

## BP65 Feeder Module

### General Adjustment

Image F1 shows the main feeder module with the name of the different part.

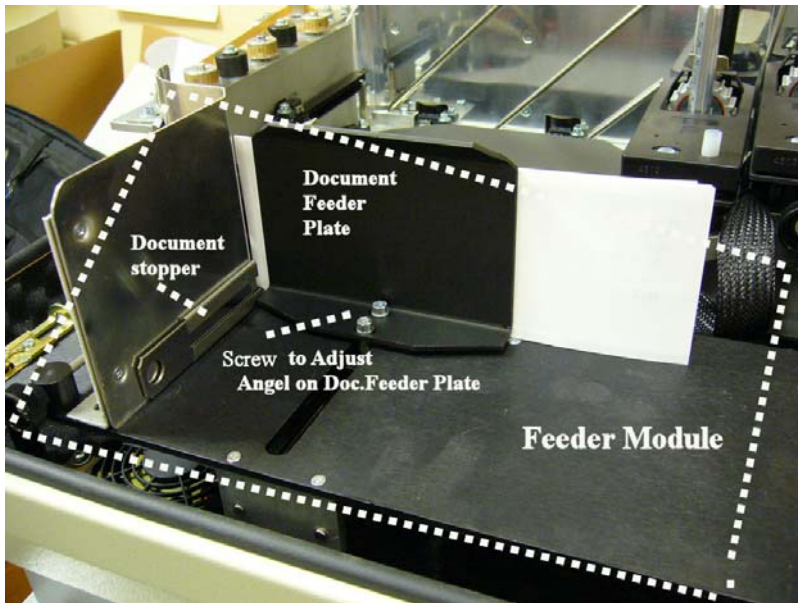


Image F26

The Document stopper is adjustable back and forth and can be used if you have problem with static electricity (if several cheques are feded at the same time into the separation wheel) it is to avoid that 20-30 sheets are fed at the same time.

The document feeder plate is to help the cheques to be fed into the machine; it should also help to straight out the cheques if they are curved.

The document feeder plate pressure is controlled by a spring, which you find below the unit. See Image F15.

By loosening the 2 screw, Image F25 you will be able to adjust the angle on the document feeder plate, normally it will be aligned from our factory, but if you have some cheques that are curved, you might want some extra pressure on the cheques in front or back, and then you can adjust the angle on the document plate.

