

SL-1200GAE

Owner's Manual

Direct Drive Turntable System

Manuel d'utilisation Platine tourne-disque à entraînement direct



Music is borderless and timeless, touching people's hearts across cultures and generations. Each day the discovery of a truly emotive experience from an unencountered sound awaits. Let us take you on your journey to rediscover music.

Sans frontières, la musique est aussi intemporelle, touchant le coeur des gens en traversant les cultures et les générations. Tous les jours, nous attendons la révélation d'une expérience émotionnelle authentique à partir d'un son venu de nulle part. Permettez-nous de vous emmener en voyage pour redécouvrir la musique.

Rediscover Music[™]



Delivering the Ultimate Emotive Musical Experience to All

At Technics we understand that the listening experience is not purely about technology but the magical and emotional relationship between people and music.

We want people to experience music as it was originally intended and enable them to feel the emotional impact that enthuses and delights them.

Through delivering this experience we want to support the development and enjoyment of the world's many musical cultures. This is our philosophy.

With a combination of our love of music and the vast high-end audio experience of the Technics team, we stand committed to building a brand that provides the ultimate emotive musical experience by music lovers, for music lovers.

Apportez à tous l'expérience musicale empreinte d'émotions

Chez Technics, nous savons que l'expérience de l'écoute n'est pas purement et simplement une question de technologie, mais de relation magique entre les personnes et la musique. Nous voulons que tout un chacun puisse ressentir la musique telle qu'elle a été conçue à l'origine et lui permettre de ressentir le choc émotionnel qu'il brûle de connaître. En apportant ce vécu, nous cherchons à accompagner le développement et le plaisir des nombreuses cultures musicales du monde. Telle est notre philosophie. Ici et maintenant, alliant l'amour de la musique et la grande expérience musicale de l'équipe

Technics, nous sommes pleinement déterminés à construire une marque qui apporte le vécu musical émotionnel aux fervents de la musique.

Director Directeur Michiko Ogawa

Chickse Ogawa

Introduction

Thank you for purchasing this product.

Please read these instructions carefully before using this product, and save this manual for future use.

- About descriptions in these operating instructions
 - Pages to be referred to are indicated as " $(\Rightarrow 00)$ ".
 - The illustrations shown may differ from your unit.

If you have any questions, visit:

U.S.A.: http://shop.panasonic.com/support Canada: www.panasonic.ca/english/support

Register online at http://shop.panasonic.com/support (U.S. customers only)

Features

The coreless direct drive eliminates cogging and achieves smooth rotation

- The twin-rotor construction reduces minute vibration during rotation while maintaining high torque.
- The high-precision motor control technology switches the drive mode depending on the operational status of the motor. This technology combines high torque with high stability.

The tone arm with high-precision bearings achieves high initialmotion sensitivity

- The tone arm pipe employs magnesium which provides high rigidity.
- The use of traditional Technics gimbal suspension construction and high-precision bearings attains high initial-motion sensitivity.

Three-layered turntable that delivers smooth rotational stability

- The turntable has a three-layered construction with a rigidly combined brass and aluminium diecast platter, and a rubber covering its rear surface to eliminate unnecessary resonance. With this construction, high rigidity and vibration damping are achieved.
- The use of a heavyweight-class turntable that generates a large inertial mass. It delivers smooth rotational stability.

Four-layered cabinet construction and insulators based on thorough anti-vibration design

- The top panel of immaculate aluminum has been added to the three-layered construction of aluminum diecast, BMC, and heavyweightclass rubber. This four-layered construction combines high rigidity with a high quality finish and feel.
- The insulators employ special silicon rubber to ensure high vibration damping and longterm reliability. They completely dampen external vibration and suppress howling noise.

High-quality terminals

- The use of brass-milled and gold-plated terminals prevents degradation in sound quality.
- Inside the case, the metal shielding construction is used to diminish the effects of external noise.

Highly accurate turntable speed maintained with the pitch control

- The digital control method is adopted to achieve constant pitch control.
- The pitch variable range select button (×2) is provided. The pitch control with the range up to ±16 % is possible.

4 (4) English

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IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.



- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Warning

Unit

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(6) English

- To reduce the risk of fire, electric shock or product damage,
 - Do not expose this unit to rain, moisture, dripping or splashing.
 - Do not place objects filled with liquids, such as vases, on this unit.
 - Use only the recommended accessories.
 - Do not remove covers.
 - Do not repair this unit by yourself.
 - Refer servicing to qualified service personnel.

AC power supply cord

- The power plug is the disconnecting device. Install this unit so that the power plug can be unplugged from the socket outlet immediately.
- Ensure the earth pin on the power plug is securely connected to prevent electrical shock.
 - An apparatus with CLASS I construction shall be connected to a power socket outlet with a protective earthing connection.

Caution

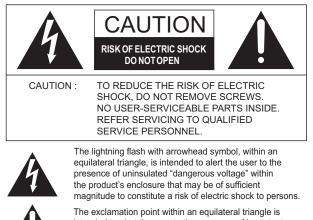
Unit

• Do not place sources of naked flames, such as lighted candles, on this unit.

Placement

- To reduce the risk of fire, electric shock or product damage,
 - Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
 - Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
- Keep your speakers at least 10 mm $(^{13}/_{32}'')$ away from the system for proper ventilation.

The following mark and symbols are located on bottom of the unit.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Conforms to UL STD 60065. Certified to CAN/CSA STD C22.2 No.60065.

