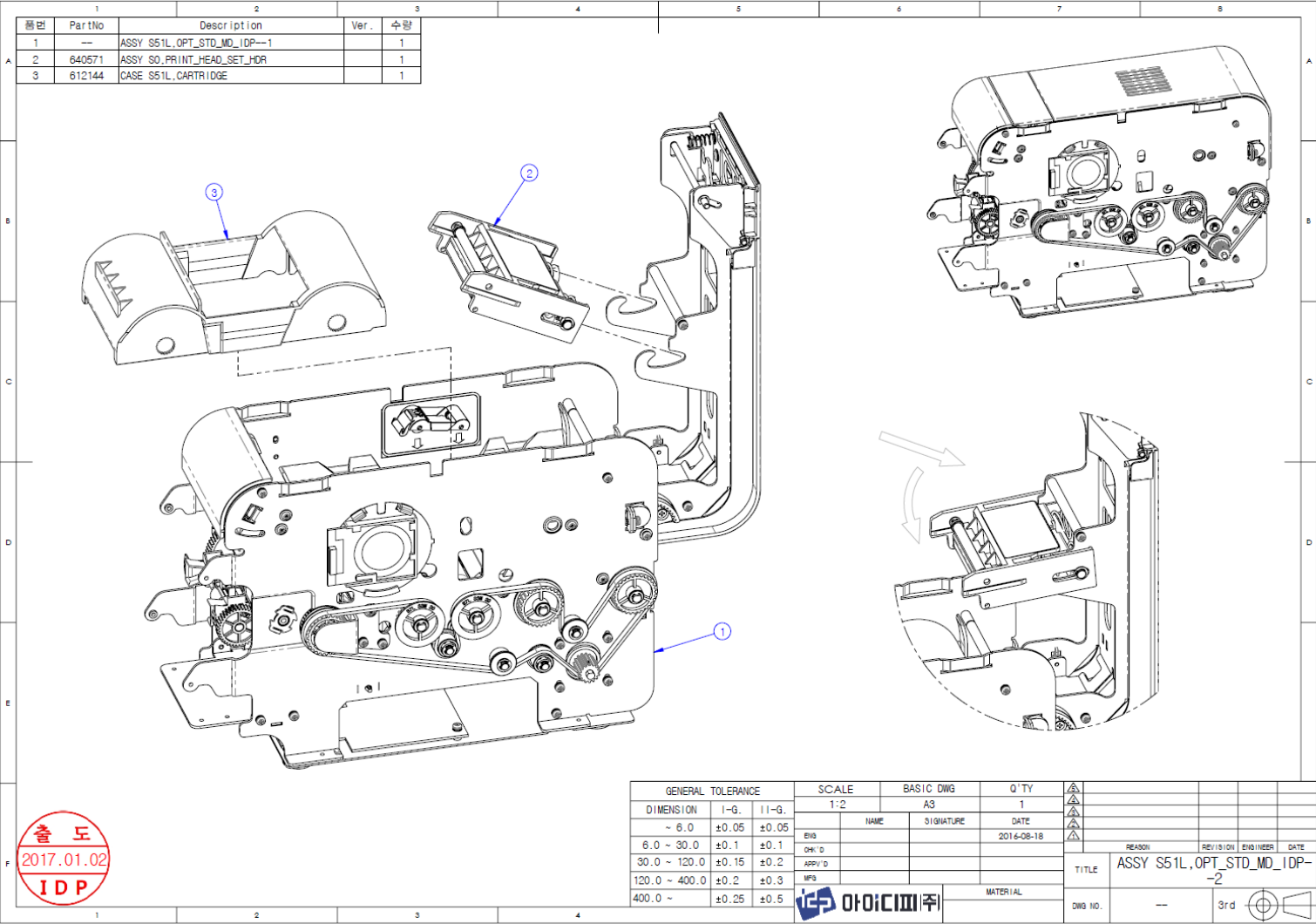
B.21 ASSY S51L,OPT_STD_MD_IDP

YOUR BEST ID PRINTER PROVIDER



