

Model: PU5020 (D449)		Date: 8-Oct-13	No.: RD449001
Subject: Notes on installing PU5020 (D449) on SR5030/SR5040/SR5050/SR5060 (D513/512/D735/D734)		Prepared by: Shinnosuke Sasaki	
From: 1st PP Tech Service Sec., PP Tech Service Dept.,			
Classification:	<input type="checkbox"/> Troubleshooting <input checked="" type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2

## General

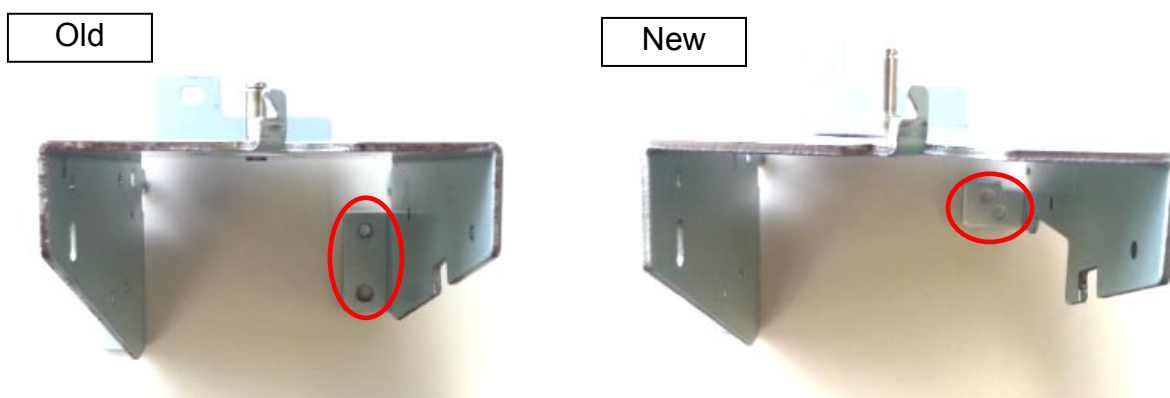
As a result of changes to the product design implemented in Dec 2012, the Punch Unit PU5020 now has two types of brackets; old and new.

Brackets of the old type cannot be attached to finishers manufactured since Dec 2012.

Please make sure to take with you the new bracket when visiting a customer site to install the punch unit. See the following pages for how to replace the old bracket with the new bracket.

Please contact your supervisor to procure the new bracket.

\* Sufficient quantity of brackets are supplied to all regions free of charge.

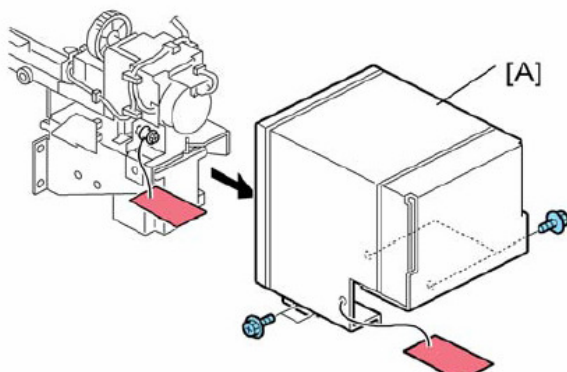


Old bracket: Cannot be used on new finishers.

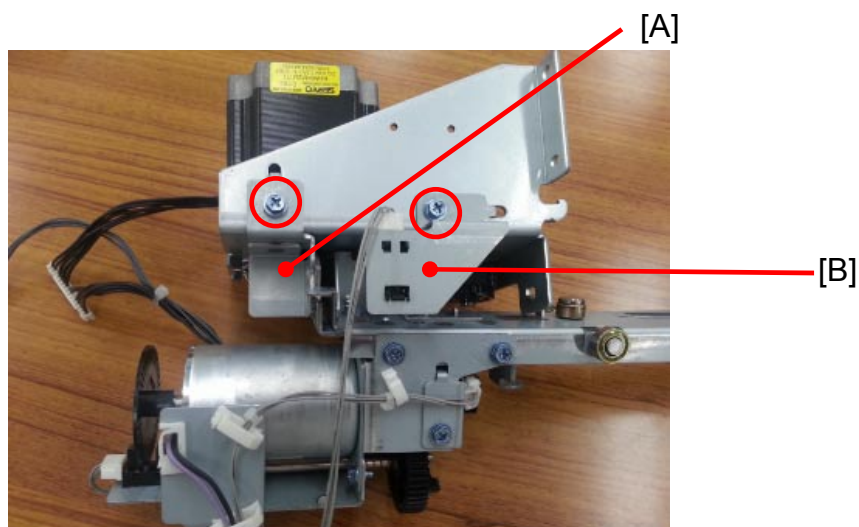
New bracket: Can be used on old and new finishers.

