IBM Customer Engineering

Introducing the 29 Card Punch and 59 Card Verifier

The IBM 29 Card Punch and IBM 59 Card Verifier are the key entry machines to support the IBM System/360. These machines process the expanded character set associated with the new programming language. A modern appearance, increased throughput, increased operator acceptance, increased servicability, and a more quiet operation, are a result of; new covers, new internal circuitry, and new operating features.

Highlights

- **Expanded Character Set:** Allows punching, printing, and verifying of additional codes required for IBM System/360.
- **New Covers:** Enhance appearance and reduce noise.
- **Two Separate Program Levels:** Allow multiple changes between program levels within a card as well as at the start of a card.
- **Clear Key:** Causes multiple register and release cycles without feeding until the card transport is clear of all cards.
- **Left-Zero Function:** Provides automatic punching and verification of zeros to the left of significant digits under program control.
- **Erasability:** In conjunction with left-zero function, allows the operator to correct the information in a left-zero field before it is punched in the card.
- **Printing:** Available on the IBM 29, as a pluggable feature, through the interchange of base units.
- **High Speed Verification:** Allows auto verification of a card at 80 column per second under program control.
- **Automatic Verification of Blank Columns:** Possible at auto verify speed under key control.

Technology

IBM 29 and IBM 59

- **Reed Relays and Printed Circuit Techniques:** Replace wire contact relays and tubes.
- **Major Units are Pluggable:** An aid for feature installation and servicability.

IBM 29

- **Print Unit:** Capable of printing entire 64 character set.
- **Punch Unit:** Capable of punching more than three holes per column.

IBM 59

- **Optical Sensing:** Eliminates the mechanical verifier drive and pin-sense assemblies. This will significantly lower the machine maintenance requirements by reducing the number of adjustments.
- **A Photoemitter:** Replaces the program cam contacts and gates the impulses through the starwheel contacts to improve reliability.

CE Features

IBM 29

- **Switch:** Single-cycle (on automatic left zero machine).

IBM 59

- **Indicator Lights:** Display functional information, such as data comparison and operation being performed.
- **Switches:**
  Single-cycle
  Error-retention
  Motor-disable

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