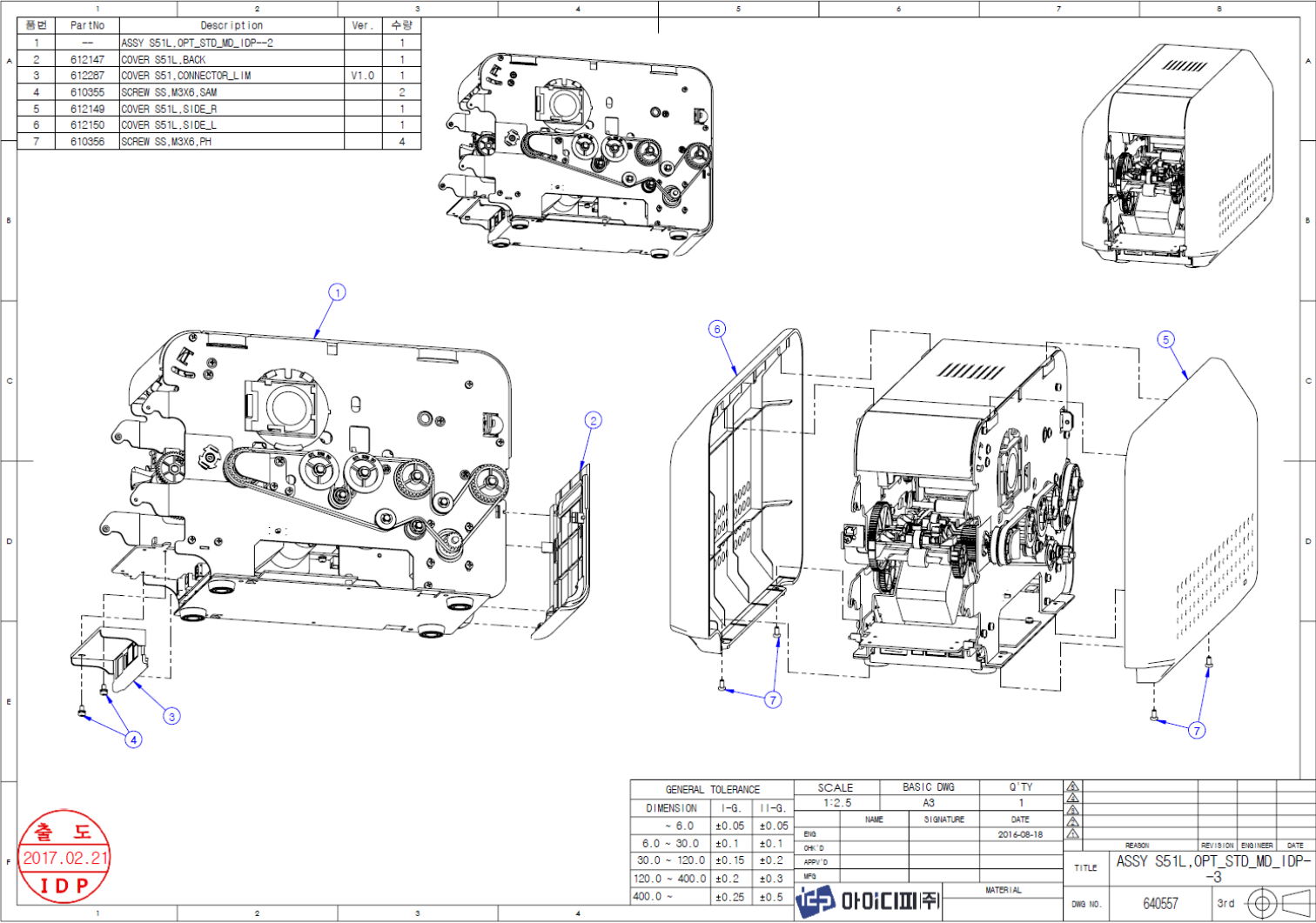
B.21 ASSY S51L,OPT_STD_MD_IDP

YOUR BEST ID PRINTER PROVIDER