The following table shows the punch units installed with the new bracket at the factory.

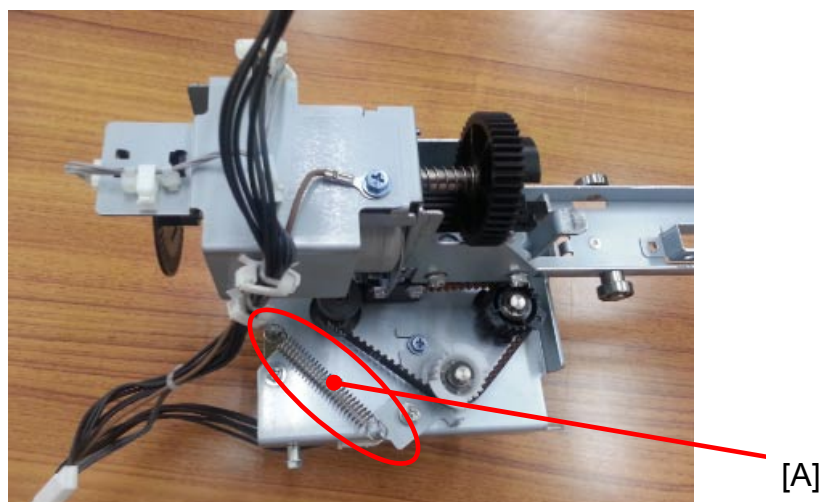
Product #	Product description	Serial number	Production month
D44917	PUNCH UNIT PU5020 NA	0001704223 ~	Dec 2012 ~
D44927	PUNCH UNIT PU5020 EU	0002701973 ~	Dec 2012 ~
D44928	PUNCH UNIT PU5020 SC	0002800124 ~	Dec 2012 ~

**Procedure**

1. Remove the motor protector plate [A]. (screw x4)



2. Remove the brackets [A] and [B]. (screw x2)

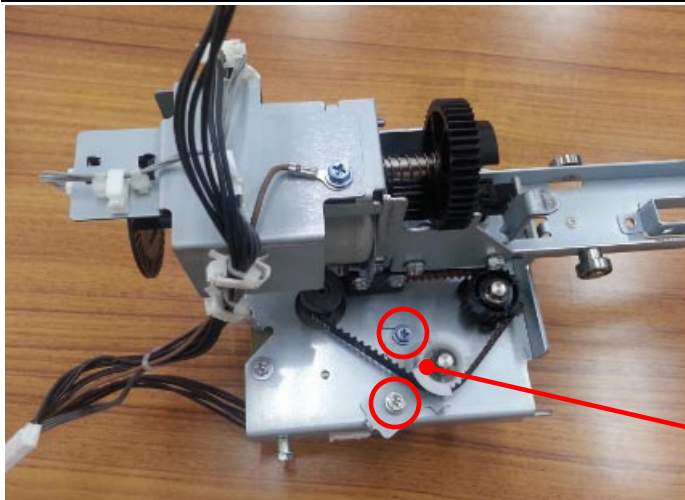


3. Remove the spring [A].

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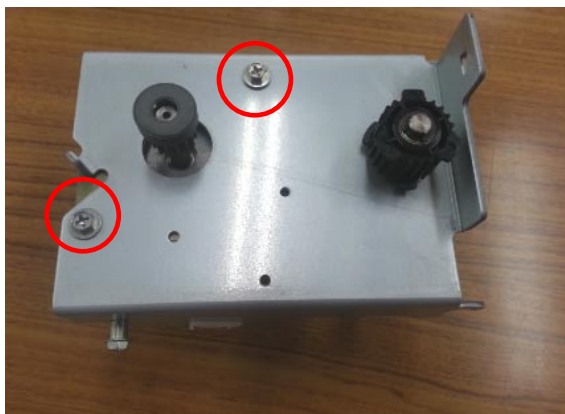


[A]

