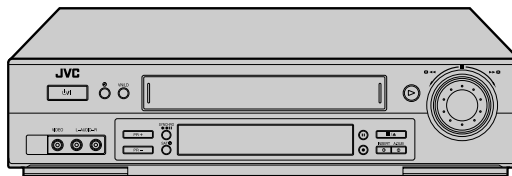


# JVC

## SERVICE MANUAL

### MAGNETOSCOPE

## HR-J870MS



**SHOWVIEW<sup>®</sup>**  
DELUXE  
**Hi-Fi** **VHS**  
PAL SECAM

Regarding service information other than these sections, refer to the HR-J870EU service manual (No. 82808). Also, be sure to note important safety precautions provided in the service manual.

### CARACTERISTIQUES TECHNIQUES

#### GÉNÉRALES

Alimentation : CA 220 V – 240 V ~ , 50/60 Hz  
Consommation  
Alimentation en marche : 20 W  
Alimentation en veille : 5,2 W  
Températures  
Fonctionnement : 5°C à 40°C  
Stockage : -20°C à 60°C

#### Position de fonctionnement

Position de fonctionnement : Seulement horizontale  
Dimensions (LxHxP) : 400 mm x 94 mm x 346 mm  
Poids : 4,1 kg  
Format : Standard VHS PAL/SECAM  
Largeur de bande : 12,65 mm  
Vitesse de bande

(VN) : 23,39 mm/s  
(LD) : 11,70 mm/s

#### Durée maximale d'enregistrement

(VN) : 240 mn avec une cassette vidéo E-240  
(LD) : 480 mn avec une cassette vidéo E-240

#### VIDÉO/AUDIO

Système de signal : Signaux couleur PAL/SECAM et signal monochrome CCIR, 625 lignes/50 trames

#### Système d'enregistrement

: Balayage hélicoïdal DA4 (Double Azimuth)

Entrée : 0,5 Vcc à 2,0 Vcc, 75 ohms, asymétrique

Sortie : 1,0 Vcc, 75 ohms, asymétrique

Rapport signal/bruit : 45 dB

Résolution horizontale : 250 lignes (VHS-PAL)  
240 lignes (VHS-SECAM)

Gamme de fréquence : 70 Hz à 10.000 Hz (Audio normal)  
20 Hz à 20.000 Hz (Audio Hi-Fi)

Entrée/sortie : Connecteurs péritelévision à 21 broches:  
ENTREE/SORTIE x 1, ENTREE/DECODEUR x 1  
Connecteurs RCA:  
ENTREE VIDEO x 1,  
ENTREE AUDIO x 1,  
SORTIE AUDIO x 1

#### SYNTONISEUR

Système de syntonisation : Syntoniseur à synthèse de fréquence  
Capacité de canaux TV : 99 positions (+ position AUX)  
Canaux couverts

| Gamme      | SECAM L           |                | PAL B/G           |  |
|------------|-------------------|----------------|-------------------|--|
|            | Fréquence         | Canaux         | Fréquence         | Canaux                                       |
| VHF (LOW)  | 49 MHz – 65 MHz   | 2 – 4          | 47 MHz – 89 MHz   | E2 – E4<br>X, Y, Z                           |
| VHF (HIGH) | 104 MHz – 300 MHz | 5 – 10<br>CATV | 104 MHz – 300 MHz | E5 – E12<br>S1 – S20<br>M1 – M10<br>U1 – U10 |
| Hyper      | 300 MHz – 470 MHz | CATV           | 302 MHz – 470 MHz | S21 – S41                                    |
| UHF        | 470 MHz – 862 MHz | 21 – 69        | 470 MHz – 862 MHz | E21 – E69                                    |

#### MINUTERIE

Référence de l'horloge : Par quartz  
Capacité de programmation : Minuterie sur 1 an/8 programmes  
Durée de soutien mémoire : 60 mn

#### ACCESSOIRES

Accessoires fournis : Câble RF,  
Câble péritelévision à 21 broches,  
Adaptateur antenne,  
Contrôleur satellite RM-SD1,  
Boîtier de télécommande à infrarouge,  
Pile "R6" x 2

*Les caractéristiques techniques sont pour le mode VN à moins d'indication contraire.  
Présentation et caractéristiques modifiables sans préavis.*

#### ATTENTION:

Ce magnétoscope contient des microprocesseurs. Des bruits électroniques externes ou des interférences peuvent causer un mauvais fonctionnement. Dans de tels cas, couper l'alimentation et débrancher le cordon d'alimentation. Puis le rebrancher et remettre l'alimentation. Sortir la cassette. Après contrôle de la cassette, faire fonctionner l'appareil comme d'ordinaire.

