RICOH 1135/1435 TECHNICAL INSTRUCTIONS

FUTURE GRAPHICS

RICOHTECH

Technical Instructions | **Printers** | **OEM Info** | **Tools & Supplies** | **1**

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Ricoh Fax 1900L, 2000L, 2050L, 2900L, 3900L

SavinFax 3651, 3687, 3705, 3720, 3740

Gestetner 9870, 9873, 9877, 9920, 9940

Part Number: RICOH1135ENGINE
Gram Load: 190 grams
Yield @ 5%: 4,500 pgs
Pages/Min.: 6ppm
Resolution: 600 dpi

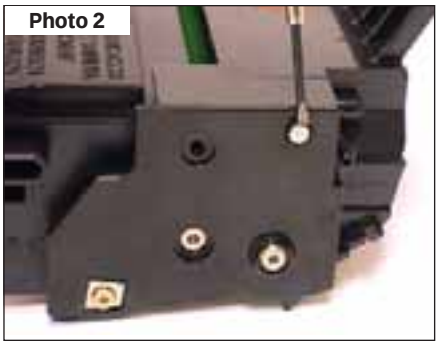
Needle Nose Pliers
#2 Phillips head screw driver
#2 Phillips head screw driver
#T-6 Torx driver
190g toner
Drum
Wiper Blade
Padding powder
Fuser Wand
Acetone
Swabs
Lint Free Cloth

Photo 1

Step 1

Using a small flat blade screwdriver remove the cartridge pins found on each end of the cartridge. (See Photo 1 and 2)

Photo 2

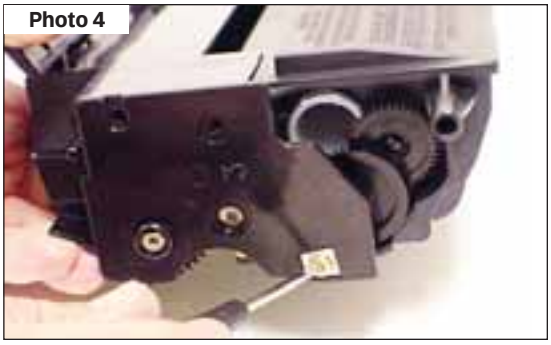


Step 2

Using a T-6 Torx driver, remove the two torx screws located on each side of the cartridge. (See Photo 3 and 4)

Photo 3

Photo 4



Notes:

Notes:

Notes:

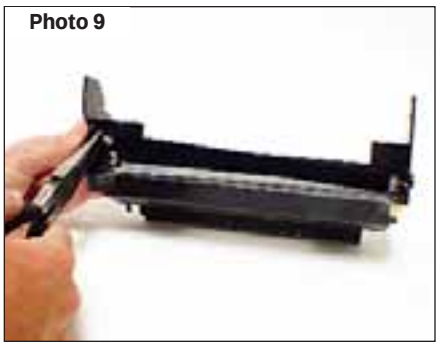
Photo 5

Photo 6

Photo 7

Photo 8

Photo 9



Step 3

To separate the two sections pry the ends of the waste hopper away from the toner hopper. (See Photo 5) Slide the waste section away from the toner hopper. (See Photo #6)

Step 4

Remove the drum axle by pushing the axle from the drive gear end of the cartridge and sliding it all the way through the waste hopper. (See Photo 7)

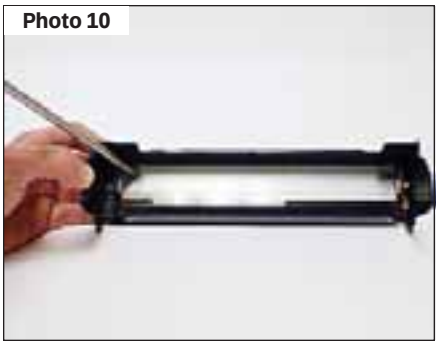
Step 5

Carefully remove the drum. (See Photo 8) Place the drum aside in a protected area out of the light.

Step 6

Using a pair of needle nose pliers remove the PCR from the saddle clips.
(See Photo 9) NOTE: Carefully clean the PCR using dry compressed air.

