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8202-0006	SERVICE MANUAL	B	1 OF 51	2008.02.25

Card Issuing Machine for Magnetic, Contact & IC Card

CHECK	DATE	DESCRIPTION	REV	PAGE
1	2005.03.01	CIM-1XXX series service manual establishment	A	47
2	2008.02.25	CIM-1XXX series service manual amendment	B	51

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Notice

We greatly appreciate your using CIM-1000 series.

Please follow this manual which is helpful for user to maintain
and repair cim-1000 series when facing problem.

If you need other assistance or just have a question,
please call our technical support staff or send us e-mail

Contents

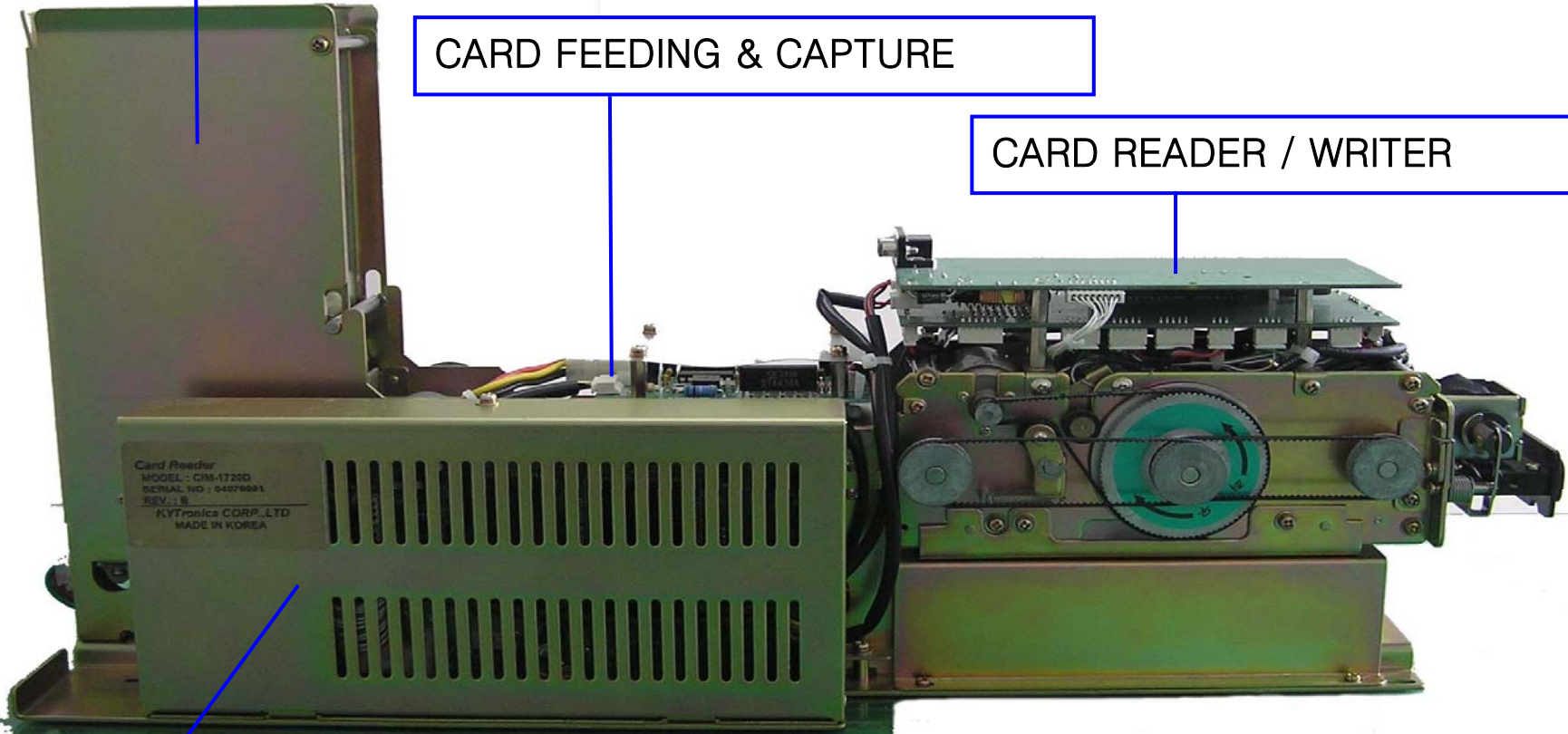
PART-I.	Configuration of CIM-1000 series	=====	3	PAGE
PART-II.	Maintenance and repair	=====	4	PAGE
PART-III.	Trouble shooting	=====	5 ~ 6	PAGE
PART-IV.	Parts Replacement	=====	7 ~ 46	PAGE
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PART-VI	Contact information	=====	51	PAGE

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PART (I)	CONFIGURATION	PROCESS		

CARD DISPENSING

CARD FEEDING & CAPTURE

CARD READER / WRITER



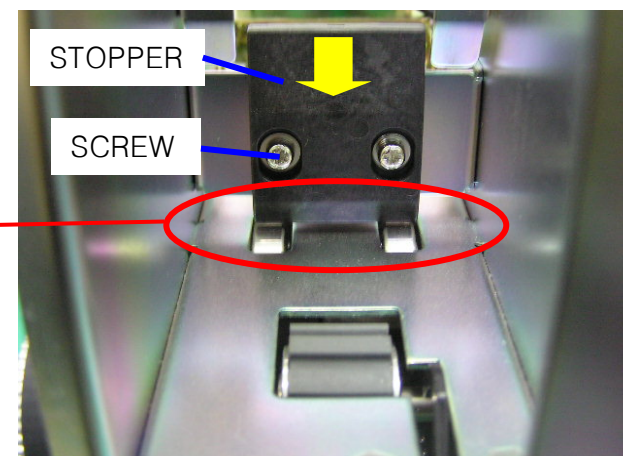
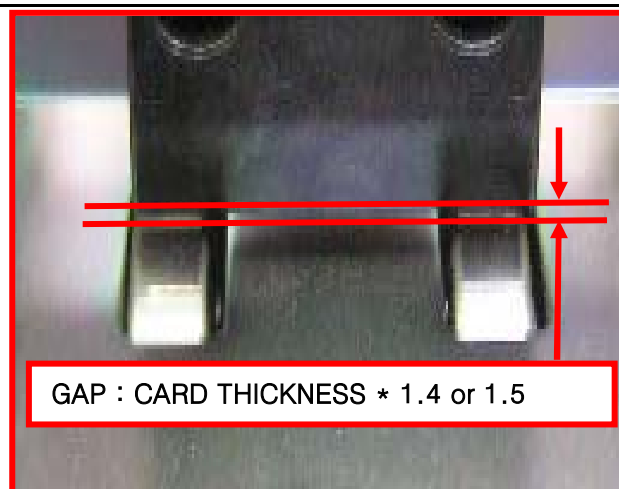
MAIN CONTROL MODULE

CIM-1XXX SERIES

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PART (II)		MAINTENANCE	PROCESS		
NO	Section	Maintenance method			
1	ROLLER CLEANING & HEAD CLENAING	<p>Wet CLEANING CARD with 4 ~ 7 drop of alcohol, And then wipe the header and roller with cleaning card in 5 ~ 6 times by moving the roller.</p> <p>☞ Clean every day or every week according to the pollution rate and the movement status of the roller.</p> <p>☞ HEAD CLEANING CARD</p> <p>(1) Product name : HEAD CLEANING CARD (2) Company name : CLEAN TEAM CO. (3) Address : CLEAN TEAM COMPANY , 3655 PACIFIC HIGHWAY SAN DIEGO , CA 92101 (4) TEL : (619) 299-9000 (800) 888-8830 FAX : (619) 299-1462 (5) HOME PAGE : http://cleanteam.com/</p>			
2	BELT TENSION	<p>As the picture on the right, Loosen the screws with the plus screw driver. And push up or pull down the motor along the arrows. And then tighten the screws.</p> <p>☞ it does require maintenance every week or every month according to the belt tension.</p>			
3	Parts replacement	<p>1. All assembly is in reverse order of disassembly. 2. Please be sure to take care of "※ NOTE" mark.</p>			

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PART (III)	TROUBLE SHOOTING	PROCESS		

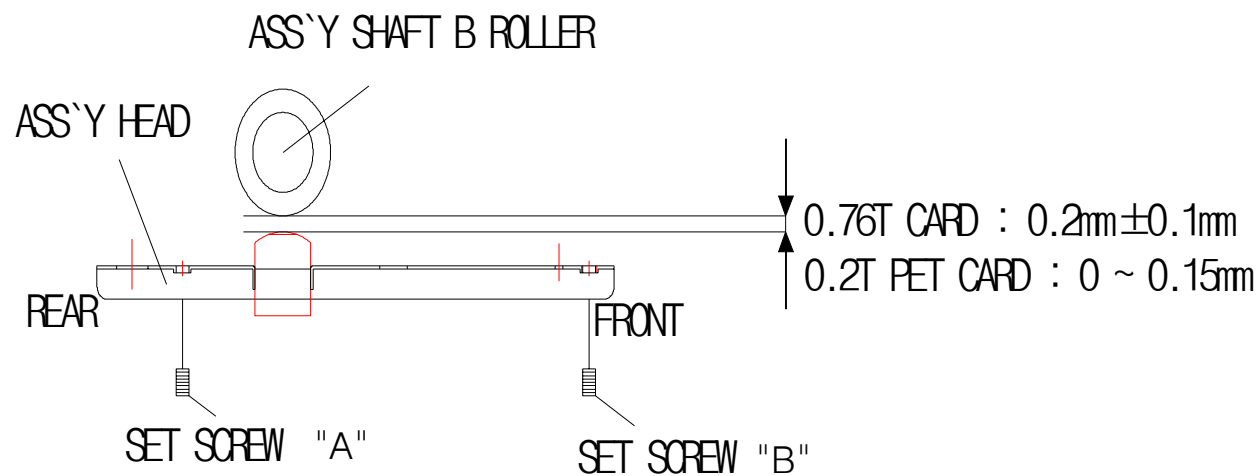
NO	Malfunction	CHECK POINT	Management
1	Communication Error	1. Check on/off status of Power switch. 2. Check if the power cable is normal. 3. Check if communication cable's connection is normal.	1. Power switch ON 2. Power cable connect 3. Communication cable connect
2	Card feeding error or Card jam	1. Inspect connection status of the cables (Motor and sensor) 2. Sensor is functioning normally. (Insert the card into the front entrance, and then check if the sensor voltage is changed from HI (4.6v over) to LOW (0.5v under) while you turn the main pulley by hand.) 3. Check if the motor is functioning normally (Supply DC 24V to the motor.) 4. Confirm main PCB' A 5. Check the pollution rate of sensor and roller. 6. Confirm the belt tension. 7. Check if roller gap is appropriate. 8. Check if the cards is loaded in the stacker normally	1. Motor & Sensor cable connect (See page 8,10,12,14,25,26,35,36) 2. Replace SENSOR PCB'A.(See page 24,29,36,39,40) 3. Replace Motor. (See page 22,30,38) 4. Replace Main PCB'A.(See page 11,13,27,34) 5. Remove the dust and clean the roller.(See page 4) 6. Adjust or replace the belt tension.(See page 17,29,30,36) 7. Loosen the screw of the stopper a little. And insert the card with paper or gap gauge between stopper and ass'y middle shaft. And then push up middle of the stopper and tighten the SCREW while maintaining level of the stopper. (CARD GAP: CARD thickness * 1.4 ~ 1.5) 8. Load the cards in the stacker normally.



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PART (III)	TROUBLE SHOOTING	PROCESS		

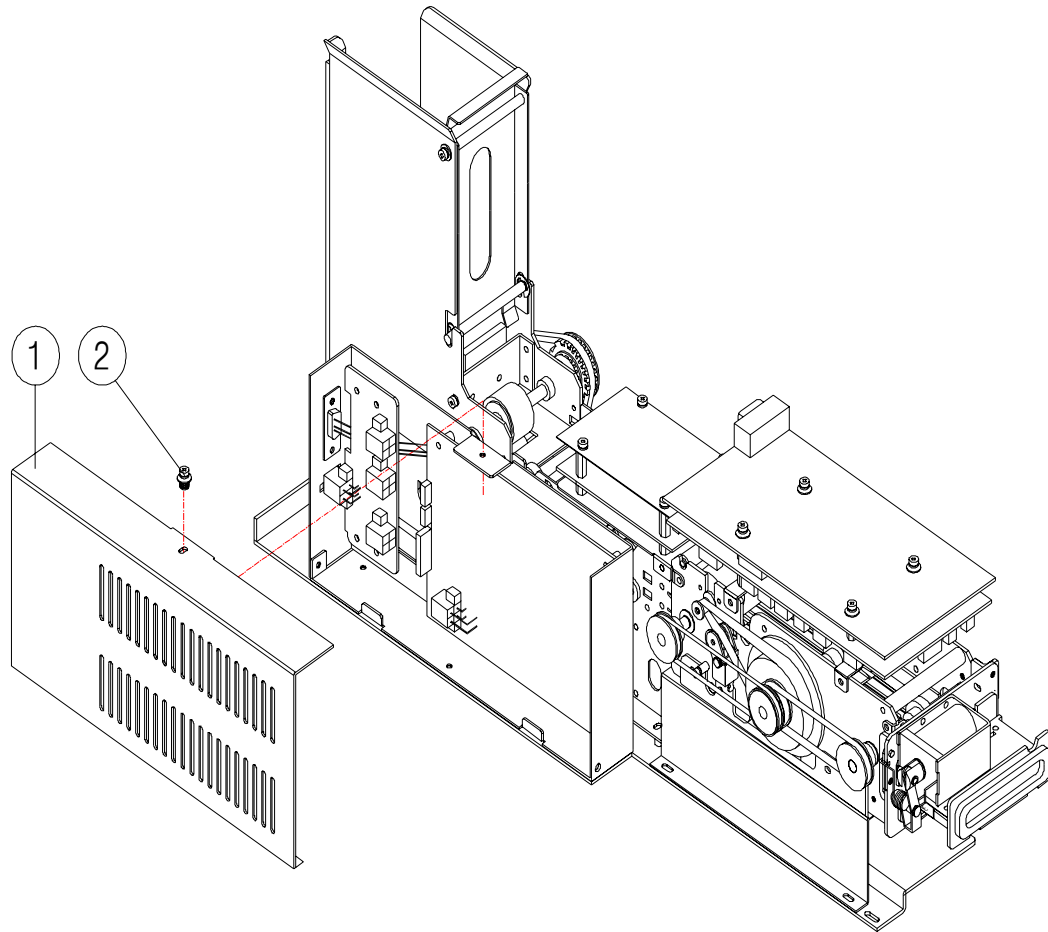
NO	Malfunction	CHECK POINT	Management
3	READ/WRITE ERROR	1. Check HEAD's life time. 2. Check HEAD's gap. 3. Check HEAD's pollution rate. 4. Check the cards to use. 5. Check MAIN PCBA.	1. Replace HEAD 2. Adjust HEAD's gap with the SET SCREW to $0.2\text{mm} \pm 0.1\text{mm}$ as the picture below. (Adjust the gap of "A" and "B" the same. And if 0.2T cards is used, adjust to $0 \sim 0.15\text{mm}$.) 3. Clean the HEAD. 4. 1) Check the pollution rate (Card cleaning) 2) Check the card with another card reader. 5. Replace MAIN PCBA

HEAD GAP SETTING



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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MAIN CONTROL MODULE Disassembly
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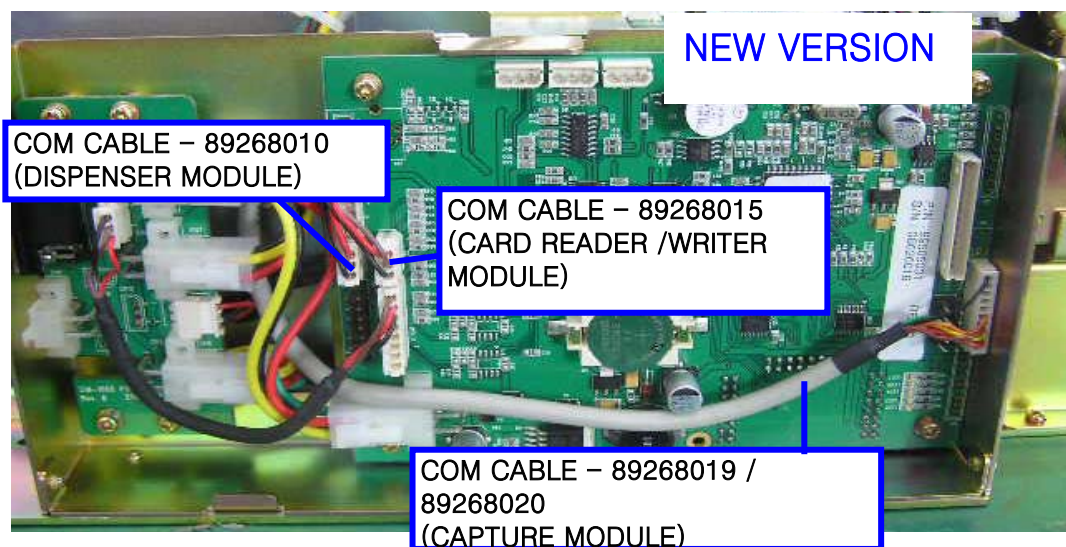
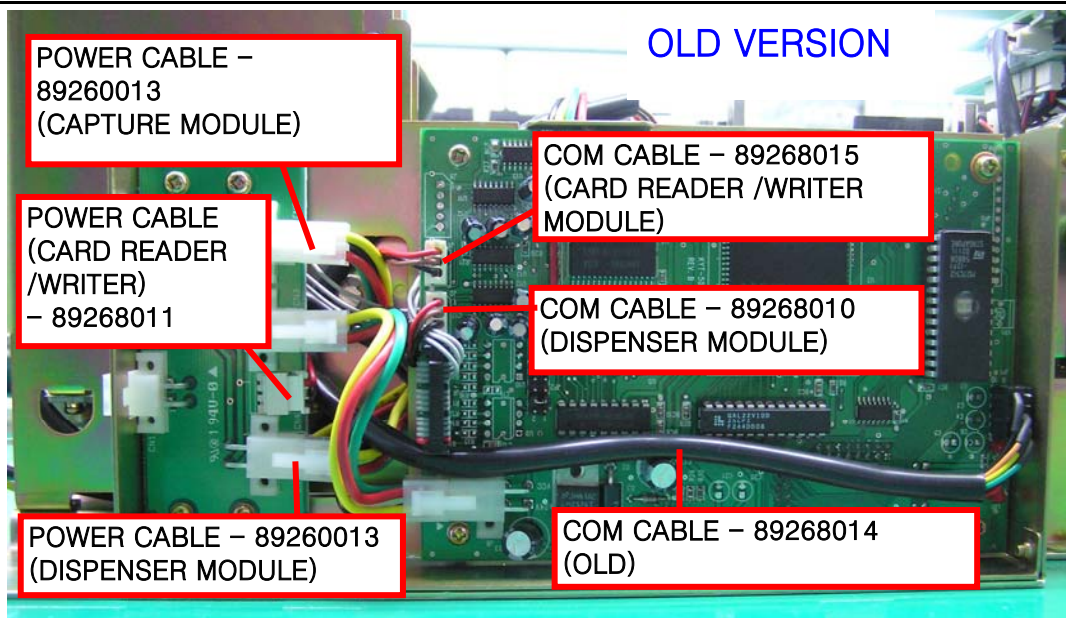
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69030014	A	BOARD COVER	1
2	60917060		SCREW M3*6 PH FZY (SAMS)	1

● Sequence

1. Unscrew SCREW ② With the tool.
And disassemble BOARD COVER ①.

TOOL	+ SCREW DRIVER
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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y CABLE connection position	



NO	PART NO	REV	PATR NAME / SPEC	Q'TY
	89260013		ASS'Y POWER CABLE (CAPTURE)	1
	89260013		ASS'Y POWER CABLE (DISPENSER)	1
	89268011		ASS'Y POWER CABLE (CARD READER)	1
	89268015		ASS'Y COM CABLE (CARD READER)	1
	89268010		ASS'Y COM CABLE (DISPENSER)	1
	89268014		ASS'Y COM CABLE (CAPTURE) – OLD	1
	89268019		ASS'Y COM CABLE (CAPTURE) – 6 PIN	1
	89268020		ASS'Y COM CABLE (CAPTURE) – 7 PIN	1

- Sequence
- 1. Disassemble COM and POWER CABLE from PCB'A.

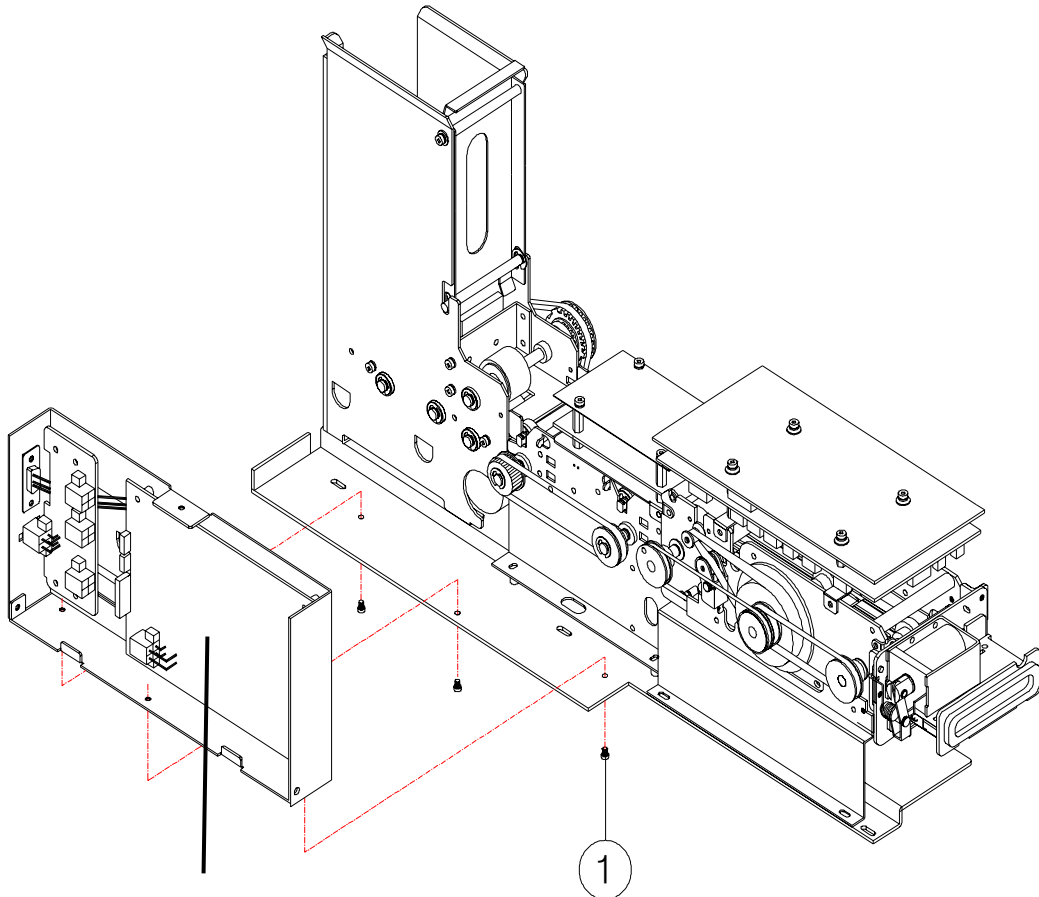
- ※ NOTE
- When inserting the cables, Care about the location to insert.

