SHARP

MIKRO KOMPONENTEN SYSTEM
MICRO-CHAÎNE
SISTEMA MICRO
MIKRO KOMPONENT SYSTEM
MICRO SISTEMI
MICRO SYSTEEM
SISTEMA DE MICRO COMPONENTE
MICRO COMPONENT SYSTEM

MODELL	MODELLO
MODÈLE	MODEL
MODELO	MODELO
MODELL	MODEL

XL-MP333H
XL-MP444H

BEDIENUNGSANLEITUNG	MANUALE DI ISTRUZIONI
MODE D'EMPLOI	GEBRUIKSAANWIJZING
MANUAL DE MANEJO	MANUAL DE OPERAÇÃO
BRUKSANVISNING	OPERATION MANUAL

COMPACT DISC DIGITAL AUDIO · R·D·S

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6w   ENERGY   MP3
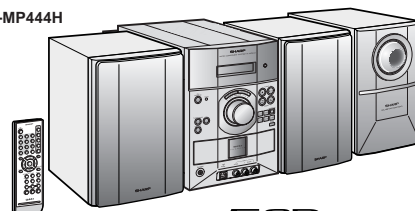
XL-MP333H
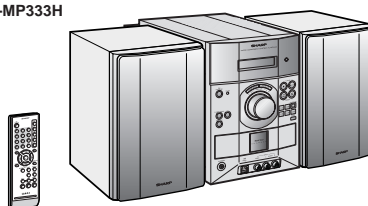
XL-MP444H

5CD CHANGER

- Die Abbildungen in dieser Bedienungsanleitung sind für das Modell XL-MP444H.
- Les illustrations utilisées dans ce mode d'emploi sont pour le modèle XL-MP444H.
- Las ilustraciones impresas en este manual de manejo son del modelo XL-MP444H.
- Bilderna i denna bruksanvisning gäller för modelltypen XL-MP444H.
- Le illustrazioni stampate in questo manuale di istruzioni sono per il modello XL-MP444H.
- De afbeeldingen in deze gebruiksaanwijzing zijn gebaseerd op het XL-MP444H model.
- As ilustrações impressas neste manual de operações são para o modelo XL-MP444H.
- The illustrations printed in this operation manual are for the model XL-MP444H.

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XL-MP333H
XL-MP444H

BESONDERE ANMERKUNGEN
REMARQUES SPÉCIALES
NOTAS ESPECIALES
SÄRSKILDA ANMÄRKNINGAR
NOTE PARTICOLARI
BIJZONDERE OPMERKINGEN
NOTAS ESPECIAIS
SPECIAL NOTES

- Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

- Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

- Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

- Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

- Quest'apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

- **Dichiarazione di conformità**
  La società SHARP ELECTRONICS EUROPE GmbH dichiara che il prodotto SHARP MICRO SISTEMI XL-MP333H/XL-MP444H è costruito in conformità alle prescrizioni del D.M.n°548 del 28/8/95, pubblicato sulla G.U.n°301 del 28/12/95 ed in particolare è conforme a quanto indicato nell'art. 2, comma 1 dello stesso decreto.

- Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

- Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

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- Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillaeg nr. 93/68/EEC.

- Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

- Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

- Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

- Bei Einstellung der ON/STAND-BY-Taste auf STAND-BY ist die Netzspannung immer noch im Gerät vorhanden.
  Wenn die ON/STAND-BY-Taste auf STAND-BY eingestellt wird, kann das Gerät unter Verwendung der Timer-Betriebsart oder Fernbedienung in Betrieb gesetzt werden.

  Warnung:
  In diesem Gerät sind keine vom Benutzer wartbaren Teile vorhanden. Niemals Abdeckungen entfernen, außer wenn Sie dafür qualifiziert sind. In diesem Gerät sind gefährliche Spannungen vorhanden. Vor Ausführung von irgendwelchen Kundendienstarbeiten oder bei längerer Nichtverwendung des Gerätes stets den Netzstecker aus der Netzsteckdose ziehen.

- Lorsque la touche ON/STAND-BY est mise en STAND-BY, l'appareil est toujours sous tension.
  Lorsque la touche ON/STAND-BY se trouve sur la position STAND-BY, l'appareil est prêt à fonctionner par la minuterie ou la télécommande.