THE FOLLOWING APPLIES ONLY IN THE U.S.A. FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

Panasonic Corporation of North America Two Riverfront Plaza, Newark, NJ 07102-5490 Support Contact: http://www.panasonic.com/contactinfo

THE FOLLOWING APPLIES ONLY IN CANADA. CAN ICES-3(B)/NMB-3(B)



Information on Disposal in other Countries outside the European Union This symbol is only valid in the European

Union. If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

8 ⁽⁸⁾ English

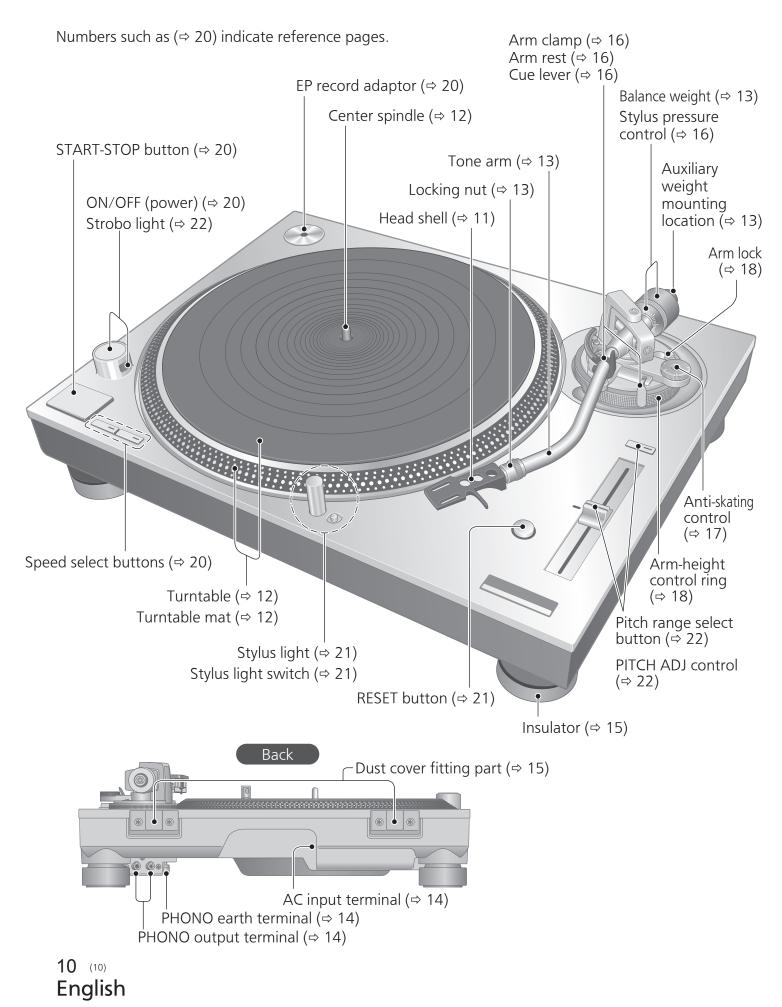
Accessories

In order to prevent damage during shipping some of the equipment has been disassembled. Please check and identify the supplied accessories.

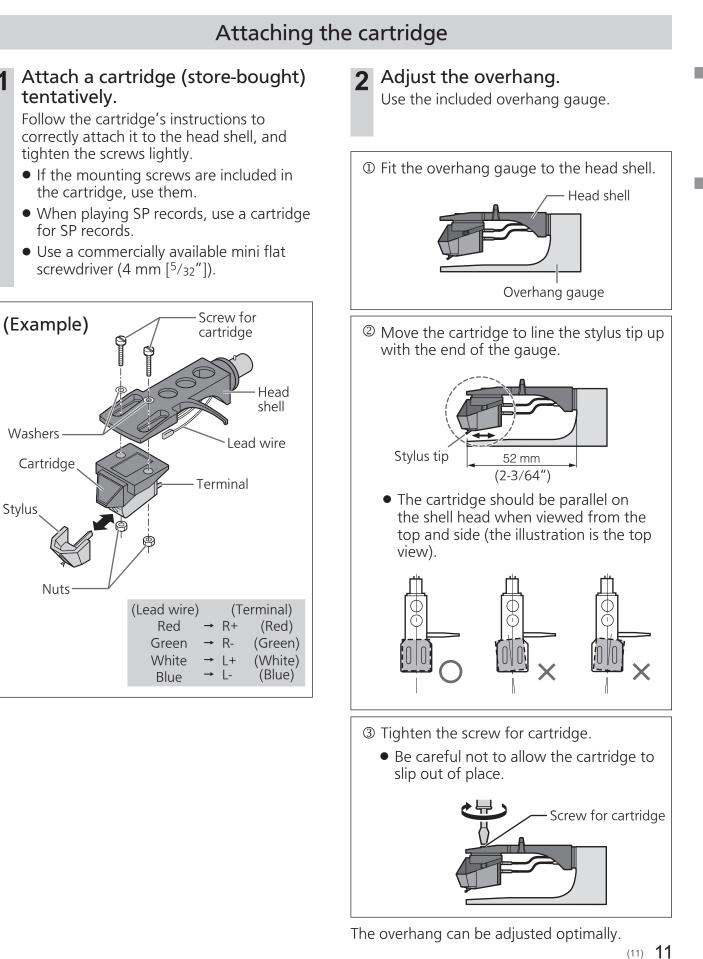
Turntable (1 pc.) (RYQ1618-X)	Turntable mat (1 pc.) (RGS0008)	Dust cover (1 pc.) (RYF1035-Q)
EP record adaptor (1 pc.) (RMX0551)	Balance weight (1 pc.) (RXQ2316)	Auxiliary weight small (1 pc.) (TPAKK61)
		9
Auxiliary weight big (1 pc.) (TPAKK62)	Head shell (1 pc.) (RFA3670)	Overhang gauge (1 pc.) (RMR2210-W)
Screw set for cartridge (1 set) (RXQ2315) Nuts (2 pc.) Screws-short (2 pc.) Screws-long (2 pc.) Washers (2 pc.)	PHONO cable (1 pc.) (K2KYYYY00257)	PHONO earth lead (1 pc.) (K4EY1YY00160)
AC power supply cord (1 pc.) (K2CG3YY00191)	Screw set for turntable (1 set) (RXQ2343) • Screws-long (3 pc.) • Washers (3 pc.) • Belleville springs (3 pc.)	