TOOL	PINCETTE
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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MAIN CONTROL MODULE Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	60417040		SCREW M3*4 FH FZY	3



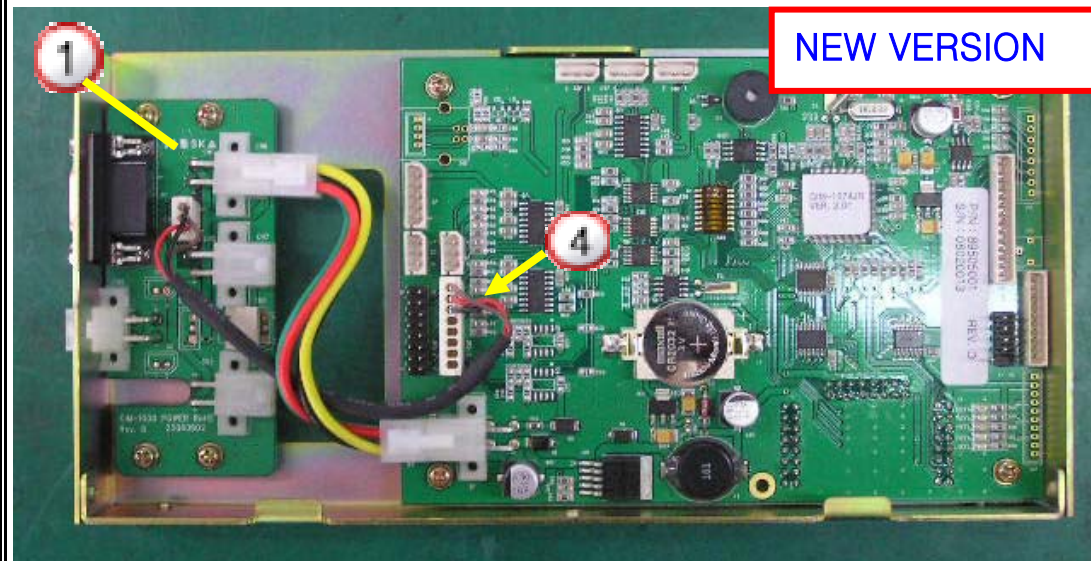
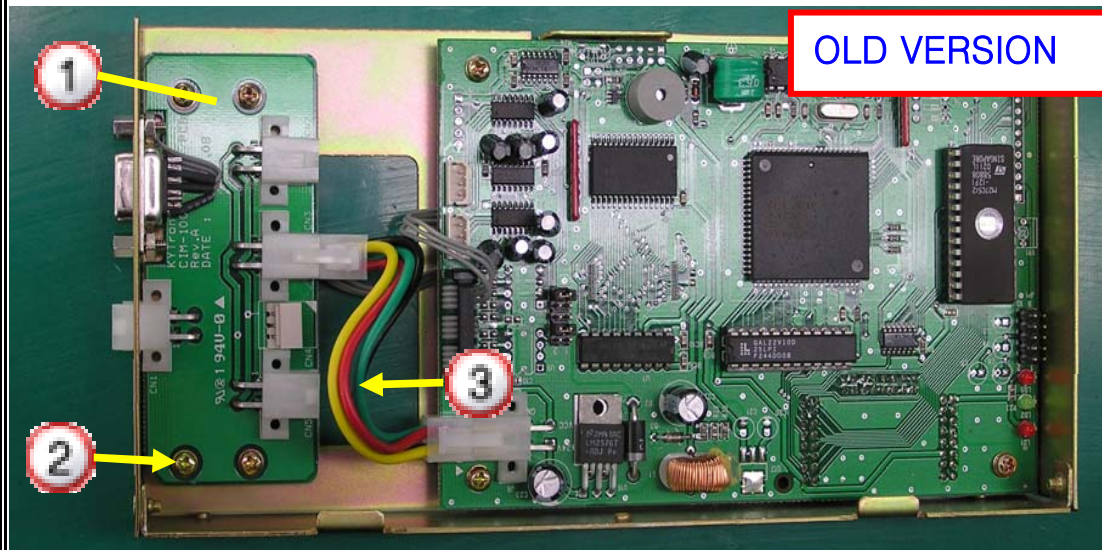
ASS'Y CONTROL BOX

● Sequence

1. Unscrew three SCREW ① with the tool.
And disassemble ASS'Y CONTROL BOX as picture.

TOOL	+ SCREW DRIVER
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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y POWER PCB Disassembly	



NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	89280218	A	ASS'Y POWER PCB (OLD VERSION)	1
	89280219	A	ASS'Y POWER PCB (NEW VERSION)	
2	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	4
3	89268012		ASS'Y POWER CABLE (100 mm)	1
4	89268016		ASS'Y COM CABLE	1

● Sequence

1. Disassemble ASS'Y POWER CABLE ③.
2. Unscrew SCREW ② with the tool.
And disassemble ASS'Y POWER PCB ①
3. Disassemble ASS'Y COM CABLE ④

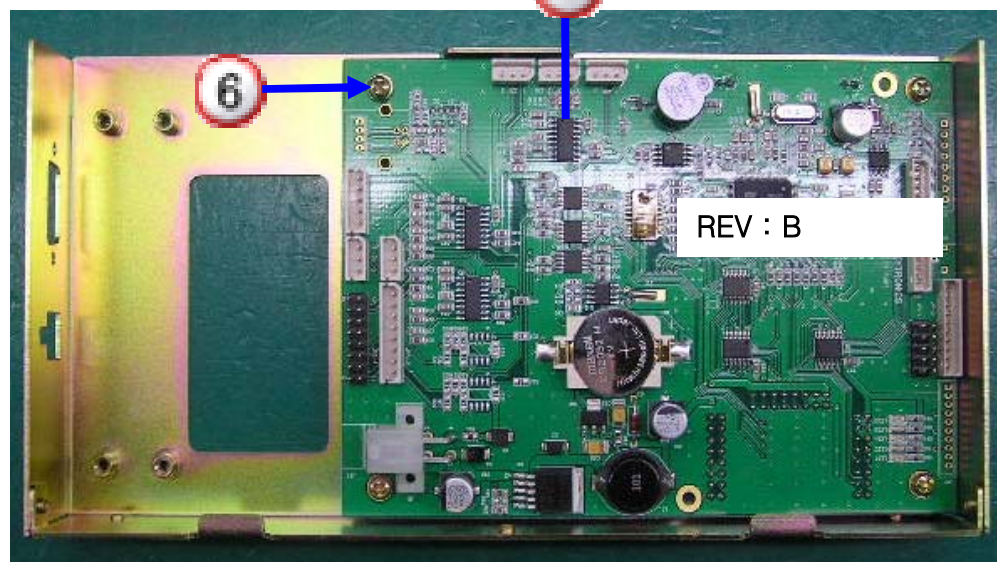
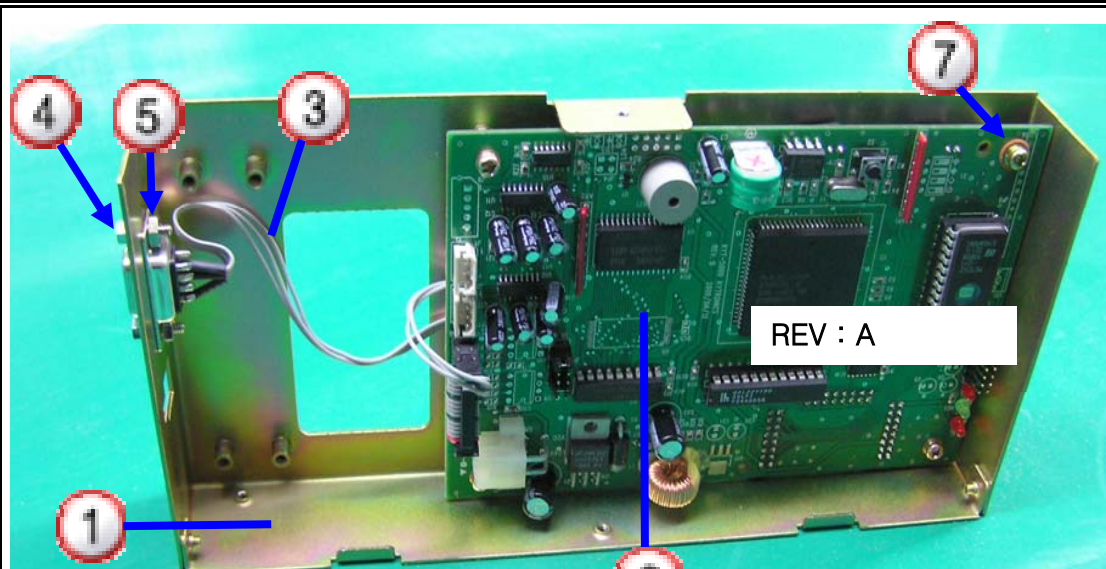
※ NOTE

- Be careful that part number is different between old version and new version.

TOOL

+ SCREW DRIVER , PINCETTE

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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MAIN PCB Disassembly	



NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69030013	A	BOARD CASE	1
2	89521602	A	ASS'Y MAIN PCB	1
		B	ASS'Y MAIN PCB	
3	89265401		ASS'Y HANESS (FLAT CABLE-500mm)	1
4	72330010		POST NUT (UNC 4-40)	2
5	64002030		NUT (UNC 4-40)	2
6	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	4
7	63521710		PAPER WASHER	1

- Sequence
1. Unscrew POST NUT ④ And NUT ⑤ with the tool.
 2. Disassemble ASS'Y HANESS (FLAT CABLE) ③ from ASS'Y MAIN PCB ②
 3. Unscrew four SCREW ⑥ and disassemble ASS'Y MAIN PCB ② from BOARD CASE ①

※ NOTE

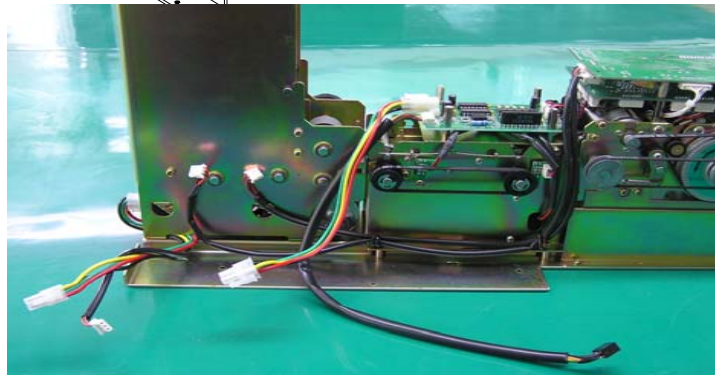
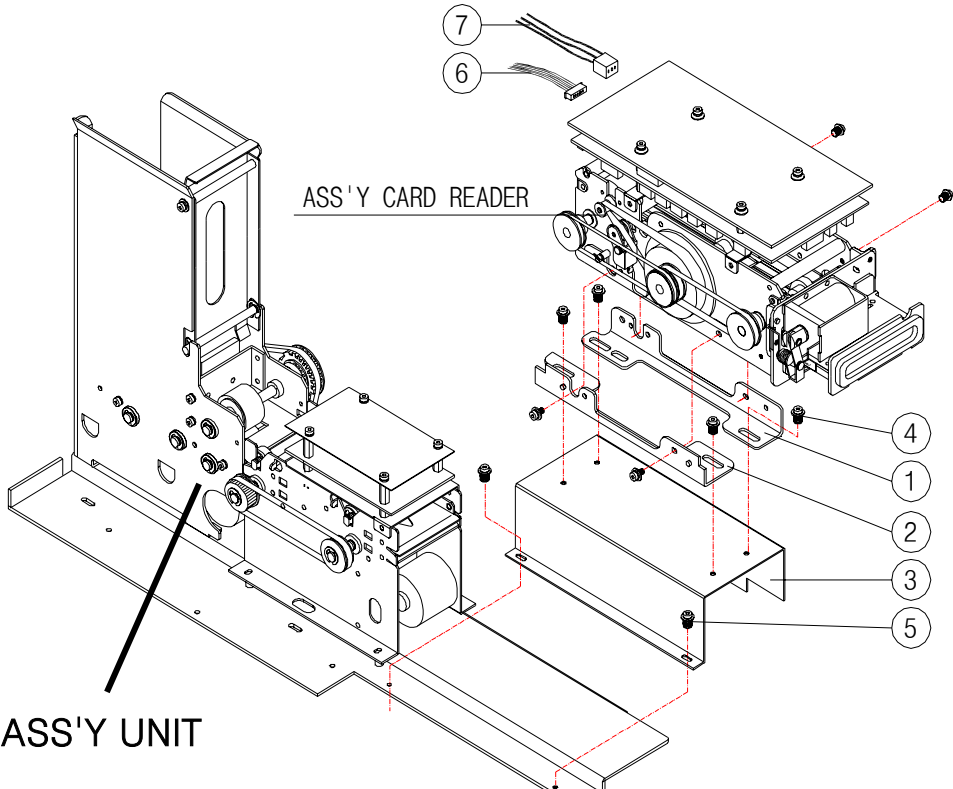
- When assembling ASS'Y MAIN PCB revision "A", assemble with PAPER WASHER ⑦ as the picture.
- ASS'Y MAIN PCB revision A is used for MODEL revision A ~ H.
- ASS'Y MAIN PCB revision B is used for MODEL revision I ~ .

TOOL

+ SCREW DRIVER , 5mm HEX NUT DRIVER

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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y CARD READER/WRITER MODULE Disassembly
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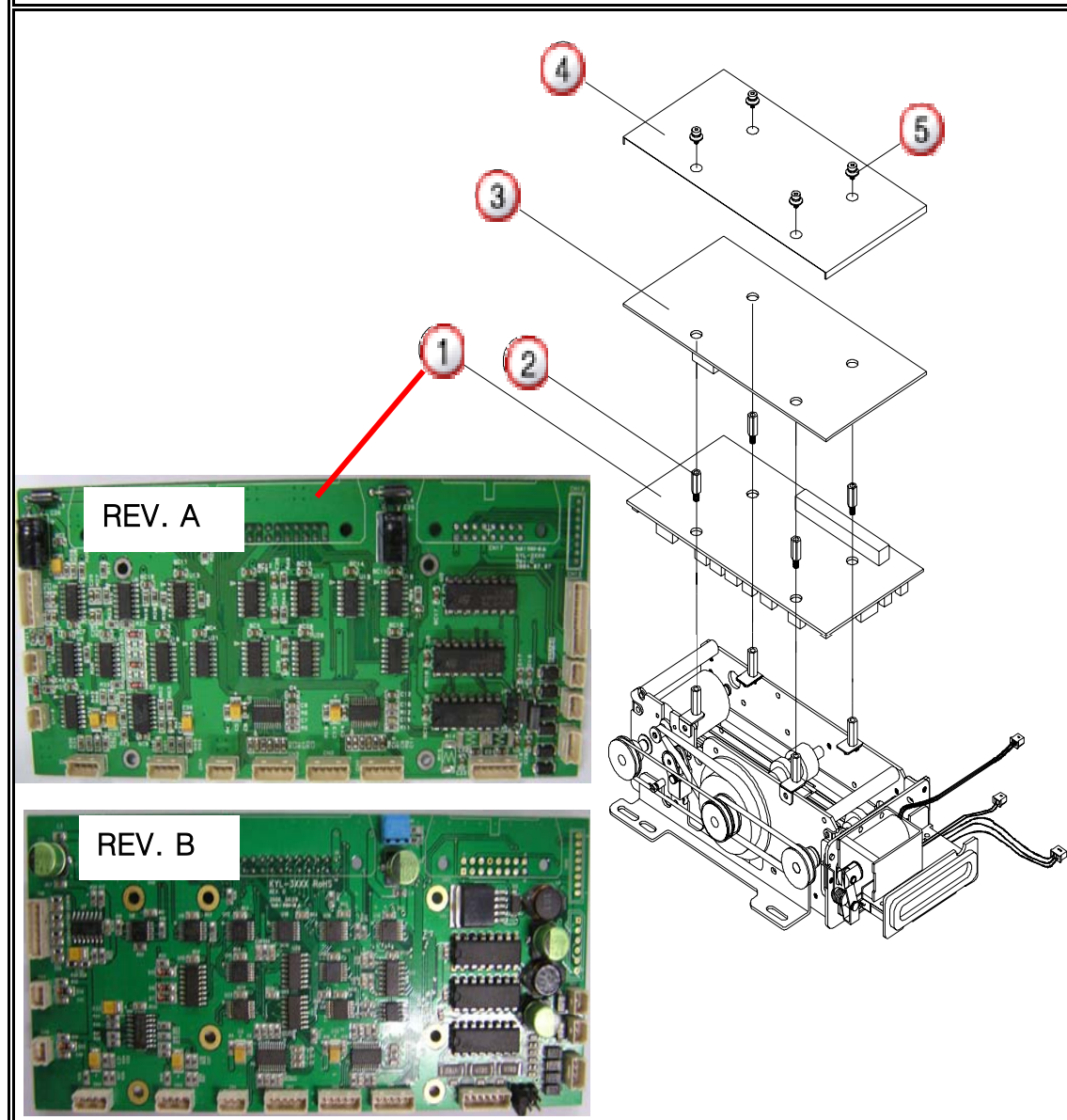
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69030005	A	MOUNTER - B	1
2	69030004	A	MOUNTER - A	1
3	70000044	A	BASE MSRW	1
4	60917060		SCREW M3*6 PH FZY (SAMS)	8
5	60117030		SCREW M3*3 FZY	4
6	89260019		ASS'Y COMM CABLE (3 PIN * 370mm)	1
7	89260017		ASS'Y POWER CABLE (2 PIN * 450mm)	1

- Sequence
- Disassemble cable ⑥⑦ from ASS'Y CARD READER
 - Unscrew SCREW ④ with the tool.
And disassemble ASS'Y CARD READER MODULE.
 - Unscrew SCREW ④.
And disassemble MOUNTER-A ② & MOUNTER-B ①.
 - Unscrew SCREW ⑤ and disassemble BASE MSRW ③ from ASS'Y UNIT

T00L	+ SCREW DRIVER , PINCETTE
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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MAIN PCB & TTL PCB Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	89270218	A	ASS'Y TTL PCB (IDLER TYPE)	1
		B	ASS'Y TTL PCB	
2	72330004		POST NUT M3*12	4
3	89520223	B	ASS'Y MAIN PCB - RS233C	1
4	78930002		PCB COVER	1
5	69017061		SCREW M3*6 PH FNW (SAMS SMALL)	4

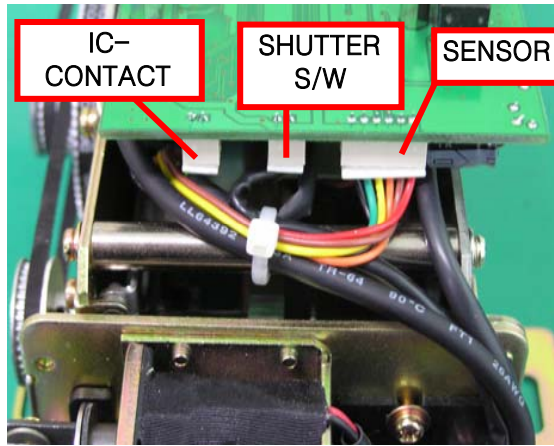
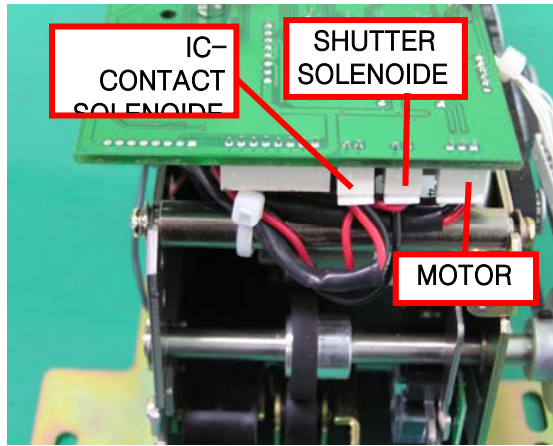
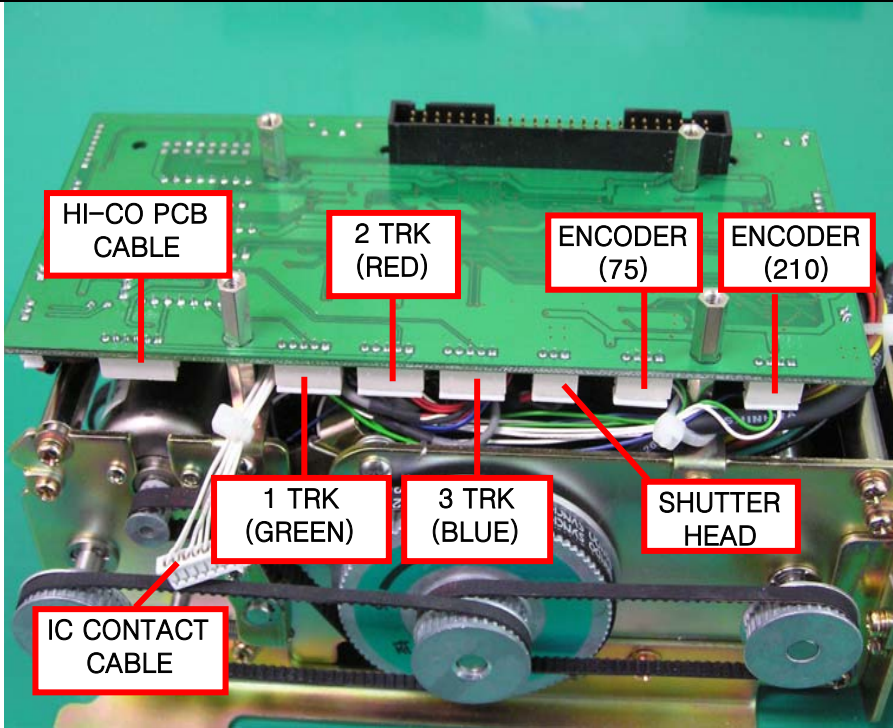
- Sequence
 1. Unscrew SCREW ⑤ with the tool.
And disassemble PCB COVER ④ and ASS'Y MAIN PCB ③.
 2. Unscrew POST NUT ② with the tool.
And disassemble ASS'Y TTL PCB ①.

- ※ NOTE
 - When disassembling CABLES, Be careful not to break the CABLES.
 - If assembled unit is idler type, (See page. 22) apply revision "A" to ASS'Y TTL PCB ①.
And if not idler type, apply revision "B".

TOOL	+ SCREW DRIVER , PINCETTE , NIPPER 5mm HEX NUT DRIVER
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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y CABLE connection position
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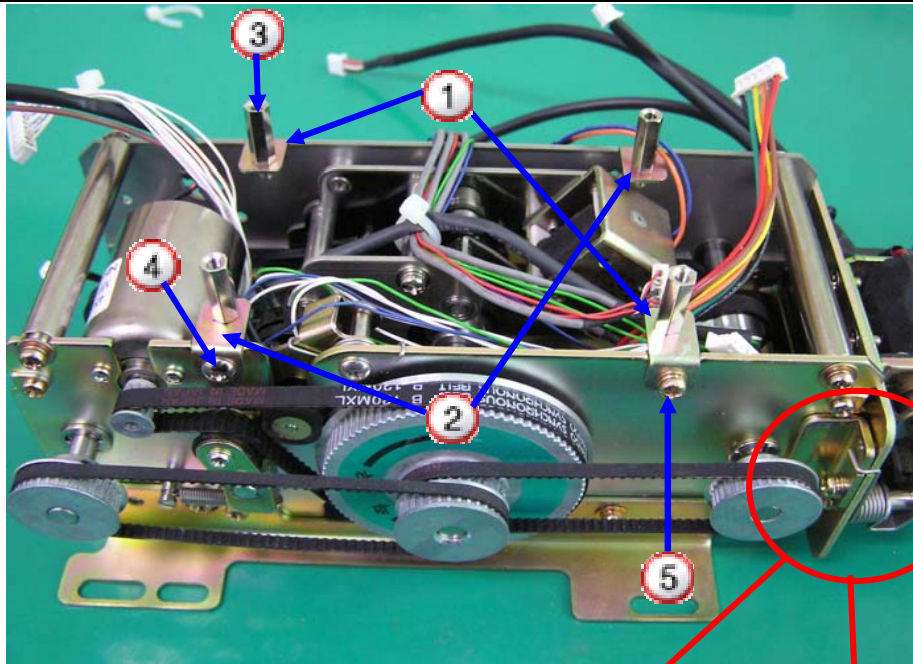
NO	PART NO	REV	PATR NAME / SPEC	Q'TY

※ NOTE
 ● When inserting the cables, Care about the location to insert.