4. Remove the bracket and gear [A]. (screw x2)



5. Detach the motor bracket from the punch unit.

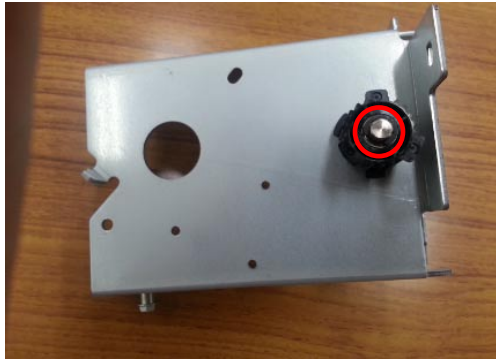


6. Remove the motor. (screw x2)

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7. Remove the gear. (E-type retaining ring x1)



8. Remove the harness clamp.

9. Attach the new bracket to the punch unit by following the above steps in reverse order.

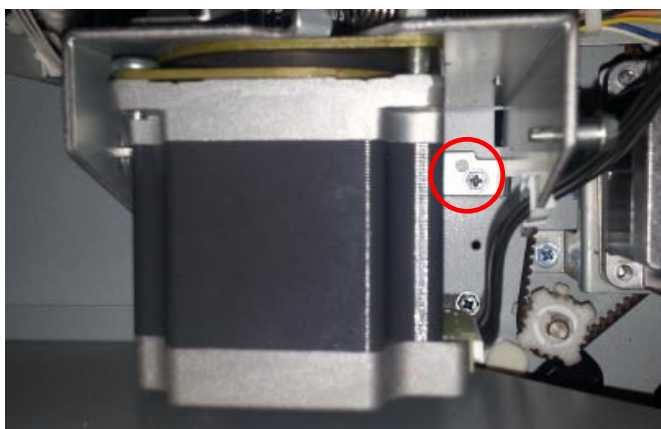
10. Install the punch unit with the new bracket on the finisher to complete the procedure.

See the following section of the service manual for the installation procedure:

2. *Installation > Finishers (D512/D513) > Punch Unit PU5020 NA, EU, SC (D449-17, -27, -28)*

or

2. *Installation > Finishers SR5050/SR5060 > Punch Unit PU5020 NA, EU, SC (D449-17, -27, -28)*


**Note**

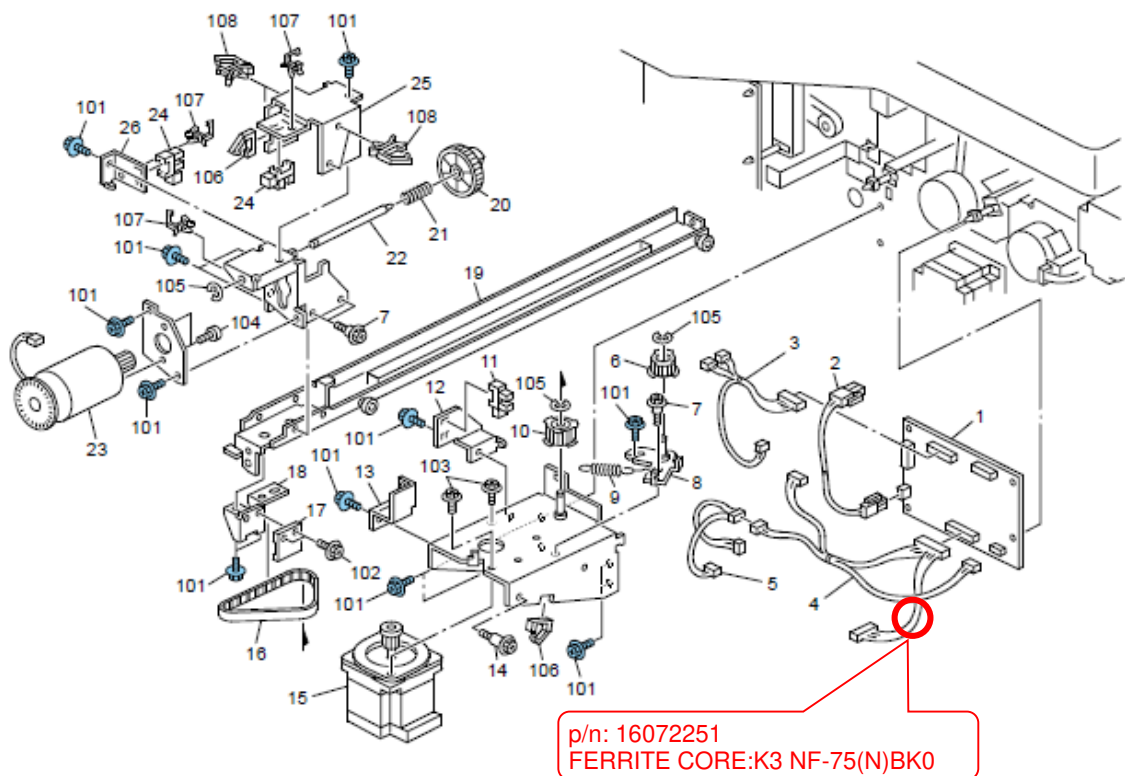
Only one of the two screw holes is used to attach the bracket to the finisher. The screw hole to be used will depend on the finisher type; old or new.