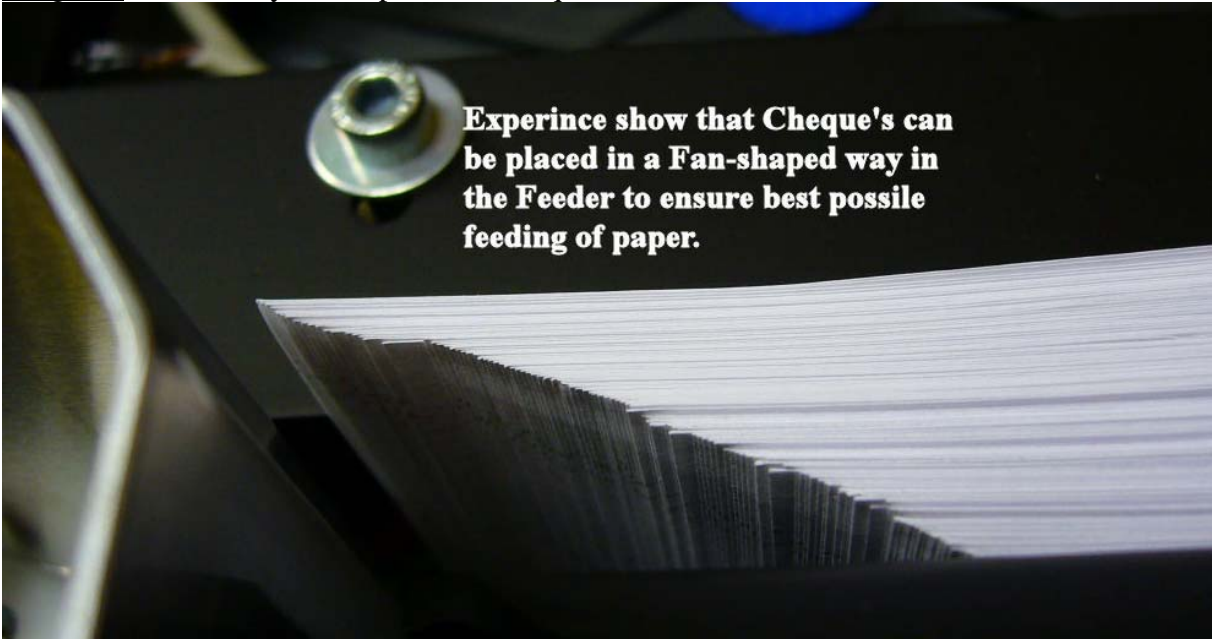
See Image F12



Image F25



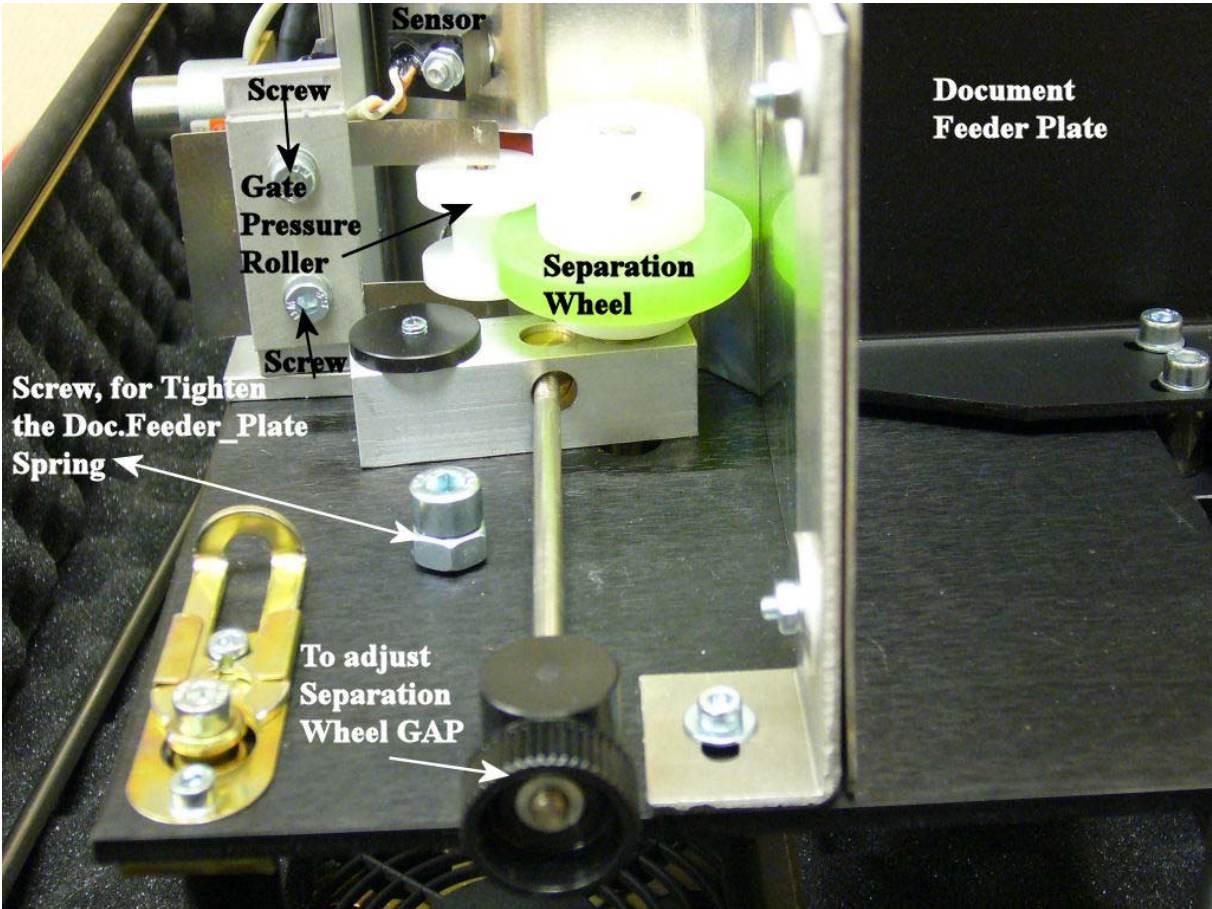
Image F5 show how you can place the cheques in Feeder



Experince show that Cheque's can be placed in a Fan-shaped way in the Feeder to ensure best possile feeding of paper.

First flip the cheques to get rid of static electricity, and shape them into a fan shape as in the picture.

Image F4 shows you the rest of the Feeder module.



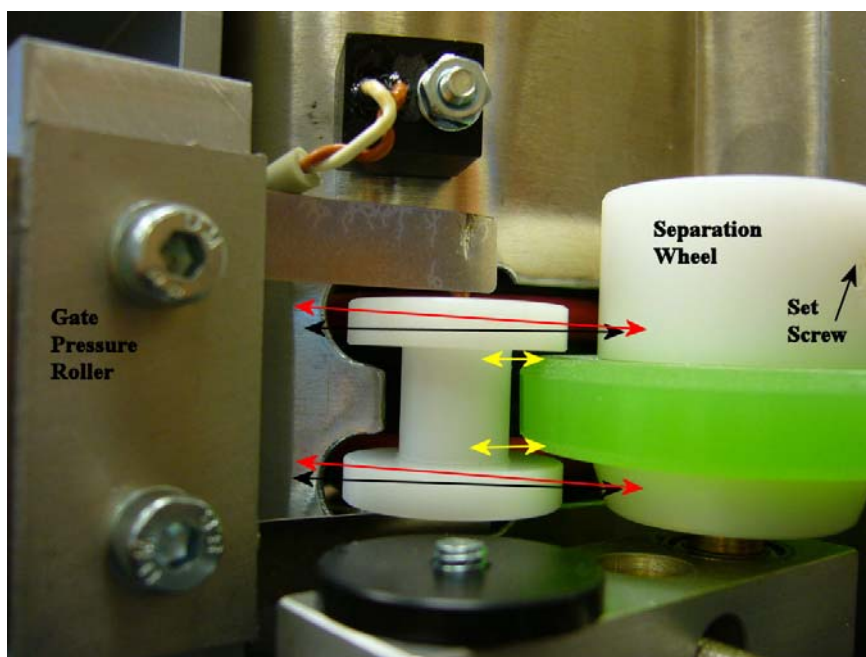
This picture shows you some important parts, for the feeder module.

