

HCD-BX3/DX3

SERVICE MANUAL

Ver 1.2 2003.11



Photo: HCD-BX3

- HCD-BX3/DX3 are the tuner, deck, CD and amplifier section in MHC-BX3/DX3.

US Model
Canadian Model
AEP Model
UK Model
 HCD-BX3
E Model
Australian Model
 HCD-DX3

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM58-K2BD38
	Base Unit Name	BU-K2BD38
	Optical Pick-up Name	KSM-213D
Tape deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-230MWR11

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS:

(HCD-BX3 US model only)

POWER OUTPUT AND TOTAL

HARMONIC DISTORTION:

with 6 ohm loads both channels driven, from 120-10,000 Hz; rates 75 watts per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

US, Canadian model:

HCD-BX3:

Continuous RMS power output (reference)

60 + 60 watts

(6 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.07%

(6 ohms at 1 kHz, 35 W)

AEP, UK model:

HCD-BX3:

DIN power output (rated) 45 + 45 watts

(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)

60 + 60 watts

(6 ohms at 1 kHz, 10% THD)

Music power output (reference)

150 + 150 watts

(6 ohms at 1 kHz, 10% THD)

Other model:

HCD-DX3:

The following measured at AC 120, 220, 240 V 50/60 Hz

DIN power output (rated) 75 + 75 watts

(6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference)

100 + 100 watts

(6 ohms at 1 kHz, 10% THD)

Inputs

MD/VIDEO IN:

(phono jacks)

MIC:

(mini jack)

voltage 450/250 mV,
 impedance 47 kilohms
 sensitivity 1 mV,
 impedance 10 kilohms

Outputs

PHONES:

(stereo mini jack)

SPEAKER:

accepts headphones of
 8 ohms or more
 accepts impedance of 6 to 16 ohms

CD player section

System

Laser

Compact disc and digital audio system

Semiconductor laser ($\lambda=780$ nm)

Emission duration: continuous

Max. 44.6 μ W*

Laser output

*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

— Continued on next page —

COMPACT DISC DECK RECEIVER

SONY®

9-929-055-13

2003K16-1

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Sony Corporation

Home Audio Company

Published by Sony Engineering Corporation

SECTION 8 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

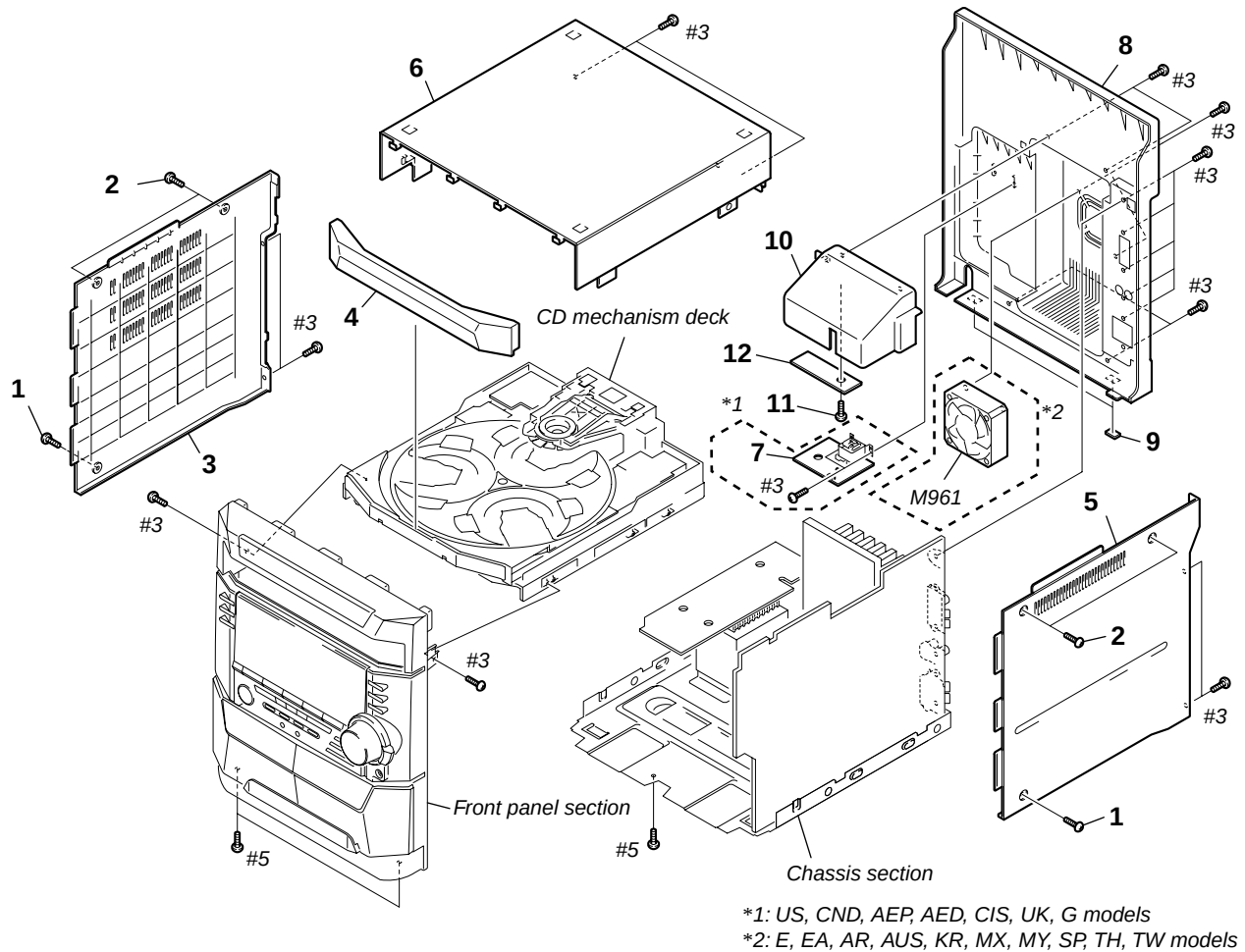
- Abbreviation
CND : Canadian model
AUS : Australian model
G : German model
AED : North European model
EA : Saudi Arabia model
MY : Malaysia model
SP : Singapore model
TH : Thai model
TW : Taiwan model
KR : Korea model