- The model numbers of the accessories are as of March 2016. They are subject to change without notice.
- Dispose of the packaging materials in an appropriate manner.
- Follow the local regulations when disposing of the product.
- Do not use any other AC power supply cord, PHONO cable and PHONO earth lead except the supplied one.
- Keep the cartridge, auxiliary weight, nuts, screws and washers out of reach of children to prevent swallowing.

Parts Name



Putting the player together



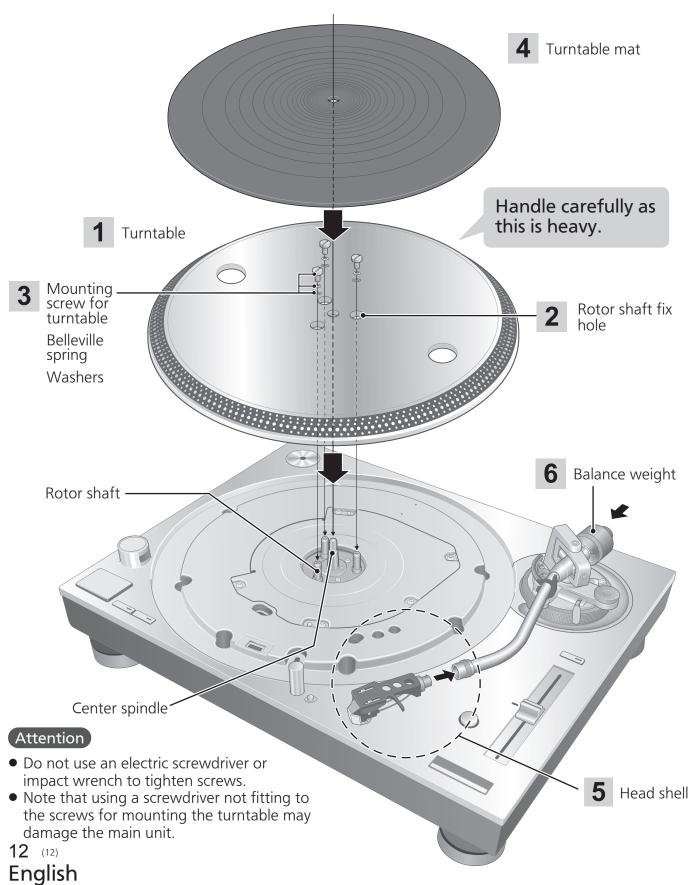
English

Putting the player together (continued)

In order to prevent damage during shipping some of the equipment has been disassembled. Put the player together in the following order.

Attention

Do not connect the AC power supply cord until set up is complete.



Fitting the turntable

Insert the center spindle in the center hole of the turntable.

Attention

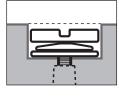
- Be careful when handling the turntable, as it is heavy.
- Wipe off fingerprints or dirt with a soft cloth.
- Slowly lower the turntable while aligning the rotor shaft fix holes (three locations) with the rotor shafts.
 - Turn the turntable in both directions to align the holes with the rotor shafts.

Attention

• If the rotor shafts are misaligned, a gap remains between the turntable and main unit and you cannot mount the turntable correctly. Do not force the turntable downward.



Attach the washers, belleville 3 springs, and screws for turntable to the rotor shaft fix holes, and tighten the mounting screws securely.



Attention

- When tightening screws, do not allow screw heads to protrude from the top surface of the turntable.
- Tighten three screws evenly.

To remove the turntable

① Loosen the mounting screws for turntable and remove them.

-Keep the screws, belleville springs, and washers carefully.

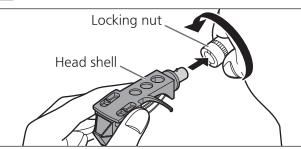
² Hold the turntable with both hands and slowly pull it straight up.

Fitting the turntable mat

Lay the turntable mat on the turntable.

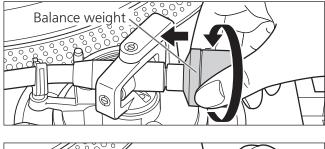
Attaching the head shell

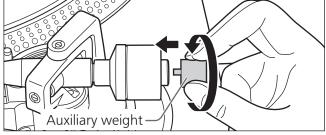
- Fit the head shell with the 5 cartridge into the tone arm. Keep the head shell horizontal and tighten the locking nut.
 - Be careful not to touch the stylus tip.