You can see one part of the feeder sensor, the other part of the feeder sensor is on the other side, and you will see that in another picture.

The main purpose of the feeder sensor is to control the start and stop of the feeder motor and of course count all cheques that are printed. The Gate Pressure roller which you can see on the image is there to help the cheque to be fed into the machine. The gate pressure roller is adjustable, and should be aligned horizontally or a little bit downward to make sure that the cheque keeps its place at the bottom of the track. (See [image F6](#)) The green wheel is called Separation wheel, and main purpose is to prevent several cheques to be feeded at the same time, this wheel is also adjustable (see [image F10](#)) the wheel will turn clockwise to separate the cheques who are fed from the feeder. The black wheel is to adjust the GAP for the separation wheel.

The screw and nut you see in the picture is to adjust the spring strength on the document feeder plate (see [image F22](#) for adjustment)

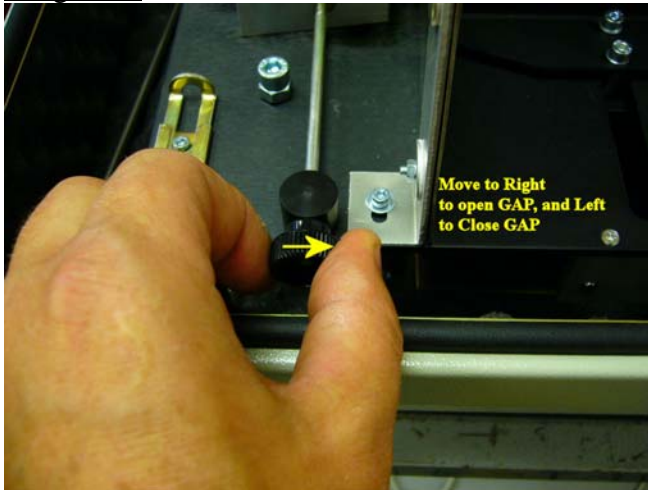
### Image F6



The gate pressure roller is adjustable, and should be aligned horizontally, as the black arrow or a little bit downward opposite of the red arrow to make sure that the cheque keeps its place at the bottom of the track. (See [image F6](#))

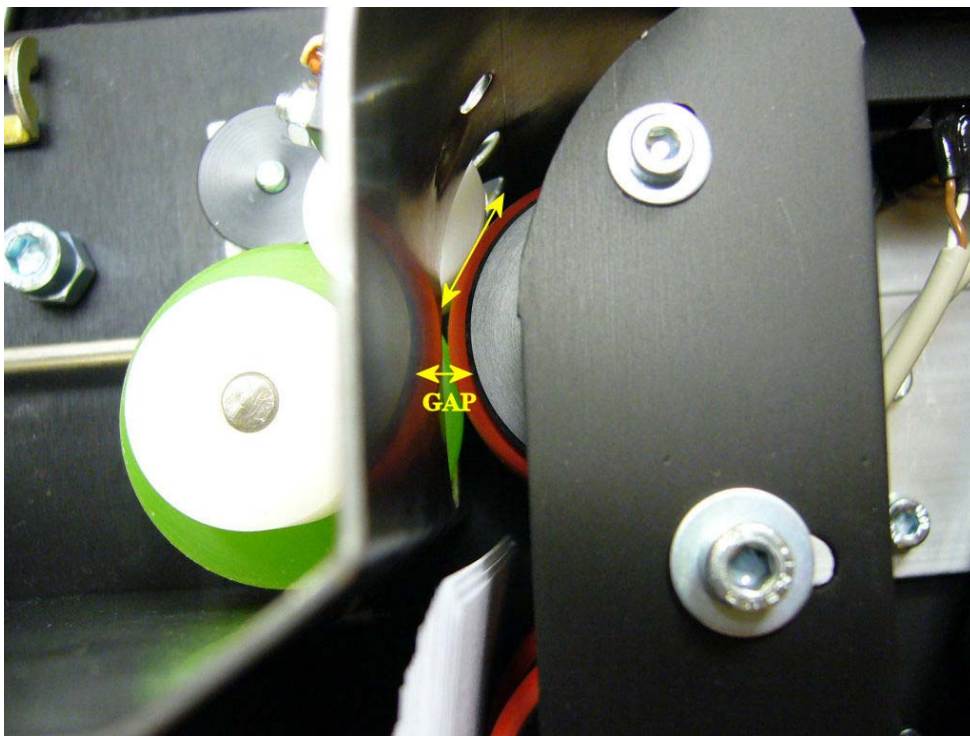
If adjusted like the red arrow, the cheque will rise and the code line will not be printed in the correct place, and the code line in MICR maybe printed skew.