- MX : Mexican model
AR : Argentina model

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

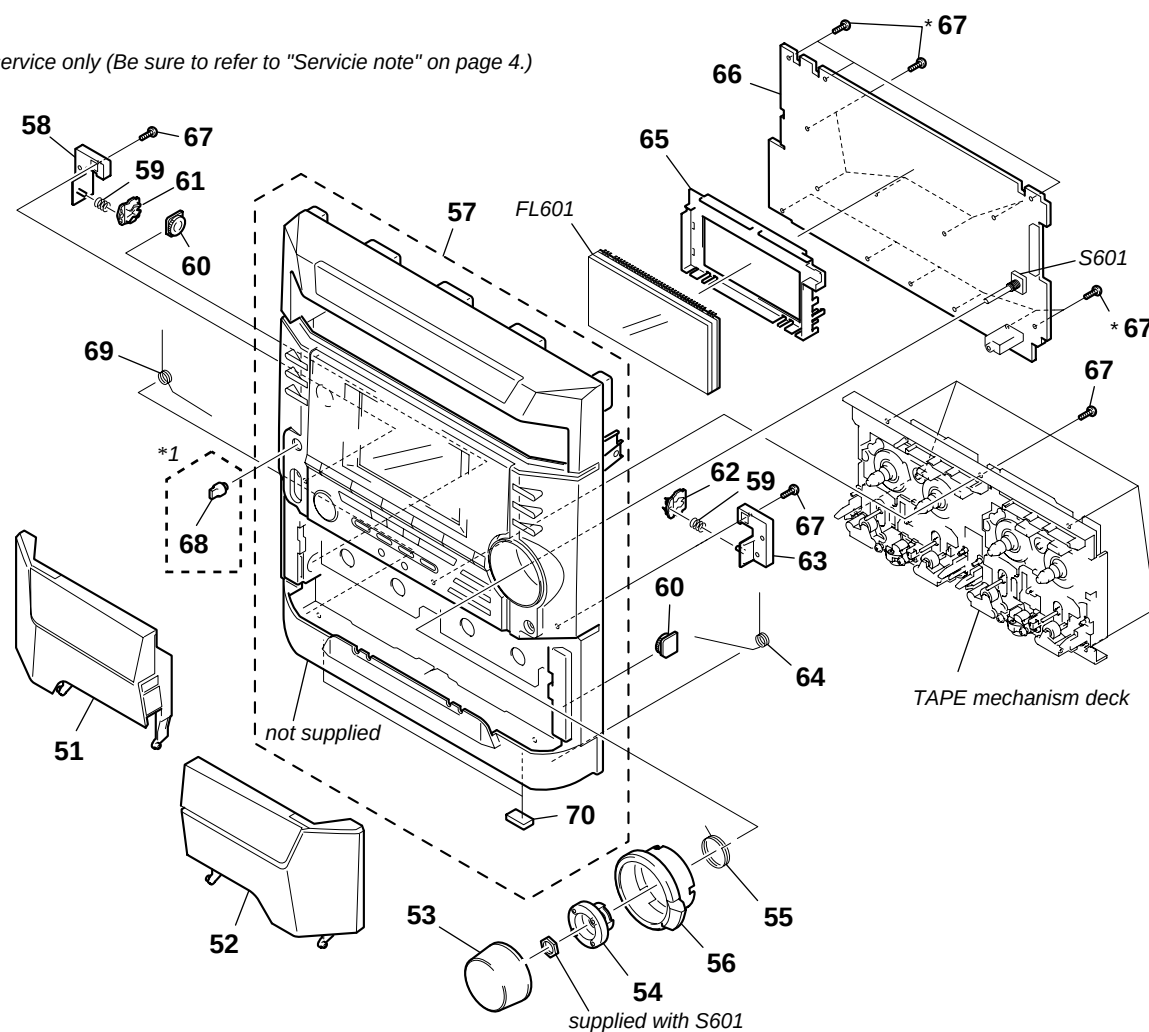
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-1. MAIN SECTION



