

TECHNICAL DOCUMENT



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Sharp AR-200 Toner Cartridges

DOC-0257

OVERVIEW



The Sharp AR-200 toner cartridges are used in the Sharp AR-160/161/200 and 205 printer/copier/fax machines. These machines are 16-20ppm digital copiers that can print on a maximum size of 11" x 17" paper. The cartridge is rated for 15,000 pages at 5% coverage. List price for the Ar-200TD is \$248.00 with a current dealer price of \$160.51

These cartridges are unique in that they are designed to be recycled by Sharp technicians. Sharp sells a kit of 10 toner refills and a separate kit of 10 developer refills to their authorized distributors so that they can refill them.

Finally a profitable cartridge with no worry about the OEM manufacturer de-engineering it!

There have been two major updates to these cartridges by Sharp, the first is the Developer retaining blade, this blade should be replaced every cycle. The developer blade is easily damaged, and if bent or worn, will allow toner/developer to leak out. The second is the small felt pads on either side of the magnetic roller, or DV Side Sheets as Sharp calls them. On older cartridges these felts will allow developer to build up, and wear out the drum causing a short. The older felts are black in color. The replacements are White. The Sharp bulletin #'s for these updates are AR-160-008 and AR-160-014 respectively.

This procedure should be read in it's entirety before proceeding with the actual recycling process.

TOOLS REQUIRED



- Phillips head screw driver
- Needle Nose Pliers
- Vacuum approved for toner removal
- Safety goggles and breathing mask

WARNING: Always wear safety goggles and breathing mask when working with or around toner. Do not disperse the toner into the air. Use approved toner vacuums and filters at all times.

SUPPLIES REQUIRED



- Black Toner 610g
- Developer 395g
- New Developer Blade (See text)
- New Developer Side Sheets (Side felt pads)

DISASSEMBLY



1. Remove the waste chamber on the end of the cartridge by removing the three Phillips head screws. Empty any toner from this housing into the garbage bag, and vacuum clean. **See Figure 1.**
2. Separate the toner housing from the developer housing by removing the two BRASS screws on the clear plug side of the cartridge. Carefully separate the two halves. **See Figures 2 & 3.**



FIGURE 1

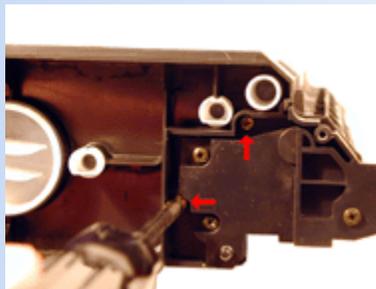


FIGURE 2



FIGURE 3



FIGURE 4

Be very careful not to damage the developer blade during this process. If the blade does become damaged, or it is bent, it should be replaced. These blades have a tendency to bend down at the edges after 1 or 2 cycles. If there is any doubt, replace the blade. Make sure that all of the old adhesive has been removed before installing the new blade. **See Figures 5 & 6.**

NOTE: If this blade is not perfectly straight, the cartridge will leak!

3. Remove the developer from the developer unit by holding the unit at an angle and rotating the roller backwards. Vacuum the developer of the roller and rotate until clean. **See Figure 4.**
4. Add the new developer into the auger area. Turn the auger/roller to distribute the developer. Wipe any excess developer from the foam seal around the developer housing before re-assembly. **See Figure 7.**

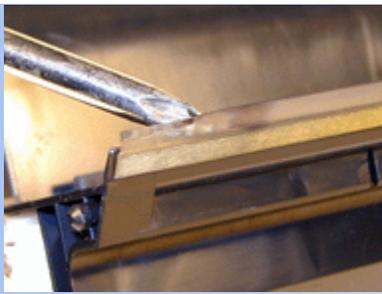


FIGURE 5



FIGURE 6



FIGURE 7

5. Attach the developer unit to the toner supply. Make sure that the two alignment pins on the gear side of the toner supply align with the two holes on the gear side of the developer unit. **See Figures 8 & 9.**
6. Install the two brass screws that hold the developer section in. **See Figure 2.**
7. Remove the fill plug from the toner supply. While looking into the fill hole, turn the gear on the back of the housing counterclockwise to stop the toner hopper shaft at the vertical position. **See Figures 10 & 11.**