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The following table indicate main different points between models HR-J870EU and HR-J870MS.

| ITEM                             | MODEL | HR-J870EU                                | HR-J870MS                              |
|----------------------------------|-------|--|--|
| VIDEO SYSTEM                     |       | PAL/MESCAN(MANUAL)/<br>NTSC PB ON PAL TV | PAL/MESCAN/SECAM/<br>NTSC PB ON PAL TV |
| RECORDING &PLAYBACK SPEED        |       | SP/LP/EP                                 | SP/LP                                  |
| HQ SYSTEM                        |       | WC,DE,YNR,CNR                            | WC,DE,YNR                              |
| BROADCASTING STANDARD            |       | B/G,D/K                                  | L,L',B/G                               |
| RF OUT CH/RF OUT SYSTEM[INITIAL] |       | 22-69CH,OFF[AUTO]/G,K                    | NOT USED                               |
| LANGUAGE(FDP/OSD)                |       | ENG                                      | FRE                                    |

The following tables indicate different parts number between models HR-J870EU and HR-J870MS.

**PACKING AND ACCESSORY ASSEMBLY <M1>**

| REF. NO | ITEM             | MODEL | HR-J870EU    | HR-J870MS    |
|---------|------------------|-------|--------------|--------------|
| △ 310   | INST.BOOK(EN)    |       | LPT0324-001A | —            |
| △ 310   | INST.BOOK(GE)    |       | LPT0324-002A | —            |
| △ 310   | INST.BOOK(FR)    |       | LPT0324-003A | LPT0332-001A |
| △ 310   | INST.BOOK(DU)    |       | LPT0324-004A | —            |
| △ 310   | INST.BOOK(SP)    |       | LPT0324-005A | —            |
| △ 310   | INST.BOOK(IT)    |       | LPT0324-006A | —            |
| △ 310   | INST.BOOK(DA)    |       | LPT0324-007A | —            |
| △ 310   | INST.BOOK(FI)    |       | LPT0324-008A | —            |
| △ 310   | INST.BOOK(SW)    |       | LPT0324-009A | —            |
| △ 310   | INST.BOOK(NO)    |       | LPT0324-010A | —            |
| △ 310   | INST.BOOK(PT)    |       | LPT0324-011A | —            |
| △ 310   | INST.BOOK(GR)    |       | LPT0324-012A | —            |
| △ 310   | INST.BOOK(CZ)    |       | LPT0324-013A | —            |
| △ 310   | INST.BOOK(PO)    |       | LPT0324-014A | —            |
| △ 310   | INST.BOOK(HU)    |       | LPT0324-015A | —            |
| △ 310   | INST.BOOK(RU)    |       | LPT0324-016A | —            |
| 316     | WARRANTY CARD    |       | BT-54013-1   | —            |
| 320     | GUARANTY CARD    |       | —            | BT-54008-2   |
| 321     | SHEET(ATTENTION) |       | —            | LPT0002-0F6B |
| 322     | P/S CONV PLUG    |       | —            | PEAC0429     |
| 323     | PERI CABLE       |       | —            | QAM0186-001  |

**Note :** Mark — is not used.

**CABINET AND CHASSIS ASSEMBLY <M2>**

| REF. NO | ITEM                | MODEL | HR-J870EU    | HR-J870MS    |
|---------|---------------------|-------|--------------|--------------|
| △ 501   | FRONT PANEL ASSY    |       | LP10217-037B | LP10217-039C |
| 501C    | DISPLAY WINDOW      |       | LP30531-031A | LP30531-033A |
| 505     | DRUM SUB ASSY       |       | LP20617-015A | LP20617-007A |
| 505A    | UPPER DRUM ASSY     |       | LP20616-009A | LP20616-004A |
| 516     | SPECIAL SCREW,MECHA |       | LP40700-001A | QYTDSF4012Z  |

**MECHANICAL ASSEMBLY <M4>**

| REF. NO | ITEM                      | MODEL | HR-J870EU     | HR-J870MS    |
|---------|---------------------------|-------|---------------|--------------|
| 78      | MAIN BRAKE ASSY (SUPPLY)  |       | LP40532-009A  | LP40532-009B |
| 80      | MAIN BRAKE ASSY (TAKE UP) |       | LP40111-014A  | LP40111-014C |
| 120     | DRIVE ARM                 |       | *LP20240-001F | LP20240-001G |
| 152     | START SENSOR CAP          |       | *LP30493-001A | LP30493-001B |