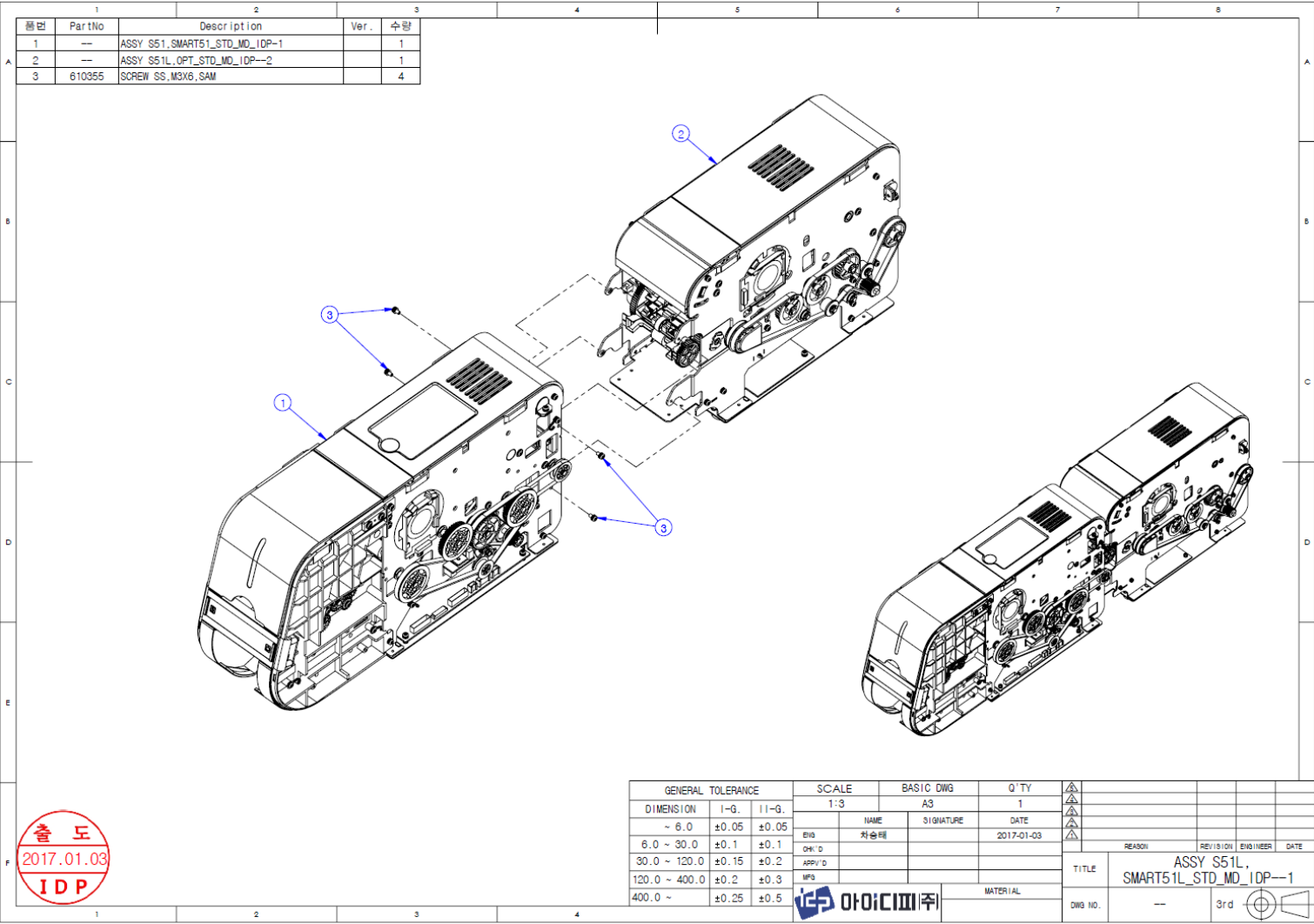
B.21 ASSY S51L,OPT_STD_MD_IDP

YOUR BEST ID PRINTER PROVIDER