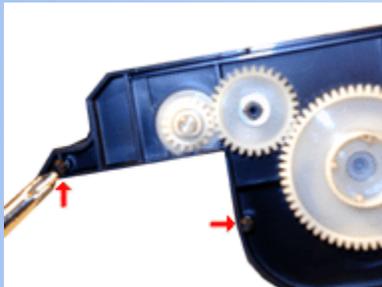


FIGURE 8



FIGURE 9



FIGURE 10

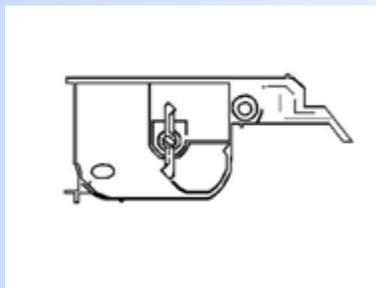


FIGURE 11

8. Shake the toner bottle well and pour the toner into the hopper, replace the fill plug. **See Figure 12.**
9. Make sure that the developer blade is straight and sits on top of the foam ends. Also make sure that the developer

blade does not touch the magnetic roller. **See Figure 13.**



FIGURE 12

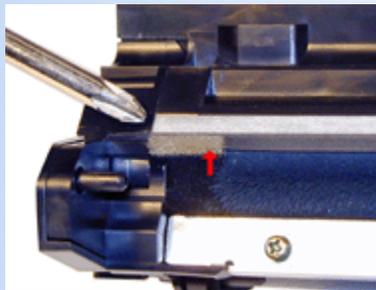


FIGURE 13

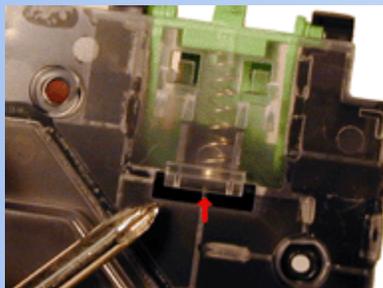


FIGURE 14

10. Install the cleaned waste hopper making sure that the tab on the clear side of the chamber fit over the cartridge edge. Install the three screws. **See Figures 15 & 16.**
11. Check the color of the Developer Side sheets, or side Felt Pads. The old style felts are black, the new are white. The old black felts tend to allow the developer to build up and wear the drum surface. The new white felts take care of this problem. **See Figures 17 & 18.**



FIGURE 15

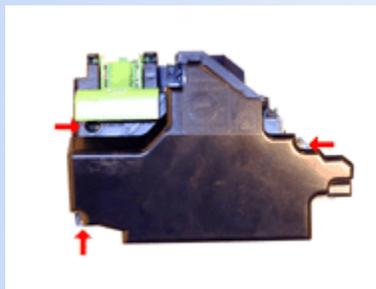


FIGURE 16



FIGURE 17



FIGURE 18

12. Sharp has kindly provided a series of 5 boxes to be checked off as the cartridge is recycled. Put a single slash mark across each box as the cartridge is done. At the 6th cycle start over and make the slash mark into an X. Sharp feels that 5 times is the maximum number that these cartridges can be rebuilt. Our testing so far indicates that the cartridge will operate properly well past that point. **See Figure 19.**



FIGURE 19

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RECOMMENDED SUPPLIES



Microsoft OLE DB Provider for ODBC Drivers error '80004005'

[Microsoft][ODBC Microsoft Access Driver]General error Unable to open registry key 'Temporary (volatile) Jet DSN for process 0x698 Thread 0x1164 DBC 0x97a3ffc Jet'.

/script/catSearch.asp, line 58