  Avertissement:
  Cet appareil contient des pièces non réparables par l'utilisateur. Personne non qualifiée n'enlèvera jamais les couvercles. L'appareil contenant des organes portés à haute tension, débrancher l'appareil avant toute réparation ou en période de non-utilisation.

● Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, todavía hay tensión dentro del aparato.
Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, el aparato puede ponerse en funcionamiento utilizando el modo del temporizador o el controlador remoto.

Advertencia:
Tenga en cuenta que dentro de este aparato no hay piezas que pueda reparar. No quite nunca las tapas a menos que se esté cualificado para hacerlo. Este aparato tiene en su interior tensiones peligrosas.
Desenchufe siempre la clavija de la red del tomacorriente antes de realizar cualquier servicio de mantenimiento y cuando no se use el aparato durante un largo período de tiempo.

● När ON/STAND-BY knappen är i läge STAND-BY, finns nätspänning i apparaten.
Med ON/STAND-BY knappen i läge STAND-BY kan apparaten startas med timerfunktion eller fjärrkontrollen.

Varning:
Apparaten innehåller inga delar som kan åtgärdas av kunden. Höljet får endast öppnas av kvalificerad personal. Apparaten innehåller farliga spänningar.
Stickkontakten ska därför dras ut från nätuttaget före reparationsarbeten och bör dras ut om apparaten inte ska användas på mycket länge.

● Quando il tasto ON/STAND-BY si trova in posizione STAND-BY, all'interno dell'apparecchio c'è ancora la corrente.
Se il tasto ON/STAND-BY si trova nella posizione STAND-BY, l'unità può essere accesa con il modo timer o con il telecomando.

Avvertenza:
L'apparecchio non contiene parti riparabili dall'utente.
Non togliere mai i coperchi, a meno di non essere qualificati per farlo. All'interno dell'apparecchio ci sono tensioni pericolose, per cui si deve sempre staccare la spina del cavo d'alimentazione dalla presa di corrente prima di qualsiasi intervento di manutenzione e quando non si usa l'apparecchio per un lungo periodo di tempo.

● Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, loopt er nog steeds stroom (netspanning) in het toestel.
Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, kan het toestel ingeschakeld worden via de timerfunctie of de afstandsbediening.

Waarschuwing:
Dit toestel bevat geen door de gebruiker te repareren onderdelen. Verwijder de behuizing nooit tenzij u deskundig bent op dit gebied. In het toestel loopt een gevaarlijke spanning; haal de stekker altijd uit het stopcontact alvorens onderhoud uit te voeren of wanneer het toestel voor langere tijd niet gebruikt wordt.

● Quando o botão ON/STAND-BY estiver ajustado na posição STAND-BY, a voltagem de alimentação ainda se encontra presente dentro do aparelho.
Quando o botão ON/STAND-BY estiver ajustado na posição STAND-BY, o aparelho pode ser colocado em operação através do modo de programação horária ou pelo controle remoto.

Advertência:
Neste aparelho não há partes que podem ser consertadas pelo usuário. Nunca retire a tampa, a menos que você tenha qualificação para tal. Este aparelho contém voltagens perigosas. Remova sempre o cabo de alimentação da tomada antes de efetuar qualquer conserto ou quando deixar o aparelho muito tempo fora de uso.

● When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit.
When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.

Warning:
This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.

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● Når ON/STAND-BY-knappen er sat i STAND-BY positionen, er der stadig netspaending til stede i apparatet.
Når ON/STAND-BY-knappen er sat i STAND-BY position, kan apparatet startes v.hj.a. timer-funksionen eller fjernbetjeningen.

Advarsel:
Apparatet indeholder ingen dele, der kan repareres af brugeren selv. Fjern aldrig kabinettet med mindre De er kvalificeret hertil. Apparatet indeholder farlig strømspaending. Traek altid stikket ud af stikkontakten før der foretages reparationer, eller hvis apparatet ikke er i brug i laengere tid.

PŘED SEJMUTÍM KRYTU NUTNO VYJMOUT VIDLICI ZE SÍŤOVÉ ZÁSUVKY.

