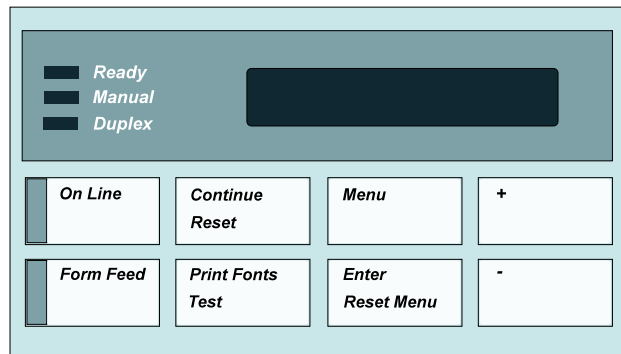




Print method	Laser
Print speed	8 ppm
Resolution	300 dpi
Interfaces	RS-232C serial and CENTRONICS parallel
Emulation	PCL 5 compatible
Fonts	Two font slots standard
RAM	512K bytes
EP-S cartridge life	4,000 pages at 5% density. The fusing assembly, separation pad, transfer corona, alignment rollers, and feed roller assembly are consumables with an estimated 100,000 page end of life.
Options	RAM 1, 2, or 4 Megabytes, additional paper input trays, font cartridges

Control Panel



Ready light - A solid green light indicates that the printer is ready to print. A flashing light indicates that the printer is receiving or processing data.

Manual light - Amber light indicates that manual feed is selected.

Duplex light - Amber light indicates that duplex printing is selected.

On Line light - Amber light indicates that the printer is online.

Form Feed light - Amber light indicates that page data is stored in the printer memory.

Form Feed key - Causes the printer to print stored data.

Continue/Reset key - Briefly press to clear most errors and return the printer to online. Press and hold until "07 RESET" appears to reset the printer.

Print Fonts/Test key - Briefly press to print a sample of characters from the available fonts. Press and hold until "05 SELF-TEST" appears to test the controller. Press and hold this key for about 7 seconds, until "04 SELF TEST" appears, to print the test page continuously. Press **On Line** to stop the test.

Menu key - Press this key briefly to enter the printing menu. Press and hold for about 5 seconds, until "AUTO CONT=OFF" appears, to enter the configuration menu. After entering a menu, briefly press to step through the menu items.

Enter key - Press and hold until "09 MENU RESET" appears to return the printing menu items to the factory default settings. When the printer is in a menu mode, briefly press to save the menu selection.

+/- keys These two keys display the next or previous value for the current menu item.

Self-test

Take the printer offline. Press and hold **Test** until "05 SELF TEST" appears in the display. All control panel indicators light up during the self-test. The internal testing lasts approximately 30 seconds. "06 PRINTING TEST" appears on the display while the self-test is printing. When the test is finished, "00 READY" appears.

Continuous self-test - Take the printer offline. Press and hold the **Test** key until "04 SELF-TEST" appears in the display. All control panel indicators light up during the continuous self-test. The internal testing lasts approximately 30 seconds. When finished, the **Form Feed** and **Ready** lights remain lit, and the test begins to print. If the printer is in the duplex mode, the printer will print on both sides of the page. Stop the test by pressing the **On Line** key.

Engine self-test - To bypass the formatter and test the printer engine only, press the test print button located on the right lower base. This test will execute, providing all voltages are present and the fuser is up to temperature.

Printer Configuration

The **Menu** key allows the user to access the Printing and Configuration Menu Modes. The following steps describe the procedure for selecting an item in either menu. If the **On Line** light is on, press the **On Line** key. To gain access to the Printing Mode menu, press the **Menu** key briefly. To gain access to the Configuration Menu, press and hold the **Menu** key until "AUTO CONT=OFF" appears. Press the **Menu** key to display the item to change. Press the **+/-** keys to select the value for the item to change. Press the **Enter** key to save the selection.