Photo 10



Step 7

Remove the two Philip screws holding the wiper blade. (See Photo 10)

Step 8

Remove the blade. Clean the wiper blade and the waste hopper using dry compressed air or a vacuum.

Photo 11

Step 9

Apply padding powder to the wiper blade, place the blade into the waste hopper and install the two screws that hold the blade in place. (See Photo 11)

Photo 12

Step 10

Clean the PCR saddles using a swab and alcohol.

Step 11

Place the cleaned PCR into the waste hopper. (See Photo 12)

Photo 13

Step 12

Apply padding powder to the drum. Place the drum into the waste hopper, slide the drum shaft through the drum starting on the non- gear side. (See Photo 13)
NOTE: The drum shaft is keyed and must be positioned correctly in order to slide through the wall of the waste hopper on the drive gear side.

Photo 14

Step 13

Set the waste hopper aside in a protected area out of the light.

Step 14

Remove the six gears from the end of the toner hopper. (See Photo 14)

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Photo 15

Step 15

Remove the screw holding the developer roller locking end plate. (See Photo 15)

Photo 16

Step 16

Using needle nose pliers squeeze the locking tabs that hold the locking plate to the toner hopper. (See Photo 16) Remove the locking plate.

Photo 18

Photo 17

Step 17

Rotate the cartridge 180°. Remove the screw holding the developer roller locking end plate to the cartridge.
(See Photo #17)

Remove the copper developer roller contact. (See Photo 18)

Photo 19

Step 18

Using needle nose pliers squeeze the locking tabs that hold the locking plate to the toner hopper. (See Photo #19)
Remove the locking plate.

Photo 20

Step 19

Using a small flat blade screwdriver pry the developer roller bearing from the shaft of the developer roller on the contact side of the hopper. (See Photo 20)

Photo 21

Step 20

Lift the developer roller by the shaft and slide the roller away from the gear side of the toner hopper. (See Photo 21)

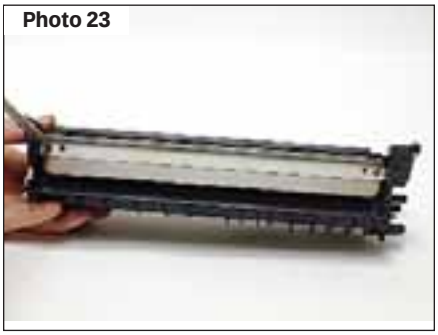
NOTE: Clean the developer roller using dry compressed air and a lint free cloth.

Do not lose the developer roller bearing that fit on the shaft of the roller on the gear side of the hopper. (See Photo 22)

Photo 22

Notes:

Photo 23



Step 21

Remove the two screws holding the doctor blade. (See Photo 23)

Notes:

Photo 24

Step 22

The doctor blade consists of three parts. First using needle nose pliers remove the metal bracket that holds the doctor blade in place. (See Photo 24) Next, remove the doctor blade. (See Photo 25) Lastly using needle nose pliers remove the metal bracing bracket. (See Photo 26)

Notes:

Photo 25

Photo 26

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Notes:

Photo 27

Step 23

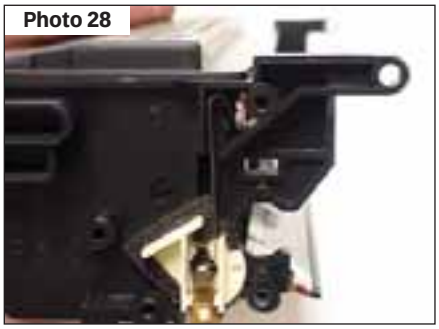
Carefully clean the doctor blade using Acetone and a swab.

Step 24

Remove the fill plug from the hopper. (See Photo 27)

Notes:

Photo 28



Step 25

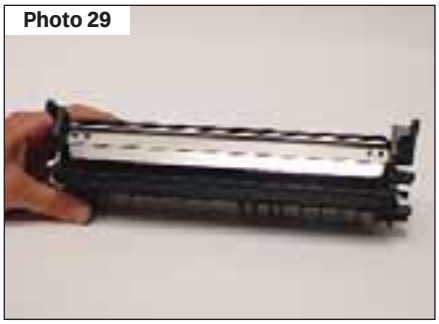
Clean the toner hopper using dry compressed air or a vacuum.