Image F10



By adjusting this wheel you affect the GAP for the cheque, see [Image F7](#)

Image F7



If the GAP is too narrow the cheque will not be fed, and you will get an error message from the software (feeder empty) if the GAP is too wide it will result in double feeding (more than one cheque will pass at the same time).

Image F8

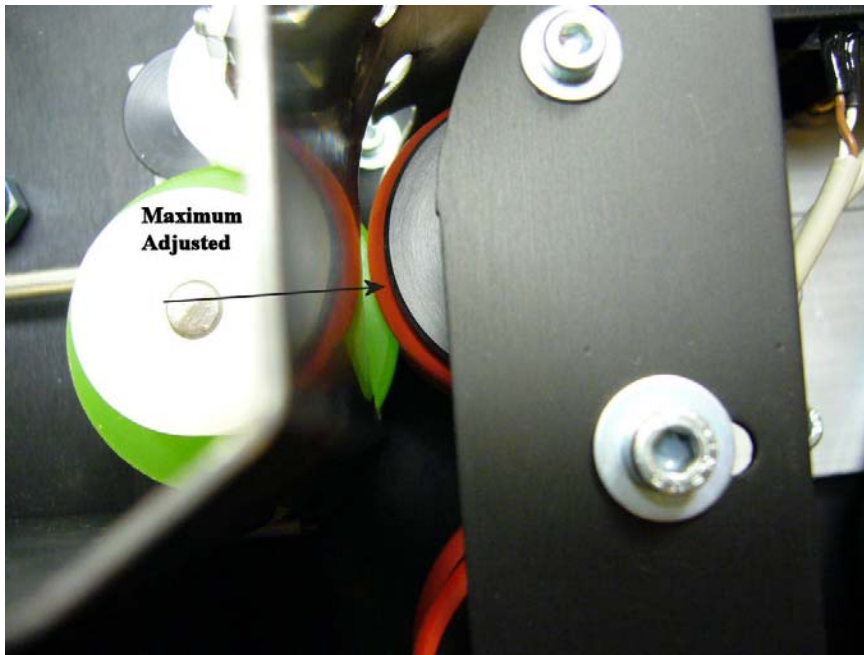
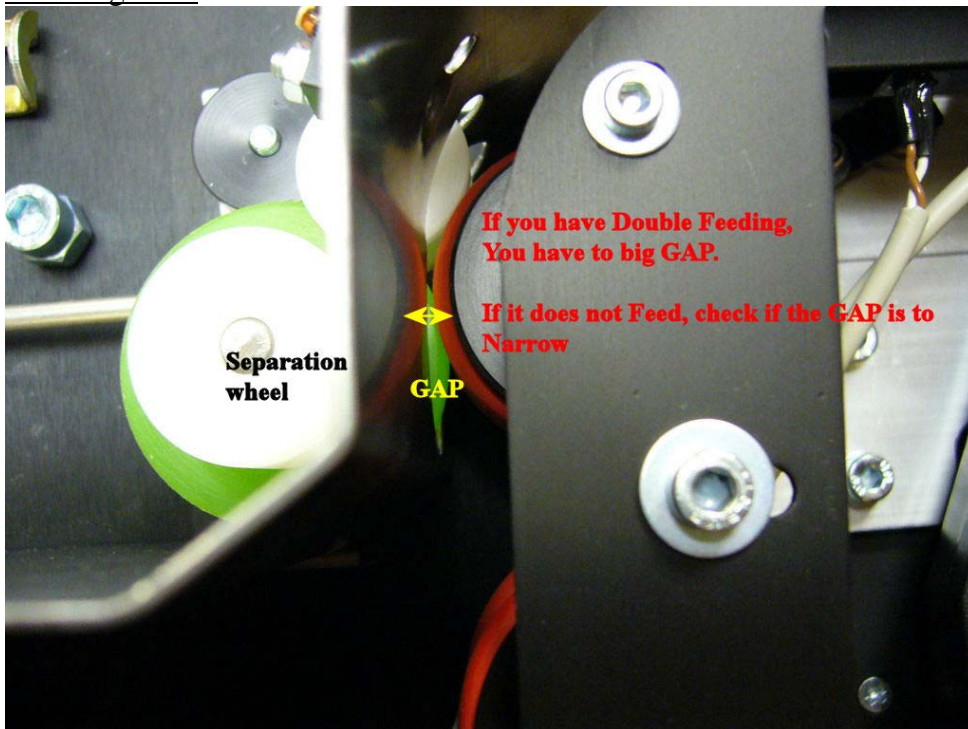


Image F8 show maximum adjusted, in this case no cheque will be able to pass the separation wheel, Please notice that the Green separation wheel will become slippery after a while because of the paper dust from the cheques, and it must be cleaned regularly, and in the end it has to be changed when it is worn out. When you install the machine you will have to adjust this gap according to the cheques you are using, adjust so that the cheques are fed easily, but not so that you experience double feeding. After a while when the wheel get worn out you will have to adjust a little bit again, so that the gap narrow and you still can feed cheques, but avoid double feeding.