TOOL	PINCETTE
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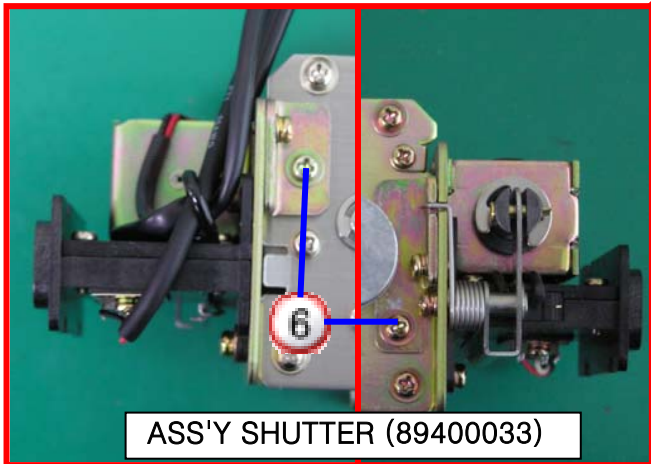
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SHUTTER or ASS'Y BEZEL Disassembly
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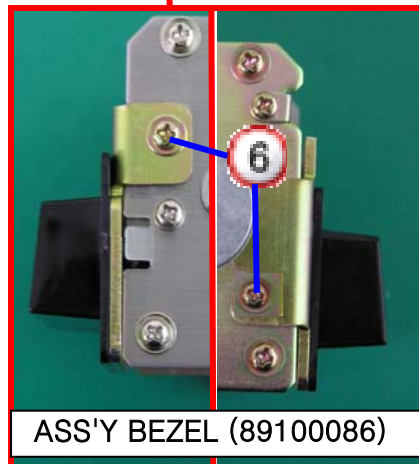
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69030008		PCB MOUNTER-A	2
2	69030009		PCB MOUNTER-B	2
3	72330005		POST NUT M3*15	4
4	60617063		SCREW M3*6 TH FNW	1
5	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	3
6	60917060		SCREW M3*6 PH FZY (SAMS)	2
*	89400033		ASS'Y SHUTTER MODULE	
*	89100086		ASS'Y BEZEL	

● Sequence

1. Unscrew POST NUT ③ and SCREW④⑤ with the tool. And disassemble PCB MOUNTER ①②.
2. Unscrew SCREW ⑥. And disassemble ASS'Y SHUTTER or ASS'Y BEZEL.

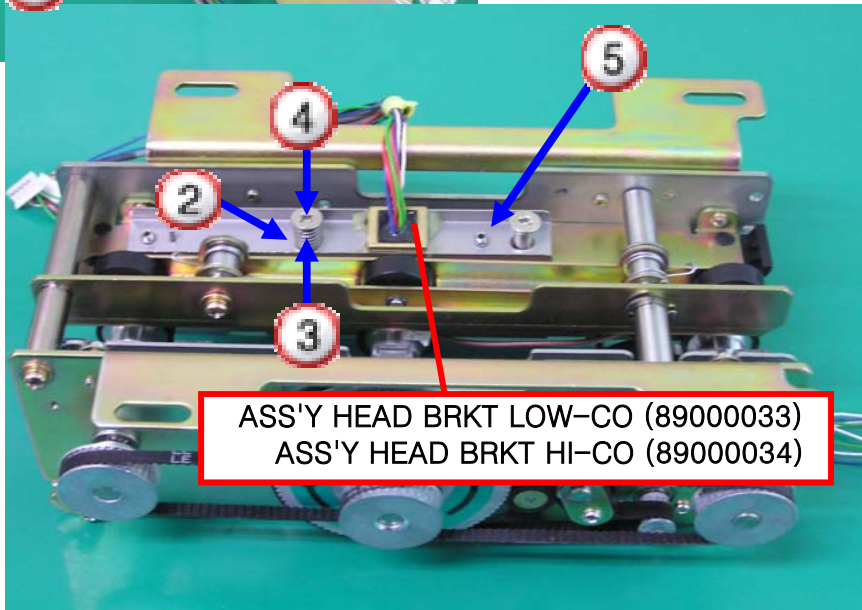
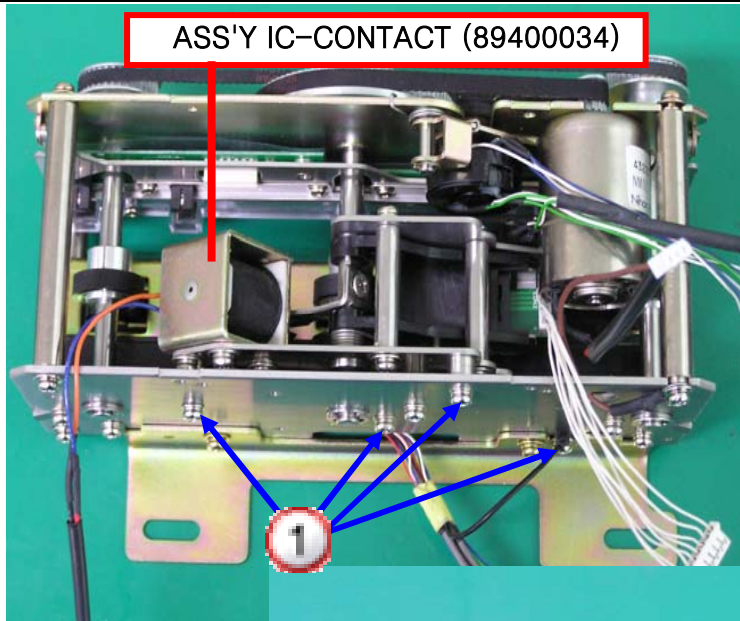


ASS'Y SHUTTER (89400033)



ASS'Y BEZEL (89100086)

TOOL	+ SCREW DRIVER , 5mm HEX NUT DRIVER
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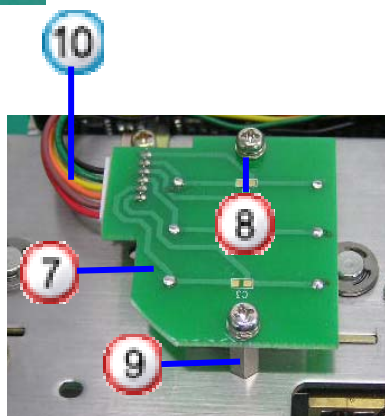
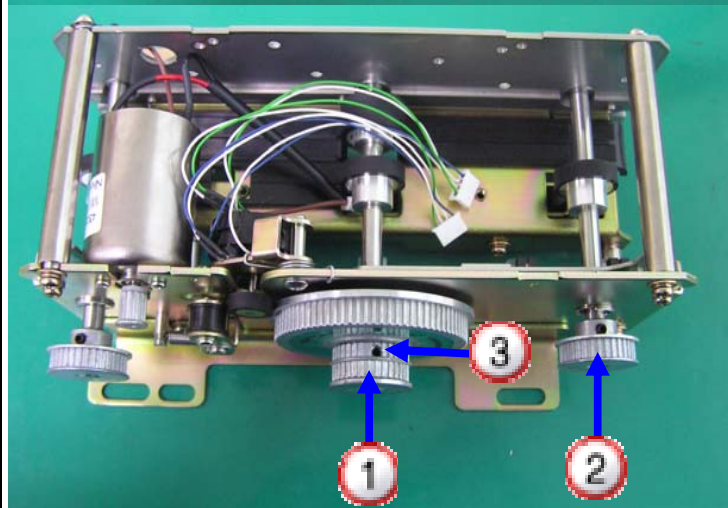
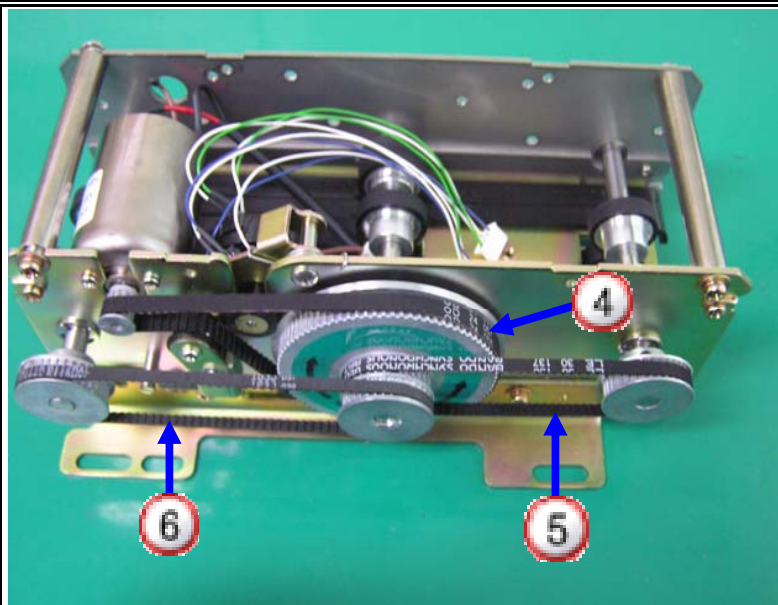
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	60917063		SCREW M3*6 PH FNW (SAMS SMALL)	4
2	63090001		HEAD SCREW WASHER	1
3	76200005		HEAD SPRING	1
4	60910001		HEAD SCREW	1
5	62943069		SET SCREW M3*6 NYLOK	2

- Sequence
- 1. Unscrew SCREW ①. And disassemble ASS'Y IC-CONTACT.
- 2. Unscrew HEAD SCREW ④. And disassemble parts ②③. And then disassemble ASS'Y HEAD.

- ※ NOTE
- When assembling ASS'Y HEAD BRKT, assemble with WASHER ②.

TOOL	+ SCREW DRIVER , 1.5mm WRENCH
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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y HI-CO PCB & BELT & PULLEY Disassembly	



NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	74210009		MAIN PULLEY	1
2	74210008		FEEDING PULLEY	2
3	62911049		SET SCREW M3*4 SUS	1
4	74250016		BELT (120 MXL TIMING BELT)	1
5	74250014		BELT (97 MXL TIMING BELT)	1
6	74250015		BELT (112 MXL TIMING BELT)	1
7	89288011		SUB_RESISTOR PCB'A (HI-CO)	1
8	60917063		SCREW M3*6 PH FNW (SAMS SMALL)	2
9	72330002		POST NUT M3*10	2
10	89263631		ASS'Y HARNESS (SUB RESISTOR CABLE)	1

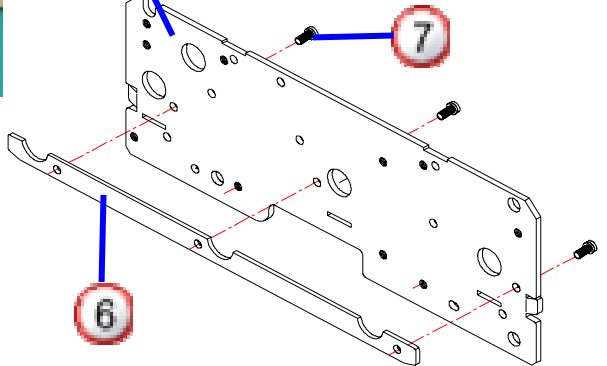
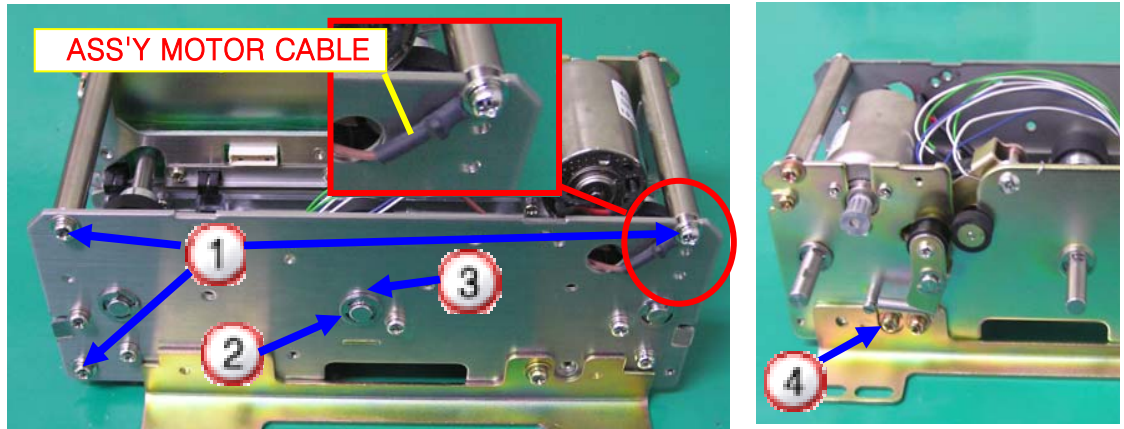
- Sequence
- Strip BELT ⑥⑤④ in order.
 - Unscrew SET SCREW ③ with the hex wrench.
And disassemble MAIN PULLEY ① and FEEDING PULLEY ②.
 - Unscrew SCREW ⑧. And disassemble ASS'Y HI-CO PCB ⑦.
And then disassemble ASS'Y HI-CO CABLE ⑩.

TOOL

+ SCREW DRIVER , 1.5mm WRENCH
5mm HEX NUT DRIVER

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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y CARD BASE NEW Disassembly
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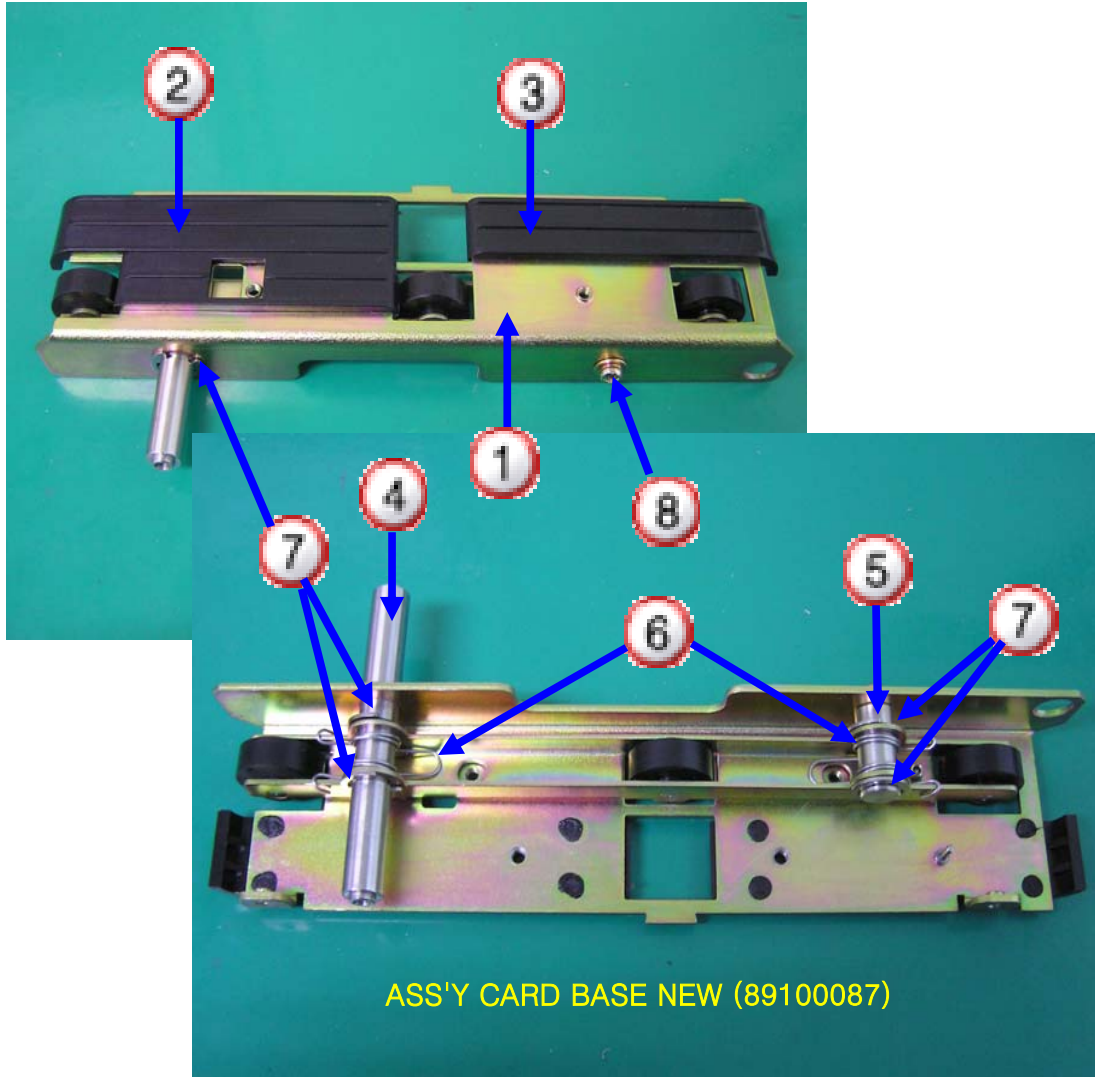
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	60917062		SCREW M3*6 PH FNW (SAMS)	6
2	76210014		E-RING Φ5	6
3	70300004		BALL BEARING (MF 1060)	6
4	60917060		SCREW M3*6 PH FZY (SAMS)	1
5	69010036		FRAME-R (KYX-3000)	1
6	70010020		GUIDE-A	1
7	60917063		SCREW M3*6 PH FNW (SAMS SMALL)	5

- Sequence
 - 1. Remove SCREW ①④ and E-RING ②. And disassemble BEARING ③. And then disassemble ASS'Y FRAME-L and ASS'Y FRAME-R.
 - 2. Unscrew SCREW ⑦ from separate ASS'Y FRAME-R. And disassemble ASS'Y CARD BASE NEW.
- ※ NOTE
- When assembling SCREW ①, assemble with ASS'Y MOTOR CABLE as the picture.

TOOL	+ SCREW DRIVER , PINCETTE Φ5 E-RING TOOL ,
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PART (IV)	PARTS REPLACEMENT	PROCESS	AS'Y CARD BASE NEW Disassembly
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ASS'Y CARD BASE NEW (89100087)

NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70000031	C	CARD BASE BRKT	1
2	70010019	A	CARD BASE-B	1
3	70010018	A	CARD BASE-A	1
4	70220039	A	SPACER-C	1
5	70220044	A	IDLER BRKT PIN	1
6	76200023		IDLER BRKT SPRING	2
7	76210015		E-RING Φ6	5
8	60917060		SCREW M3*6 PH FZY (SAMS)	1

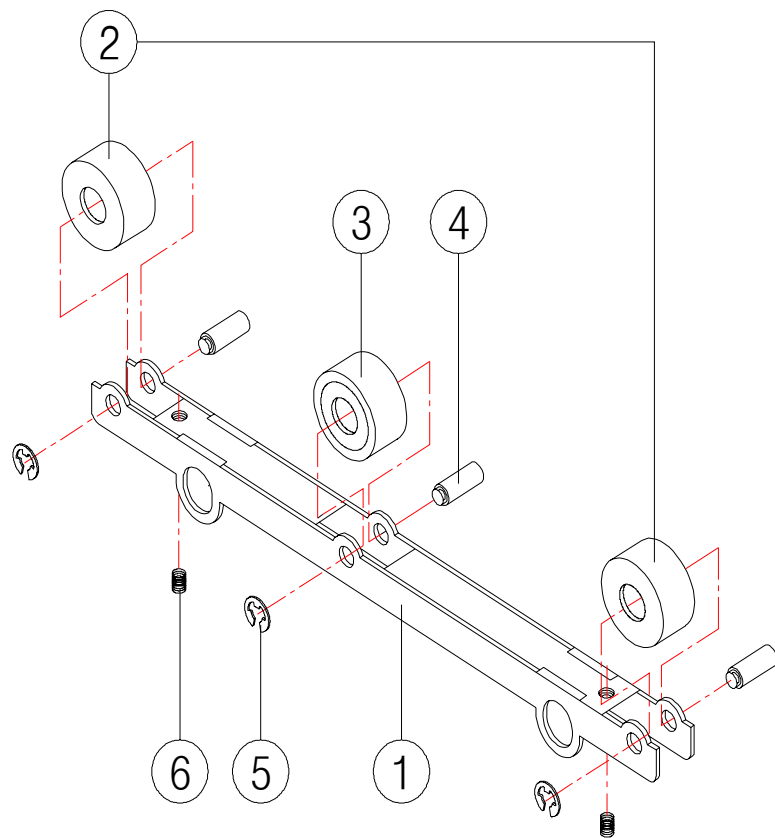
- Sequence
- 1. Unscrew SCREW ⑧ and E-RING ⑦.
And disassemble IDLER BRKT PIN ⑤ and SPACER-C ④.
And then disassemble SPRING ⑥ from CARD BASE BRKT ①.

- ※ NOTE
- Be sure not to disassemble CARD BASE-B ② and CARD BASE-A ③.

T00L	+ SCREW DRIVER , PINCETTE Φ6 E-RING TOOL ,
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	20 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y IDLER BRKT Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70000032	B	IDLER BRKT	1
2	74120025	A	IDLER ROLLER	2
3	74120022	B	IDLER ROLLER PH2	1
4	70230033	A	IDLER ROLLER PIN	3
5	76210012		E-RING Φ3	3
6	62943069		SET SCREW M3*6 NYLOK	2

- Sequence
- 1. Remove E-RING ⑤ with the tool.
And disassemble ROLLER ②③ and IDLER ROLLER PIN ④ from IDLER BRKT ①.

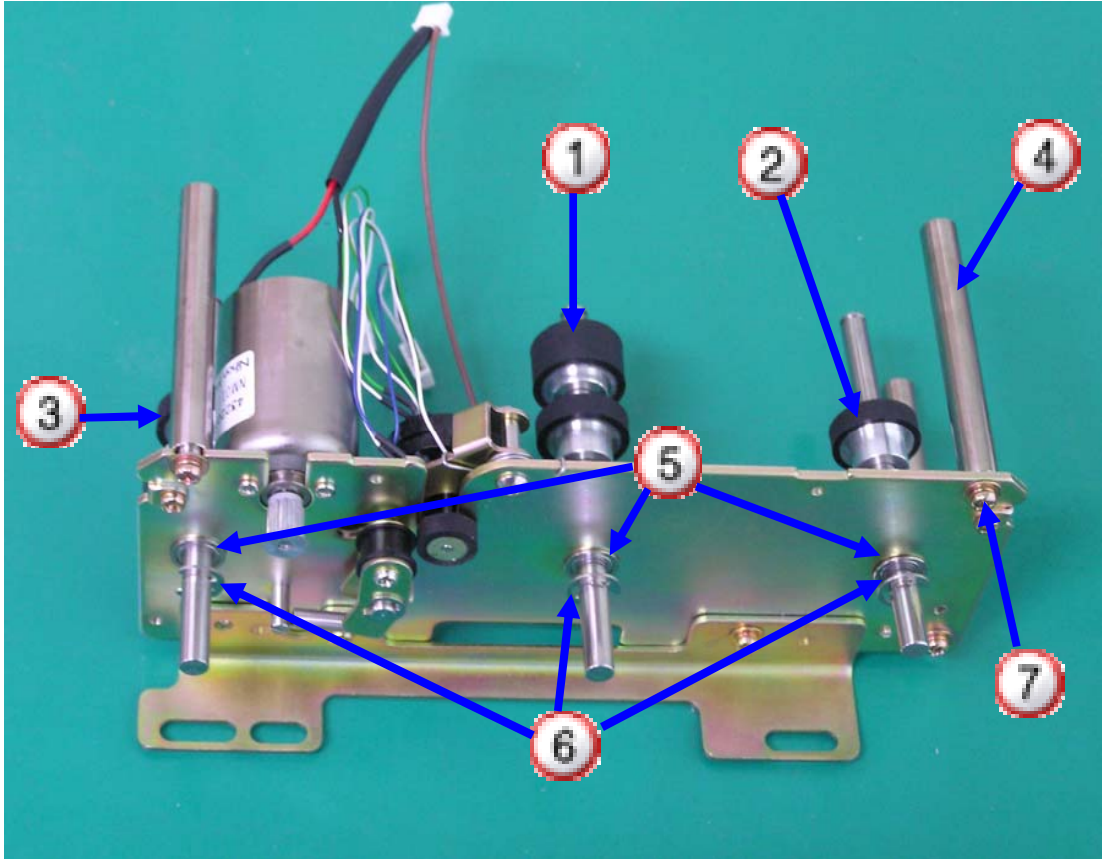
※ NOTE

- When assembling ROLLER ②③, be careful not to mix up between IDLER ROLLER ② and IDLER ROLLER PH2 ③.

