**MZ-E700/E900 Operation Failure**

- **Is the lid opened and closed?**
  - **Y**
  - **Is a disc ejected?**
  - **N**
    - **Upper Panel Deformed, Bracket Deformed**
  - **Y**
    - **Does the unit enter TEST mode?**
    - **N**
      - **Holder Deformed, Upper Panel Deformed**
    - **Y**
      - **IC601,IC801**
      - **No Laser Emission**
      - "Go to "NO Disc Display" page"

*In cases where the unit can not release the test mode after overall adjustment, IC601 or IC801 may be defective.*

- **Is the OP Laser working?**
  - **Y**
  - **Are the focus and tracking working?**
    - **N**
      - **Are the focus coil and tracking coil conducting?**
        - **Y**
          - **IC551**
            - **Is the signal input to pins No.18,19, 24,25?**
              - **N**
                - **IC601,etc**
            - **Y**
          - **IC551**
            - **Is the signal output from pins No.8,10, 33,35?**
              - **Y**
                - **OP**
              - **N**
                - **IC551**
      - **N**
        - **CN501**
          - **Is the signal input to pins No.1,2, 3,4?**
            - **Y**
            - **L551,L552 L553,L554**
          - **N**

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- **Is the sled motor working?**
  - **N** Are the motor and flexible cable conducting?
    - **N** Motor Flexible Cable or Sled Motor (M902)
    - **Y** IC551 Is the signal input to pins No.16, 17, 26, 27?
      - **N** IC01
      - **Y** IC551 Is the signal output from pins No.12, 14, 29, 31?
        - **N** IC551
        - **Y** Is the voltage output from pins No.37 through 42?
          - **N** RB551, RB552
          - **Y** Terminal of Sled Motor

- **Y** Is the spindle motor working?
  - **N** Is the spindle motor rotating normally?
    - **N** Spindle Motor or Flexible Cable of Motor (M901) or Flexible Cable of Motor (RB553)
    - **Y** Are the motor and flexible cable conducting?
      - **N** Spindle Motor (M901) or Flexible Cable of Motor
      - **Y** IC551 Is the signal input to pins No.2, 3, 4, 5 (UI, VI, WI, PWM)?
        - **N** IC01
        - **Y** IC551 Is the signal output from pins No.44, 46, 48 (Uo, Vo, Wo)?
          - **N** IC551
          - **Y** Is the laser current and RF waveform normal?
            - **N** OP
            - **Y** IC601 (IC501, IC551)

*If a strong shock is added to the unit, track patterns of CSP (IC601) are more likely to be peeled off and also a cold solder is easily occur on IC551.*
Playback Failure
Sound skip, Stop etc.

IC501
Is the signal input to pins No. 8, 9, 10, 11?

Is CN501 normal?

N

CN501

Is the signal output from pin No. 33 (RF OUT)?

IC501

Is the laser current normal?

N

Is there scope noise?

Y

C529

* Cause of Failure of RF Wave Form
- OP Failure, Dirty Lens (High jitter, Low RF level)
- Spindle Motor (In case of long jitter cycle)
- IC501, IC601

* Poor connection of CN501 may cause "NO DISK" or "DISK ERROR".
No Laser Emission
"NO DISC" Display

IC501
Is the voltage input to pin No.19(APCREF input)?

Y
R516,R517,R505,C527

N
Are R516,R517, R505,C527 normal?

Y
IC601

N
R516,R517
R505,C527

IC501
Is the voltage output from pin NO.20(PD OUT)?

Y

N
IC501

IC501
Is the voltage input to pin No.12(LD-A)?

Y

N
R519,Q501

CN501
Is the voltage input to pin No.12(LD-A)?

Y

N
R519,Q501

CN501
Is CN501 connected to OP Flexible cable firmly?

Y

OP Failure

* Poor connection of CN501 may cause "NO DISK" or "DISK ERROR".
Audio Section Failure

IC301
Is the signal input to pins No.21,22?

N
C101,C201
R101,R201

N
IC601 Failure
(CSP Cold Solder, Peeling)

Y

* Check the connection if the AU Board is detached.

IC301
Is the wave form on pins No.2,4 normal?

N
IC301 Failure
(Cold solder is the most suspected cause.)

N

* For "No Beep" or "No Mute", IC601 or IC301 may be defective.
(Cold Solder, Peeling)

Y

C102,C202
D101,D202,J301

* Cause of Wave Form Failure of ICs except for IC301
- Unstable VREF IN: C304,Q301
- No VREF applied: R102,R202,R105,
  R205,R106,R206

* These parts may be broken easily when adding a higher voltage to the parts from HP Jack.
Power Section Failure

Low Batt

Is R806 working?

Y

R806

N

IC601

No power at all

Is AU connector not defective?

N

* Poor connection of CN801,CN802 due to incomplete insertion (Re-insert the connectors)

Y

Is S801 working?

N

S801

Y

IC901

Is the voltage input to pin No.50(VB)?

N

Battery Case

Y

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IC901
Is the voltage output from pins No.6,49(VSTB, VREF)?

Y

Is the voltage output from pin No.18(LG) and the voltage input to pin No.19(VG)?

N

D903,L905

N

IC901
Is the voltage input to pins No.45,34,36(VC, VC2)?

Y

Is the voltage output from pins No.18(LG) and the voltage input to pin No.19(VG)?

N

D903,L905

N

IC901
Is the voltage output from pins No.35,41,42,44?

Y

Is the voltage input to pin No.47(CRST)?

N

C917

N

IC901
Is the reset signal output from pin No.46(XRST)?

Y

Is X601 oscillating?

N

X601

N

IC601

Y

* Cold solder or peeling of IC901,IC601 are more likely to occur for dropped units.