See Image F11

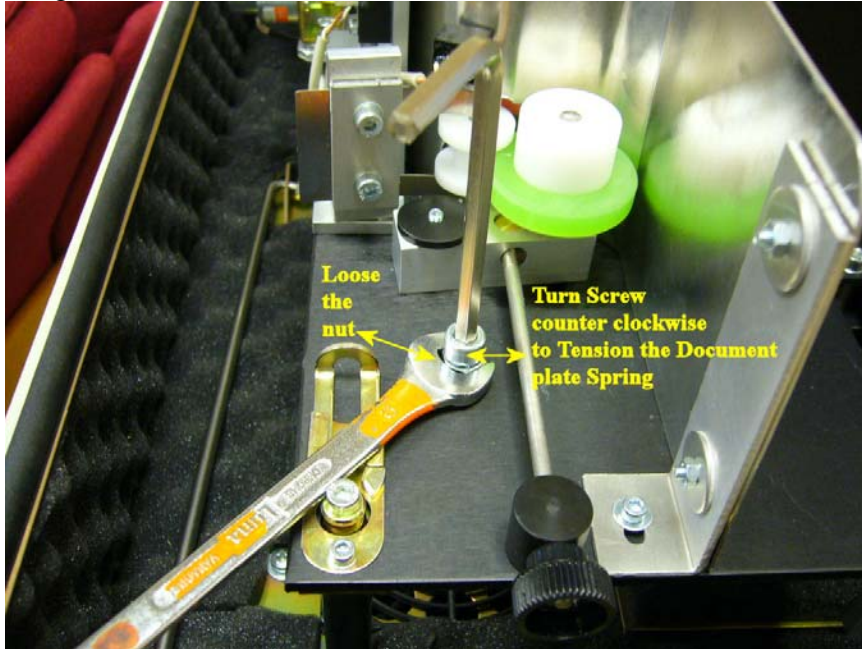


## Adjust spring tension for document plate

When do you need to adjust? Well that could depend on the cheques.

Let say that you are sure that you have the correct GAP but still you experience Double feeding, it could mean that the tension on the document feeder plate is to strong, so you have to reduce the tension, or it could be that it is not feeding, because the spring is to slack and the document feeder plate are not able to support the feeding of cheques.

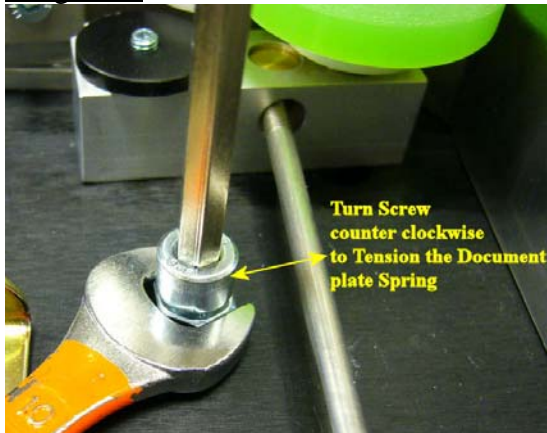
Image F22



Loose the nut a little bit, and use a proper tool to adjust the spring tension.

Turn clockwise to loose the tension, and counter clockwise to tighten the spring tension.

