OSE   C.Itoh 8510S/SC EP
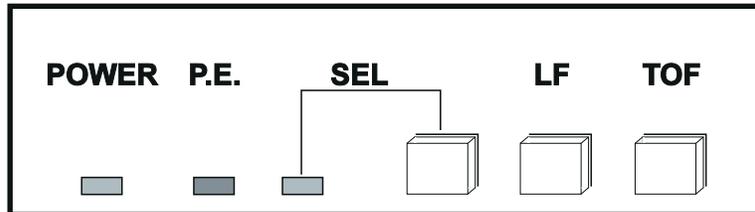
Print Method	Dot Matrix, bi-directional with logic seek
Print Speed	Draft - 180 cps Normal - 120 cps
Printhead	9-Pin (Life expectancy 100,000,000 characters)
Ribbon	Cassette (TEC CLABK-12802)
Ribbon Life	200,000 characters
Printer Life	5 million lines
Memory	Data buffer 2K byte (Up to 8K R-Buffer)
Interfaces	8 bit parallel (Bit 8 reserved for Japanese and graphics mode)
Paper Handling	Sprocket pin feed and friction feed (Selectable), paper width 4.25" to a max width of 10", original plus 2 copies not to exceed .011" maximum thickness.
Paper Loading	Rear-top

Control Panel

Buttons/Keys

SEL: Toggles printer between online and offline mode.

LF: When printer is offline, causes a single line feed when pressed momentarily and released. When pressed and held causes continuous line feeds (up to 4 lines).

TOF: When printer is offline, determines position of first line of data on printed page.

LEDs/Lights

SEL: Indicates printer is online.

PE: Indicates the PE microswitch is activated.

POWER: Indicates power is on.

Self-test

1. Turn power on.
2. Ensure carriage is returned to far left position, then turn power off.
3. Install paper.
4. Press **TOF**.
5. Turn power on.
6. Release **TOF**. The printer will then automatically print the preprogrammed test pattern.

Cover Removal

To remove the paper cover, open it and pull it rearward. To remove the carrier cover, hold both ends at left and right and pull it upwards.

Top Cover Removal

1. Remove paper and carrier cover.
2. Remove the panel SW cover.
3. Unscrew the 2 screws that fasten the top cover and the 2 screws on the rear side of the main unit
4. Remove the platen knob.

Configuration

Model 8510 SP/SCP is an impact-type high speed serial dot printer which composes characters with 7 (lateral) x 9 (longitudinal) dot matrices. The printing speed is 180 cps (draft) with a maximum of 80 characters per line. The unit consists of the printer main unit and the ribbon cartridge.

Switchbank 1 Characters

COUNTRY	SW4	SW3	SW2	SW2
US	OFF	OFF	ON	OFF
JAPAN	OFF	OFF	OFF	OFF
FRANCE	OFF	OFF	OFF	ON
UK	OFF	OFF	ON	ON
GERMANY	OFF	ON	OFF	OFF
SWEDISH	OFF	ON	OFF	ON
ITALY	OFF	ON	ON	OFF
SPAIN	OFF	ON	ON	ON
DENMARK	ON	OFF	OFF	OFF
NORWAY	ON	OFF	OFF	ON
NETH	ON	OFF	ON	OFF
FR II	ON	ON	ON	OFF
UK II	ON	ON	ON	ON
Note: OPEN = OFF / CLOSED = ON				

C.Itoh 8510S/SC EP   OSE

Switchbank 1 Switches 5-8

SW	PURPOSE	ON	OFF
5	DCI & 3	INEFF	EFF
6	LINE FEED	LF	NON LF
7	PRINT CMD	CR,LF	CR ONLY
		VT,FF	
		US	
8	LF AFTER		
	CR	CR+LF	CR ONLY

Switchbank 2 of Dip Switches

1	0 WITH SLASH	SLASH	NO SLASH
2	N BUFFER OR 1 LINE	1 LINE	N BUFFER
3	NO OF TOF TO TOF"	12"(72 LINE)	11"(66 LINE)
4	LINE SPACING	1/8"	1/6"
5	PRINT MODE	PROP CHAR	10 CPI
6	7 OR 8 BIT DATA	7 BIT	8 BIT
7	SEL OR DESELECT	SEL	DESELECT
8	DIRECTION	UNIDIRECT	BI-DIRECT

Operator Procedures

The power switch is on the left side of the unit looking from the front.
The Control Panel is located on the front of the printer.
Paper setting - When paper runs out the red P.E. indicator will light. Open the print cover forward, pull the roller shaft forward, and pull off the remaining paper upward. Set the new fanfold paper in the following order:

1. Open the paper cover rearward.
2. Lift the paper retainers of the left and right sprocket tractors.
3. Align the left and right holes of the paper with the paper sprocket.
4. Push down the paper retainers of the sprocket tractors and turn the platen knob clockwise. The top end of the paper will come out on the front side of the platen along the paper guide.
5. Return the roller shaft, paper cover and print cover to their original position.

Friction feed (Roll paper and sheet paper)

1. Move the head to the left.
2. Open the print cover, pull the roller shaft forward, then push the release lever rearward to take out the paper upward.
3. Insert paper, pull down the release lever forward, restore the roller shaft and print cover to their original position.

Ribbon cartridge replacement

1. Turn off power and remove the carrier cover.
2. Push the roller along the shaft out of the way of the cartridge.
3. Press left and right cartridge supports to lift out cartridge.
4. Replace the cartridge in opposite manner.

Common Problems and Fixes

Self-prints but will not print in online mode or printing is faulty:
Turn on the **SEL** button. If abnormal, replace. If normal, check the host connection board. If the host connection board is faulty replace it and see if that corrects the problem. If it does not, or if the host connection cord was serviceable, check the CN7 connector. If the CN7 connector is faulty replace it. If it is not faulty there is a PC board malfunction, probably with the memory circuit.

Printing head is not striking correctly or some of the dots are not being printed:
Check the CN4 (Head Connector). If faulty, replace. If not faulty, do a VM voltage check. If the VM voltage is correct check the gap adjustment lever. If it is set correctly for the number of forms, then check the dot head itself. If the dot head checks out normal there is a fault in the PC board, probably in the driver circuit of the dot missing pin, the IC2 or the memory circuit.

Light printing:
Check the ribbon for lifespan and if it is feeding correctly. If this is not the problem check the gap adjustment lever and see if it is set correctly for the number of forms. If the problem still exists, follow the procedure listed in the preceding paragraph, but also include a VR2 check and dot head charging time check.

Field Replaceable Units (FRUs)

Description	OEM P/N	IBM P/N
Ptr, NLQ, Black, 80 CL, Bidi, Par, CE		31F0008
Dot Matrix, Parallel, Graphics	8510 SEP+PROWRITER	31F0770
Head BK	CLABK-18002	
Platen Knob	CLA35-25301	
Power Switch	EET00-10700(100V-115V)	
Power Switch	EET00-10800(220V-240V)	
Fuse 2A	EJG00-00900 /	
	EJG00-02000	
Fuse 1A	EJG00-08500	

Service Documentation

There is no service documentation available to be ordered at this time.

General Information

General cautions for operation:

Do not print without the print ribbon being installed. Doing this may cause damage to the printhead.
Use only specified types of ribbon cartridges. Using unspecified types may cause damage to the printhead.
Replace the ribbon before it is broken due to overuse.
Use only specified types of paper.
Take care to not drop any clip, thumb tack or any other foreign articles into the unit. This may cause an electrical shock hazard and/or a malfunction.

IBM machine type: 1515-CXX

Tech Support 800-877-7764