TOOL	1.5mm WRENCH DRIVER , PINCETTE Φ3 E-RING TOOL ,
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	21 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SHAFT A,B,C Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	89100079		ASS'Y SHAFT-C	1
2	89100078		ASS'Y SHAFT-B	2
3	89100077		ASS'Y SHAFT-A	1
4	70220037	A	SPACER-A	3
5	70300004		BALL BEARING (MF1060ZZ)	3
6	76210014		E-RING $\Phi 5$	2
7	60917060		SCREW M3*6 PH FZY (SAMS)	

● Sequence

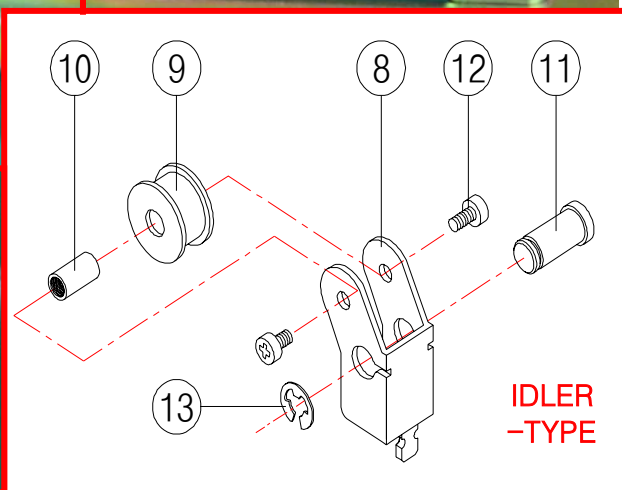
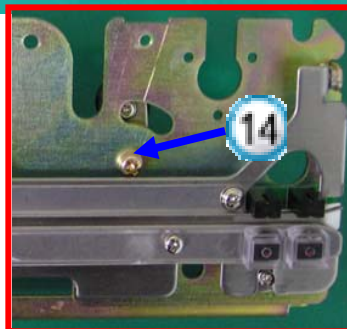
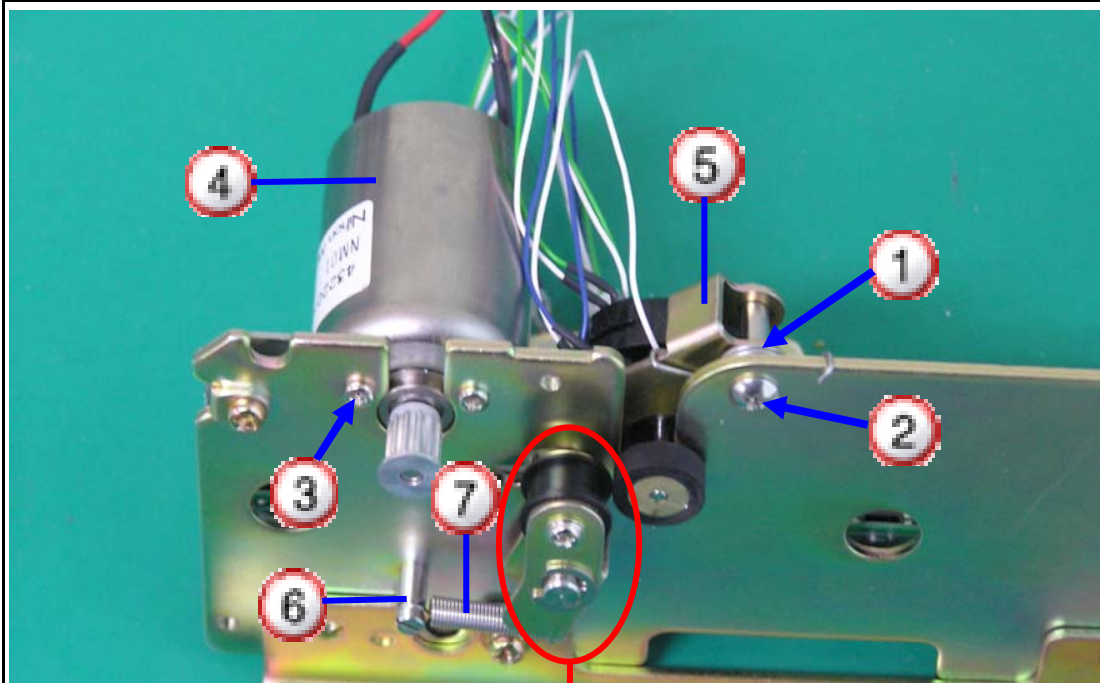
1. Remove E-RING ⑥. And disassemble BEARING ⑤.
And disassemble ASS'Y SHAFT ①②③.
And then IDLER ROLLER PIN ④.
2. Unscrew SCREW ⑦. And disassemble SPACER-A ④.

※ NOTE

- When assembling ASS'Y SHAFT-B ② and ASS'Y SHAFT-C ③, be careful not to mix up.

T00L	+ SCREW DRIVER , PINCETTE $\Phi 5$ E-RING TOOL
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	22 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MOTOR & ASS'Y ENCODER Disassembly	



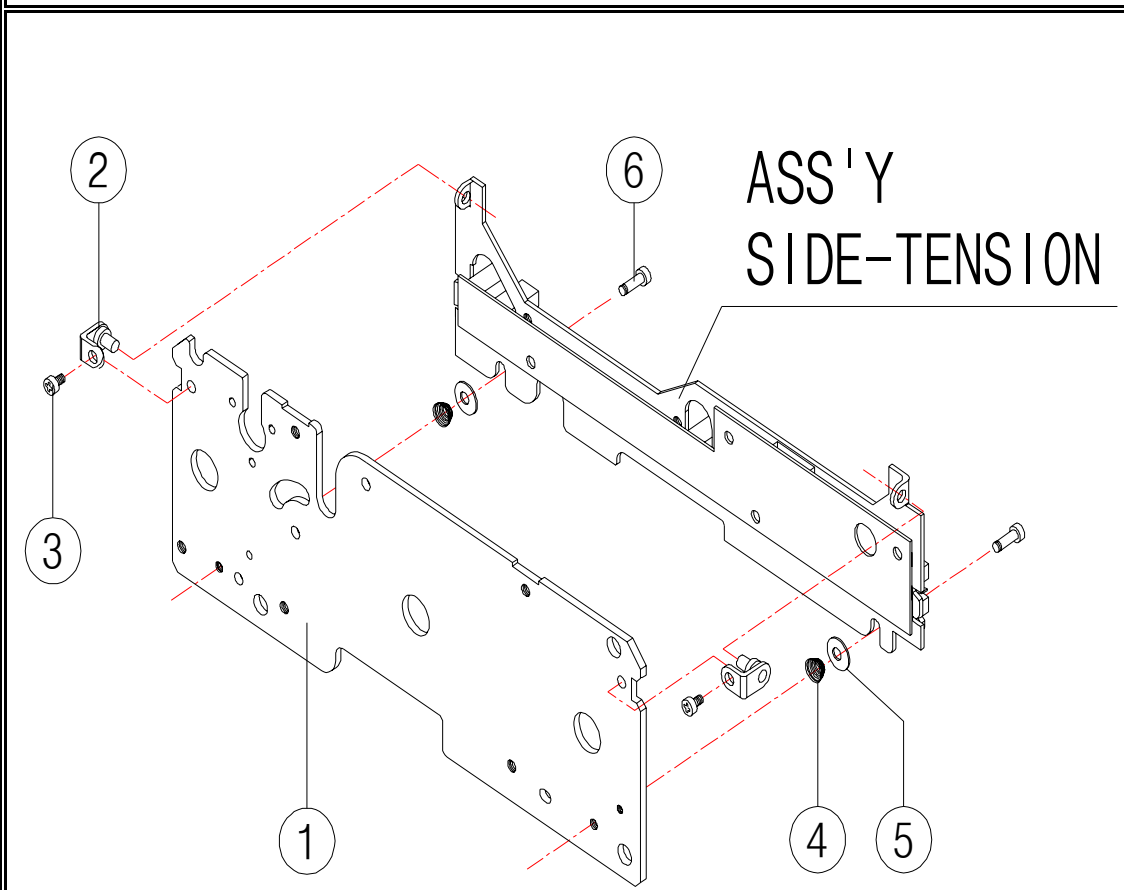
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	76200020		ENCODER SPRING	1
2	60617063		SCREW M3*6 TH FNW	1
3	60112060		SCREW M2*4 PH FNW	3
4	89400027		ASS'Y MOTOR (12 MXL PULLEY)	1
	89420012		ASS'Y MOTOR (15 MXL PULLEY)	
5	89400030		ASS'Y ENCODER	1
6	70230028		SPRING PIN	1
7	76200019		IDLER SPRING	1
8	70000036		IDLER HINGE	1
9	74120026		IDLER	1
10	70230030		IDLER PIN	1
11	70230027		IDLER HINGE PIN	1
12	60916033		SCREW M2.6*3.3 FNW	2
13	76210013		E-RING $\Phi 4$	1
14	60917060		SCREW M3*6 PH FZY (SAMS)	1

- Sequence
- 1. Unscrew SCREW ②. And disassemble ENCODER SPRING ① and ASS'Y ENCODER ⑤.
- 2. Unscrew SCREW ③. And disassemble ASS'Y MOTOR ④.
- 3. Disassemble IDLER SPRING ⑦. And Unscrew SCREW ⑭.
- 4. Remove E-RING ⑬. And disassemble PIN ⑪ as enlarged picture.
- 5. Unscrew SCREW ⑫. And IDLER HINGE ⑧. And disassemble IDLER ⑨ and IDLER PIN ⑩ in IDLER ⑨.
- ※ NOTE
- When assembling ASS'Y MOTOR ④, if it is idler type, use 89400027 (12 MXL) as the left picture. And if not idler type, use 89420012 (15 MXL).

TOOL	+ , - SCREW DRIVER , PINCETTE $\Phi 4$ E-RING TOOL
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	23 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SIDE TENSION Disassembly
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ASS'Y SIDE-TENSION

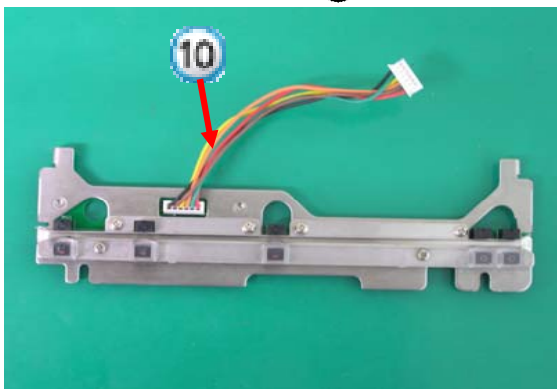
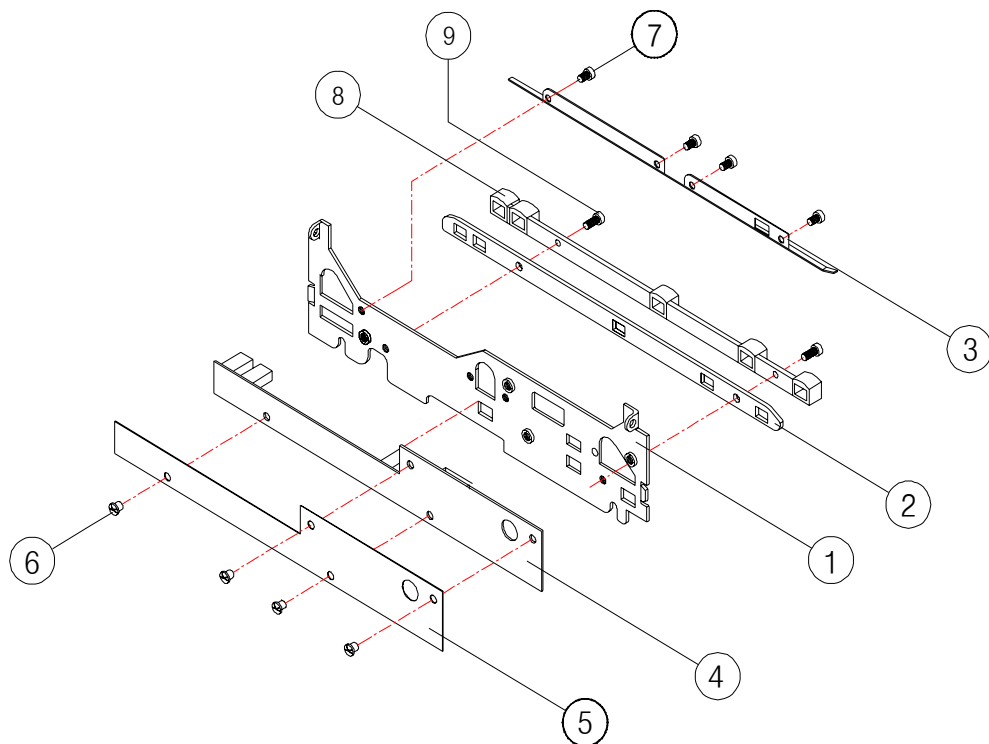
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69010037	B	FRAME-L	1
2	69030007	A	SLIDE MOUNTER	2
3	60117030		SCREW M3*3 PH FZY	2
4	76200012	A	HEAD SPRING	2
5	63021710		PLATE WASHER $\phi 3$ FZY	2
6	70230031		SIDE TENSION PIN	2

- Sequence
- 1. Remove SCREW ③ and SIDE TENSION PIN ⑥.
And disassemble SLIDE MOUNTER ② and ASS'Y SIDE TENSION from FRAME-L ①.

- ※ NOTE
- When disassembling, be careful not to lost SPRING ④ and WASHER ⑤.
- When assembling, check if moving of ASS'Y SIDE TENSION is normal after assembling completely.
(Check the TENSION of the SPRING)

TOOL	+ , - SCREW DRIVER , PINCETTE
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	24 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SENSOR PCB & ASS'Y SIDE TENSION Disassembly	



NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70000034	B	SIDE TENSION NEW	1
2	70010021	A	GUIDE-B	1
3	70010022	A	GUIDE-C	1
4	89280226		SENSOR PCB'A	1
5	78930003		SENSOR PCB COVER	1
6	60927063		SCREW CONTACT M3*4 PH FNW	4
7	60916033		SCREW M2.6*3.3 FNW	4
8	67020001		SENSOR COVER	1
9	60816063		SCREW M2.6*6 BH FNW	2
10	89263621		ASS'Y SENSOR CABLE (6P / 150mm)	1

● Sequence

1. Disassemble ASS'Y SENSOR CABLE ⑩.
2. Unscrew SCREW ⑨. And disassemble GUIDE-B ② and SENSOR COVER ⑧ from SIDE TENSION NEW ①.
3. Unscrew SCREW ⑦. And disassemble GUIDE-C ③.
4. Unscrew SCREW ⑥. And disassemble SENSOR PCB COVER ⑤ and SENSOR PCB'A ④.

※ NOTE

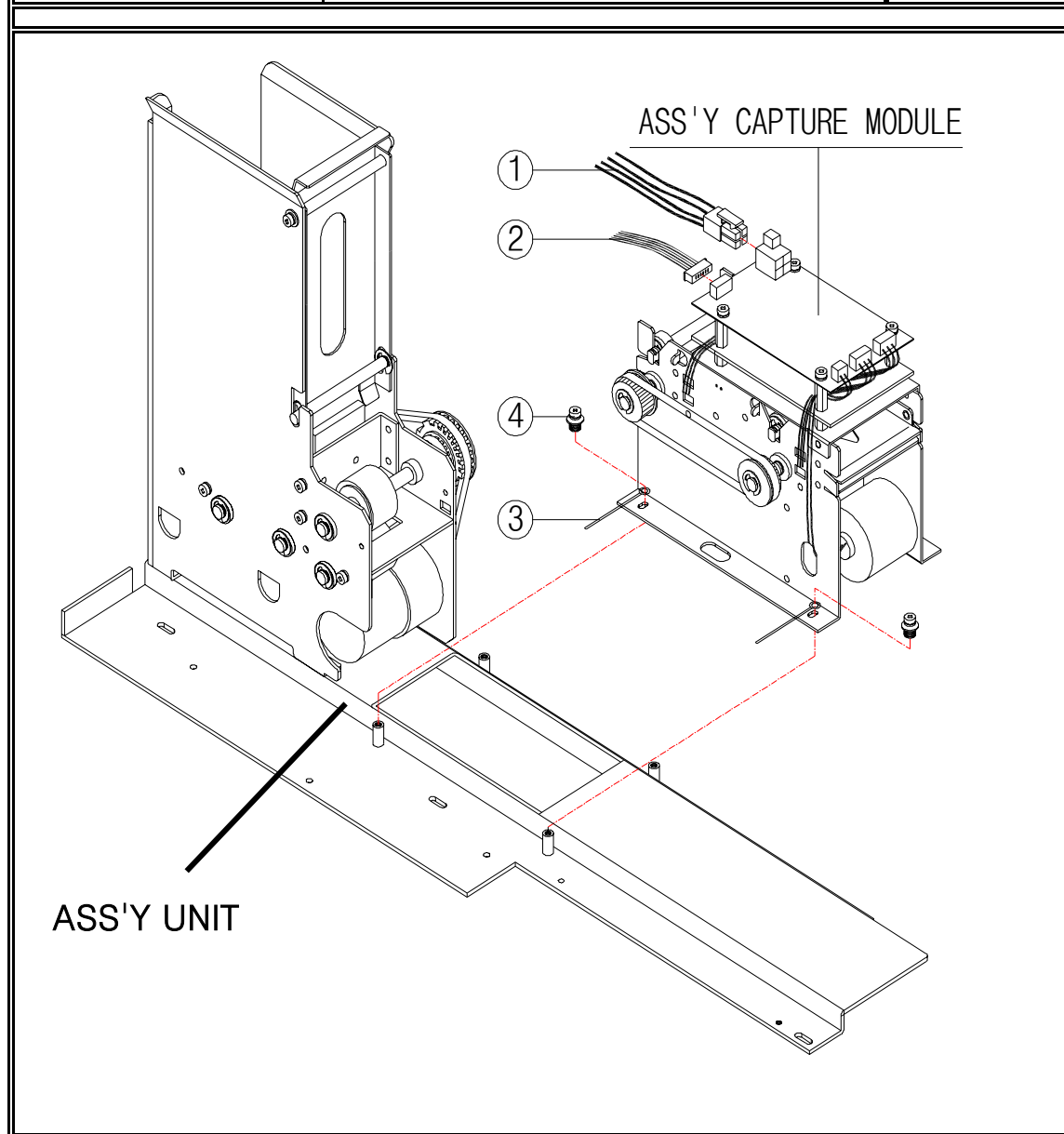
- When assembling SENSOR PCB'A ④, assemble with SENSOR PCB COVER ⑤.

TOOL

+ SCREW DRIVER , PINCETTE

DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	25 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y CAPTURE MODULE Disassembly
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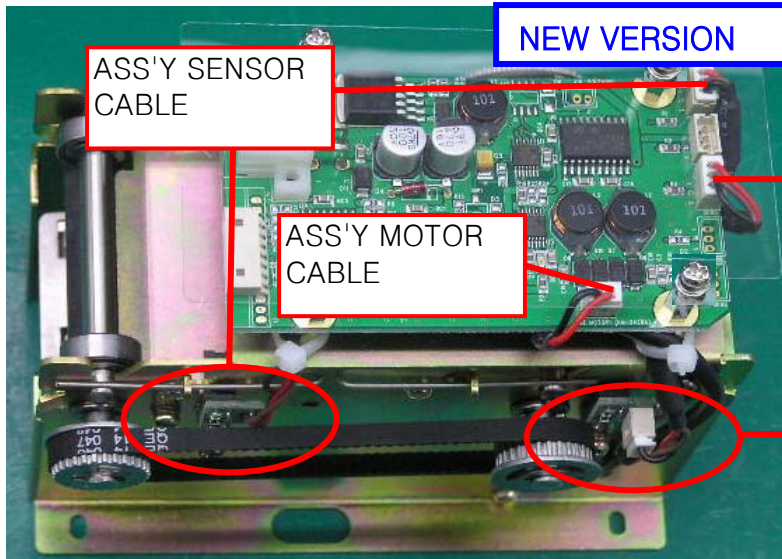
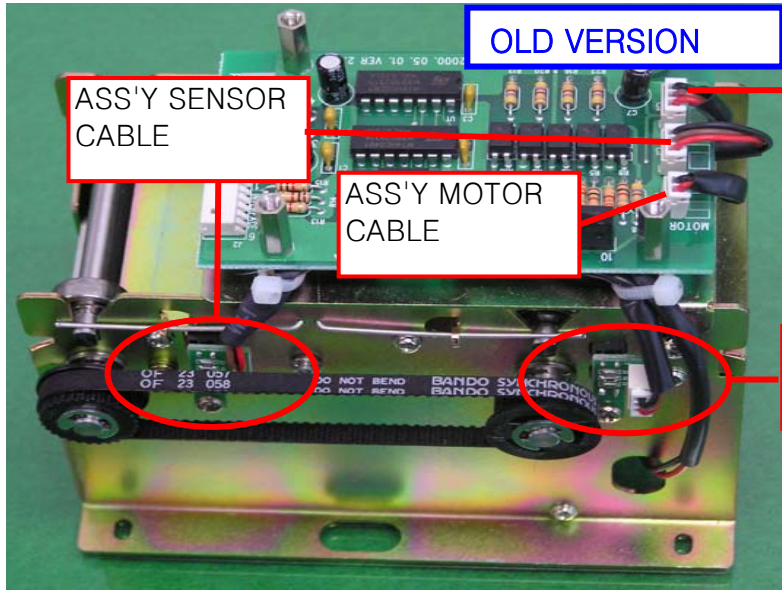
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	89260013		ASS'Y POWER CABLE (220 MM)	1
2	89268014		ASS'Y COM CABLE (CAPTURE) - OLD	1
	89268019		ASS'Y COM CABLE (CAPTURE) - 6 PIN	
	89268020		ASS'Y COM CABLE (CAPTURE) - 7 PIN	
3	03900002		RETAINER COIL	2
4	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	4

- Sequence
 - 1. Disassemble cable ①② from ASS'Y CAPTURE MODULE
 - 2. Unscrew SCREW ④ with the tool.
And disassemble ASS'Y CAPTURE MODULE from ASS'Y UNIT
- ※ NOTE
- When assembling ASS'Y COM CABLE ②, if there is any problem, refer to page 27.