PRED ZLOŽENÍM KRYTU JE NUTNÉ ODPOJIŤ PRÍSTROJ ZO SIETE.

DENNA APPARAT ÄR ANSLUTEN TILL 230 V VÄXELSTRÖM NÄR STICKPROPPEN ÄR INSKJUTEN I VÄGGUTTAGET. FÖR ATT FULLSTÄNDIGT KOPPLA IFRÅN APPARATEN, V.G. DRAG UT STICKPROPPEN.

● **Vorsicht:**
Das Gerät weder Tropf- noch Spritzwasser aussetzen. Ansonsten besteht die Gefahr eines Brandes oder elektrischen Schlages. Es dürfen keine mit Flüssigkeiten gefüllten Gegenstände wie Vasen auf dem Gerät abgestellt werden.

● **Attention:**
Pour éviter un incendie ou une secousse électrique, mettre l'appareil à l'abri de l'eau (éclaboussure, goutte). Ne pas poser sur l'appareil un récipient contenant du liquide.

● **Advertencia:**
Para evitar incendios y descargas eléctricas, no exponga el aparato a goteo o salpicadura de líquidos. No deberán ponerse encima del aparato objetos que estén llenos de líquido, como por ejemplo un florero.

● **Varning:**
Utsätt inte enheten för dropp eller stänk för att förhindra brand eller elektriska stötar. Inga vätskefyllda föremål såsom vaser får placeras på enheten.

● **Attenzione:**
Per prevenire incendi o scosse elettriche, non fare gocciolare nessun liquido sull'apparecchio e non bagnarlo. Non collocarvi sopra nessun oggetto riempito d'acqua, come per esempio vasi.

● **Waarschuwing:**
Stel het toestel niet bloot aan druipend of spattend water om brand en elektrische schokken te voorkomen. Met vloeistoffen gevulde voorwerpen, zoals vazen, mogen niet op het toestel geplaatst worden.

● **Cuidado:**
Para evitar incêndio ou choque elétrico, não exponha este aparelho a gotejamento ou salpicamento de água. Não coloque objetos com água como, por exemplo, um vaso de flores, em cima do aparelho.

● **Warning:**
To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

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● **Advarsel:**
Til at forbygge ild og stød risiko, lad vaere med at undsaette denne indretning for drypning eller overstaenkning. Der må ikke anbringes nogen genstande fyldt med vand, som for eksempel vaser, på dette apparat.

● **Advarsel:**
For å unngå brann eller kortslutning, utsett ikke produktet for vann eller fuktighet. Gjenstander som inneholder vaeske, feks. en blomstervase, må ikke plasseres oppå apparatet.

● **Varoitus:**
Älä vie laitetta sateeseen tai kosteisiin tiloihin. Jos laite on kostunut, anna sen kuivua ennen kuin käytät sitä verkkovirralla. Nestettä sisältäviä astioita kuten esim. kukkamaljakoita ei saa asettaa laitteen päälle.

PŘÍSTROJ NEVYSTAVUJTE KAPAJÍCÍ NEBO STŘÍKAJÍCÍ VODĚ.

PRÍSTROJ NEVYSTAVUJTE KVAPKAJÚCEJ ALEBO STRIEKAJÚCEJ VODE.

Urządzenie należy chronić przed zalaniem i wilgocią.

● Dieses Produkt ist ein Laserprodukt der Klasse 1.
● Ce produit est classifié comme étant un LASER DE CLASSE 1.
● Este producto está clasificado como un PRODUCTO LÁSER DE CLASE 1.
● Denna produkt klassificeras som KLASS 1 LASERPRODUKT.
● Questo prodotto è classificato come CLASS 1 LASER PRODUCT.
● Dit product is geclassificeerd als een KLASSE 1 LASER PRODUCT.
● Este produto é classificado como PRODUTO LASER DE CLASSE 1.
● This product is classified as a CLASS 1 LASER PRODUCT.

● Dette produktet er klassifisert som et KLASSE 1 LASERPRODUKT.
● Dette produkt er klassificeret som et KLASSE 1 LASERPRODUKT.
● Tämä laite on luokiteltu LUOKAN 1 LASERLAITTEEKSI.
● Denna produkt klassificeras som KLASS 1 LASERAPPARAT.
● Tento výrobek je klasifikován jako LASEROVÝ VÝROBEK TŘÍDY 1.
● Tento výrobok je klasifikovaný ako LASEROVÝ VÝROBOK TRIEDY 1.