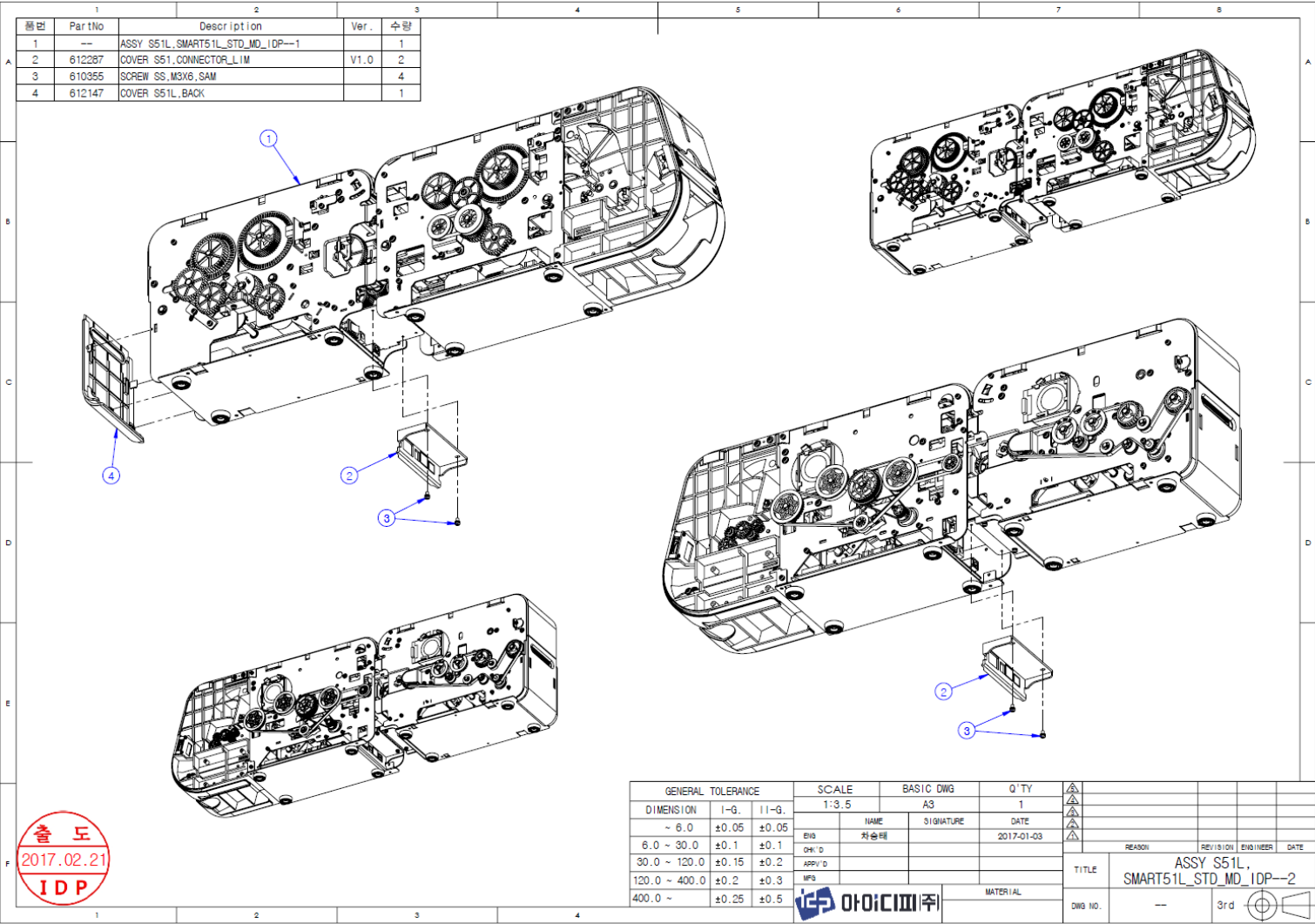
B.22 ASSY S51L,SMART51L_STD_MD_IDP