TOOL	+ SCREW DRIVER , PINCETTE
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	26 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y CABLE connection position
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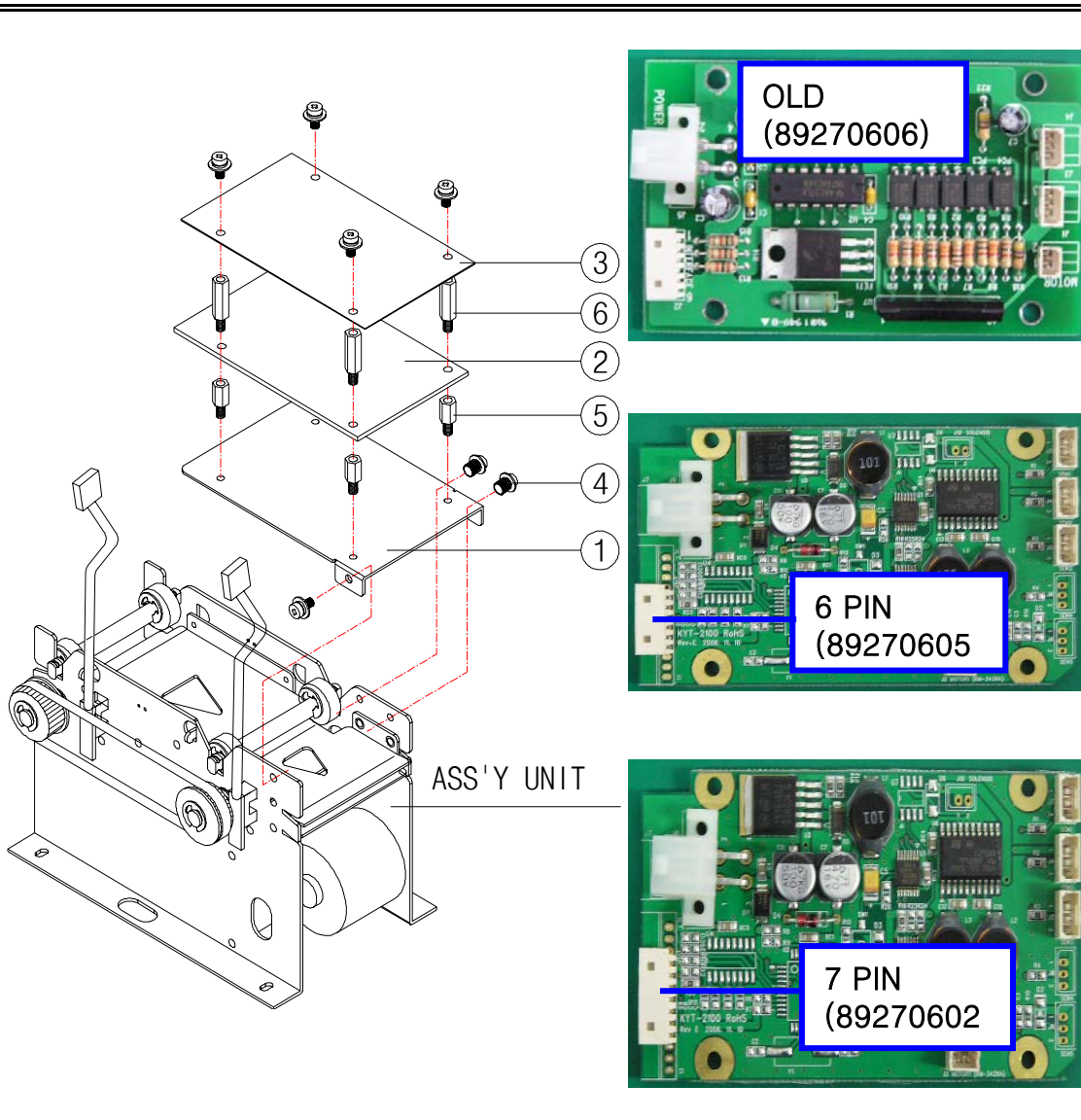


NO	PART NO	REV	PATR NAME / SPEC	Q'TY

※ NOTE
 ● When inserting the cables, Care about the location to insert.

TOOL	
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	27 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MAIN PCB & PCB BRKT Disassembly	

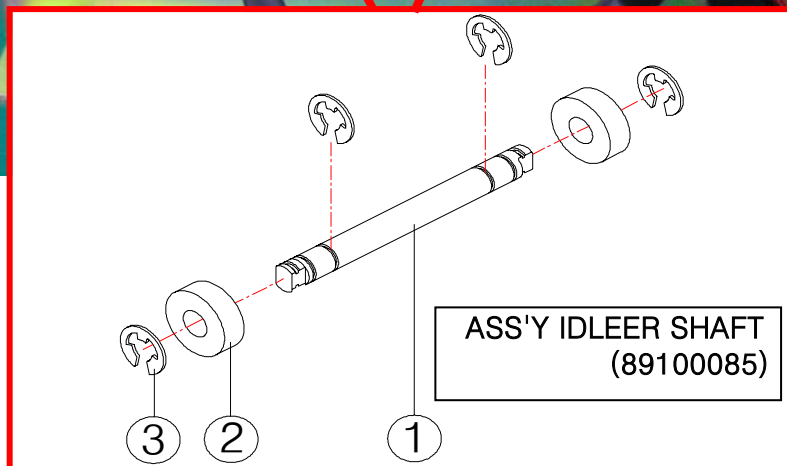
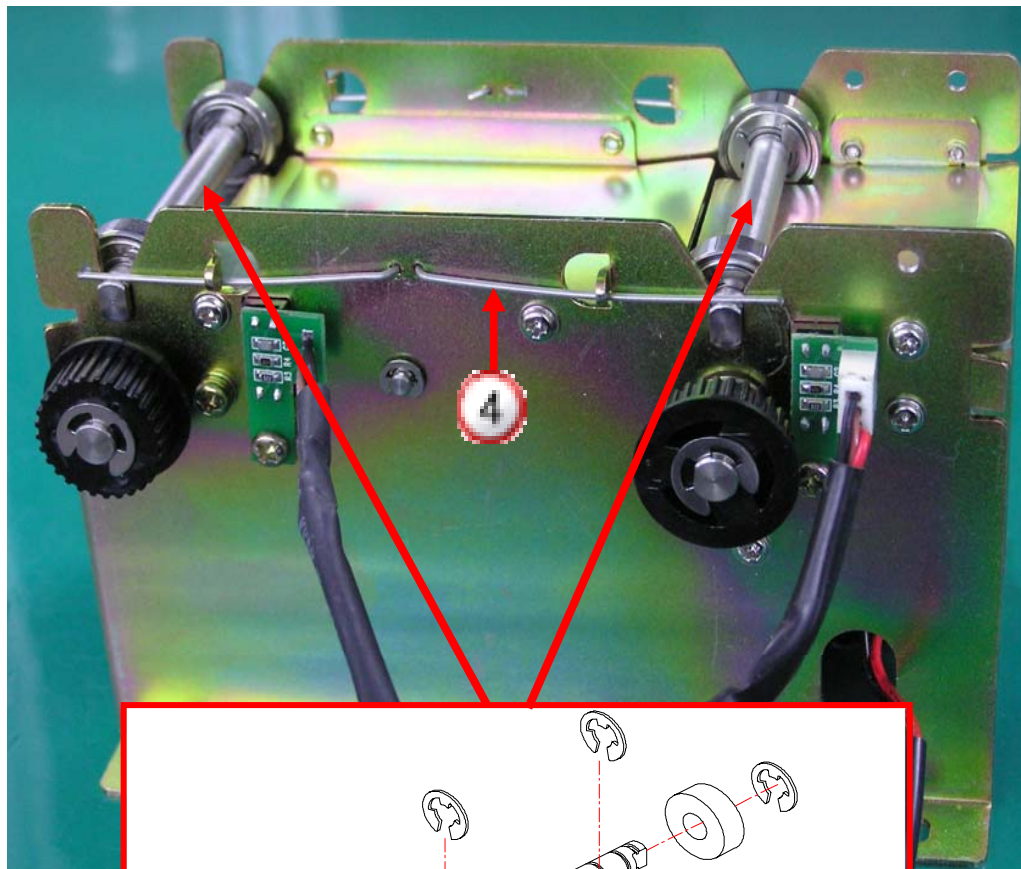


NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	72300008	A	PCB BRKT	1
2	89270606	A	ASS'Y MAIN PCB (OLD)	1
	89270605	B	ASS'Y MAIN PCB (COMM 6 PIN)	
	89270602	A	ASS'Y MAIN PCB (COMM 7 PIN)	
3	78930001	A	INSULATION SHEET	1
4	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	7
5	72330003		POST-NUT M3*8	4
6	72330005		POST-NUT M3*15	4

- Sequence
 1. Unscrew SCREW ④ and disassemble INSULATION SHEET ③.
 2. Disassemble SENSOR CABLE & MOTOR CABLE from ASS'Y MAIN PCB ②.
 3. Unscrew POST NUT ⑥ with the tool. And disassemble ASS'Y MAIN PCB ②.
 4. Unscrew three SCREW ④ and disassemble PCB BRKT ① from ASS'Y UNIT.
- ※ NOTE
 - When replacing ASS'Y MAIN PCB ②, also replace connected COM cable(refer to page 25).

TOOL	+ SCREW DRIVER , 5mm HEX NUT DRIVER PINCETTE
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	28 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y IDLER SHAFT Disassembly	



NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70220042		IDLER SHAFT	2
2	70300009		BALL BEARING (MR696ZZ)	4
3	76210014		E-RING $\Phi 5$	8
4	76200025		PIN SPRING	4

- Sequence
- 1. Disassemble PIN SPRING ④ with the tool from ASS'Y CAPTURE MODULE
- 2. Remove E-RING ③. And disassemble BALL BEARING ② from IDLER SHAFT ①.

※ NOTE

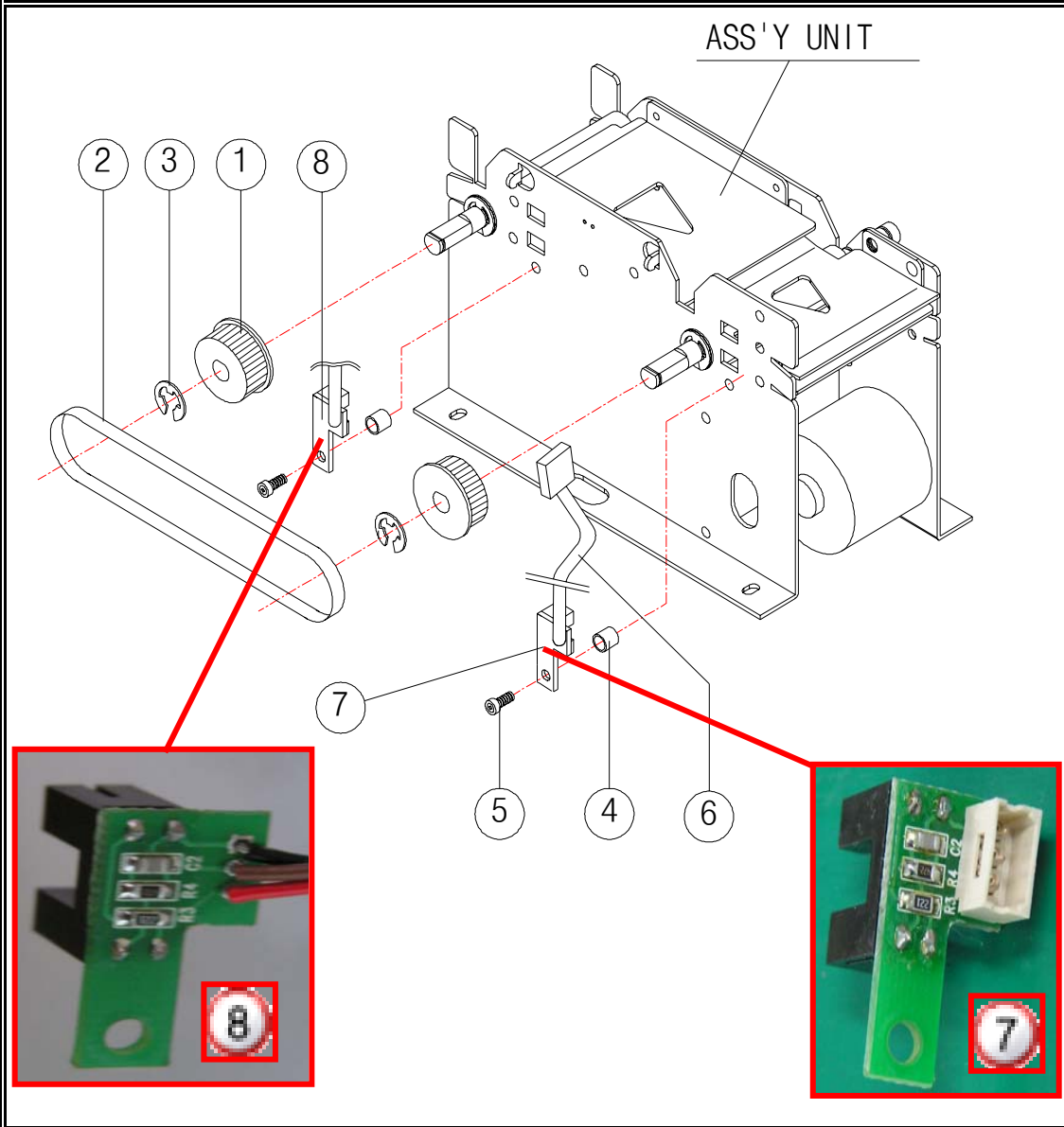
- When assembling ASS'Y IDLER SHAFT, check if BALL BEARING is rotated smoothly.

TOOL

PINCETTE , NIPPER
 $\Phi 5$ E-RING TOOL

DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	29 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	BELT & PULLEY & ASS'Y SENSOR PCB Disassembly
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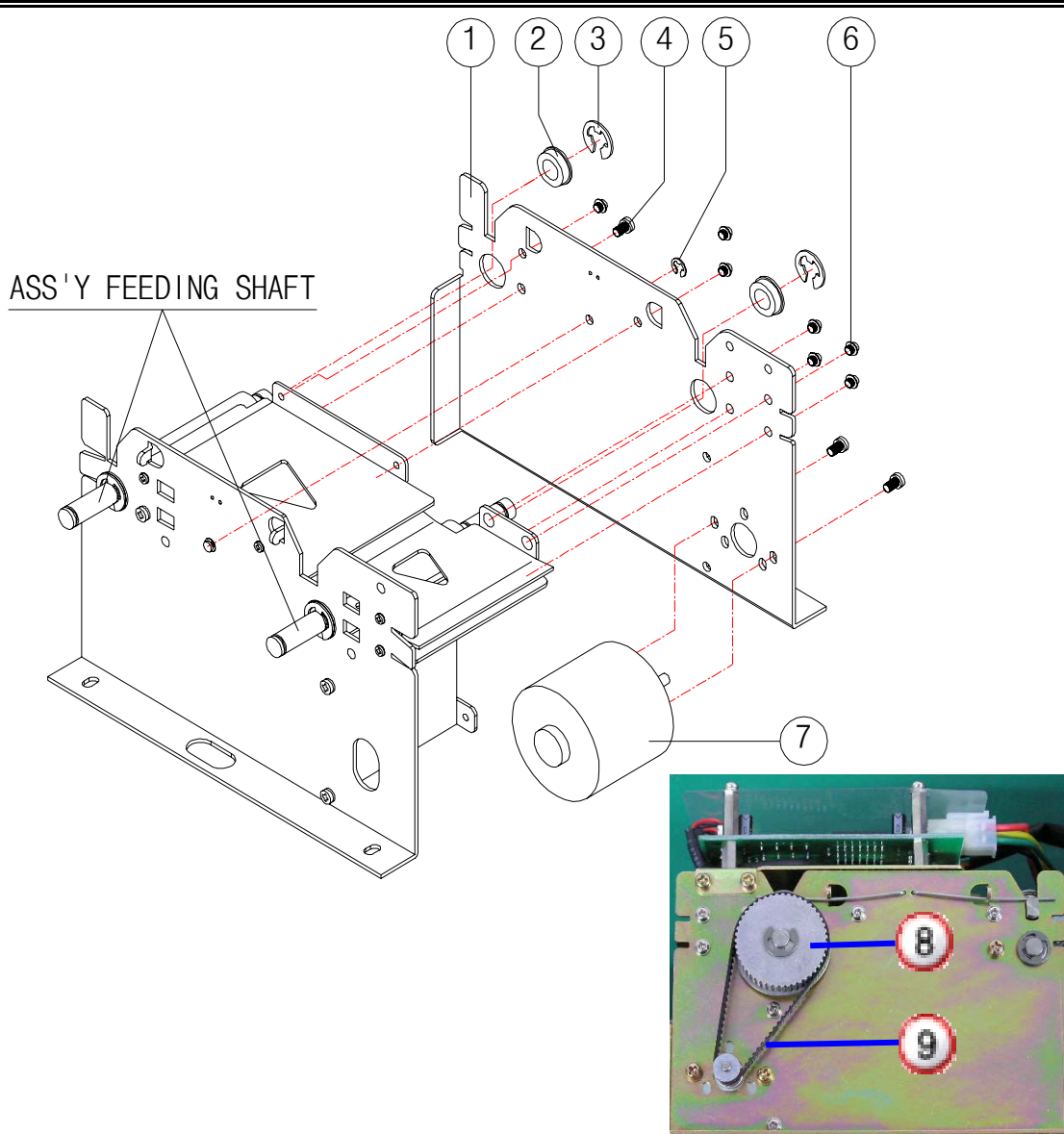
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	74210015	A	TIMING PULLEY (AL 29 MXL)	2
2	74250021	A	BELT (110 MXL)	1
3	76210014		E-RING $\Phi 5$	2
4	70220043	A	SENSOR SPACER	2
5	60117080		SCREW (M3*8 FZY)	2
6	89262105	B	ASS'Y HANESS (SENSOR CABLE-160mm)	1
7	89280209		ASS'Y SENSOR PCB-L	1
8	89220017		ASS'Y SENSOR PCB-L + CABLE (NEW)	1

- Sequence
- Strip BELT ②.
 - Remove E-RING ③. And disassemble TIMING PULLEY ① from ASS'Y UNIT
 - Unscrew two SCREW ⑤ and disassemble ④⑦⑧ parts from ASS'Y UNIT
 - Disassemble ASS'Y HANESS (SENSOR CABLE) ⑥ from ASS'Y SENSOR PCB ⑦

TOOL	+ SCREW DRIVER , PINCETTE $\Phi 5$ E-RING TOOL
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DOC NO	CIM-XXX SERIES	REV	PAGE	DATE
8202-0006	SERVICE MANUAL	B	30 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MOTOR & FRAME-R Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69010072	A	FRAME-R	1
2	70310002		OILLESS BEARING	2
3	76210014		E-RING $\Phi 5$	3
4	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	3
5	76210016		E-RING $\Phi 2.5$	1
6	61100001		SCREW M2.6*4 FNW	7
7	89420011		ASS'Y MOTOR	1
8	74210016		TIMMING PULLEY (AL 47 MXL)	
9	74250013		BELT (73 MXL)	

- Sequence
- Strip BELT ⑨ and remove E-RING ③.
And then disassemble TIMMING PULLEY ⑧.
 - Remove E-RING ③. And disassemble OILLESS BEARING ②.
 - Remove E-RING ⑤ from GUIDE PIN. (see 32 page)
 - Unscrew two SCREW ④ and disassemble ASS'Y MOTOR ⑦.
 - Unscrew SCREW ④,⑥ and disassemble FRAME-R ①.
- ※ NOTE
- After finish assembling, be sure to check if ASS'Y feeding shaft is rotated smoothly.
 - After finish assembling, check if the capture function is normal with the card for test.

TOOL	+ SCREW DRIVER , PINCETTE $\Phi 2.5$, $\Phi 5$ E-RING TOOL
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	31 OF 51	2008.02.25

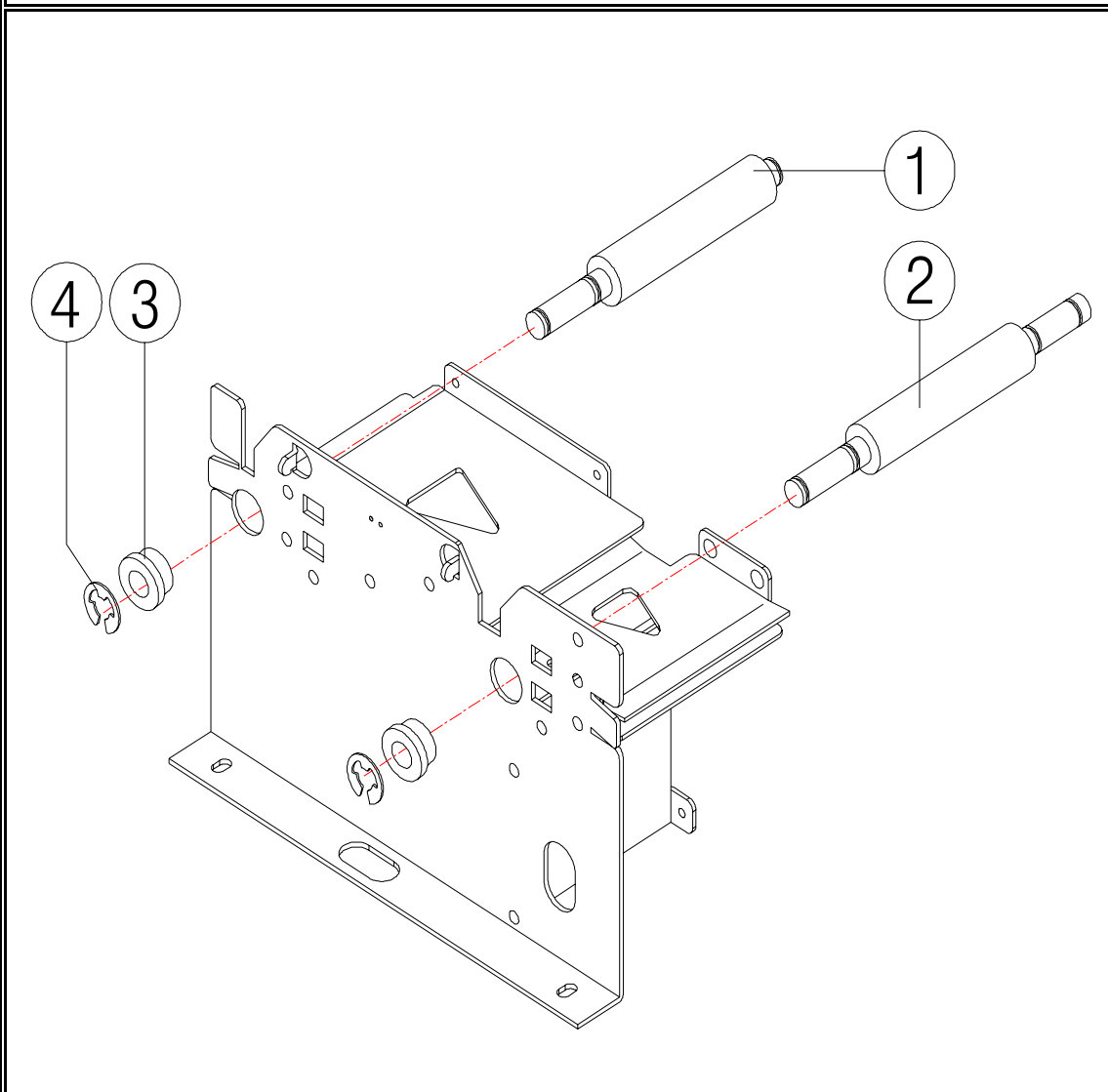
PART (IV)	PARTS REPLACEMENT	PROCESS	FEEDING SHAFT A,B Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	89100084	A	FEEDING SHAFT-B	1
2	89100083	A	FEEDING SHAFT-A	1
3	70310002		OILLESS BEARING	2
4	76210014		E-RING $\Phi 5$	2