**MAIN BOARD ASSEMBLY <03>**

| REF. NO | ITEM                       | MODEL | HR-J870EU      | HR-J870MS      |
|---------|----------------------------|-------|----------------|----------------|
| PW1     | MAIN BOARD ASSY            |       | LPA10106-13B1  | LPA10106-19B1  |
| IC3001  | IC                         |       | HD6432194BA26F | HD6432194AA10F |
| Q13     | TRANSISTOR                 |       | DTC144WU —     |                |
| Q34     | TRANSISTOR                 |       | —              | 2SB1218A/QR    |
| Q2011   | TRANSISTOR                 |       | DTC144WU —     |                |
| Q2051   | TRANSISTOR                 |       | —              | 2SC4081/QRS    |
| Q4002   | TRANSISTOR                 |       | UN5211         | —              |
| D3      | MG RESISTOR                |       | NRSA02J 0R0X   | —              |
| R3      | MG RESISTOR                |       | NRSA02J-822X   | NRSA02J-222X   |
| R24     | MG RESISTOR                |       | NRSA02J-331X   | —              |
| R47     | MG RESISTOR                |       | NRSA02J-0R0X   | NRSA02J-821X   |
| R72     | MG RESISTOR                |       | —              | NRSA02J-333X   |
| R73     | MG RESISTOR                |       | —              | NRSA02J-682X   |
| R114    | MG RESISTOR                |       | —              | NRSA02J-0R0X   |
| R2001   | MG RESISTOR                |       | NRSA02J-681X   | —              |
| R2002   | MG RESISTOR                |       | NRSA02J-272X   | —              |
| R2053   | MG RESISTOR                |       | NRSA02J-682X   | NRSA02J-472X   |
| R6032   | MG RESISTOR                |       | NRSA02J-392X   | NRSA02J-332X   |
| R6050   | MG RESISTOR                |       | NRSA02J-101X   | —              |
| R6051   | MG RESISTOR                |       | NRSA02J-101X   | —              |
| R6052   | MG RESISTOR                |       | NRSA02J-101X   | —              |
| C12     | C CAPACITOR                |       | HDC21J-470X    | HDC21J-100X    |
| C79     | C CAPACITOR                |       | —              | NDC21HJ-390X   |
| C81     | C CAPACITOR                |       | NCB21HK-103X   | —              |
| C84     | C CAPACITOR                |       | —              | NDC21HJ-560X   |
| C93     | C CAPACITOR                |       | NDC21HJ-100X   | —              |
| C94     | MG RESISTOR                |       | NRSA02J-0R0X   | NCB21HK-103X   |
| C95     | C CAPACITOR                |       | —              | NCB21HK-103X   |
| C104    | C CAPACITOR                |       | —              | NCB21HK-103X   |
| C2021   | C CAPACITOR                |       | NCB21HK682X    | —              |
| C2205   | E CAPACITOR                |       | QEKJ1HM-105    | —              |
| C2206   | E CAPACITOR                |       | QEKJ1HM-106    | —              |
| C3024   | C CAPACITOR                |       | NDC21HJ-220X   | NDC21HJ-120X   |
| C3025   | TRIM CAPACITOR,TIMER CLOCK |       | QAT3725-300Z   | —              |
| C3041   | C CAPACITOR                |       | —              | HDC21J-100X    |
| C4015   | C CAPACITOR                |       | NDC21HJ-331X   | NCB21HK-102X   |
| C4016   | C CAPACITOR                |       | NDC21HJ-681X   | —              |
| C6012   | E CAPACITOR                |       | QEKJ1CM-107    | —              |
| C6013   | C CAPACITOR                |       | NCB21HK-103X   | —              |
| C6027   | C CAPACITOR                |       | —              | HDC21J-221X    |
| C6028   | C CAPACITOR                |       | —              | HDC21J-221X    |
| C6032   | C CAPACITOR                |       | NCF21EZ-473X   | —              |
| C6055   | C CAPACITOR                |       | NDC21HJ-220X   | —              |
| C6553   | E CAPACITOR                |       | —              | QEKJOJM-107Z   |

Notes : Mark — is not used.  
 Mark \* reference model was also charged.

| REF. NO | ITEM              | MODEL | HR-J870EU    | HR-J870MS    |
|---------|-------------------|-------|--------------|--------------|
| L2      | INDUCTOR          |       | QQL071J-101Y | QQL071J-221Y |
| L14     | INDUCTOR          |       | —            | QQL071J-101Y |
| L17     | INDUCTOR          |       | QQL071J-5R6Y | —            |
| L20     | INDUCTOR          |       | —            | QQL071J-101Y |
| L6001   | P COIL            |       | —            | QQL29BJ-100Z |
| L6004   | P COIL            |       | QQL29BJ-100Z | —            |
| X3001   | CRYSTAL RESONATOR |       | QAX0445-001  | QAX0444-001  |
| T2052   | OSC TRANSFORMER   |       | PELN0861     | QQR1083-001  |
| TU6001  | TUNER             |       | QAU0151-001  | QAU0152-001  |

**TERMINAL BOARD ASSEMBLY <06>**

| REF. NO | ITEM                | MODEL | HR-J870EU    | HR-J870MS    |
|---------|---------------------|-------|--------------|--------------|
| PW1     | TERMINAL BOARD ASSY |       | LPA10100-05A | LPA10100-10A |
| IC201   | IC                  |       | LC74776-9791 | LC74775-9750 |
| R209    | MG RESISTOR         |       | NRSA02J-682X | NRSA02J-512X |

**SECAM BOARD ASSEMBLY <88>**

| REF. NO | ITEM             | MODEL | HR-J870EU | HR-J870MS    |
|---------|------------------|-------|-----------|--------------|
| PW1     | SECAM BOARD ASSY |       | —         | LPA10069-01A |

**CNR BOARD ASSEMBLY <96>**

| REF. NO | ITEM           | MODEL | HR-J870EU    | HR-J870MS |
|---------|----------------|-------|--------------|-----------|
| PW1     | CNR BOARD ASSY |       | LPA10068-01B | —         |

**Note :** Mark — is not used.



**JVC**

VICTOR COMPANY OF JAPAN, LIMITED  
VIDEO DIVISION

S40894