

# Epson® ActionLaser II Toner Unit



Oasis Imaging Products, Inc. Technical Support: (888) 627-6555

## Reference Information:

OEM PN: S050002

OEM Yield: 5,000 (5% image area)

## Recommended Tools:

Phillips head screwdriver

Small flathead screwdriver

Hot melt glue gun or RV silicone adhesive

## Approximate Remanufacturing Time:

15 min.

## Operational Theory (Figure 1):

The printer uses an electro-photographic process. A uniform negative charge is applied to the OPC belt by the main charger. The negative charge dissipates where the laser beam is exposed to the OPC belt surface. As a result, a latent image is retained on the OPC belt surface. A doctor blade in the toner cartridge limits the amount of toner applied to the developer roller. As the developer roller comes in contact with the OPC belt, the negatively charged toner is attracted to electrostatic latent image. This attraction occurs due to the low surface potential of the exposed areas on the OPC belt in comparison to the unexposed areas. This process makes latent image visible. The transfer charger applies a high uniform charge to the back-side of the paper. As the paper passes between the OPC belt and the transfer charger, the negatively charged toner particles are attracted to the paper. After transfer, a quenching LED neutralizes the OPC belt surface potential. Additionally, the cleaning blade scrapes the unused toner from the OPC belt where it is collected in the unused toner compartment by the toner collection spring. It drops into the toner cartridge through the toner collection hole and is transported into the toner cartridge's unused toner tank. The toner image on the paper then passes between the hot roller and pressure roller to fuse the toner to the paper surface.

The message "TONER LOW" appears on the LCD to warn the user that a low toner condition exists and 20 more prints can be made before the printer will no longer print. The message "TONER OUT" appears on the LCD to inform the user that the toner cartridge must be replaced.

## Instructions:

1. Remove the drain hole cover on the unused toner tank (Fig. 2). Open the toner collection shutter and vacuum the waster toner.
2. Replace drain hole cover (using hot melt glue gun or RV silicone adhesive).
3. Flip the developer cover back (Fig. 3) and remove the two (2) screws holding the development roller. Lift the roller from the toner cartridge.
4. Clean the toner hopper through the opening of the development roller. Be sure to remove **all** old toner. Also, be careful not to damage the quenching brush or doctor blade.
5. Fill the toner hopper with toner through the opening of the development roller. Spin the toner agitator to move the toner into the toner hopper.
6. Install the development roller (2 screws) into the toner cartridge. Flip the developer cover closed.
7. Remove the clear, shield lens (located near the main charger). Clean the lens of all toner. This will prevent hazy background prints.
8. Install clear shield lens.

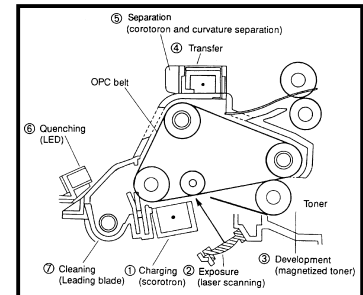


Figure 1

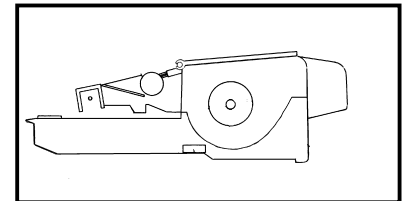


Figure 2

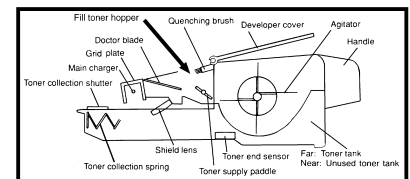


Figure 3

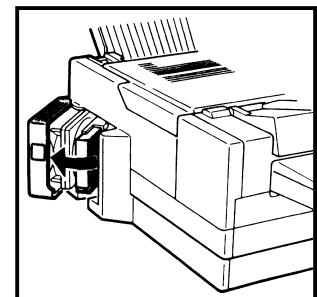


Figure 4

**Note:** It is recommended to replace the ozone filter each time the toner cartridge is replaced. To replace the ozone filter:

- a. Make sure the printer is off.
- b. Open the fan cover located on the left side of the printer (Fig. 4).
- c. Pull the filter out of the printer.
- d. Install the new filter.
- e. Close the fan cover.

Also, it is recommended to clean the transfer charger wire (located on the photo-conductor unit) each time the toner cartridge is replaced. Refer to the printer manual for additional instructions.