Model: Punch Unit PU5020		Date: 28-Nov-14	No.: RD449002
Subject: New service part – Ferrite core in the punch unit		Prepared by: J. Ohno	
From: PP Tech Service Dept., 3rd PP Tech Service Sect.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier2

The following part was registered as a new service part to reduce noise in the punch unit.

Old p/n	New p/n	Description	Q'ty	Int	Page	Index	Note
-	16072251	FERRITE CORE:K3 NF-75(N)BK0	1	-	5	28	Add

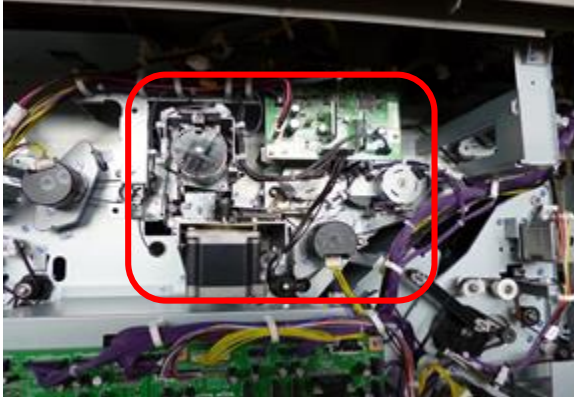
## 2.Punch Unit 2 (D449)



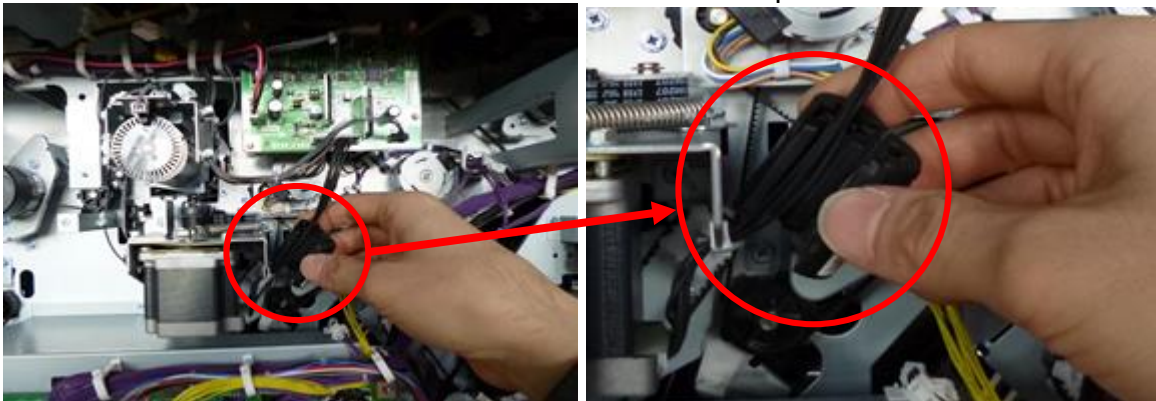


## Installation procedure

1. Open the rear cover and locate the rear side of the punch unit.

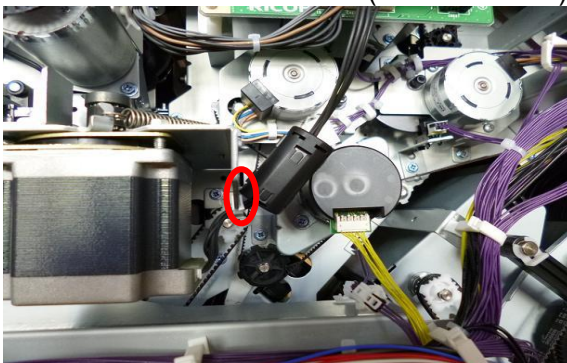


2. Attach the ferrite core to the harness connected to the punch movement motor.



NOTE: Work carefully to avoid pinching the harnesses.

3. To prevent the ferrite core from obstructing the surrounding drive components, fix its position as shown below. The ferrite core should have contact with the punch movement motor bracket (circled in red).