Attaching the balance weight

Attach the balance weight to the rear of the tone arm.





 Attach the included auxiliary weight to the rear of the tone arm according to the weight of your cartridge. For adjustable cartridge weight ranges, see "Applicable cartridge weight range". (⇒25)

Note

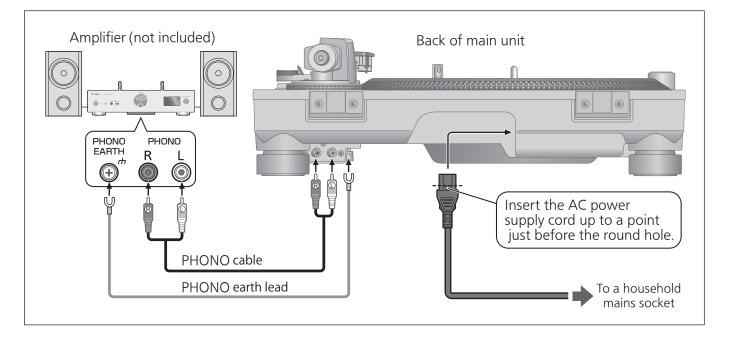
• The inside of the balance weight is greased.

Connections and installation

- Turn off all units and disconnect the AC power supply cord from the outlet before making any connections.
- Connect the AC power supply cord only after all other connections are completed.
- Be sure to connect the PHONO earth lead. Otherwise mains hum may occur.
- Refer also to the instruction manual of the connected device.
- 1 Connect the PHONO cables and PHONO earth lead to the PHONO terminals of the connected equipment.
 - You will not have adequate volume or sound quality if the connected amplifier has no PHONO terminals.
- **2** Connect the AC power supply cord.
 - Confirm the wattage of the AC outlet on the connected equipment before using it for this unit.

(This unit consumes 14 W.)

Connecting to an integrated amplifier or component system



Note

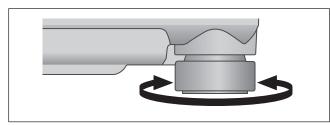
• Although the AC power switch is in the "OFF" position, the unit is not completely disconnected from the mains. Remove the plug from the main electrical outlet if you will not be using the unit for an extended period of time. Place the unit so the plug can be easily removed.

Installation

Install the unit on a horizontal surface protected from vibrations.

Keep this unit as far as possible from speakers.

Adjusting the height to make the unit horizontal



Raise the main unit to turn the insulators and adjust the height.

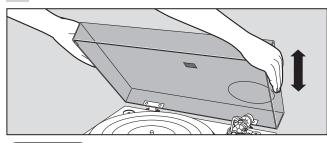
- Clockwise: Reduces the height.
- Anti-clockwise: Increases the height.

Attention

• Do not turn the insulators too far. Doing so may cause them to come off or damage them.

Fit the dust cover

- 1 Hold the dust cover with both hands and insert it into the dust cover fitting parts (⇒ 10) on the player.
 - To remove the dust cover, keep it open and lift it straight above.



Attention

• Return the tone arm to the arm rest and fix it with the arm clamp before you attach or detach the dust cover.

Notes for installation

- Before you move the unit, remove all devices connected and turn off the power supply.
- Ensure the unit is not exposed to direct sunlight, dust, humidity, and heat from a heating appliance.
- This unit may pick up interference from a radio if there is one nearby.
- Keep the unit as far as possible from a radio.
- Do not install the unit on a heat source.
 Avoid a place with large temperature variations.
- Avoid a place with large temperature variation
 Avoid a place with frequent condensation.
- Avoid a place with frequi Avoid an unstable place.
- Do not put an object on the unit.
- Do not install the unit in a confined space such as a book shelf.
- Install the unit at a position well away from walls or other devices to ensure effective heat radiation from the inside of the unit.
- Make sure that the material of the installation location is sufficiently strong to withstand the weight of this unit.
- Note that the unit may be damaged by cigarette smoke or moisture from an ultrasonic humidifier.

Condensation

Think of taking out a cold bottle from a refrigerator. If you leave it in a room for a while, dewdrops will form on the bottle surface. This phenomenon is called "condensation".

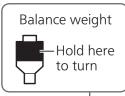
- Conditions causing condensation
- Rapid temperature change (caused by moving from a warm place to a cold place or vice versa, rapid cooling or heating, or direct exposure to cooled air)
- High humidity in a room with much steam, etc.
- ◇ Rainy season
- Condensation may damage the unit. If it has occurred, turn the unit off and leave it until it adapts to the ambient temperature (approximately 2 to 3 hours).

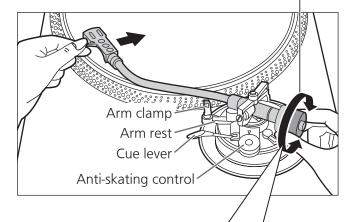
Adjustment

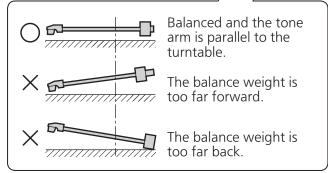
Horizontal balance

Preparation

- First, remove the dust cover.
- Remove the stylus cover, taking care not to damage the stylus, then release the arm clamp.
- Lower the cue lever.
- Turn the anti-skating control to "0".
- 1 Free the tone arm from the arm rest and adjust horizontal balance by turning the balance weight. Hold the tone arm and turn the balance weight in the arrow direction to adjust the balance until the arm is approximately horizontal.
 - Take care not to allow the stylus tip to touch the turntable or main unit.



