Service Manual

RS-HD70

Cassette deck

DOLBY B NR

Colour
(N) .......... Gold Type
Area
E .......... Europe.
System: SC-HD70

Because of unique interconnecting cables, when a component
requires service, send or bring in the entire system.

Please file and use this manual together with the service manual for
Model No. RS-CA01, Order No. AD9603073C2.

Notes:
• This simplified service manual is provided to indicate the main differences between the original model No. RS-CA01(E) and the subsequent model No. RS-HD70 (E).
• Refer to the packaging of this service manual.

CHANGES

Specifications (RS-CA01 Service Manual of cover page.)

RS-CA01(E)

**General**
Dimensions (W×H×D) 186×103×246 mm
Weight 1.6 kg

RS-HD70 (E)

**General**
Dimensions (W×H×D) 196×103×221 mm
Weight 1.8 kg

<table>
<thead>
<tr>
<th>System</th>
<th>Tuner</th>
<th>CD Changer</th>
<th>Amplifier</th>
<th>Cassette deck</th>
<th>Speakers</th>
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<td>SC-HD70</td>
<td>ST-HD70</td>
<td>SL-HD70</td>
<td>SE-HD70</td>
<td>RS-HD70</td>
<td>*SB-HD70</td>
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</table>

*Made in PAES

⚠️ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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## Change in Replacement Parts List (RS-CA01 Service Manual of pages 28,32,34.)

Notes:  
- Mentioned in this parts list is only those different from Model No. RS-CA01 (E). All other parts are the same as for RS-CA01 (E).
- [M] indicates in Remarks columns parts that are supplied by MESA.

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<tr>
<th>Ref. No.</th>
<th>Change of Part No.</th>
<th>Part Name &amp; Description</th>
<th>Remarks</th>
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<td>Q201,202</td>
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<td>2SJ106GBT85L</td>
<td>TRANSISTOR</td>
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<tr>
<td>Q604</td>
<td>2SD2137PQTA</td>
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<td>TRANSISTOR</td>
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<tr>
<td>Q607</td>
<td>2SD2137PQTA</td>
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<td>TRANSISTOR</td>
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<tr>
<td>DIODE(S)</td>
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<td>D709</td>
<td>—</td>
<td>MA110TX</td>
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<td>R241,242</td>
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<td>ERJ6GEYJ822V</td>
<td>1/10W 8.2KΩ</td>
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<tr>
<td>R611</td>
<td>ERJ6GEYJ1R0V</td>
<td>—</td>
<td>1/10W 1.0Ω</td>
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<tr>
<td>R626</td>
<td>ERJ6GEYJ1R0V</td>
<td>—</td>
<td>1/10W 1.0Ω</td>
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<tr>
<td>R707</td>
<td>—</td>
<td>ERJ6GEYJ472V</td>
<td>1/10W 4.7KΩ</td>
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<tr>
<td>R728</td>
<td>ERJ6GEYJ472V</td>
<td>ERJ6GEYJ103V</td>
<td>1/10W 10KΩ</td>
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<td>R741</td>
<td>ERJ6GEYJ123V</td>
<td>ERJ6GEYJ223V</td>
<td>1/10W 22KΩ</td>
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<td>R743</td>
<td>ERJ6GEYJ102V</td>
<td>ERJ6GEYJ473V</td>
<td>1/10W 47KΩ</td>
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<td>CABINET AND CHASSIS</td>
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<td>RHD30007-S</td>
<td>RHD30073-K</td>
<td>SCREW</td>
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<td>2</td>
<td>RKM0326B-S</td>
<td>RKM0326-S</td>
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<td>RGK0812-S</td>
<td>RGK0810-N</td>
<td>SIDE ORNAMENT (L)</td>
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<td>RGK0811-N</td>
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<td>RGL0331-Q2</td>
<td>RGL0331-Q</td>
<td>PANEL LIGHT (A)</td>
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<td>14</td>
<td>RGL0332-Q</td>
<td>RGL0332-Q</td>
<td>PANEL LIGHT (B)</td>
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<td>XTB53 + 10JFZ1</td>
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<td>RGK0800-M</td>
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<td>RGK0800-M</td>
<td>SIDE PANEL (R)</td>
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<td>PACKING CASE</td>
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<td>RPN1008</td>
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<td>SPP740</td>
<td>PROTECTION BAG (UNIT)</td>
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<td>RPQ0745</td>
<td>SPACER</td>
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Schematic Diagram

This schematic diagram may be modified at any time with development of new technology.

A MAIN CIRCUIT......................................................................................................................... 4~7
B MECHANISM CIRCUIT........................................................................................................... 5
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Notes:
• S803: Cassette holder open detection switch in "off" position.
• S804: Cassette holder close detection switch in "off" position.
• S800: Stop (■) switch.
• S901: Dolby noise-reduction switch (DOLBY NR).
• S902: Rewind tape program sensor switch ( ◀◀ [TPS]).
• S903: Reverse-side playback switch ( ◀ ).
• S904: TPS skip switch (TPS SKIP).
• S905: Forward-side playback switch (▶).
• S906: Fast forward tape program sensor switch (▶▶ [TPS]).
• S909: Rec pause switch (REC PAUSE).
• S910: Cassette holder open/ close switch ( ▲ OPEN/CLOSE).
• S911: Counter display switch (DISPLAY).
• S912: Counter reset switch (RESET).
• S915: Reverse-mode select switch (REV. MODE).
• S971: Mode switch in "off" position.
• S972: Half switch in "off" position.
• S973: ATS (CR/O) switch in "off" position.
• S974: Reverse rec. inhibit switch in "off" position.
• S975: Forward rec. inhibit switch in "off" position.
• S976: ATS (Metal) switch in "off" position.

• Resistance are in ohms (Ω), 1/4 watt unless specified otherwise.
• 1k=1,000 (Ω), 1M=1,000 (Ω)
• Capacity are in micro-farads (µF) unless specified otherwise.
• All voltage values shown in circuity are under no signal condition and playback mode with volume control at minimum position otherwise specified.
• ( ) Voltage values at record mode.
• For measurement use EVM.
• Voltage values and waveforms are measured as indicated in the schematic diagram when test points between TP603 and TP605, and between [A, GND] and TP802 are shorted.

• Important safety notice:
  Components identified by ▲ mark have special characteristics important for safety.
  When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

• ◀◀: Positive voltage line
  ◀: Negative voltage line
  ◀▶: Playback signal line
  ◀◀: Recording signal line

• Caution!
  IC and LSI are sensitive to static electricity.
  Secondary trouble can be prevented by taking care during repair.
  • Cover the parts boxes made of plastics with aluminum foil.
  • Ground the soldering iron.
  • Put a conductive mat on the work table.
  • Do not touch the legs of IC or LSI with the fingers directly.
Printed Circuit Board Diagram

(This schematic diagram may be modified at any time with the development of new technology.)

B MECHANISM P.C.B.

C OPERATION P.C.B.
Cabinet Parts Location (RS-CA01 Service Manual of pages 29.)

Packaging

(CUSHION A, B : RPN1008)