4. Attach the rear cover to complete the procedure.

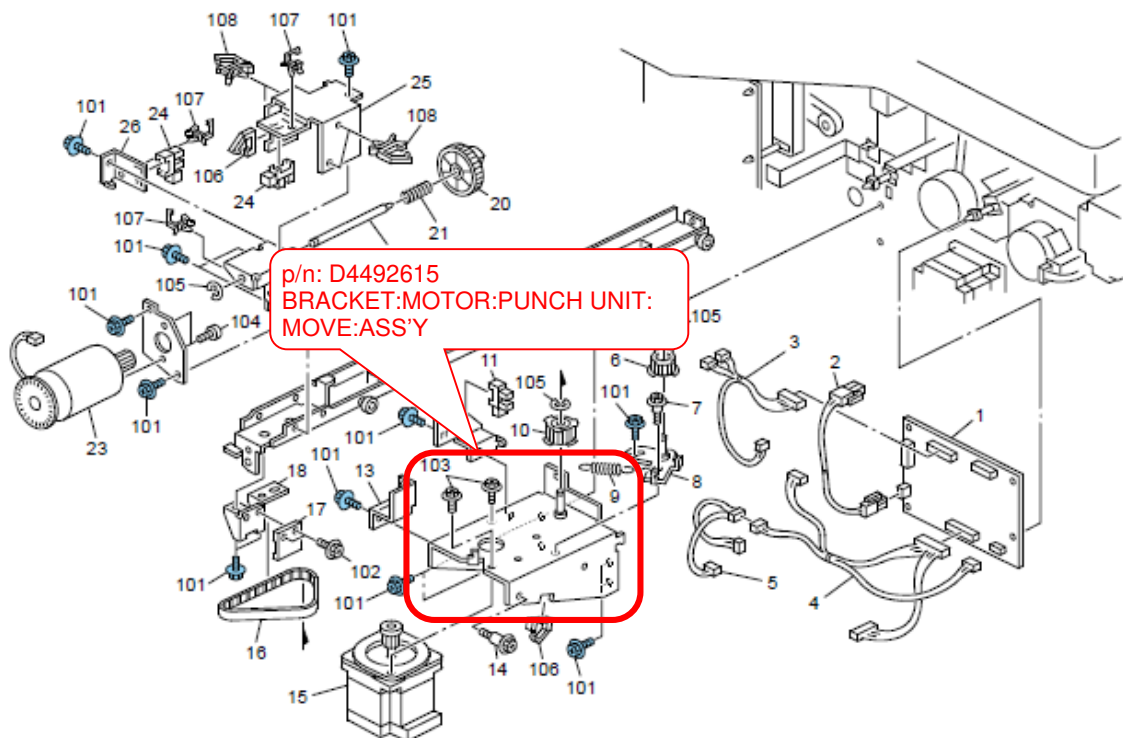
Model: Punch Unit PU5020		Date: 28-Nov-14	No.: RD449003
Subject: New service part – Motor bracket		Prepared by: J. Ohno	
From: PP Tech Service Dept., 3rd PP Tech Service Sect.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier2

**Change:** The shape of the bracket supporting the punch unit was modified and the modified bracket was registered as a service part.

**Reason:** Parts standardization

Old p/n	New p/n	Description	Q'ty	Int	Page	Index	Note
-	D4492615	BRACKET:MOTOR:PUNCH UNIT: MOVE:ASS'Y	1	-	5	27	Add