Step 26

Place the metal bracing bracket on to the toner hopper. The contact post on the end of the bracket must hit the contact on the end of the hopper as shown in photo 28.

Notes:

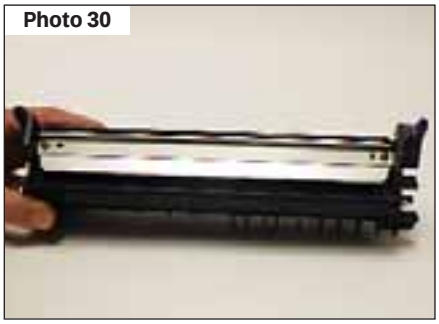
Photo 29



Step 27

Place the doctor blade and the holding bracket onto the toner hopper.
See Photo 29)

Photo 30



Step 28

Install the two screws that hold the doctor blade assembly.

(See Photo 30)

Notes:

Photo 31

Step 29

Slide the gear end of the developer roller through the end of the toner hopper.
If the developer roller bearing was removed slide the bearing onto the shaft of the developer roller.

(See Photo 31)

Photo 32

Step 30

Install the developer roller bearing onto the shaft of the roller on the contact side of the hopper.

(See Photo 32)

Photo 33

Step 31

Place the developer roller locking end plate on the end of the developer roller on the contact side of the hopper. Place the developer roller contact onto the end of the developer roller and install the screw that holds the contact in place.

(See Photo 33)

Photo 34

Step 32

Place the developer roller locking plate onto the end of the developer roller on the gear side of the hopper and install the screw that hold the locking plate in place.

(See Photo 34)

Photo 35

Step 33

Fill the toner hopper using 190 grams of toner. Install the fill plug.

Step 34

Install the six gears onto the end of the hopper. (See Photo 35)

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Photo 36

Photo 37

Step 35

Join the toner hopper and waste hopper together again. Install the cartridge pins on each side of the cartridge.

(See Photo 36 and photo 37)

Notes:

Photo 38

Photo 39

Step 36

Using a Torx T-6 driver install the two screws into ends of the cartridge.

(See Photo 38 and photo 39)

Notes:

Notes:

FUTURE GRAPHICS

RICOH 1135/1435

ENGINE FACT SHEET

Back in 1998, Ricoh released a family of machines based on the Ricoh 2000L engine. The Ricoh Fax 1900L, 2000L, and 2050L are all considered by Ricoh as low volume machines rated at6 pages per minute and a monthly duty cycle of only 1,500 pages. Ricoh's mid volume machines, the 2900L, 2900LI, 3900L, and the 3900NF print at a speed of 10 pages per minute and have a monthly duty cycle of 2,000 pages per month.

The Ricoh 2000L engine uses the Type 1135 or Type 1435 (if outside of the US) cartridge, an all in one cartridge design which is not normally found in Ricoh machines. The Type 1135/1435 cartridge is capable of printing 4,500 pages at 5% coverage and contains 190 grams of toner. The only difference between the Type 1135 and Type 1435 cartridges is in the tab found on the handle of the cartridge. This feature can be used to identify which machine the cartridge will fit.

Figure 1 shows a picture of the identification tab of the Type 1135 cartridge. Note the distance the arm is away from the handle (5/16"), and the letter "B" is found on the ID tab. On the Ricoh Type 1435 cartridge (not shown) the arm is 9/16" away from the handle and the letter "A" is found on the ID tab.

Rich 1135/1435

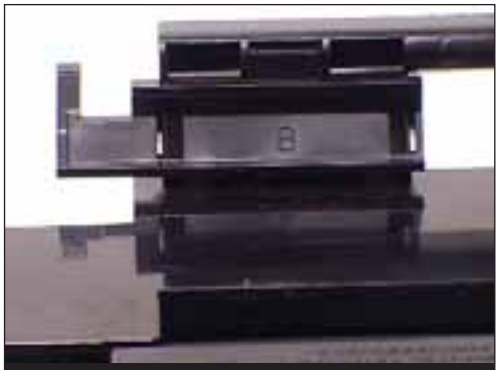

Figure 1