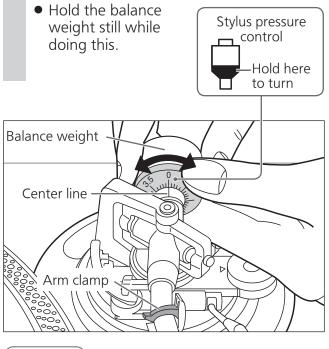




Stylus pressure

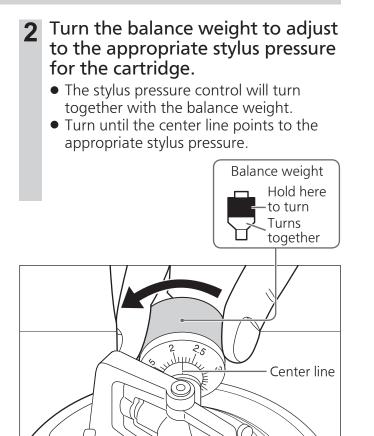
Preparation

- First, remove the dust cover.
- Return the tone arm to the arm rest and fix it with the arm clamp.
- **1** Turn the stylus pressure control until "0" comes to the center line of the rear of the tone arm.



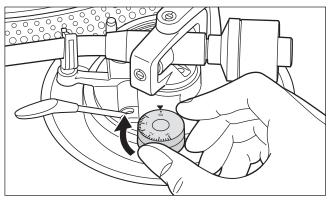
Note

• Refer to the user's guide for your stylus for the appropriate stylus pressure.



Anti-skating

1 Turn the anti-skating control to adjust it to the same value as the stylus pressure control.



Note

• For stylus pressures 3 g and above, adjust anti-skating control to "3".

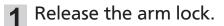
Adjustment (continued)

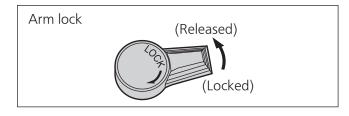
Tone arm height

Make this adjustment only if the cartridge you are using makes it necessary.

Preparation

• Put a record on the turntable.



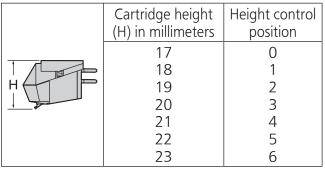


2 Adjust the height with the armheight control ring.

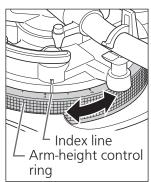
Adjust the arm height until the tone arm becomes parallel to a record.

① Use the chart below as reference to find the appropriate position mark for the height of your cartridge.

(For supplied head shell)



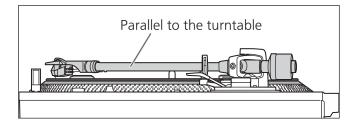
Turn the arm-height control ring to align the position mark with the index line.
 0 to 6 mm (0" to ¹⁵/₆₄") are marked on the arm height control ring.



3 After arm height adjustment is finished, lock the tone arm by turning the arm lock knob.

When you don't know the cartridge height (H),

Remove the stylus cover, taking care not to damage the stylus, then release the arm clamp. Lower the cue lever, rest the stylus on a record and adjust the height control until the tone arm and record are parallel.



Attention

- Be careful not to damage the stylus tip.
- Do not use the product with the arm lock released.

18 (18) English

Armlift height

Make an adjustment according to your cartridge if necessary.

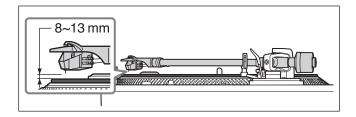
Preparation

- Put a record on the turntable.
- Remove the stylus cover, taking care not to damage the stylus, then release the arm clamp.
- Lift the cue lever and move the tone arm over the record.

1 Check the armlift height (distance between the stylus tip and record surface).

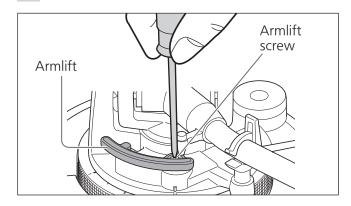
If adjustment is needed, go to the step **2**.

• The armlift height is factory-adjusted to 8 to 13 mm ($^{5}/_{16}$ " to $^{33}/_{64}$ ").



2 Return the tone arm to the arm rest and fix it with the arm clamp. Turn the adjustment screw.

- Turning the screw clockwise lowers the armlift.
- Turning the screw anti-clockwise raises the armlift.



Adjusting the turntable startup/ brake speed

You can choose manual mode or auto mode. (Factory setting: Auto mode)

Auto mode

We recommend auto mode that can maximize performance of the product. It adjusts the "startup speed" (described below) automatically. (The set torque control is not reflected.)

① Move the mode switch to [A] using a tool such as a thin screwdriver.

Manual mode

Allows you to adjust the "startup speed" manually. ① Move the mode switch to [M] using a tool such as a thin screwdriver.

Startup speed

You can adjust the startup speed (the time for the turntable to reach the constant speed) from pressing [START-STOP] and the torque gain at the constant speed.

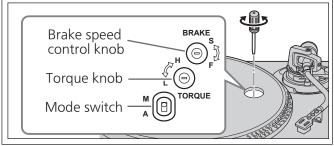
- ① Adjust the torque knob using a flat screwdriver.
- H direction: Fast startup
- L direction: Slow startup

Brake speed

You can adjust the brake speed from pressing [START-STOP] until the turntable stops.