## 2.Punch Unit 2 (D449)



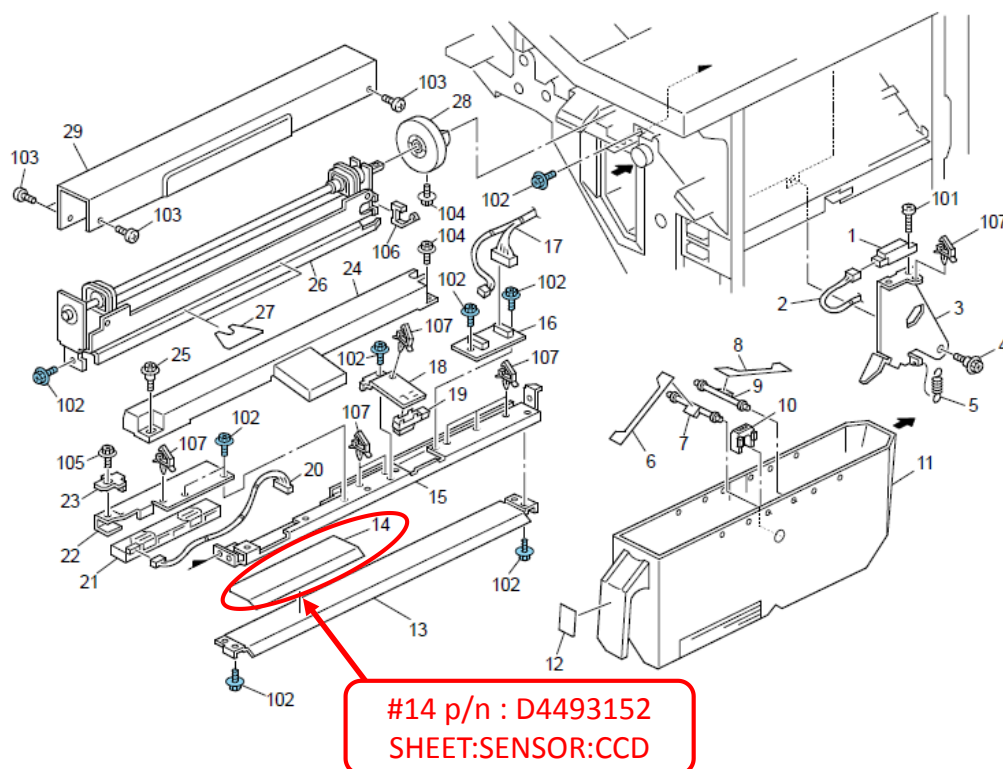
Model: Punch Unit PU5020 (D449)		Date: 7-May-15	No.: RD449004
Subject: Part change – Mylar of punch unit		Prepared by: T. Suzuki	
From: MFP Tech Service Dept.,2nd MFP Tech Service Sect.			
Classification:	<input type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input type="checkbox"/> Tier2

**CHANGE:** Modification of the mylar sheet covering the CIS on the punch unit

**REASON:** To prevent skews and jams caused by static electricity

Old p/n	New p/n	Description	Q'ty	Int	Page	Index	Note
D4493151	D4493152	SHEET:SENSOR:CCD	1	X/O	3	14	Change

## 1.Punch Unit 1 (D449)





Model: Punch Unit PU5020		Date: 8-Mar-17	No.: RD449005
Subject: New Service Part – Spring for PUNCH UNIT:4HOLE:NE		Prepared by: J. Ohno	
From: 1st Tech Service Sect., PP Tech Service Dept.			
Classification:	<input checked="" type="checkbox"/> Troubleshooting <input type="checkbox"/> Mechanical <input type="checkbox"/> Paper path <input type="checkbox"/> Product Safety	<input checked="" type="checkbox"/> Part information <input type="checkbox"/> Electrical <input type="checkbox"/> Transmit/receive <input type="checkbox"/> Other (     )	<input type="checkbox"/> Action required <input type="checkbox"/> Service manual revision <input type="checkbox"/> Retrofit information <input checked="" type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 0.5

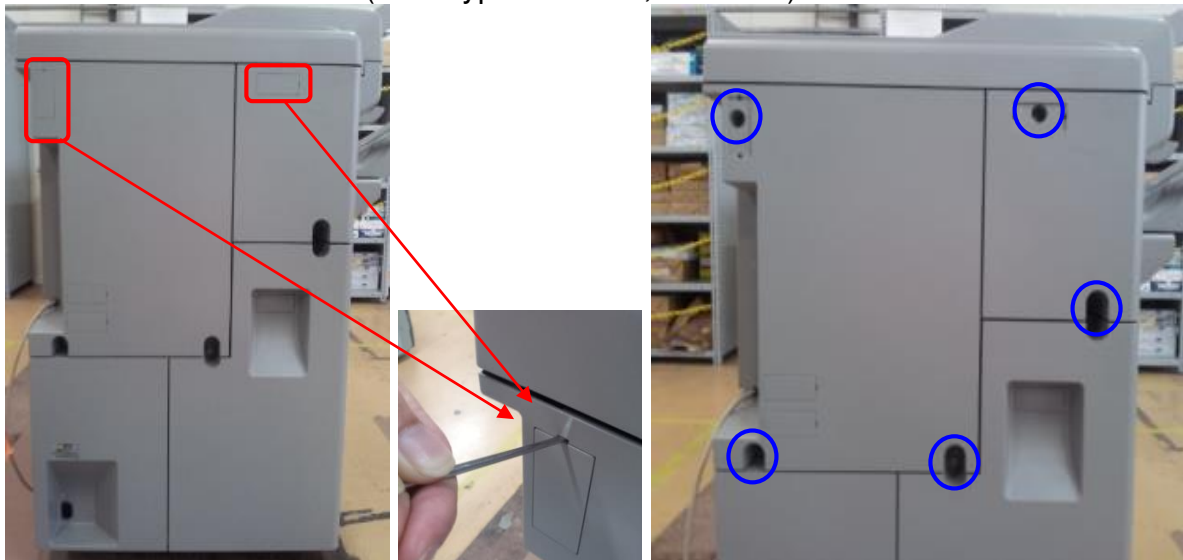
**Change:** The following spring was registered as a new service part for the 4-hole punch unit used in Northern Europe.