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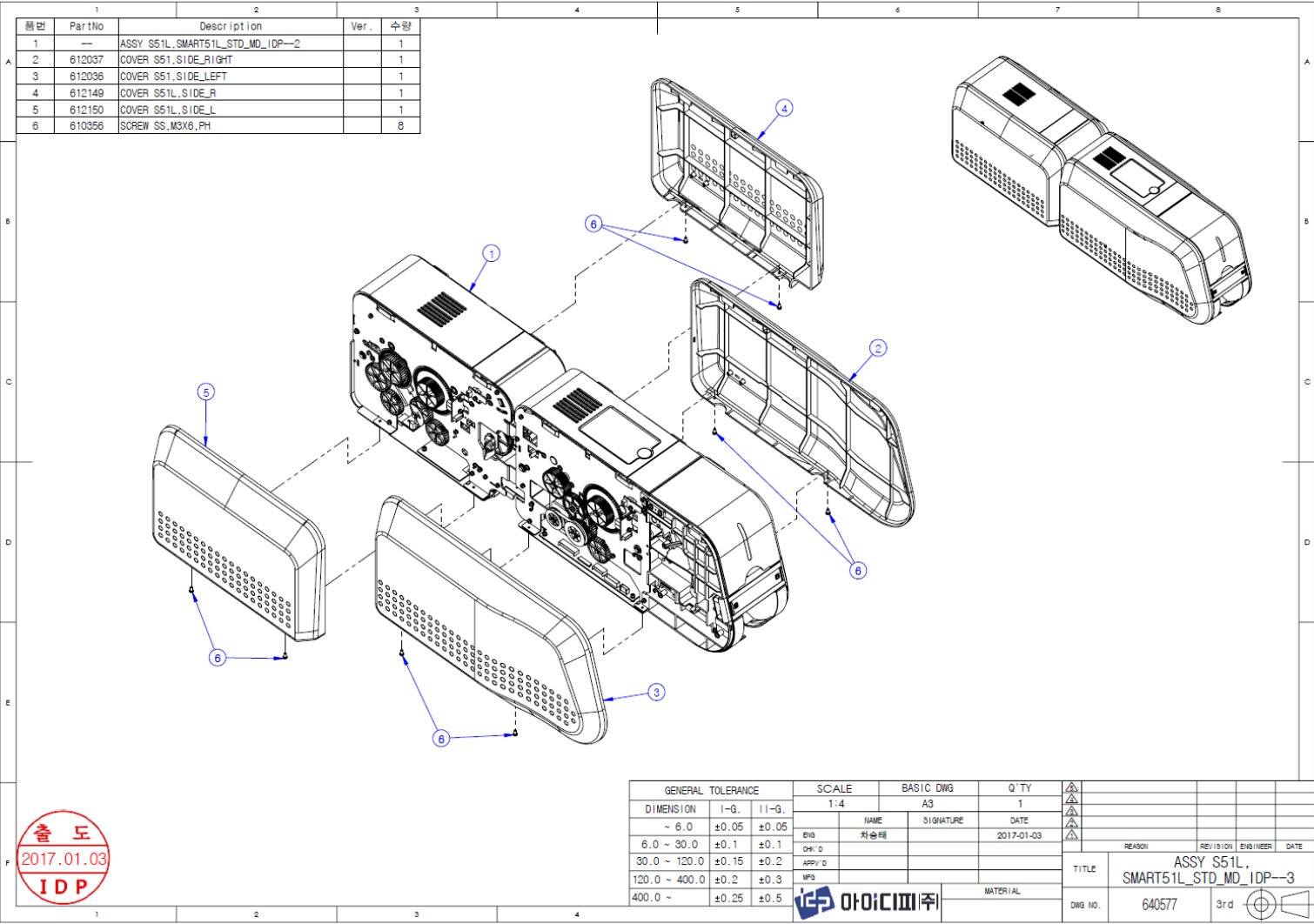
B.22 ASSY S51L,SMART51L_STD_MD_IDP