Image F23

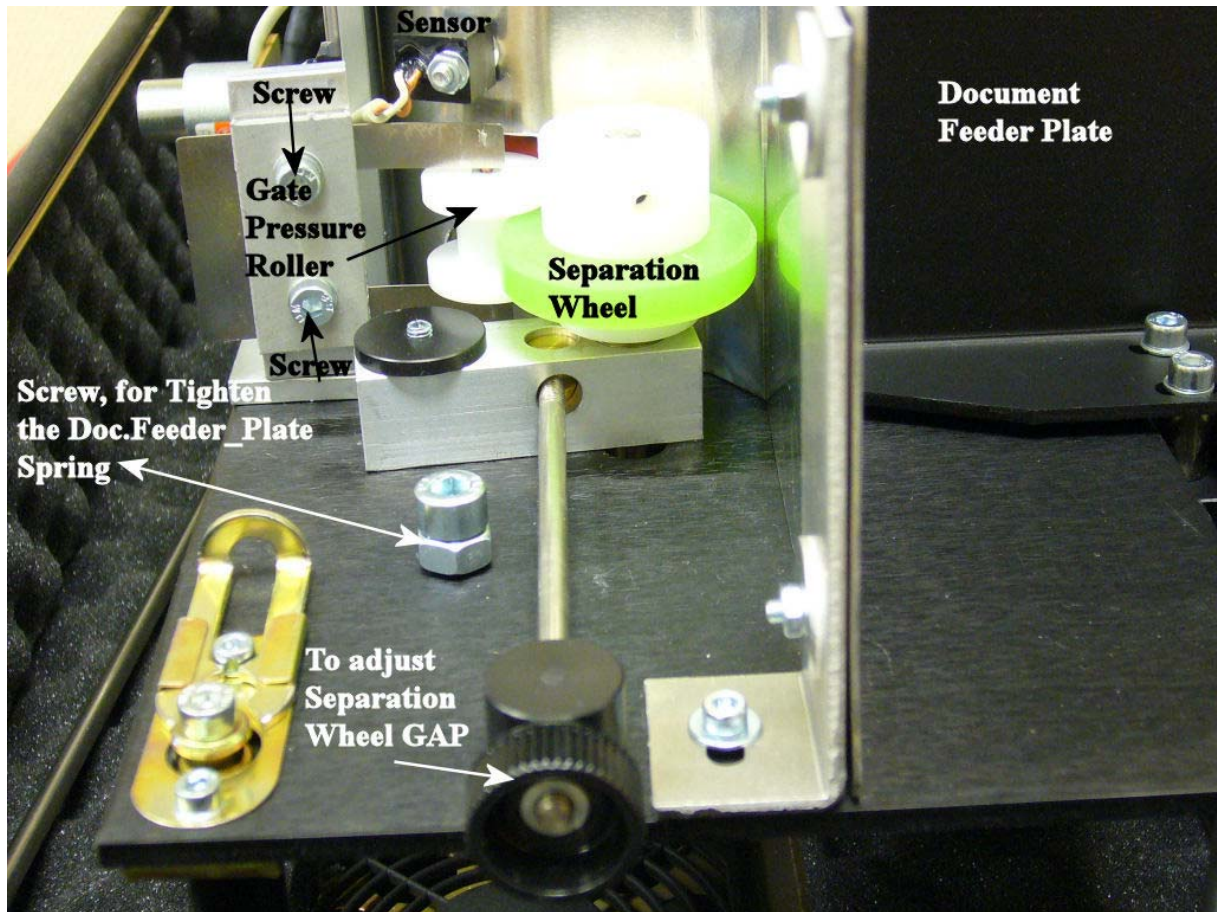


Part's that need to be cleaned and changed after a while is part's who is in constant contact with the paper, and which are under stress all the time, as for example, O-rings and Belt.

The separation wheel and the O-rings who are in contact with the cheque paper should be cleaned once each month.

## Change of parts.

The separation wheel (Green wheel) need to be changed when it does not longer is able to prevent double feeding because it is worn out.

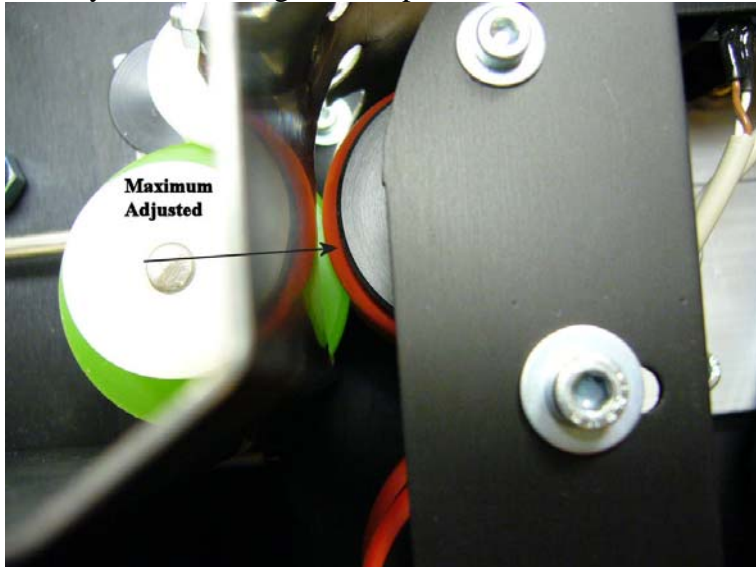


Loose the Gate pressure roller (red arrow below indicate where) Use the black wheel and turn it clockwise to get as big gap as possible, so that the wheel are free from the cover, then use a tool and loose the set-screw in the Separation wheel, then it is just to take off and replace with a new separation wheel.



## TIPS

When you have changed the separation wheel, do as follows:



Use the black wheel and turn so that the separation wheel get's it maximum position.

Then put back the Gate pressure roller, so that it almost touches the Separation wheel.



Then tighten the screw again for the Gate pressure roller. When this is done, you can adjust the separation wheel back again so that you get the GAP who gives you best feeding of cheques. This is the correct way of adjusting after you have changed the wheel.

If you don't do like this, it could happen that the gate pressure roller wheel get's to close, and when you later have to adjust the separation wheel closer, the separation wheel will put pressure on the Gate pressure roller, and make problem for the feeding, and also make some mark on the cheque paper.

### Change O - rings and Belt

As mentioned, the O-rings who is in contact with the cheque paper all the time, will get worn out and need to be changed when they no longer do their job.



When the cover and cheque guide shown above is removed, you can easily get access to the O-rings you need to change in the Feeder.

Image F18



You can just take off the O-rings and replace, in case you don't get it off you can remove the wheel to make it easier, by losing the Set-screw and take of the whole wheel.

Image F19



The long feeder O-ring is very easy to change, just take it off and replace with a new one.