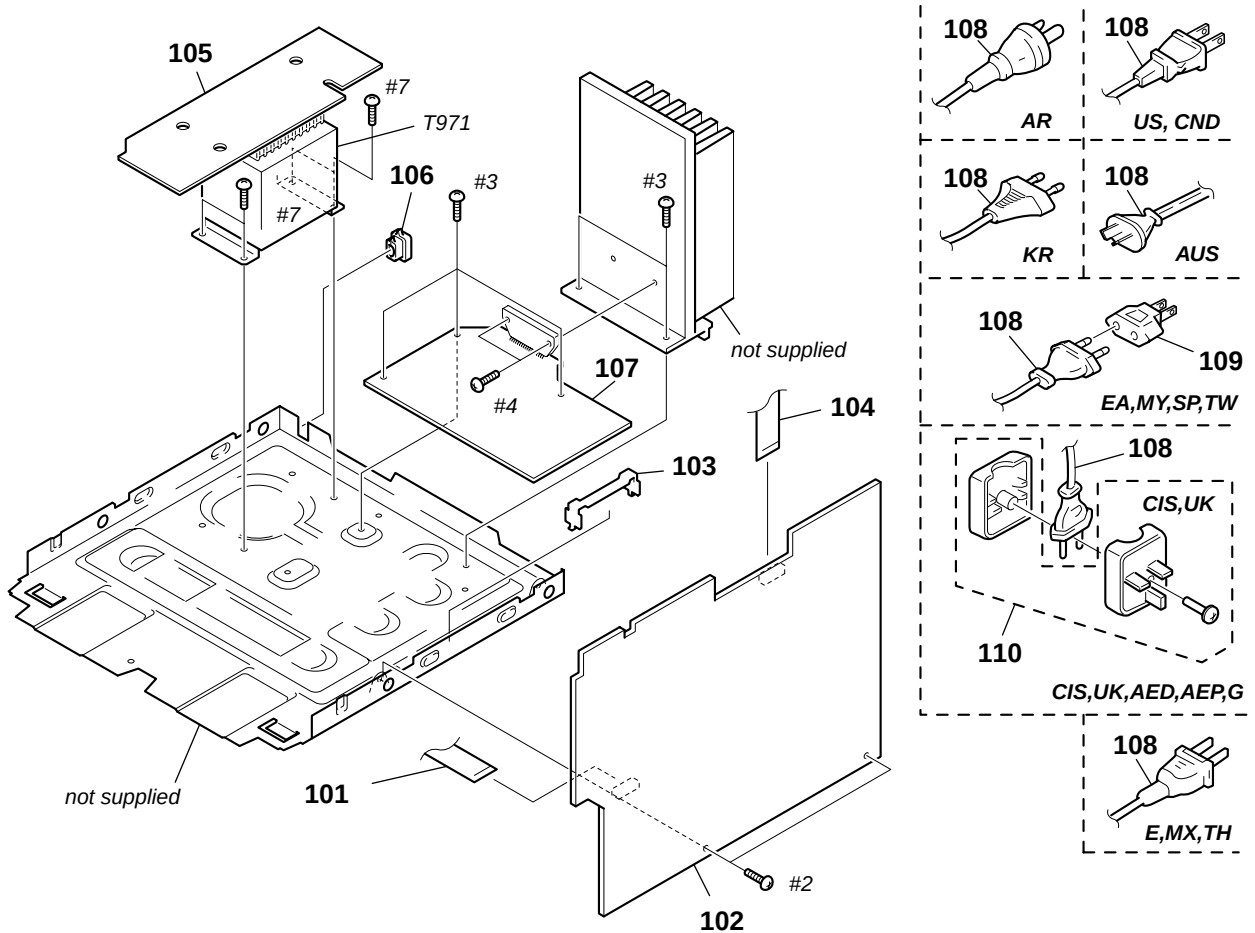
8-2. PANEL SECTION

* For service only (Be sure to refer to "Service note" on page 4.)