● Sequence

1. Remove E-RING ④. And disassemble OILLESS BEARING ③.
2. Disassemble FEEDING SHAFT-B ① and FEEDING SHAFT-A ②.

TOOL	PINCETTE $\Phi 5$ E-RING TOOL
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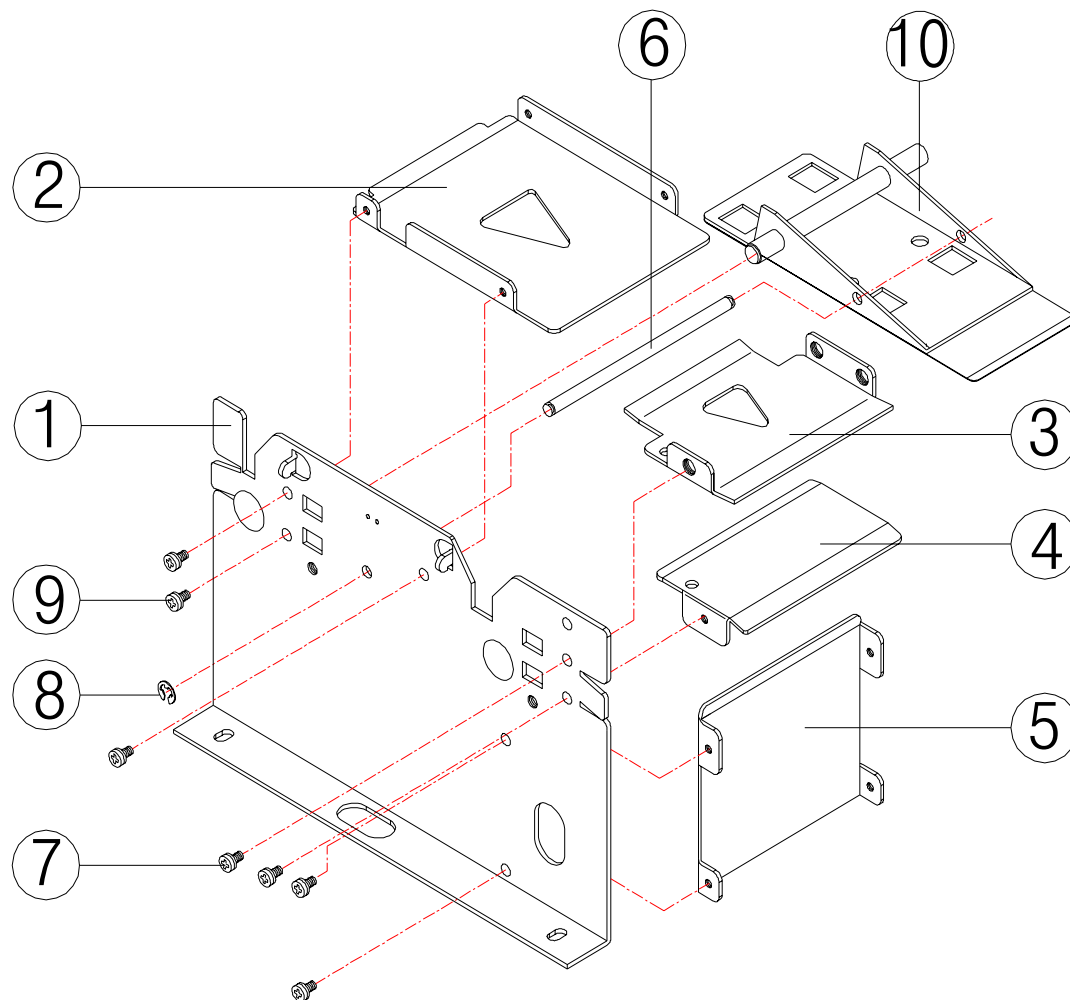


DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	32 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y LOW GUIDE RAIL & FRAME-L Disassembly	

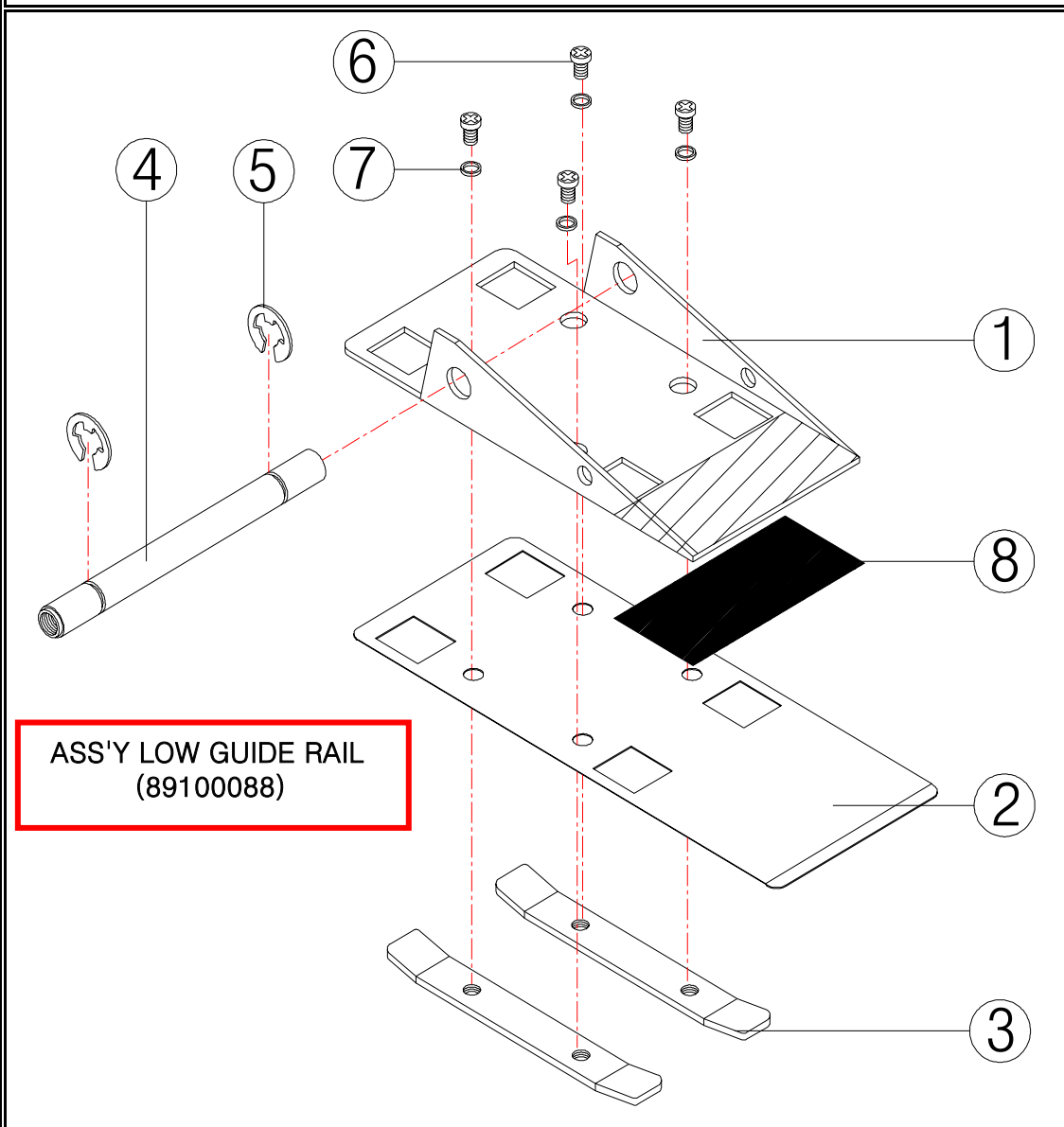
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69010071	A	FRAME-L	1
2	70010025	A	UPPER GUIDE - B	1
3	70010024	A	UPPER GUIDE - A	1
4	70010026	A	LOW GUIDE	1
5	70000042	A	SUPPORT BRKT	1
6	70230034	A	GUIDE PIN	1
7	61100001		SCREW M2.6*4 FNW	6
8	76210016		E-RING Φ 2.5	1
9	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	1
10	89100088		ASS'Y LOW GUIDE RAIL	1

- Sequence
- Remove E-RING ⑧ and unscrew SCREW ⑨.
And then disassemble GUIDE PIN ⑥
and ASS'Y LOW GUIDE RAIL ⑩ from FRAME-L ①.
 - Unscrew SCREW ⑦ and disassemble ②③④⑤ PARTS

TOOL	+ SCREW DRIVER , PINCETTE Φ 2.5 E-RING TOOL
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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y LOW GUIDE RAIL Disassembly
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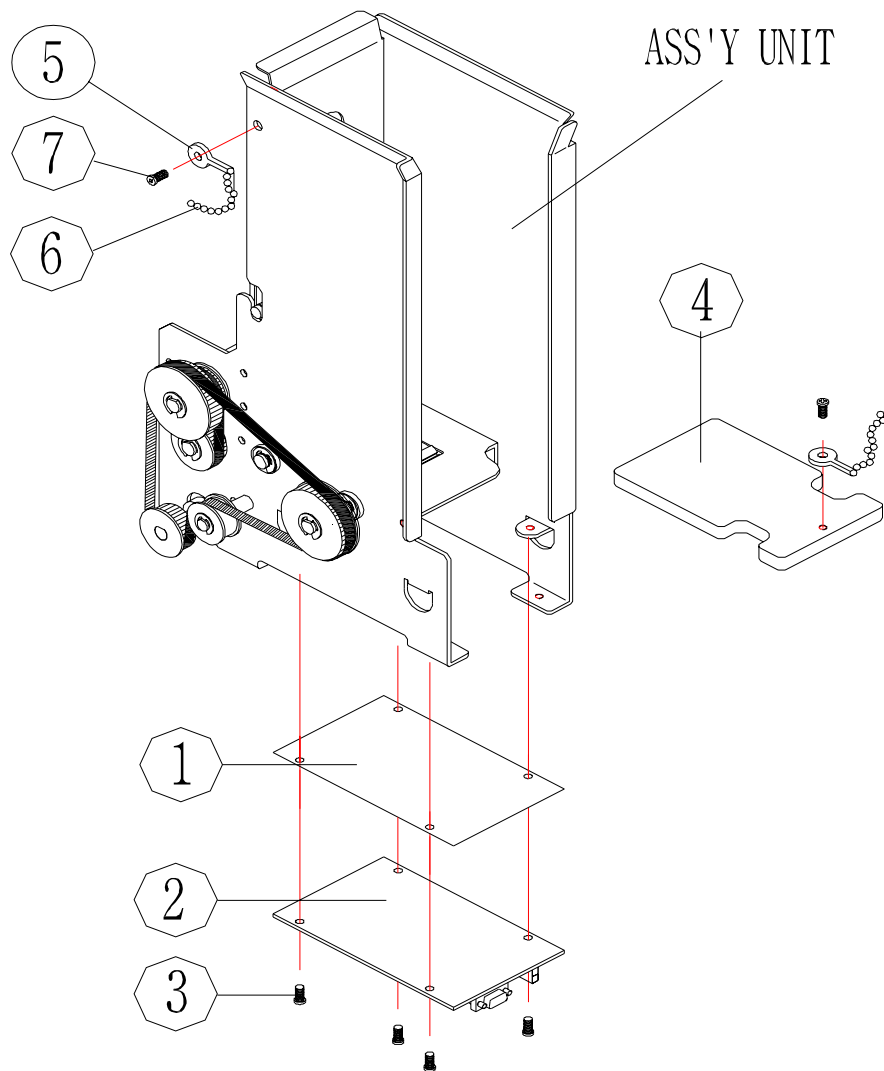
**ASS'Y LOW GUIDE RAIL
(89100088)**

NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70010023	A	LOW GUIDE RAIL	1
2	70010027	A	GUIDE PLATE	1
3	70010028	A	GUIDE MOUNT BRKT	2
4	70230035	A	SUPPORT PIN	1
5	76210013		E-RING Φ4	2
6	61100001		SCREW M2.6*4 FNW	4
7	63021613		PLATE WASHER Φ2.6 FNW	4
8	03100005		DOUBLE ADHESIVE TAPE (36mm*16m	1

- Sequence
1. Remove E-RING ⑤ and disassemble SUPPORT PIN ④
 2. Unscrew SCREW ⑥ and disassemble ①②③⑦ PARTS
- ※ NOTE
1. When tightening the screw, Be sure to assemble with WASHER ⑦.
 2. When assembling GUIDE MOUNT BRKT ③, check if GUIDE MOUNT BRKT is inserted into □ hole of LOW GUIDE RAIL ① normally.
 3. When assembling ①, assemble after attaching Double Side Tape as the picture.

TOOL	+ SCREW DRIVER , PINCETTE Φ4 E-RING TOOL
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	34 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MAIN PCB & CARD WEIGHT Disassembly	



NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	78930001	A	INSULATION SHEET	1
2	89520604	A	ASS'Y MAIN PCB	1
	89520600	C	ASS'Y MAIN PCB	
3	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	4
4	70040002	B	CARD WEIGHT (5t)	1
	70040013		CARD WEIGHT (10t)	
5	72110001		CHAIN CLIP	2
6	74250005		BELT CHAIN (160mm) - 100 capacity	1
			BELT CHAIN (220mm) - 200 capacity	
			BELT CHAIN (290mm) - 300 capacity	
			BELT CHAIN (430mm) - 400 capacity	
7	60917060		SCREW M3*6 PH FZY (SAMS)	2

- Sequence
- 1. Unscrew SCREW ⑦ and disassemble CHAIN CLIP ⑤.
And then disassemble BELT CHAIN ⑥.
- 2. Unscrew SCREW ⑦ and disassemble CARD WEIGHT ④.
- 3. Unscrew SCREW ③ and disassemble ASS'T MAIN PCB ②.
and INSULATION SHEET ① from ASS'Y UNIT.

※ NOTE

- When assembling PART ⑥, the parts are different according to loading capacity.
- The WEIGHT ⑥ is different according to the card you use

card thickness : 0.5t UNDER ==> Weight : 10.0 t
card thickness : 0.6t OVER ==> Weight : 5.0 t

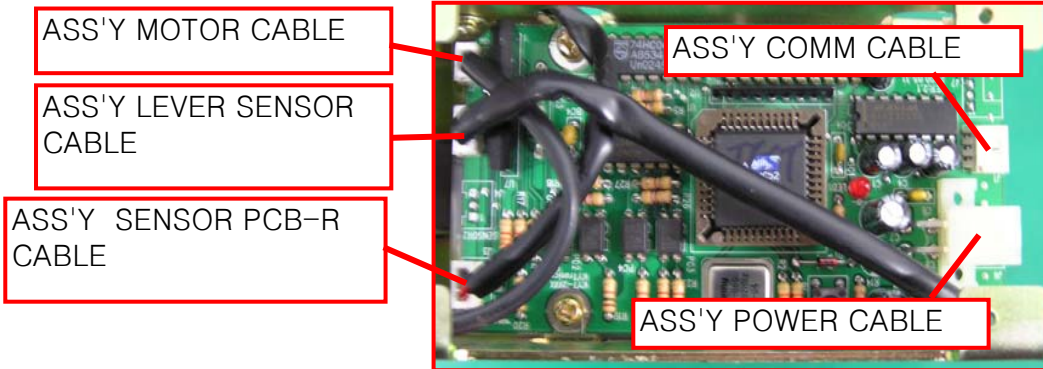
TOOL

+ SCREW DRIVER

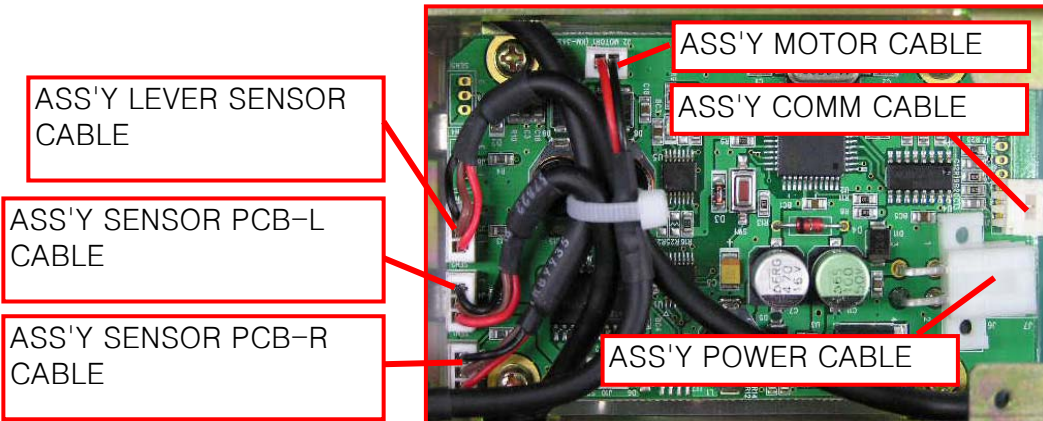
DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	35 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y CABLE connection position
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89520604 - REV:A



89520600 - REV:C



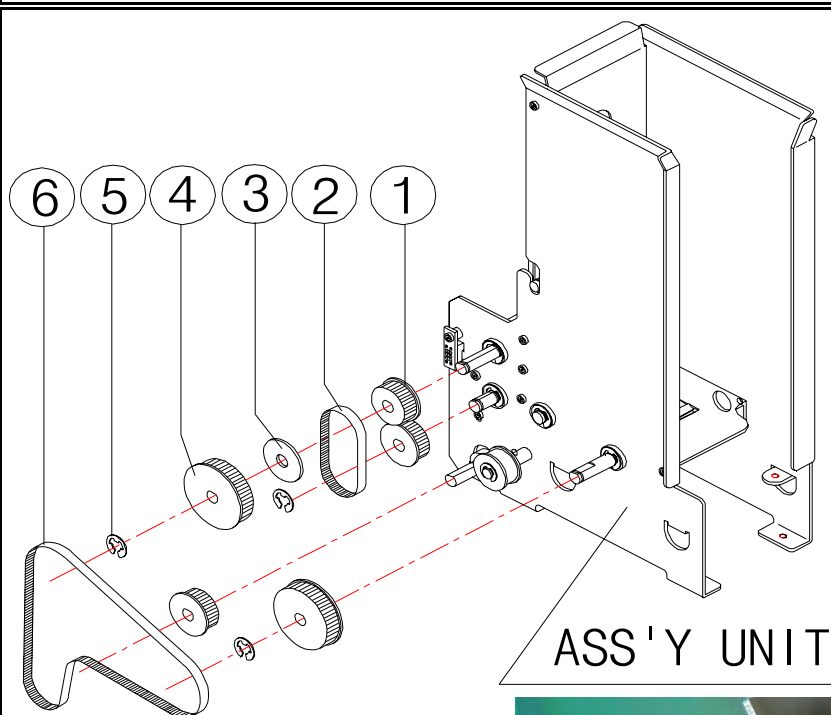
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
	89520604	A	ASS'Y MAIN PCB	
	89520600	C	ASS'Y MAIN PCB	

※ NOTE

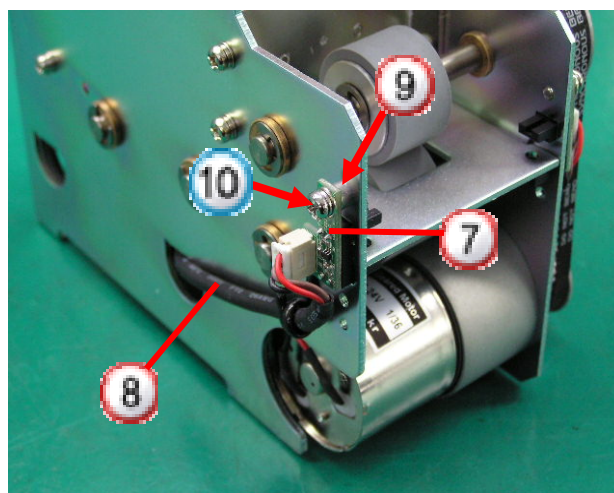
- When inserting the cables, Care about the location to insert.
- Apply ASS'Y MAIN PCB revision A to MODEL revision A ~ H. And Apply ASS'Y MAIN PCB revision B to MODEL revision I ~.