Image F20



Image F21

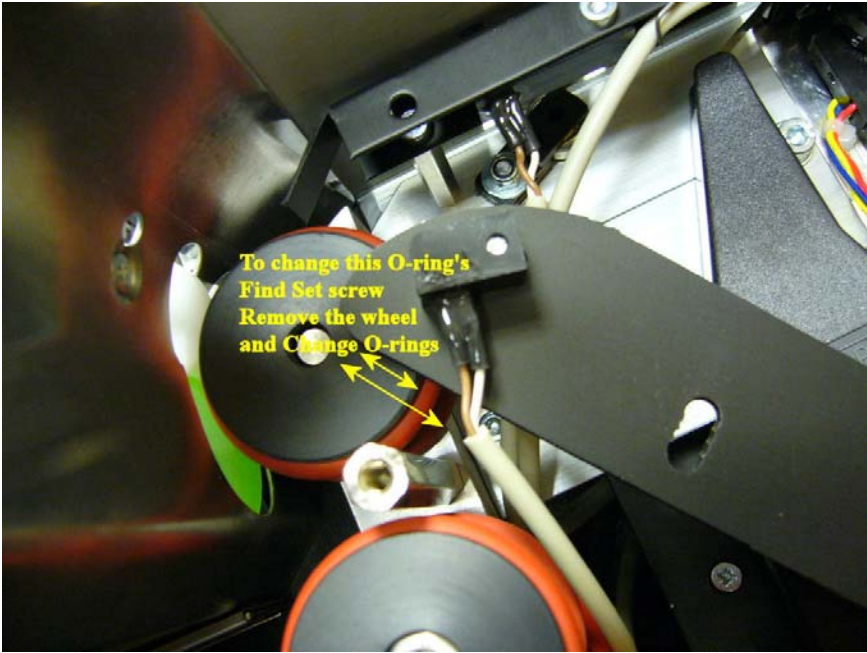
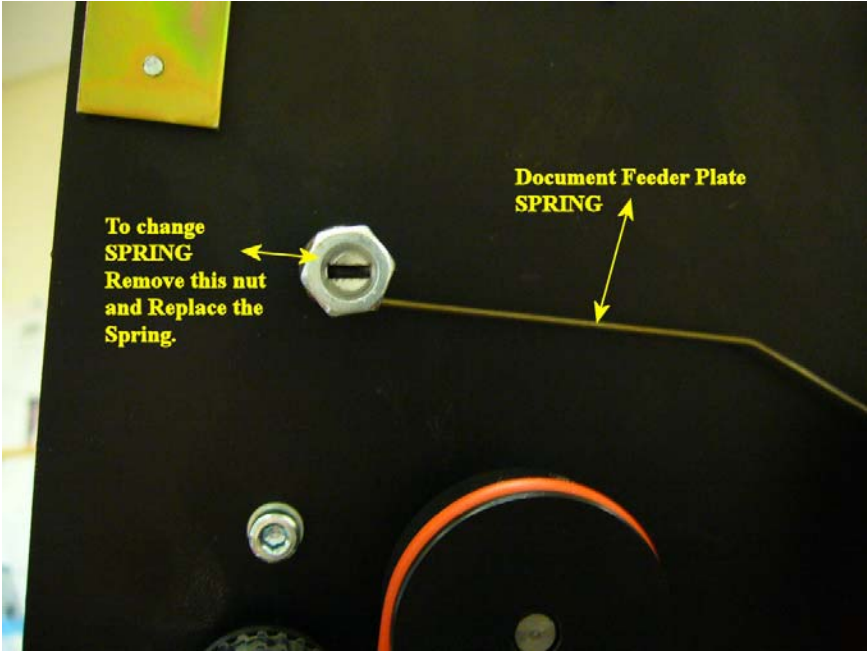
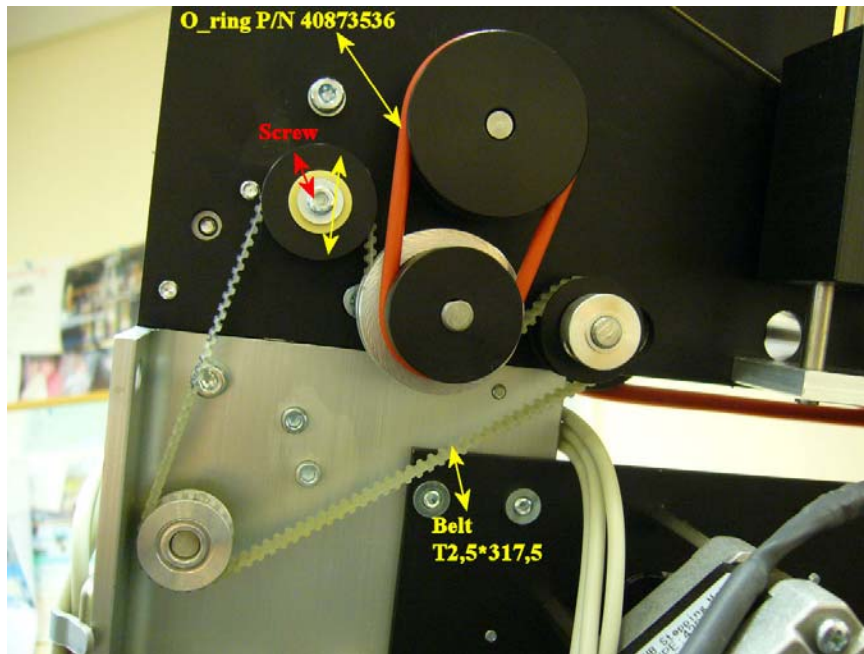


Image F15



This picture shows you how to replace the sprint for the Document Feeder plate.