**Reason:** Adding this spring prevents Jam125 (punch drive error), which occurs when the punch pins catch the paper.

Old p/n	New p/n	Description	Q'ty	Int	Note
-	D4491926	COMPRESSION SPRING:PUNCH	4	-	Add

## How to Install the Spring

1. Turn OFF the main power of the printer/copier.
2. Remove the rear covers. (hook type cover x2, screw x5)

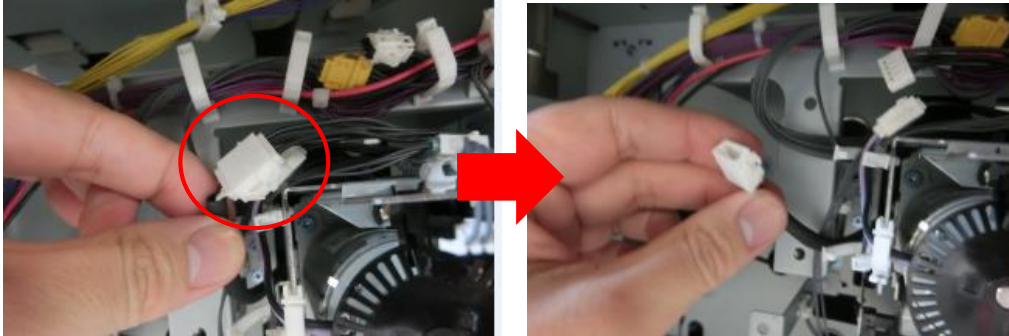


Model: Punch Unit PU5020

Date: 8-Mar-17

No.: RD449005

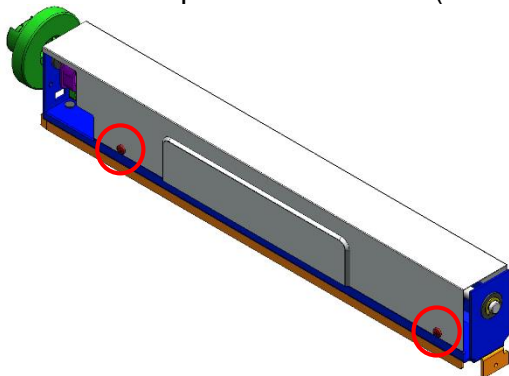
3. At the rear side of the finisher, disconnect this connector.



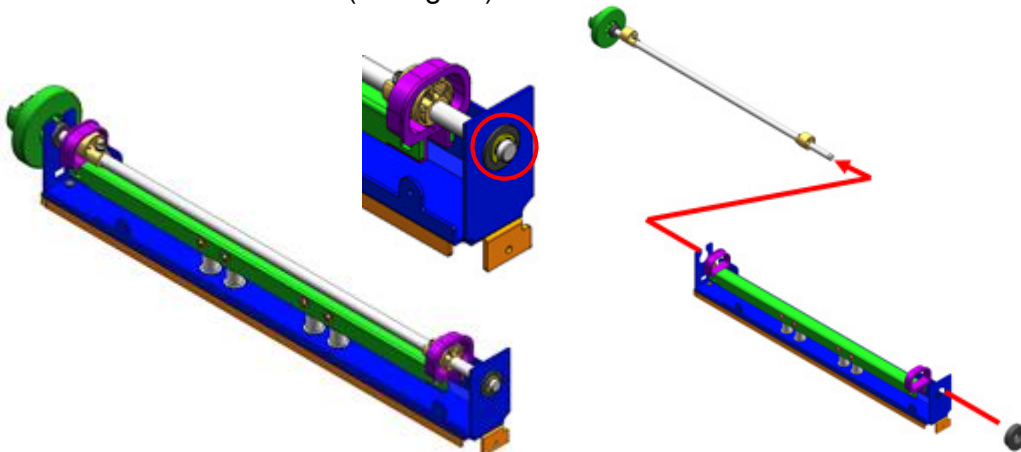
4. Open the front door of the finisher and pull out the punch unit. (screw x1)