Common Problems and Fixes

DC voltage checks at connector J210 located on the right lower base of the printer. Pin 1 -- +24V DC Pin 5 -- -5V DC Pin 9 -- +5V DC

Most print quality problems can be fixed by replacing the toner cartridge. If the engine test passes, but the self-test fails, replace the formatter PCB.

Error Codes

Attempt to clear the error by pressing **Continue** and then by cycling power. Some error codes are self-explanatory. Others are listed below.

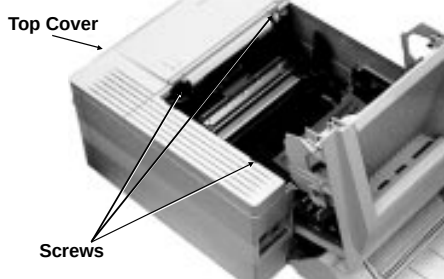
Blank Power problem	64 Laser scan buffer error
20 Printer is out of memory	65 Dynamic RAM controller error
21 Information is too complex to print	67 Formatter PCA
22 Comm. problem: host to printer	68 NVRAM failure/formatter PCA
40 Data transfer error	69 Formatter PCA to optional I/O PCA
41 Printed page error	70 Wrong firmware cartridge
42 Formatter PCA/opt. interface	71 Wrong firmware cartridge
43 Formatter PCA/opt. interface	72 Font cartridge removed too quickly
50 Fuser malfunction	79 An undocumented error
51 Laser beam loss over 2 seconds	ECLOAD - Load correct size envelopes into the envelope tray
52 Scanner motor speed	PCLOAD - Load correct size paper
53 Optional memory	PE FEED - Feed correct size envelope through the manual feed
55 DC controller/formatter	PF FEED - Feed correct size paper through the manual feed
56 Output selector knob not in duplex	FE CARTRIDGE - Font cartridge was removed while the printer was online
57 Memory card exceeds capacity	
61 Formatter PCA program ROM	
62 Formatter internal font ROM	
63 Formatter dynamic RAM	

Cover Removal

Top Cover

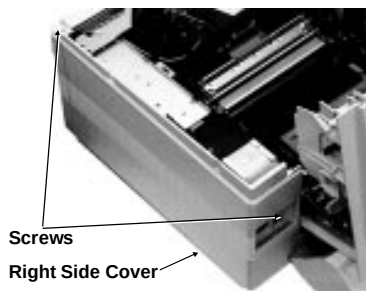
Remove the EP-S cartridge and paper tray. Open the top cover and remove the three screws securing the top cover panel. Rotate the rear of the top cover upward to free the tabs at the front and lift off the cover.

Right Side Cover



Remove the two screws from the right side cover. Lift the cover upward to remove it.

Left Side Cover

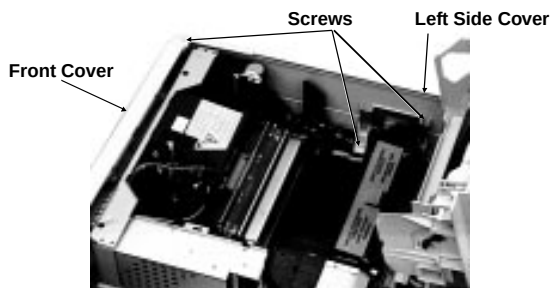


Remove the three screws from the left side cover. Lift the cover to remove it.

Front Cover & Control Panel

After removing the covers described above, the front cover is loose. Disconnect the control panel cable and remove the front cover.

Bottom Cover



Remove the EP-S cartridge and paper tray. Turn the printer upside down and remove the nine screws that hold the bottom cover. Remove the cover to get to the interface/formatter PCA.

Lower Right And Left Side Covers

Remove the top cover. Remove one screw securing the lower right side cover. Pull the cover outward and toward the right. Slide it toward the rear of the printer to remove it. Remove the left side lower cover in a similar manner.

Lower Front Cover

Remove the top and lower side covers. Remove two screws from each side of the lower front cover and remove the cover.