Image F16



If the feeder does not feed at all, it could be that the O-ring as shown in the picture is broken, just lift up the whole mechanical unit and replace the O-ring, no tools are needed for this.

If you need to change the Belt, just loose the screw marked with Red printing, and slide the wheel down, replace the Belt and push the wheel back again and tighten the screw so that the belt get the correct tension.

Image F17

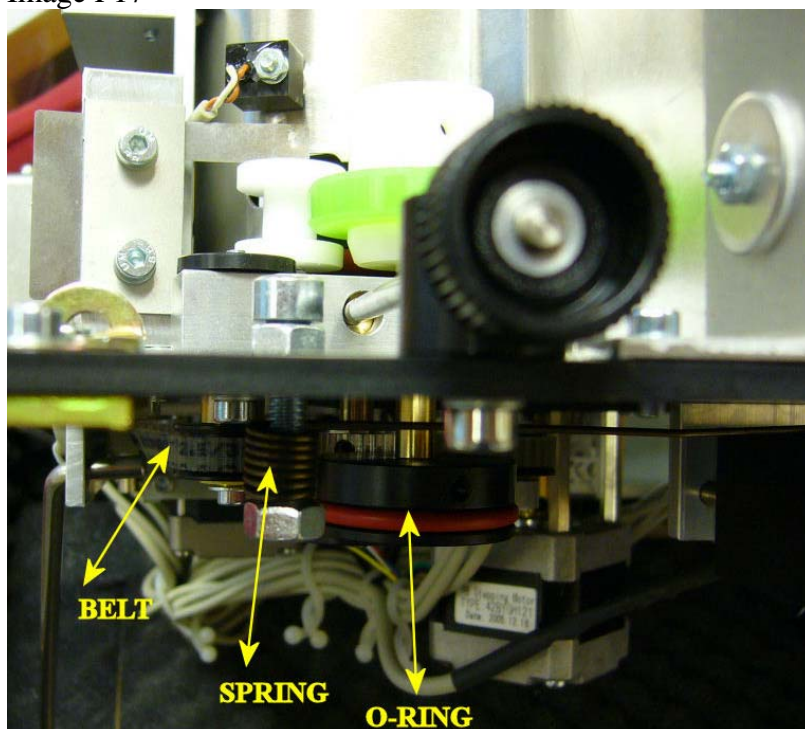
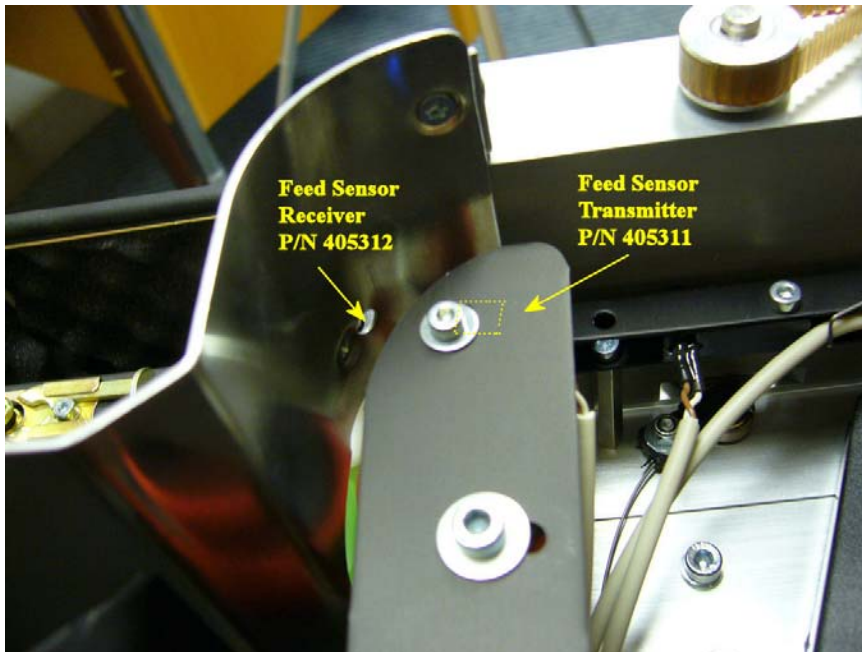


Image F13



IMPORTANT, when you have removed the cover, or if you experience any other error in feeder, always check the Sensor values for the feeder sensor, because a bad or not correctly adjusted sensor can give you many different errors.

Use the test program to check the sensor value, or use a Volt meter and measure the sensor values on the electronic board. See schematic for the electronic boards.

Image F24