5. Remove the punch unit cover. (screw x2)



6. Remove the drive shaft. (E-ring x1)

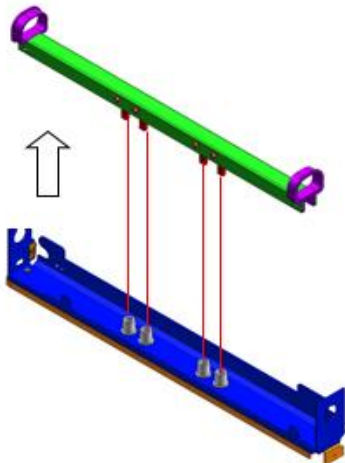


Model: Punch Unit PU5020

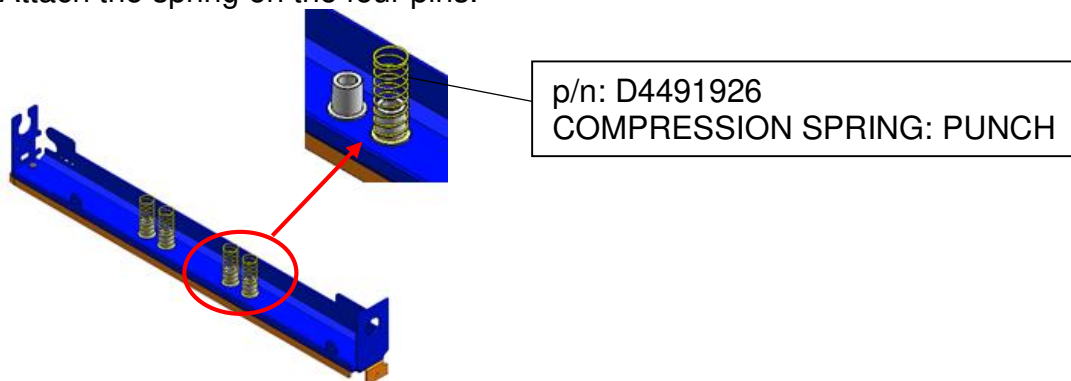
Date: 8-Mar-17

No.: RD449005

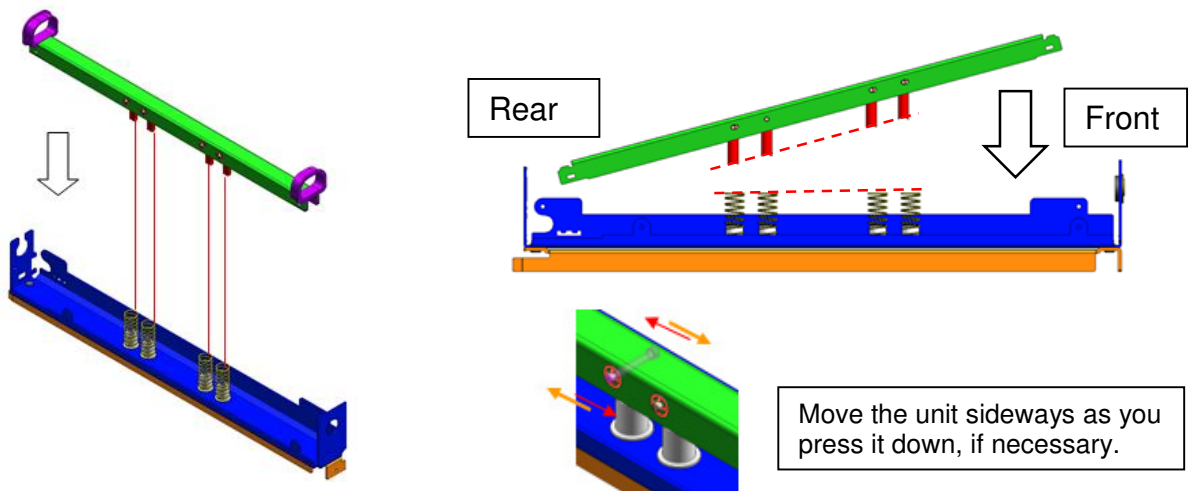
- Remove the puncher unit.



- Attach the spring on the four pins.



- Install the puncher unit. For easy installation, insert the rear side first.



- Put back the finisher by following Steps 2~6 in reverse order.