YOUR BEST ID PRINTER PROVIDER



B.22 ASSY S51L,SMART51L_STD_MD_IDP

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C. Service Parts List



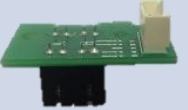
C.1 BOARD

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
1	630179	MAIN BOARD	MAIN_51 PRT BD,SMART51 PRT,0.1		
2	630181	LCD MODULE	LCD_51 BD,SMART51 PRT,0.1		
3	630180	RF BOARD	RF_ANT BD,SMART51 PRT,0.1		
4	630189	FLIPPER MAIN BOARD	FLIP MAIN_51 PRT BD,SMART51 PRT,0.2		
5	630196	LAMINATOR MAIN BOARD	MAIN_51 LAM BD,SMART51 LAM,0.2		
6	630105	MS BOARD	MS_TG313RWVPH_30 BD,SMART30,0.1		

C.2 SENSOR

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
1	630182	CARD PRESENCE SENSOR	SEN_HOP_51 PRT BD,SMART51 PRT,0.1		
2	630185	CARD POSITION SENSOR	SEN_CENT_51 PRT BD,SMART51 PRT,0.1		
3	630110	CARD OUT SENSOR	SEN_POS_30 BD,SMART30,0.2		
4	630188	RIBBON SEARCH SENSOR	SEN_COLOR_IN_51 PRT BD,SMART51 PRT,0.1		
5	630184	ENCODER SENSOR	SEN_ENC_51 PRT BD,SMART51 PRT,0.1		
6	630183	HEAD UP-DOWN SENSOR	SEN_HEAD_51 PRT BD,SMART51 PRT,0.1		
7	630019	CASE OPEN SENSOR	SENSOR DETECTOR BD,SMART,0.4		

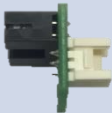
C.2 SENSOR

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
8	630187	RIBBON SEARCH SENSOR	SEN_COLOR_OUT_51 PRT BD,SMART51 PRT,0.1		
9	630190	FLIPPER CARD OUT SENSOR	SEN FLIP_OUT_51 BD,SM		
10	630147	FLIPPER BACK DOOR SENSOR	SEN_POS_70 HOP BD,SMART70 HOP,0.1		
11	630077	LAMINATOR RIBBON SEARCH SENSOR	SEN_LAM_OUT BD,SMART,0.1		
12	630076	LAMINATOR RIBBON SEARCH SENSOR	SEN_LAM_IN BD,SMART,0.1		
13	630134	LAMINATOR CARD IN/OUT SENSOR	SEN_CENTER_70PRT BD,SMART70 PRT,0.2		
14	630132	LAMINATOR CASE OPEN SENSOR	SEN_DETECT_70 PRT BD,SMART70 PRT,0.6		

C.2 SENSOR

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
15	630119	FLIPPER SENSOR	SEN_FLIPPER_30 BD,SMART30,0.3		