TOOL	+ SCREW DRIVER , PINCETTE Φ4 E-RING TOOL
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	36 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	BELT & PULLEY & ASS'Y SENSOR PCB-L Disassembly	



ASS'Y UNIT



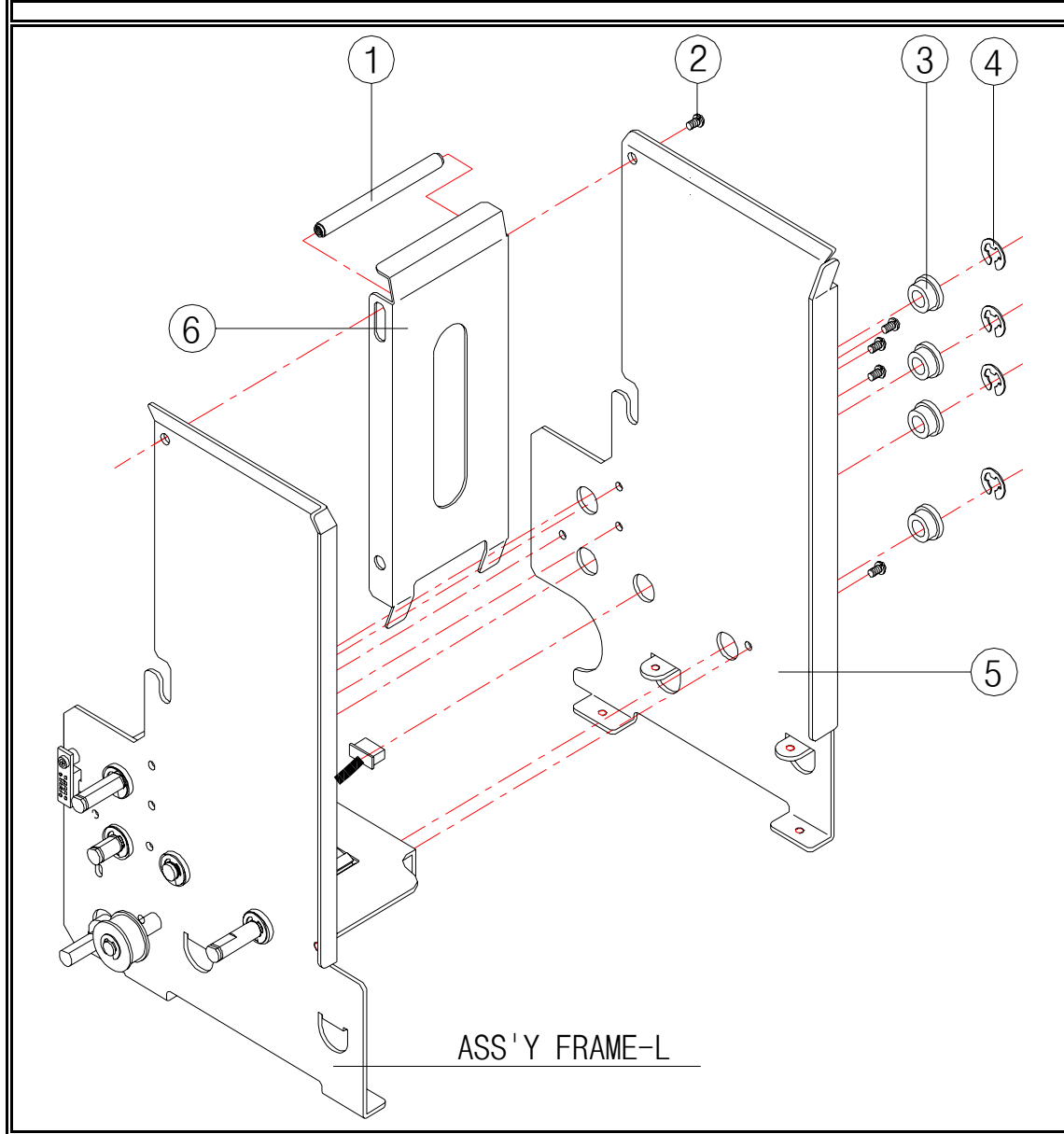
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	74210015	A	TIMING PULLEY (AL 29 MXL)	3
2	74250001	A	BELT (53 MXL)	1
3	63020012		PLATE WASHER (PI-22)	1
4	74210016		TIMMING PULLEY (AL 47 MXL)	2
5	76210014		E-RING Φ5	3
6	74250006	A	BELT (155 MXL)	1
7	89280209		ASS'Y SENSOR PCB-L	
8	89262110		ASS'Y HANESS SENSOR (3P-160mm)	
9	70220043	A	SENSOR SPACER	
10	60117080		SCREW (M3*8 FZY)	

- Sequence
- Strip BELT ⑥ and remove E-RING ⑤.
 - Disassemble TIMMING PULLEY ④ and PLATE WASHER ③.
 - Strip BELT ② and disassemble TIMMIN PULLEY ①.
From ASS'Y UNIT
 - Disassemble ASS'Y HANESS SENSOR ⑧.
 - Unscrew SCREW ⑩ and disassemble ASS'Y SENSOR PCB-L ⑦
and SENSOR SPACER ⑨ from ASS'Y UNIT

TOOL

+ SCREW DRIVER , PINCETTE
Φ5 E-RING TOOL

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y FRONT DOOR & FRAME-R Disassembly
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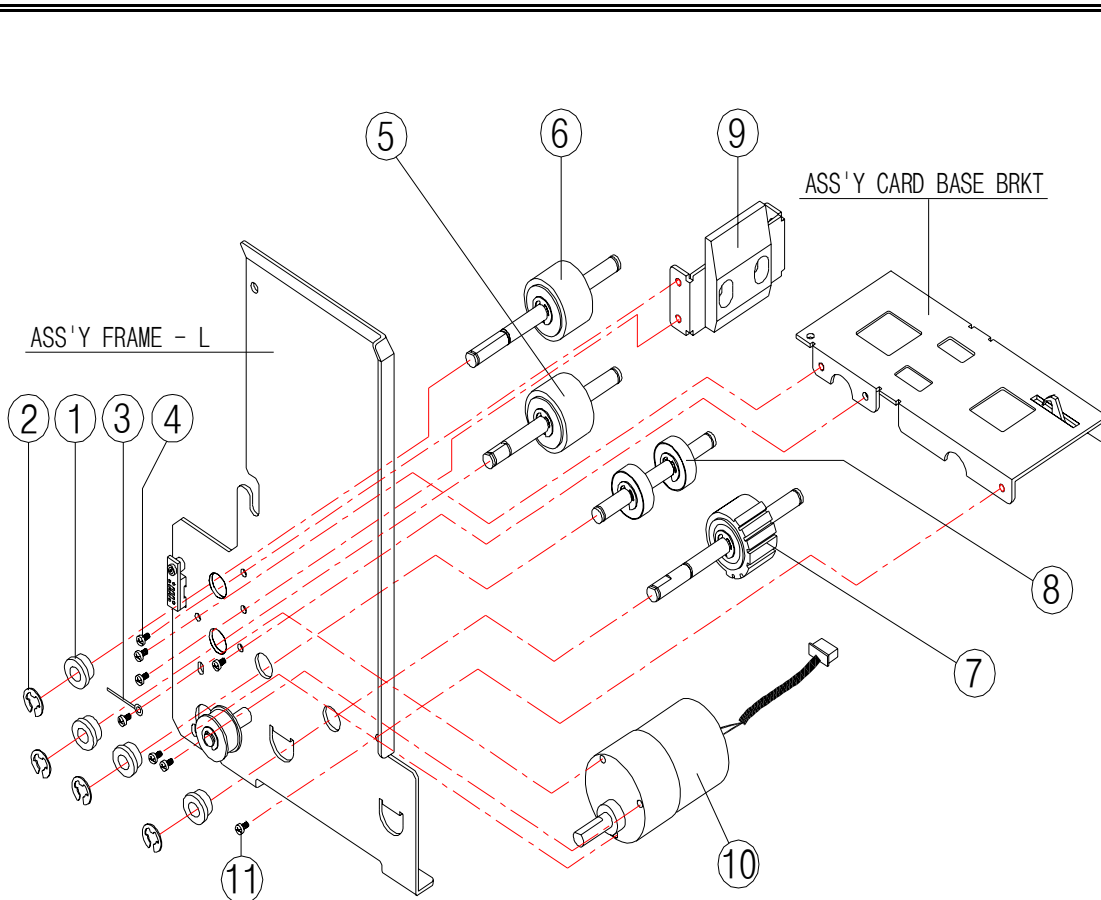


NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70230007	A	SUPPORT PIN	1
2	60917060		SCREW M3*6 PH FZY (SAMS)	5
3	70310002		OILLESS BEARING	4
4	76210014		E-RING $\Phi 5$	4
5	69010058	D	FRAME-R - 100 (100 capacity)	1
	69010009	D	FRAME-R - 200 (200 capacity)	
	69010010	D	FRAME-R - 300 (300 capacity)	
	69010011	D	FRAME-R - 500 (500 capacity)	
6	69020011		FRONT DOOR - 100 (100 capacity)	1
	89100058		ASS'Y FRONT DOOR-200 (200 capacity)	
	89100059		ASS'Y FRONT DOOR-300 (300 capacity)	
	89100060		ASS'Y FRONT DOOR-500 (500 capacity)	

- Sequence
1. Unscrew SCREW ② and disassemble ASS'Y FRONT DOOR ⑥. And then disassemble SUPPORT PIN ①.
 2. Remove E-RING ④ and disassemble OILLESS BEARING ③. And then unscrew SCREW ② with the tool.
 3. Disassemble FRAME-R ⑤ from ASS'Y FRAME-L
- ※ NOTE
- When assembling PARTS ⑤⑥, the parts are different according to loading capacity.

TOOL	+ SCREW DRIVER , PINCETTE $\Phi 5$ E-RING TOOL
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DOC NO	CIM-XXX SERIES	REV	PAGE	DATE
8202-0006	SERVICE MANUAL	B	38 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SHAFT A,B,C & ASS'Y MOTOR Disassembly	



NO	PART NO	REV	PATR NAME / SPEC	Q' TY
1	70310002		OILLESS BEARING	4
2	76210014		E-RING Φ 5	4
3	03900002		RETAINER COIL	1
4	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	4
5	89100061		ASS'Y SHAFT-A	1
6	89100062		ASS'Y SHAFT-B	1
7	89100063		ASS'Y SHAFT-C	1
8	89100107		ASS'Y MIDDLE SHAFT	1
9	89100057		ASS'Y STOPPER BASE	1
10	89160008		ASS'Y MOTOR	1
11	60917060		SCREW M3*6 PH FZY (SAMS)	3

- Sequence
- 1. Remove E-RING ② and disassemble OILLESS BEARING ①. And then disassemble ASS'Y SHAFT-A,B,C ⑤⑥⑦ PARTS. And ASS'Y MIDDLE SHAFT ⑧.
- 2. Unscrew SCREW ④ and disassemble ASS'Y STOPPER BASE ⑨. And then disassemble ASS'Y CARD BASE BRKT. From ASS'Y FRAME-L
- 3. Unscrew SCREW ⑪ and disassemble ASS'Y MOTOR ⑩. From ASS'Y FRAME-L

※ NOTE

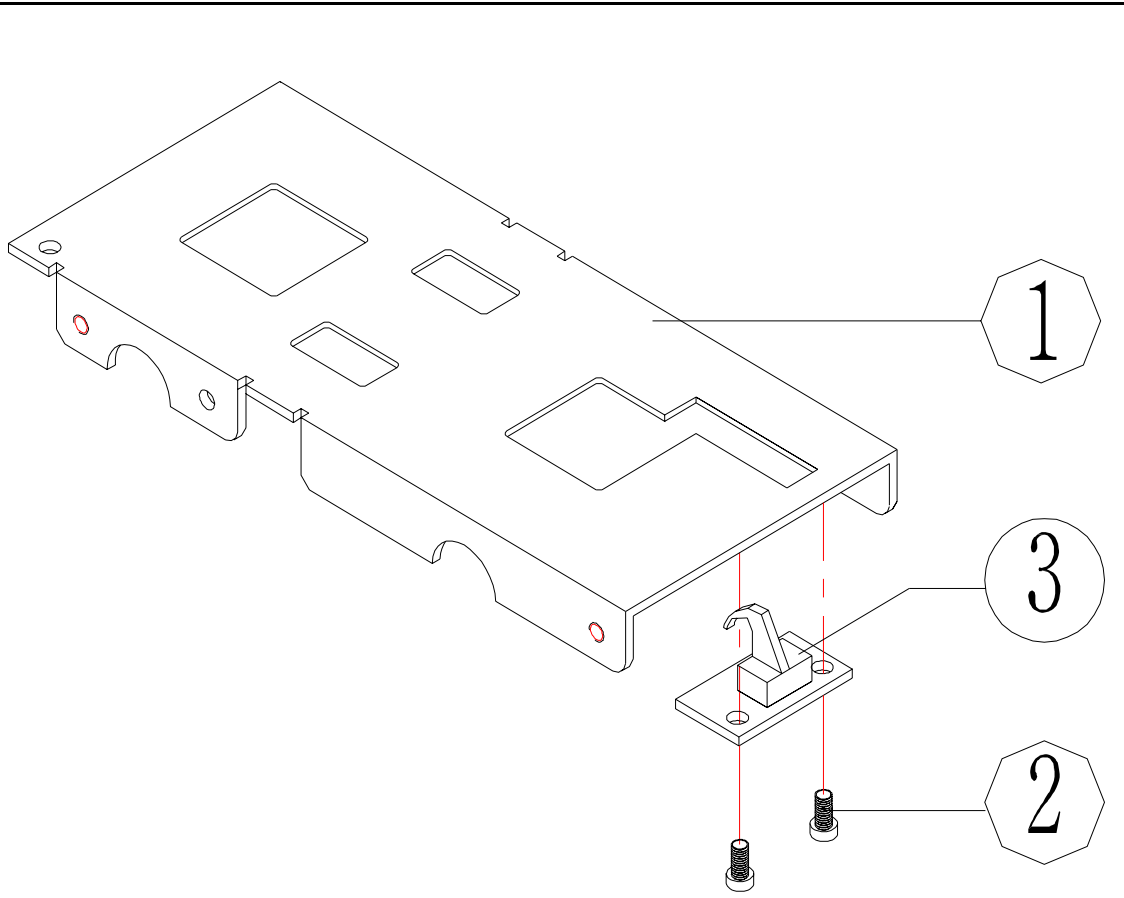
- When assembling ASS'Y MOTOR , assemble with RETAINER COIL ③.
- When assembling, be careful not to change part ⑤ and ⑥.

TOOL

+ SCREW DRIVER , PINCETTE
 Φ 5 E-RING TOOL

DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	39 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	CARD BASE BRKT & ASS'Y LEVER SENSOR Disassembly
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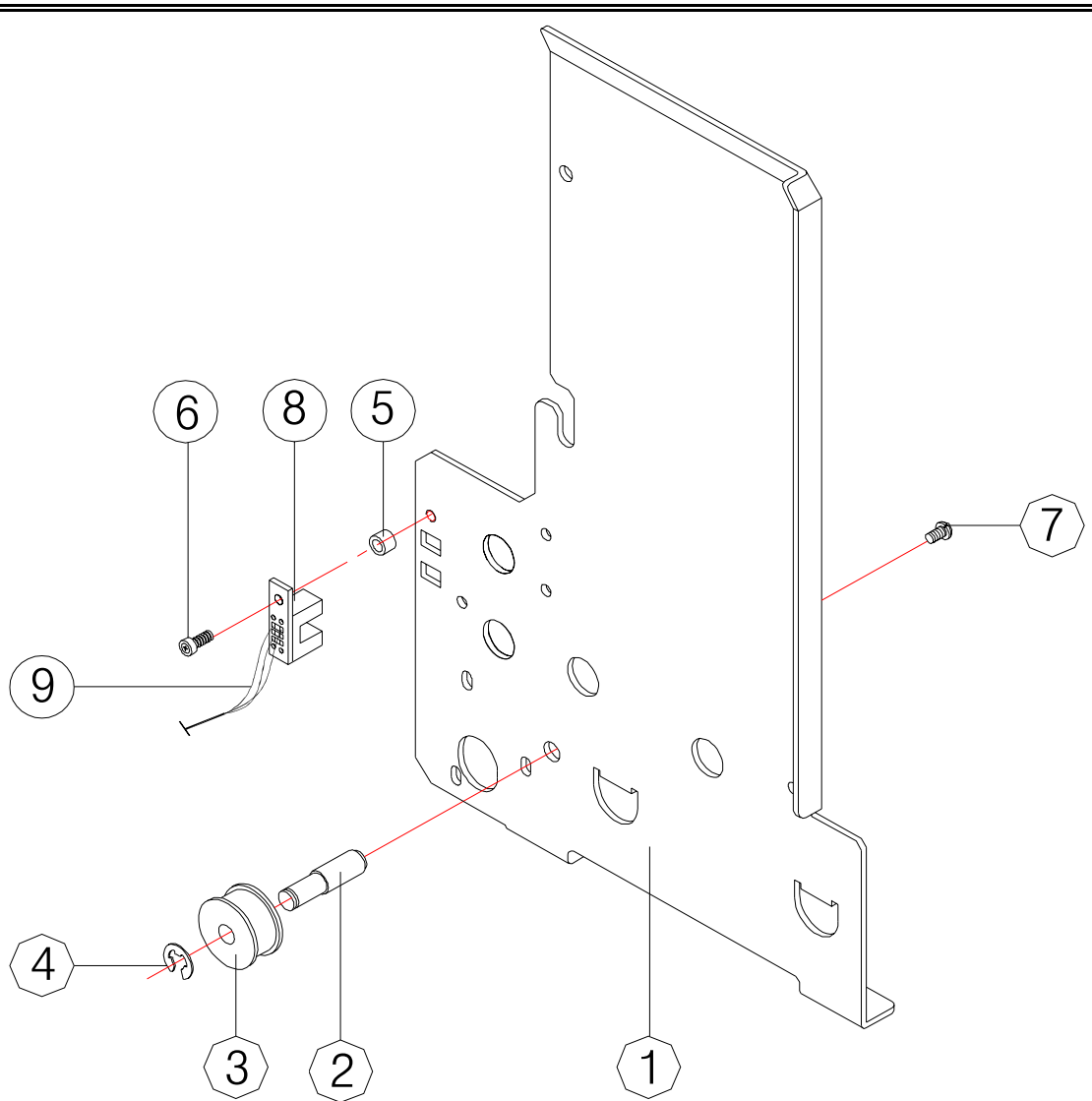
NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70000012	D	CARD BASE BRKT	1
2	60917061		SCREW M3*6 PH FZY (SAMS SMALL)	2
3	89280212		ASS'Y LEVER SENSOR PCB	1

● Sequence

1. Unscrew SCREW ②.
2. Disassemble ASS'Y LEVER SENSOR PCB ③ from CARD BASE BRKT ①.

TOOL	+ SCREW DRIVER
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	40 OF 51	2008.02.25
PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SENSOR PCB-R & IDLER ROLLER Disassembly	



NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69010057	B	FRAME-L - 100 (100 capacity)	1
	69010012	B	FRAME-L - 200 (200 capacity)	
	69010013	B	FRAME-L - 300 (300 capacity)	
	69010014	B	FRAME-L - 500 (500 capacity)	
2	70220010	A	IDLER SHAFT	1
3	74120006	A	IDLER ROLLER (ACETAL)	1
4	76210013		E-RING $\Phi 4$	1
5	70220043	A	SENSOR SPACER	1
6	60117080		SCREW (M3*8 FZY)	1
7	60917060		SCREW M3*6 PH FZY (SAMS)	1
8	89280208		ASS'Y SENSOR PCB-R	1
9	89262110		ASS'Y HANESS SENSOR (3P-160mm)	1

● Sequence

1. Disassemble ASS'Y HANESS SENSOR ⑨ from ASS'Y SENSOR PCB-R ⑧.
2. Unscrew SCREW ⑥ and disassemble ASS'Y SENSOR PCB-R ⑧ and SENSOR SPACER ⑤
3. Remove E-RING ④ and disassemble IDLER ROLLER ③.
4. Unscrew SCREW ⑦ and disassemble IDLER SHAFT ② from FRAME-L ①.

※ NOTE

- When assembling PARTS ①, the parts are different according to loading capacity.

TOOL

+ SCREW DRIVER , PINCETTE
 $\Phi 4$ E-RING TOOL

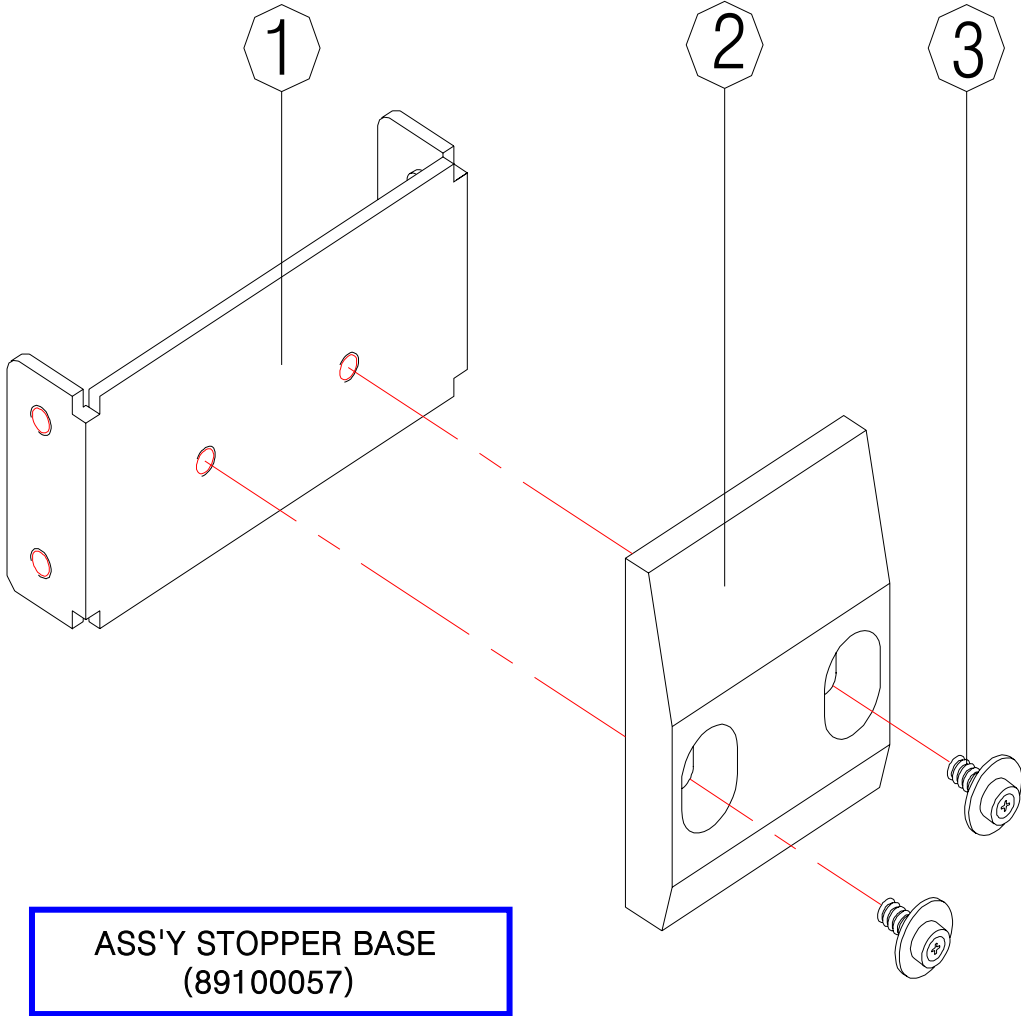
DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	41 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y STOPPER BASE Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q' TY
1	70000013		STOPPER BASE BRKT	1
2	72250002		STOPPER	1
3	60917080		SCREW M3*8 PH FZY (SAMS)	2

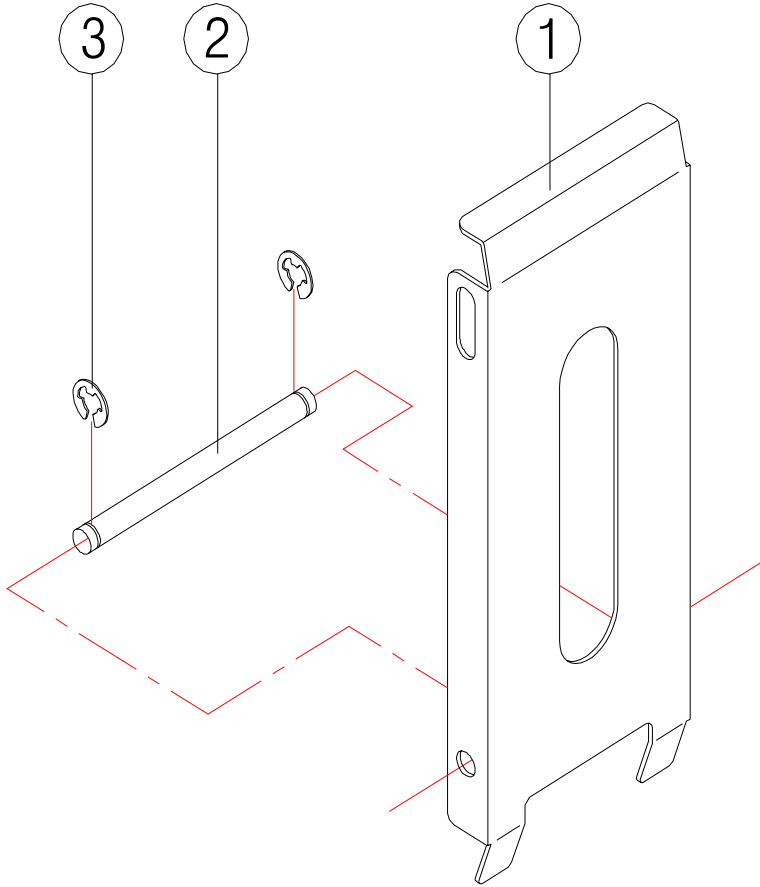
● Sequence
 2. Unscrew SCREW ③ and disassemble STOPPER ② from STOPPER BASE BRKT ①.

T00L	+ SCREW DRIVER
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	42 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y FRONT DOOR Disassembly
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- | |
|--------------------------------------|
| 1. ASS'Y FRONT DOOR - 200 (89100058) |
| 2. ASS'Y FRONT DOOR - 300 (89100059) |
| 3. ASS'Y FRONT DOOR - 500 (89100060) |

NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	69020011		FRONT DOOR - 100	
	69020005	C	FRONT DOOR - 200	1
	69020006	C	FRONT DOOR - 300	1
	69020007	C	FRONT DOOR - 500	1
2	70230009	C	LOCK PIN	1
3	76210013		E-RING Φ4	2

- Sequence
- 1. Remove E-RING ③ and disassemble LOCK PIN ② from FRONT DOOR ①.