(Adjustment is possible in both auto and manual mode.)

- Adjust the brake speed control knob using a flat screwdriver.
- S direction: Slow stop
- F direction: Fast stop



Note

• Use a commercially available mini flat screwdriver (2.4 mm [³/₃₂"]) to adjust the torque/brake speed control knob.

(19) 19 English

• Do not turn the knob too far using an excessive force.

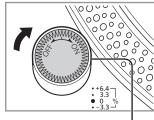
Playing records

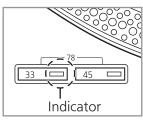
Preparation

- *****1 Put a record on the turntable.
- *****2 Take off the stylus cover and release the arm clamp.

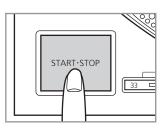
1 Turn [ON/OFF] to turn the unit on. The strobo light comes on. 33-1/3 r/min is automatically selected and the indicator [33] lights.

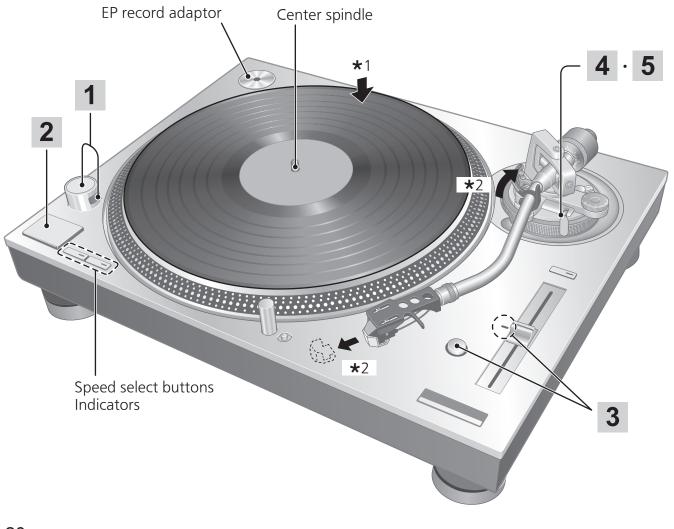
2 Press [START-STOP]. The turntable starts revolving.





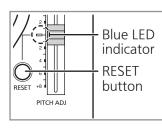
Strobo light





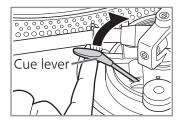
3 Press [RESET] to light the pitch control blue LED lamp.

The unit plays at a preset pitch (33-1/3, 45 or 78 r/min) regardless of the [PITCH ADJ] position.



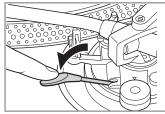
 Fine adjustment to pitch (⇔ 22)

4 Lift the cue lever and move the tone arm over the record.



5 Lower the cue lever.

The tone arm moves down slowly.



Play starts.

To temporarily stop play

Lift the cue lever.

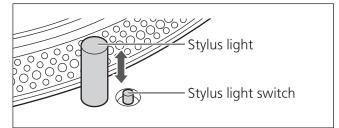
- The stylus lifts off the record.
- To start play again, lower the cue lever.

When play finishes

- ① Lift the cue lever, return the tone arm to the arm rest and lower the cue lever.
- ② Press [START-STOP]. The electronic brake gently stops the turntable.
- ③ Turn [ON/OFF] to turn the unit off.
- ④ Clamp the tone arm with the arm clamp.
- ⑤ Put the stylus cover back on (to protect the stylus tip).

To light up the stylus

The stylus tip is illuminated during play.



Press the stylus light switch.

- The stylus light (white LED) rises up and illuminates the stylus.
- Press down the stylus light to turn off the light.

Attention

Press the stylus light switch firmly. If the switch is lightly pressed, the light may come on but not rise up.

When playing EP records

- Press the speed select button [45] ([45] lights).
- Fit the EP record adaptor over the center spindle.

When playing SP records

- Press the speed select buttons [33] and [45] at the same time (78 r/min: [33] and [45] light).
- When using a record stabilizer (not included)
- See the instruction manual of the record stabilizer.
- Maximum weight: 1 kg

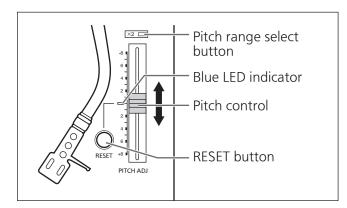
Pitch control (fine adjustment to pitch)

- 1 Press [RESET] to turn off the blue LED light.
- 2 Press the pitch range select button to select the pitch range.
 - [×2] light on: ±16 %
 - [×2] light off: ±8 %

3 While the turntable is revolving

Slide [PITCH ADJ].

- Pitch can be adjusted between approx.
 -8 % and +8 % or approx. -16 % and +16 % according to your selection.
- The numbers represent approximate percentages for your adjustment.

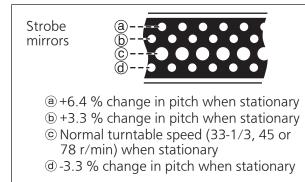


■ To reset pitch to the preset value Press [RESET].

The blue LED indicator lights and the pitch immediately returns to a preset value regardless of the [PITCH ADJ] position. (33-1/3, 45 or 78 r/min)

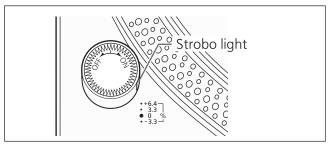
To measure pitch

The four rows of strobe mirrors around the edge of the turntable can assist you in measuring pitch.