C.3 CABLE

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
1	612116	PRINTER HEAD CABLE	WIRE,THERMAL_HEAD_51 PRT,26P,370mm		
2	612117	ENCODER CABLE	WIRE,SEN_ENC_COV_51 PRT,8P,180mm		
3	612118	HOPPER MOTOR CABLE	WIRE,HOP_MOT_SEN_51 PRT,5P,260mm		
4	612119	LCD CABLE	WIRE,LCD_SW_51 PRT,20P,270mm		
5	612120	I/O CABLE	WIRE,I/O_51 PRT,15P,480mm		
6	612121	RF CABLE	WIRE,RF_ANT_51 PRT,3P,130mm		
7	612123	FLIPPER LINK CABLE	WIRE,FLIP_POW_51 PRT,8P,290m		

C.3 CABLE

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
8	612124	FLIPPER SENSOR CABLE	WIRE,FLIP_SENS_51 PRT,11P,110mm		
9	610861	LAMINATOR RIBBON SEARCH SENSOR CABLE	WIRE,SEN_LAM_IN,3P,110mm		
10	612219	LAMINATOR HEAD CABLE	WIRE,HOMING_LIMITS_51 LAM,9P,460mm		
11	612220	LAMINAOTR RF CABLE	WIRE,RF_ANT_51 LAM,3P,170mm		
12	612221	LAMINATOR I/O CABLE R	WIRE,LAM_I/O_R_51 LAM,14P,170mm		
13	612222	LAMINATOR I/O CABLE L	WIRE,LAM_I/O_L_51 LAM,18P,250mm		
14	612223	LAMINATOR LINK CABLE	WIRE,SERIAL_LINK_51_LAM,4P, 290mm		

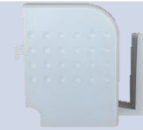
C.3 CABLE

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
15	612122	LOCK SENSOR CABLE	WIRE,SEN_LOCK_51 PRT,3P,540mm		
16	610120	USB CABLE	CABLE,USB2AB1.8M,1.8M,USB1.0		

C.4 COVER

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
1	612036	SIDE COVER L	COVER S51,SIDE_LEFT		
2	612037	SIDE COVER R	COVER S51,SIDE_RIGHT		
3	612039	TOP COVER	COVER S51, TOP		
4	612030	BACK COVER	COVER S51, BACK		
5	612034	FRONT COVER	COVER S51, FRONT_COVER_ASSY		
6	612028	FRONT STACKER	CASE S51,CARD_CASE_FRONT		
7	612038	REAR STACKER	COVER S51, STACKER_BACK		

C.4 COVER

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
8	612150	LAMINATOR SIDE COVER L	COVER S51L,SIDE_L		
9	612149	LAMINATOR SIDE COVER R	COVER S51L,SIDE_R		
10	612286	LAMINATOR TOP COVER	COVER S51L,TOP_MAIN V1.0		
11	612147	LAMINATOR BACK COVER	COVER S51L,BACK		
12	612229	LAMINATOR FRONT COVER	COVER S51L,TOP_FRONT V1.0		
13	612287	CONNECTOR COVER	COVER S51,CONNECTOR_LIM V1.0		
14	612029	RIBBON CARTRIDGE	CASE S51,CARTRIDGE		

C.4 COVER

No.	Part No.	Item	Spec.	Photo	Note
15	612144	LAMINATOR RIBBON CARTRIDGE	CASE S51L,CARTRIDGE		
16	612361	TOP COVER OPEN BUTTON	COVER S51,TOP_BUTTON_V1.0		
17	612041	TOP COVER OPEN BUTTON (LOCK)	COVER S51,TOP_BUTTON_LOCK		

C.5 MOTOR

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
1	640264	MAIN STEP MOTOR	ASSY S3,STEP_MOTOR		
2	630021	HOPPER MOTOR	ASSY SS HOPPER MOT		
3	630031	HEAD UP-DOWN MOTOR	HEAD U/D MOTOR BD,SMART,0.4		
4	630058	RIBBON MOTOR	RIBBON MOTOR BD,SMART,0.4		
5	611169	FLIPPER STEP MOTOR	MOTOR STEP,17HD5003		
6	640185	LAMINATOR MAIN STEP MOTOR	ASSY SO,STEP_MOTOR		
7	640566	LAMINATOR FLIPPER STEP MOTOR	ASSY S51L,FLIPPER_MOTOR		