*1: E, EA, AR, AUS, KR, MX, MY, SP, TH, TW models

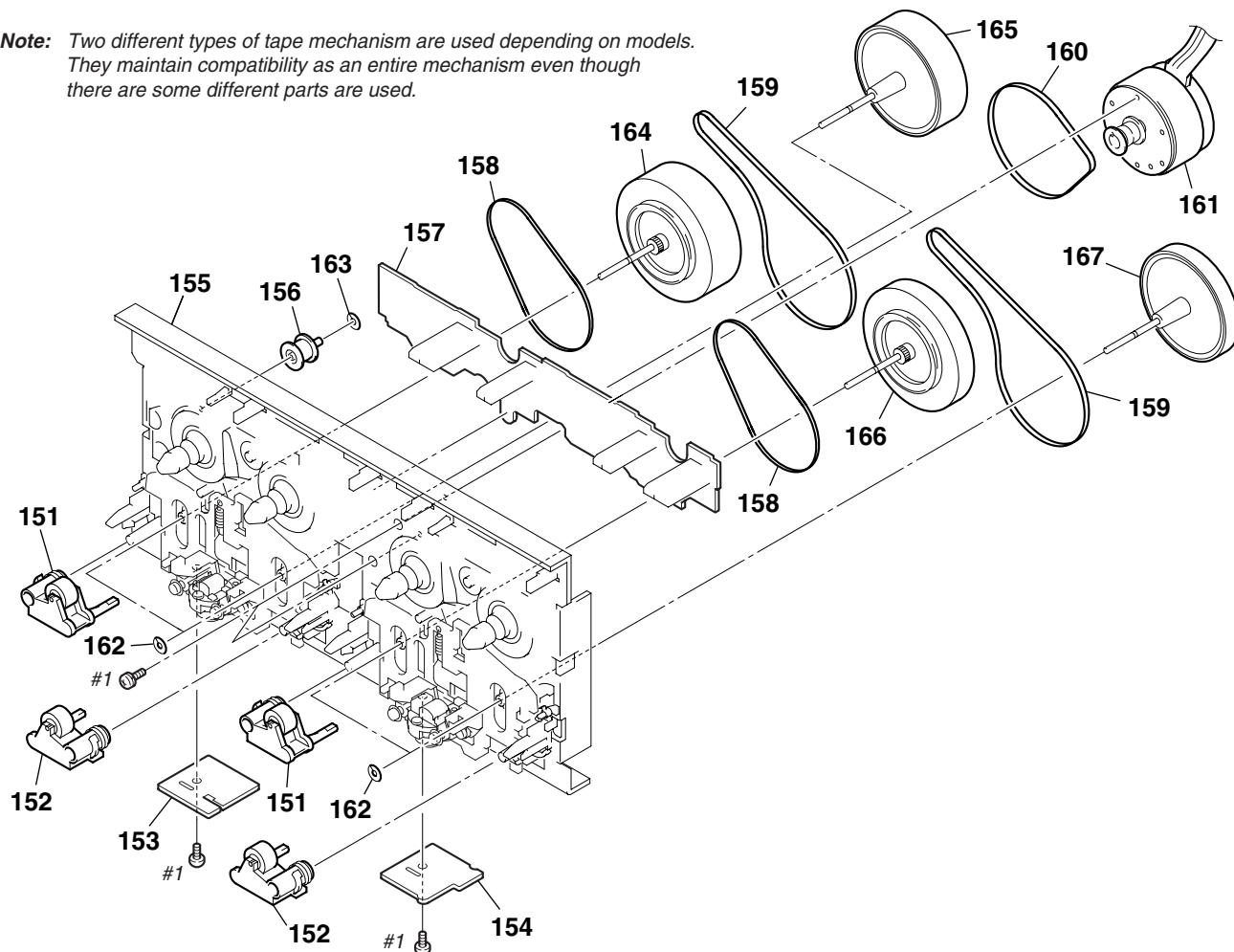
8-3. MAIN BOARD SECTION



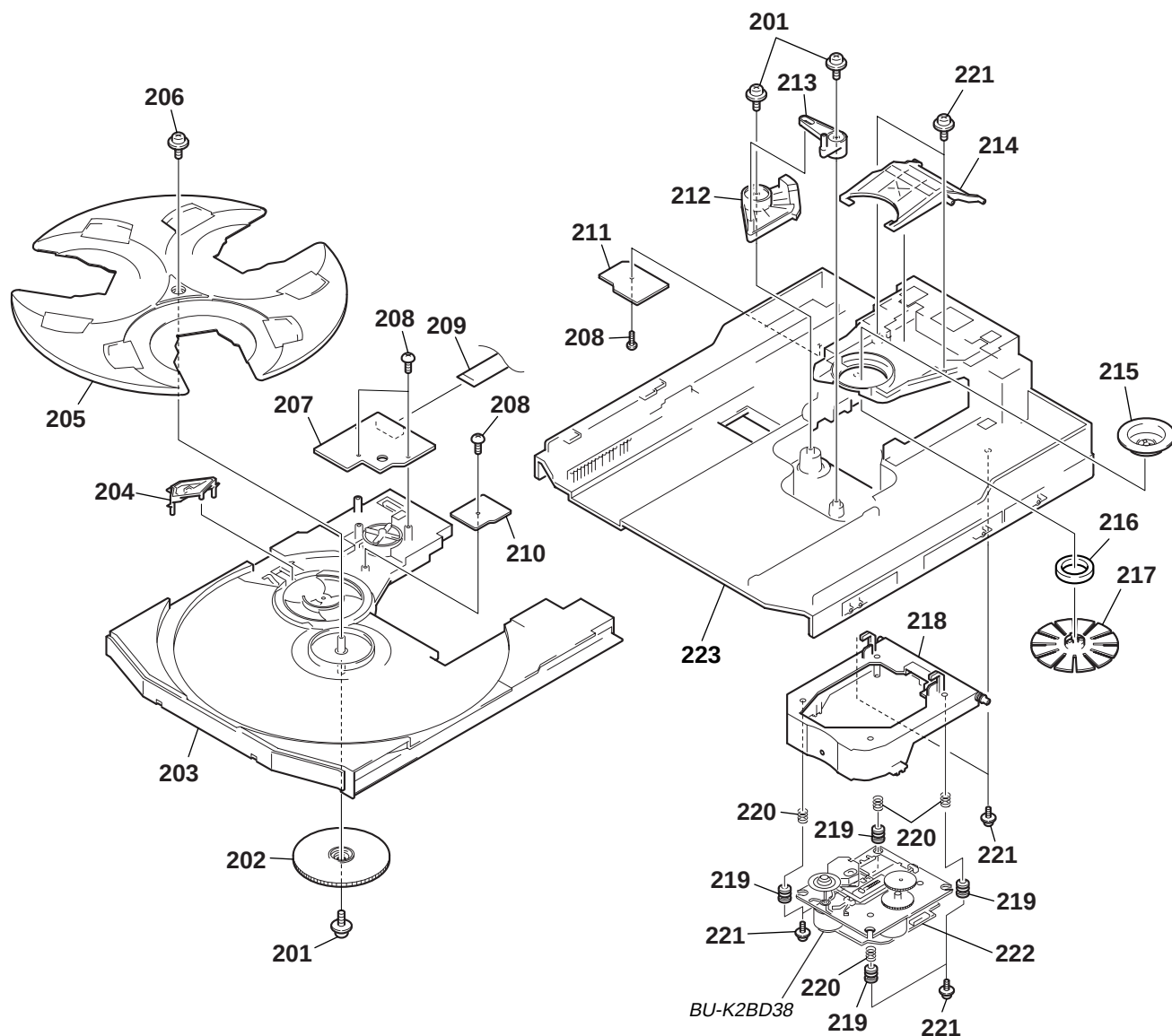
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8-4. TAPE MECHANISM DECK SECTION

Note: Two different types of tape mechanism are used depending on models. They maintain compatibility as an entire mechanism even though there are some different parts are used.



8-5. CD MECHANISM DECK SECTION



The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.