Attention

The strobe mirrors are lit by the strobo light (blue LED) synchronizing with the precise frequency of digital control. Always use the blue LED to measure the pitch.

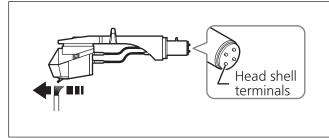


Maintenance

Care of the parts

Thoroughly clean dust off the stylus and record.

- Take off the head shell with the cartridge and clean the stylus using a soft brush. Brush from the base to the tip.
- Use a record cleaner to keep your records clean.



Wipe the head shell terminals occasionally.

Wipe the head shell terminals with a soft cloth and fit the head shell to the tone arm.

Turn the volume down or turn the amplifier off before fitting or removing the head shell. Damage to your speakers can occur if the head shell is moved while the volume is turned up.

Cleaning the dust cover

Wipe the dust cover and cabinet with a soft cloth.

When dirt is heavy, wring a wet cloth tightly to wipe the dirt, and then wipe it with a soft cloth.

- Do not use solvents including benzine, thinner, alcohol, kitchen detergent, a chemical wiper, etc. This might cause the exterior case to be deformed or the coating to come off.
- Do not wipe the dust cover while playing a record.

This can cause static electricity. This static can cause the tone arm to be attracted towards the dust cover.

Moving the unit

Repackage the unit in the packaging it came in.

If you no longer have the packaging, do the following:

- Take off the turntable and turntable mat and carefully wrap them.
- Remove the head shell and balance weight from the tone arm and carefully wrap them.
- Clamp the tone arm with the arm clamp and tape it in place.
- Carefully wrap the main unit in a blanket or paper.

WEEE symbol

Disposal of the product outside the EU countries

This symbol is valid within the EU only.

 Contact a local governmental office
 or your dealer to confirm a right manner of disposal.

Troubleshooting guide

Before requesting service, make the below checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, contact your dealer.

No power.

Is the AC power supply cord plugged in? Plug the cord in firmly. (\Rightarrow 14)

There is power but no sound. Sound is weak.

 Are connections to the amplifier/receiver's PHONO terminals correct? Connect the PHONO cables to the amplifier's PHONO terminals. (\Rightarrow 14)

Left and right sounds are reversed.

- Are the stereo connection cable connections to the amplifier or receiver reversed? Double check all connections. (\Rightarrow 14)
- Are connections of the head shell's lead wires to the cartridge terminals correct? Double check all connections. (\Rightarrow 11)

Humming heard during play.

 Are there other appliances or their AC power supply cord near the stereo connection cable?

Separate the appliances and their AC power supply cord from this unit.

• Is the earth lead connected? Make sure the earth lead is correctly connected. (⇒ 14)

The Strobo light or the blue indicator blinks.

Perform the following operation when the strobo light or the blue indicator blinks. The symptom may be improved.

- 1 Turn [ON/OFF] to OFF.
- ^② Pull out the power plug, wait for three seconds, and then insert the plug again.
- ③ Turn [ON/OFF] to ON and press [START-STOP] to rotate the turntable.
- If the strobo light or the blue indicator blinks again, check which one is blinking and contact our service representative.

24 (24) English

Updating the firmware

To improve operation or add new functions, the firmware for the unit is updated as needed basis.

Before updating

- From the support website, download the firmware for version upgrade and create a USB memory used for version upgrade.
- See the following website for how to create a USB memory for version upgrade. www.technics.com/support/firmware/
- Turn [ON/OFF] to OFF and remove the turntable. (=> 13)
- **2** Connect the USB memory for version upgrade to UPDATE terminal of the UPDATE unit.



3 Turn [ON/OFF] to ON.

• When update is started, the update lamps light up from left to right.



- 4 Check that all of the four update lamps are lit, and then turn [ON/OFF] to OFF.
 - It takes approximately 120 seconds to update the firmware.
- **5** Remove the USB memory.

Attention

- Do not press [START-STOP] when the turntable is removed.
- Use a USB memory with FAT16 or FAT32 format.
- Do not connect any USB device other than the USB memory for version upgrade to the UPDATE terminal of this unit.
- No USB device can be charged from the UPDATE terminal of this unit.
- If after connecting the USB memory and turning [ON/OFF] to ON, the update lamps fail to light up within 15 seconds or they are blinking, see the following website. www.technics.com/support/firmware/

Specifications

Power consumption14 W (Power ON) 0.2 W (Power OFF)Dimensions (W×H×D)453 x 173 x 372 mm (17-27/32" × 6-13/16" × 14-21/32")WassApprox. 18.0 kg (39.7lbs)MassApprox. 18.0 kg (39.7lbs)Turntable sectionDirect drive manual turntableTypeDirect drive manual turntableOrive methodDirect driveMotorBrushless DC motorFurntableBrass and aluminum diecast combined Diameter: 332 mm (13-5/64") Mass: Approx. 3.6 kg (7 15/16 lbs) (including a rubber sheet)Furntable speeds33-1/3, 45 and 78 rpmVariable range bitch±8 % and ±16 % 33-1/3 rpmBaild-up characteristics0.7 s. from standstill to 33-1/3 rpmBraking systemElectronic brake (JIS C5521)	General		
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Build-up characteristics0.7 s. from standstill to 33-1/3 rpmBraking systemElectronic brakeWow and flutter0.025 % W.R.M.S. (JIS C5521)	Variable range pitch	±8 % and ±16 %	
characteristics33-1/3 rpmBraking systemElectronic brakeWow and flutter0.025 % W.R.M.S. (JIS C5521)	Starting torque	3.3 kg-cm (2.8 lb-in)	
Wow and flutter 0.025 % W.R.M.S. (JIS C5521)	Build-up characteristics		
(JIS C5521)	Braking system	Electronic brake	
Rumble 78 dB (IEC 98A weighted)	Wow and flutter		
	Rumble	78 dB (IEC 98A weighted)	