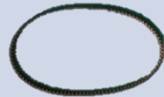
C.5 MOTOR

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
8	630074	LAMINATOR RIBBON MOTOR	ASSY SO,RIBBON_MOTOR		

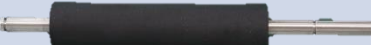
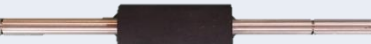
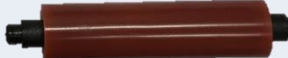
C.6 BELT

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
1	612002	STEP BELT	BELT S51,S2M202_W5		
2	610486	FEEDING BELT	BELT SS,50DS3M432		
3	612001	REAR OUT BELT	BELT S51,O_RING_Pi52		
4	610913	RIBBON FEEDING BELT	BELT SS,Pi39.7X3.5_SILICONE		
5	611498	LAMINATOR FEEDING BELT	BELT S7L,50S3M645		

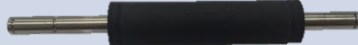
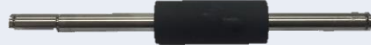
C.7 ROLLER

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
1	612074	CLEANING ROLLER FIXED	ROLLER S51,CLEANING_FIX		
2	612079	MS ROLLER	ROLLER S51,MS		
3	612080	PRINTING ROLLER	ROLLER S51,PRINTING		
4	612078	IC ROLLER	ROLLER S51,IC		
5	612075	OUT ROLLER	ROLLER S51,EXIT		
6	610920	CLEANING ROLLER	ROLLER SS,CLEANING,1.1		
7	612188	FLIPPER ROLLER	ROLLER S31,FLIPPER_FEED		

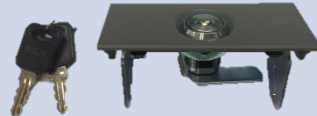
C.7 ROLLER

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
8	612076	HOPPER ROLLER 1	ROLLER S51,HOPPER_CARD_IN_1		
9	612077	HOPPER ROLLER 2	ROLLER S51,HOPPER_CARD_IN_2		
10	612161	LAMINATING ROLLER	ROLLER S51L,PRINTING		
11	612162	LAMINATOR FEED ROLLER 1	ROLLER S51L,FEED_A		
12	612290	LAMINATOR FEED ROLLER 2	ROLLER S51L,FEED_B V1.0		

C.8 ETC

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
1	610344	COOLING FAN	FAN,AD0524HB-G70(T)/LF		
2	630095	MS HEAD	MS_TG313RWVPH BD,SMART,0.1		
3	640519	TOP COVER BUTTON	ASSY S51,BUTTON_TOP		
4	640520	TOP COVER BUTTON (LOCK)	ASSY S51,BUTTON_TOP-LOCK		
5	640525	LCD PANEL	ASSY S51,FRONT_LCD_COVER		
6	610809	LAMINATOR COOLING FAN	FAN,AD0524HB-G70(T)_45/LF		
7	640594	TOP COVER BUTTON (LOCK) L	ASSY S51L,BUTTON_TOP-LOCK		

C.8 ETC

YOUR BEST ID PRINTER PROVIDER

No.	Part No.	Item	Spec.	Photo	Note
8	640576	FLIPPER ASSY	ASSY S31,GUIDE_FLIPPER_MAIN		
9	640532	PRINT HEAD	ASSY S51,PRINT_HEAD_KPE		
10	640531	HOPPER	ASSY S51,INPUT_HOPPER		
11	611893	KEY-LOCK	LOCK S7P,C03-20_1.0		
12	611911	ADAPTOR	ADAPTOR,ATS-065T- P241(24V/2.7A,PEAK 11A)		
13	640571	LAMINATE HEAD	ASSY SO,PRINT_HEAD_SET_HDR		

Thanks !