Field Replaceable Units

DESCRIPTION	OEM P/N	IBM P/N
Delivery assembly	RG1-0945-000CN	45F3959
Delivery coupler asm	RG1-0967-000CN	45F3940
Shutter assembly	RG1-0929-000CN	45F3939
Erase lamp assembly	RG1-0946-000CN	30F9743
Fusing assembly	RG1-0939-230CN	30F9724
Thermistor/exit sensor PCA	RG1-0719-000CN	30F9987
Thermoprotector	RF1-0842-000CN	30F9738
Pad fuser cleaning	RG1-0966-030CN	30F9736
Feed guide asm	RG1-0938-000CN	45F3867
Transfer corona asm	RG1-0933-060CN	30F9728
Registration asm	RG1-1326-000CN	45F3944
Pad separation	RF1-1145-020CN	45F3866
Pressure asm	RG1-0935-000CN	45F3958
Switchback assembly	RG1-1992-000CN	93F5289
Face-up tray assy	RG1-1993-000CN	93F5290
Flapper solenoid asm.(SL7)	RG1-1352-000CN	45F3951
Switchback sensor asm	RG1-1353-000CN	45F3952
Lower paper sensor asm	RG1-1341-000CN	45F3946
Switchback drive asm	RG1-1349-000CN	45F3948
Feed drive asm	RG1-0934-000CN	30F9739
Gear 19T	RS1-0105-000CN	30F9740
Gear 57T	RS1-0106-000CN	30F9741
Upper feed roller asm	RG1-2499-000CN	90F6414
Arm laser shutter	RA1-3827-000CN	45F3795
Arm paper sensing	RA1-3828-040CN	45F3794
Roller	RA1-6221-000CN	45F3936
Solenoid 24VDC (SL3)	RH7-5018-000CN	45F3967
Paper alignment roller	RG1-1356-000CN	45F3954
Clutch	RA1-6322-000CN	45F3937
Lower pressure asm	RG1-1355-000CN	45F3962
Guide drive asm	RG1-1348-000CN	45F3961
Solenoid 24VDC (SL4)	RH7-5013-000CN	45F3966
Duplex drive roller asm	RG1-1345-060CN	45F3960
Paper feed sensor asm	RG1-1354-000CN	45F3953
Lower feed roller asm	RG1-1340-000CN	45F3945
Solenoid 24VDC (SL1)	RH7-5013-000CN	45F3966
Size sensor PCB asm	RG9-0605-000CN	45F3964
DC controller PCA	RG1-1970-070CN	93F5286
Interface PCA/formatter PCA	33497-67901	45F4772
Control panel asm	RG1-1989-000CN	93F5291
Upper main cable harness	RG1-1318-000CN	45F3943
Cable control panel asm	SG5-4022-000CN	45F3968
Cable AC power mod/DC PS	RG1-0905-000CN	45F4231
Main motor	RH7-1048-000CN	45F3957
Drive asm	RG1-0943-000CN	30F9734
Lower drive motor asm	RG1-1347-000CN	45F3947
Belt timing 180T	XF9-0201-000CN	45F3969
Upper cooling fan	RH7-1122-000CN	45F4585
Lower cooling fan	RH7-1056-000CN	30F9742
Laser/scanner assembly	RG0-0050-030CN	30F9726
Optical fiber	RH2-5109-000CN	93F5293
Cable asm. laser scanner	RG1-2067-000CN	45F3963
Solenoid 24VDC	RH7-5013-000CN	45F3966
Hi-voltage power supply	RG1-0936-110CN	30F9727
AC power module 110/115	RG9-0319-000CN	30F9729
Paper control PCA	RG1-2549 000CN	93F5288
DC power supply 110/115	RG1-2007-000CN	93F5287
1 Megabyte memory card	33474B	45F4774
2 Megabyte memory card	33475B	45F4775
Interface cable parallel	N/A	8509390
Interface cable serial	N/A	8509386

Note: Be sure to note DIP switch settings and/or print a configuration list before replacing any PCB .

IBM machine type2998-D03

Similar to.....ACOM 33459A

Tech Support 800-877-7764