Tone arm section		
Туре	Static Balance	
Effective length	230 mm (9-1/16")	
Overhang	15 mm (19/32")	
Tracking error angle	Within 2° 32' (at the outer groove of 30 cm (12") record) Within 0° 32' (at the inner groove of 30 cm (12") record)	
Offset angle	22°	
Arm-height adjustment range	0 – 6 mm (0" - 15/64")	
Stylus pressure adjustment range	0 – 4 g (direct reading)	
Head shell weight	Approx. 7.6 g	
Applicable cartridge weight range	(Without the auxiliary weight) 5.6 to 12.0 g 14.3 to 20.7 g (including the head shell) (With the small auxiliary weight) 10.0 to 16.4 g 18.7 to 25.1 g (including the head shell) (With the big auxiliary weight) 14.3 to 19.8 g 23.0 to 28.5 g (including the head shell)	
Head shell terminal lug	1.2 mm φ 4-pin terminal lug	

Specifications are subject to change without notice.

Limited Warranty (ONLY FOR U.S.A.)

Technics Products – Limited Warranty

Limited Warranty Coverage (For USA Only)

If your product does not work properly because of a defect in materials or workmanship, Panasonic Corporation of North America (referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by the warrantor.

Product or Part Name	Parts	Labor
Technics Network Audio Amplifier		
Technics Music Server	3 (three)	3 (three) years
Technics CD Stereo System	years	years
Technics Turntable System]	

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. This Limited Warranty excludes both parts and labor for non-rechargeable batteries, antennas, and cosmetic parts (cabinet). This warranty only applies to products purchased and serviced in the United States. This warranty is extended only to the original purchaser of a new product which was not sold "as is".

Mail-In Service--Online Repair Request

Online Repair Request

To submit a new repair request and for quick repair status visit our Web Site at

http://shop.panasonic.com/support

When shipping the unit, carefully pack, include all supplied accessories listed in the Owner's Manual, and send it prepaid, adequately insured and packed well in a carton box. When shipping Lithium Ion batteries please visit our Web Site at http://shop.panasonic.com/support a Panasonic is committed to providing the most up to date information. Include a letter detailing the complaint, a return address and provide a daytime phone number where you can be reached. A valid registered receipt is required under the Limited Warranty.

IF REPAIR IS NEEDED DURING THE WARRANTY PERIOD, THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES. RECEIPT/PROOF OF PURCHASE INDICATING DATE OF. PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT. RECEIVED WITHOUT SUCH PROOF OF PURCHASE.

Limited Warranty Limits and Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

The model number and serial number of this product can be found on either the back or the bottom of the unit. Please note them in the space provided below and keep for future reference.

MODEL NUMBER SL-1200GAE

SERIAL NUMBER

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR

CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.

(As examples, this excludes damages for lost time, travel to and from the servicer, loss of or damage to media or images, data or other memory or recorded content. The items listed are not exclusive, but for illustration only.)

ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to:

Consumer Affairs Department Panasonic Corporation of North America 661 Independence Pkwy Chesapeake, VA 23320

PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.



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http://shop.panasonic.com/support

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Customer Services Directory

For Product Information, Operating Assistance, Parts, Owner's Manuals, Dealer and Service info go to <u>http://shop.panasonic.com/support</u>

For the hearing or speech impaired TTY: 1-877-833-8855

As of March 2016

User memo:

DATE OF PURCHASE

DEALER NAME

DEALER ADDRESS

TELEPHONE NUMBER

Limited Warranty (ONLY FOR CANADA)

Panasonic Canada Inc. 5770 Ambler Drive, Mississauga, Ontario L4W 2T3 TECHNICS PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by Panasonic Canada Inc.

Technics Network Audio Amplifier	3 (three) years parts and labour
Technics Music Server	3 (three) years parts and labour
Technics CD Stereo System	3 (three) years parts and labour
Technics Turntable System	3 (three) years parts and labour

This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Technics brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold "as is", and which product was delivered to you in new condition in the original packaging.

IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING <u>AMOUNT PAID AND PLACE OF PURCHASE</u> IS REQUIRED

LIMITATIONS AND EXCLUSIONS

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic Canada Inc., or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than an Authorized Servicer, or damage that is attributable to acts of God.

Dry cell batteries are also excluded from coverage under this warranty.

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In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable. This warranty gives you specific legal rights and you may have other rights which vary depending on your province or territory.

WARRANTY SERVICE

For product operation, repairs and information assistance, please visit our Support page on: www.panasonic.ca/english/support

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton. Include details of the defect claimed, and proof of date of original purchase.

Panasonic Corporation of North America

Two Riverfront Plaza, Newark, NJ 07102-5490 http://www.panasonic.com

Panasonic Canada Inc.

5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 www.panasonic.com

> En Cf SQT1087-1 S0316AK1046