TOOL	PINCETTE
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	43 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y MIDDLE SHAFT Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70220011	B	MIDDLE SHAFT	1
2	70300002		BALL BEARING (MR626ZZ NSK)	2
3	76210014		E-RING $\Phi 5$	4

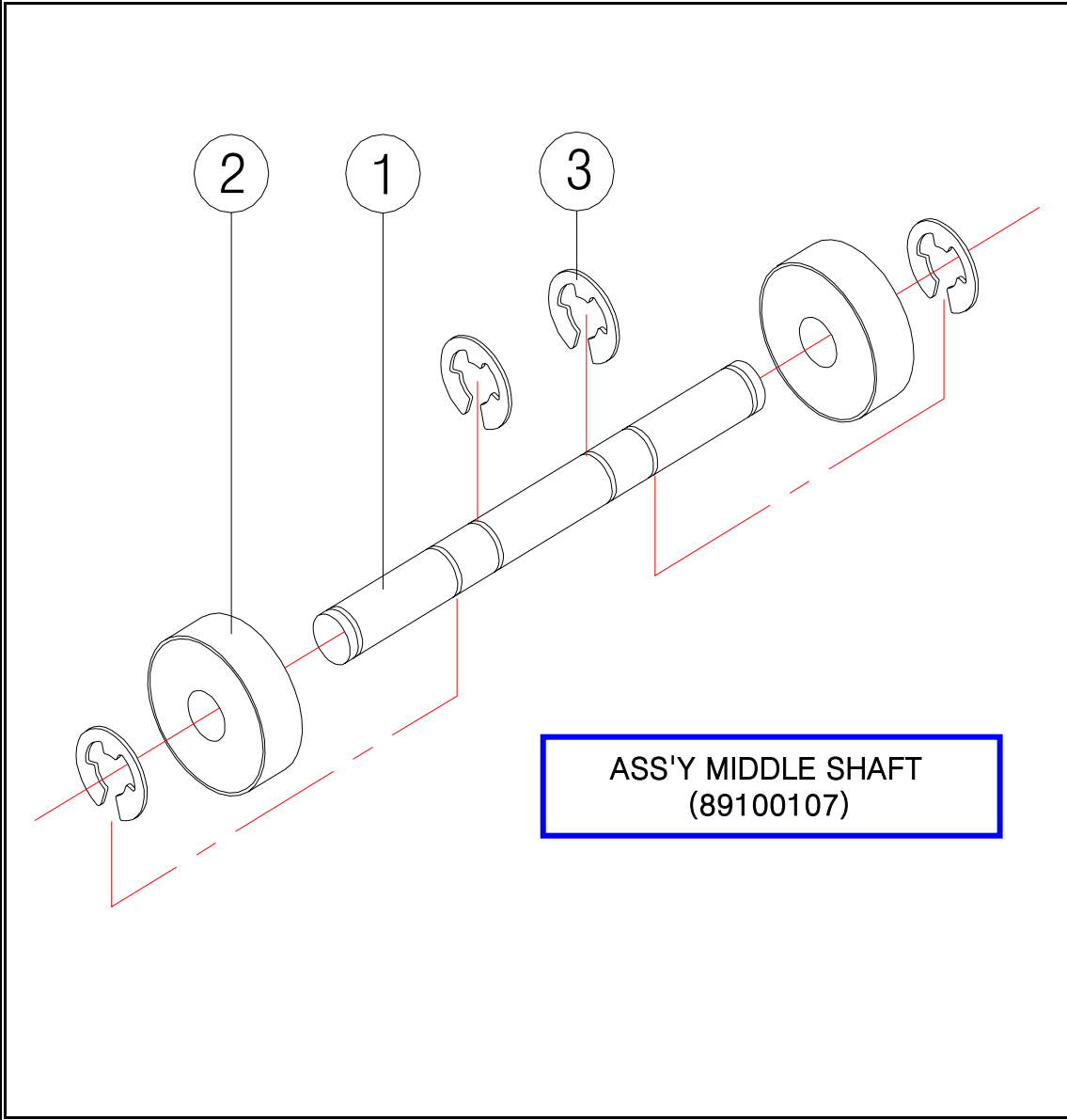
● Sequence

- Remove E-RING ③ and disassemble BALL BEARING ② from MIDDLE SHAFT ①.

※ NOTE

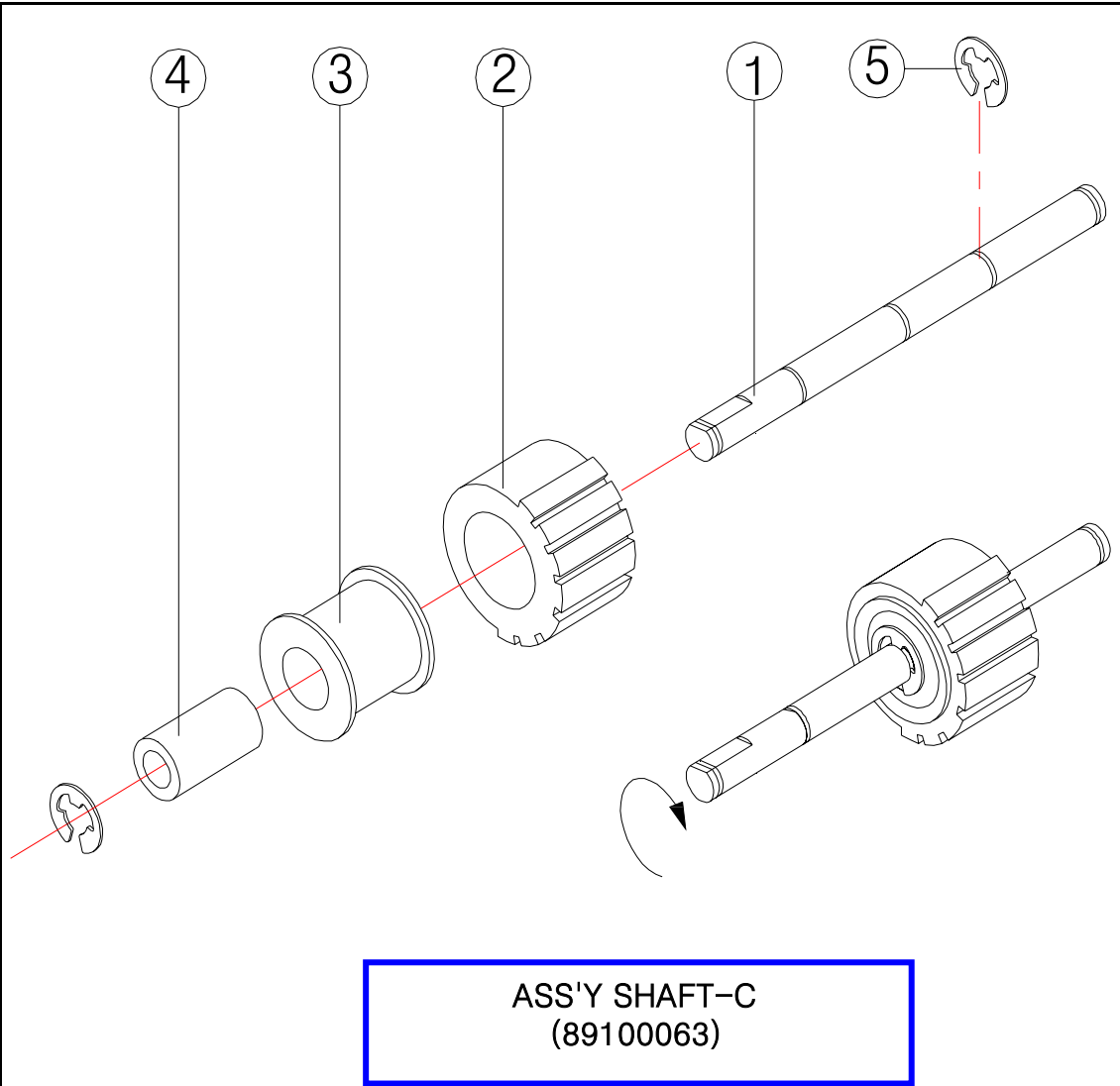
- After assembling, check if the bearing is run smoothly.

TOOL	PINCETTE
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	44 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SHAFT-C Disassembly
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NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70220009	B	SHAFT-C	1
2	74120005	B	ROLLER-2	1
3	74120001	A	BOBBIN	1
4	70300001		CLUTCH BEARING (FC-6)	1
5	76210014		E-RING $\Phi 5$	2

● Sequence

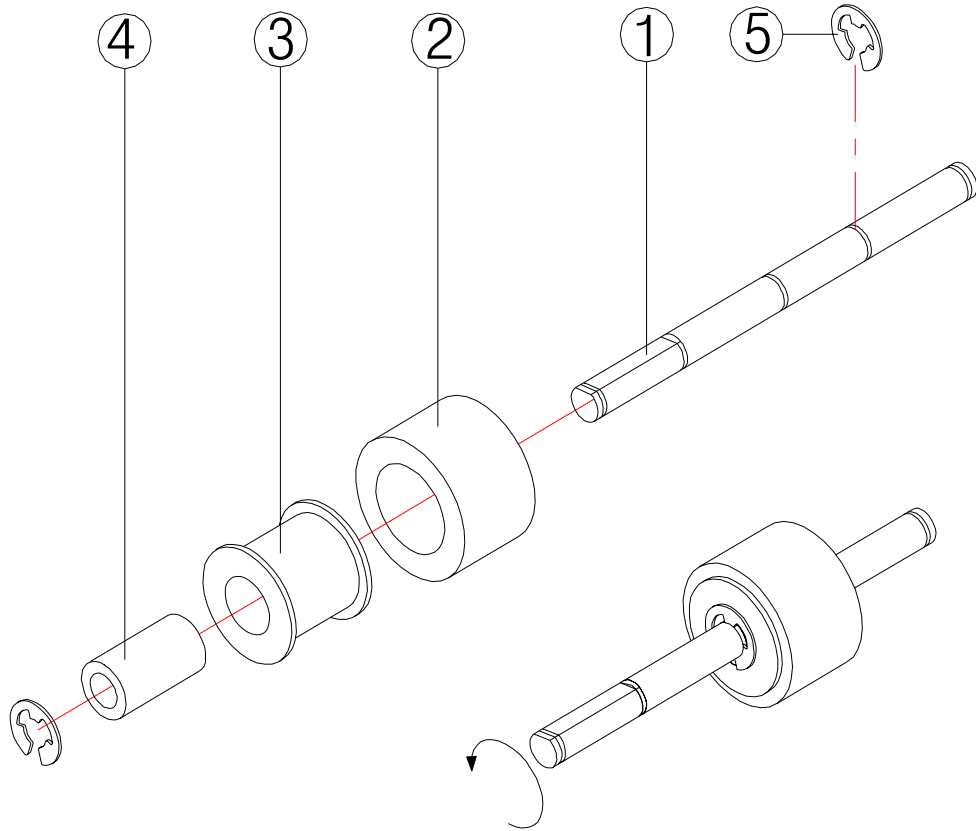
1. Remove E-RING ⑤ and disassemble BOBBIN ③ from SHAFT-C ①.

※ NOTE

1. In the case of completely assembled shaft, be sure to only turn to the arrow direction as the left picture.

TOOL	PINCETTE
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PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SHAFT-B Disassembly
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ASS'Y SHAFT-B
(89100062)

NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70220008	B	SHAFT-B	1
2	74120004	A	ROLLER	1
3	74120001	A	BOBBIN	1
4	70300001		CLUTCH BEARING (FC-6)	1
5	76210014		E-RING $\Phi 5$	2

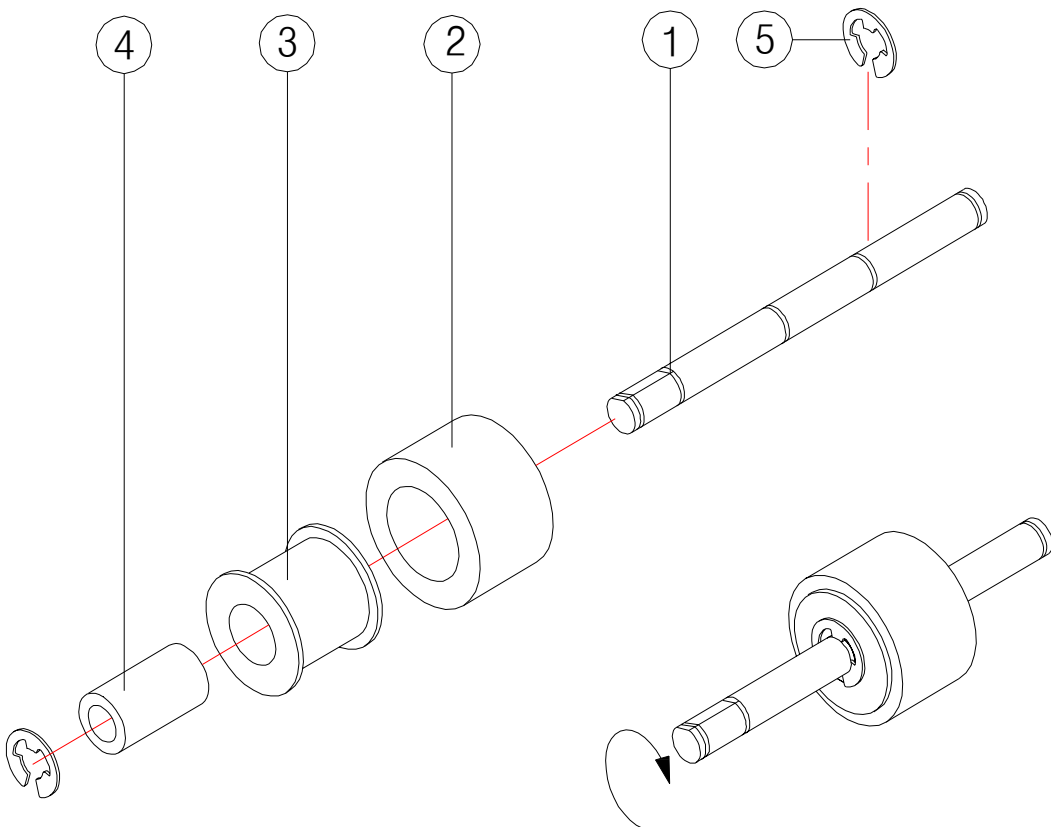
- Sequence
1. Remove E-RING ⑤ and disassemble BOBBIN ③ from SHAFT-B ①.

- ※ NOTE
1. In the case of completely assembled shaft, be sure to only turn to the arrow direction as the left picture.

TOOL	PINCETTE
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DOC NO	CIM-XXX SERIES SERVICE MANUAL	REV	PAGE	DATE
8202-0006		B	46 OF 51	2008.02.25

PART (IV)	PARTS REPLACEMENT	PROCESS	ASS'Y SHAFT-A Disassembly
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ASS'Y SHAFT-A
(89100061)

NO	PART NO	REV	PATR NAME / SPEC	Q'TY
1	70220007	B	SHAFT-A	1
2	74120004	A	ROLLER	1
3	74120001	A	BOBBIN	1
4	70300001		CLUTCH BEARING (FC-6)	1
5	76210014		E-RING $\Phi 5$	2

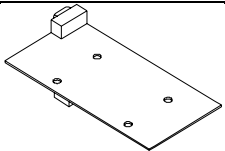
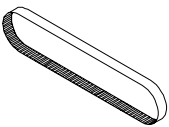
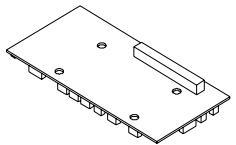
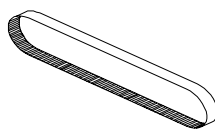

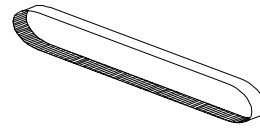



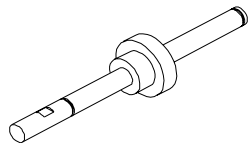
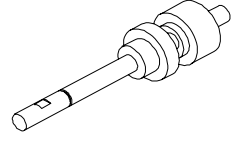
● Sequence

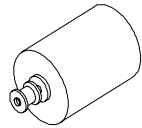
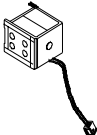
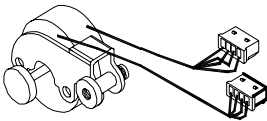
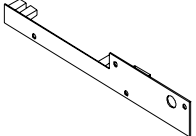
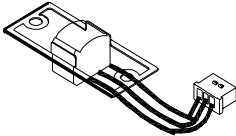

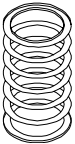
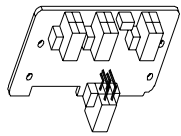
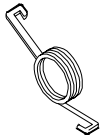
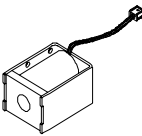
- Remove E-RING ⑤ and disassemble BOBBIN ③ from SHAFT-A ①.










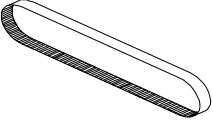

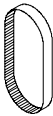

※ NOTE




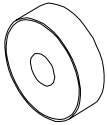

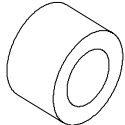
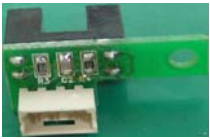
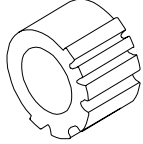

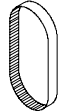
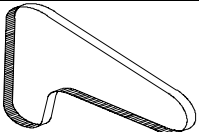
- In the case of completely assembled shaft, be sure to only turn to the arrow direction as the left picture.

T00L	PINCETTE
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DOC NO		CIM-1XXX SERIES				REV		PAGE		DATE	
8202-0006		SERVICE MANUAL				B		47 OF 51		2008.02.25	
PART (V)		SPARE PART LIST			PROCESS		CARD READER PART				
● CARD READER/WRITER PART			※ Below parts are a part of a whole.								
NO	PART NAME	OUTLINE DRAWING	Q'TY / UNIT	PRICE EURO / PC	LIFE LENGTH	NO	PART NAME	OUTLINE DRAWING	Q'TY / UNIT	PRICE EURO / PC	LIFE LENGTH
	(PART NUMBER)						(PART NUMBER)				
1	ASS'Y MAIN PCB (RS 232C) (89520223)		1	150		8	BELT (97 MXL) (74250014)		1	5	5,000Hrs at continuous operation
2	ASS'Y MAIN PCB (TTL) (89270218)		1	150		9	BELT (112 MXL) (74250015)		1	5	5,000Hrs at continuous operation
3	ASS'Y SHUTTER MODULE (89400033)		1	55		10	BELT (120 MXL) (74250016)		1	5	5,000Hrs at continuous operation
4	ASS'Y BEZEL (89100086)		1	3.5		11	ASS'Y CARD BASE NEW (89100087)		1	17	
5	ASS'Y IC-CONTACT NEW (89400034)		1	60.0	700,000 times (20°C, 0.76mm)	12	ASS'Y SHAFT-A (89100077)		1	12	500,000 times (20°C, 0.76mm)
6	ASS'Y HEAD BRKT LOW-CO (89000033) HI-CO (89000034)		1	55	700,000 times (20°C, 0.76mm)	13	ASS'Y SHAFT-B (89100078)		1	15	500,000 times (20°C, 0.76mm)
7	SUB RESISTOR PCB'A (HI-CO) (89288011)		1	25		14	ASS'Y SHAFT-C (89100079) 47		1	12	500,000 times (20°C, 0.76mm)

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8202-0006		SERVICE MANUAL				B		48 OF 51		2008.02.25	
PART (V)		SPARE PART LIST			PROCESS		CARD READER PART & MAIN CONTROL PART				
● CARD READER/WRITER PART			※ Below parts are a part of a whole.								
NO	PART NAME	OUTLINE DRAWING	Q'TY / UNIT	PRICE EURO / PC	LIFE LENGTH	NO	PART NAME	OUTLINE DRAWING	Q'TY / UNIT	PRICE EURO / PC	LIFE LENGTH
	(PART NUMBER)						(PART NUMBER)				
15	ASS'Y MOTOR (89400027)-12 MXL (89420012)-15 MXL		1	35	2000Hrs at continuous operation	22	ASS'Y SOLENOIDE -JWC 0826 (89257118)		1	10	1,000,000 times
16	ASS'Y ENCODER (89400030)		1	32							
17	SENSOR PCB'A (89280226)		1	25							
18	ASS'Y PRE HEAD (89400016)		1	10	700,000 times (20°C, 0.76mm)	1	ASS'Y MAIN PCB - 5000 (89521602)		1	210	
19	HEAD SPRING (76200005)		1	3		2	ASS'Y POWER PCB (89280218)-OLD (89280219)-NEW		1	20	
20	ENCODER SPRING (76200020)		1	3							
21	ASS'Y SOLENOIDE - JWS 1035 (89257117)		1	10	1,000,000 times						

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PART (V)		SPARE PART LIST			PROCESS		CARD FEEDING & CAPTURE MODULE PART				
● CARD FEEDING & CAPTURE PART			※ Below parts are a part of a whole.								
NO	PART NAME	OUTLINE DRAWING	Q'TY / UNIT	PRICE EURO / PC	LIFE LENGTH	NO	PART NAME	OUTLINE DRAWING	Q'TY / UNIT	PRICE EURO / PC	LIFE LENGTH
	(PART NUMBER)						(PART NUMBER)				
1	ASS'Y MAIN PCB (89270606) - OLD (89270605) - 6 PIN (89270602) - 7 PIN		1	45		8	TIMING PULLEY - AL 47 MXL (74210016)		1	4	
2	FEEDING SHAFT-A (89100083)		1	12	500,000 times (20°C, 0.76mm)	9	TIMING PULLEY -AL 29 MXL (74210001)		2	4	
3	FEEDING SHAFT-B (89100084)		1	12	500,000 times (20°C, 0.76mm)	10	ASS'Y SENSOR PCB-L + CABLE (89220017)		1	10	
4	ASS'Y IDLER SHAFT (89100085)		2	10		11	ASS'Y SENSOR PCB-L (89280209)		1	10	
5	ASS'Y LOW GUIDE RAIL (89100088)		1	46		12	BELT (110 MXL) (74250021)		1	5	5,000Hrs at continuous operation
6	ASS'Y MOTOR (89420011)		1	15		13	BELT 73 MXL (742500013)		1	3.5	5,000Hrs at continuous operation
7	PIN SPRING (76200025)		4	3							

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PART (V)		SPARE PART LIST			PROCESS		DISPENSER PART				
● DISPENSER PART				※ Below parts are a part of a whole.							
NO	PART NAME	OUTLINE DRAWING	Q'TY / UNIT	PRICE EURO / PC	LIFE LENGTH	NO	PART NAME	OUTLINE DRAWING	Q'TY / UNIT	PRICE EURO / PC	LIFE LENGTH
	(PART NUMBER)						(PART NUMBER)				
1	ASS'Y MAIN PCB -89520604 (89520600)		1	45		8	SENSOR SPACER (70220043)		4	1	
2	ASS'Y MOTOR (1:30) (89160008)		1	30	2000Hrs at continuous operation	9	BALL BEARING (626 ZZ) (70300002)		1	4	12,000hrs (20kgf, 3,000rpm)
3	ASS'Y SENSOR PCB-L (89280209)		1	10		10	ROLLER (74120004)		2	3.5	500,000 times (20 °C, 0.76mm)
4	ASS'Y SENSOR PCB-R (89280208)		1	10		11	ROLLER-2 (74120005)		1	3.5	500,000 times (20 °C, 0.76mm)
5	ASS'Y LEVER SENSOR PCB (89280212)		1	10	1,000,000 times	12					
6	BELT 53 MXL (742500015)		1	3	5,000Hrs at continuous operation	13					
7	BELT 155 MXL (742500006)		1	7	5,000Hrs at continuous operation	14					

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PART (VI)	CONTACT INFORMATION	PROCESS		

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