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● **VORSICHT**
Verwendung von Regelungen oder Einstellungen bzw. Durchführung von anderen Verfahren als die hierin angegebenen kann zum Aussetzen gefährlicher Strahlung führen.

Da der in diesem Gerät verwendete Laserstrahl für die Augen schädlich ist, ist das Gehäuse unter keinen Umständen zu zerlegen. Wenden Sie sich für Wartungsarbeiten nur an berechtigten Fachhändler.

● **ATTENTION**
Respecter les indications données relatives à la manipulation, au réglage et au fonctionnement. En cas de non-respect, on s'exposera à une radiation dangereuse.

Éviter absolument de démonter l'appareil, qui utilise un rayon laser nuisible aux yeux. Pour toute réparation, s'adresser à une personne qualifiée.

● **PRECAUCIÓN**
El uso de los controles, ajustes o ejecución de procedimientos distintos de los especificados podría causar la exposición a radiación peligrosa.

No intente desmontar la caja ya que el haz de láser usado en este aparato es perjudicial para los ojos. Para el servicio de reparación, consulte a una persona cualificada.

● **OBSERVERA**
Användning av reglage eller justeringar eller handhavande på annat sätt än som anges kan leda till farlig bestrålning.

Försök inte ta isär höljet eftersom enhetens laserstråle är skadlig för ögonen. Överlåt service endast till kvalificerad personal.

● **ATTENZIONE**
L'uso dei comandi e l'effettuazione di regolazioni e procedimenti diversi da quelli specificati nel manuale possono provocare una pericolosa esposizione alle radiazioni.

Poiché il raggio laser usato in questo apparecchio può danneggiare gli occhi, non smontare l'apparecchio. Per le riparazioni rivolgersi a personale specializzato.

● **LET OP**
Gebruik van regelaars, het maken van instellingen, gebruik of handelingen anders dan in deze gebruiksaanwijzing vermeld, kan gevaarlijke straling bootleggen.

De laserstraal in dit toestel kan de ogen beschadigen, Probeer derhalve de ombouw niet te verwijderen. Laat reparaties alleen over aan erkend onderhoudspersoneel.

● **CUIDADO**
O uso de controles, ajustes ou a execução de procedimentos além daqueles especificados aqui pode resultar em perigosa exposição à radiação.

Como os raios laser usados nesta unidade são perigosos para os olhos, não tente desmontar o aparelho. Solicite o conserto somente para pessoas especializadas.

● **CAUTION**
Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this unit is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

VÝSTRAHA: VÝROBEK JE VYBAVEN LASEREM.
PŘI NESPRÁVNÉ MANIPULACI S PŘÍSTROJEM V ROZPORU S TÍMTO NÁVODEM MŮŽE DOJÍT K NEBEZPEČNÉMU OZÁŘENÍ. NEOTVÍREJTE A NESNÍMEJTE PROTO ŽÁDNÉ KRYTY A PŘÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS SVĚŘTE ODBORNÉMU SERVISU.

VÝSTRAHA: VÝROBOK JE VYBAVENÝ LASEROM.
PRI NESPRÁVNOM MANIPULOVANÍ S PRÍSTROJOM V ROZPORE S TÝMTO NÁVODOM MÔŽE DÔJSŤ K NEBEZPEČNÉMU OŽIARENIU. NEODKRÝVAJTE PRETO ŽIADNE KRYTY A PRÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS PRENECHAJTE ODBORNÉMU SERVISU.

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Eigenschaften der Laserdiode
    Material: GaAIAs
    Wellenlänge: 780 nm
    Emissionsdauer: kontinuierlich
    Laser-Ausgang: max. 0,6 mW

Caractéristiques de la diode laser
    Matière: GaAIAs
    Longueur d'onde: 780 nm
    Durée d'émission: ininterrompue
    Puissance de sortie laser maximale: 0,6 mW

Características del diodo láser
    Material: GaAIAs
    Longitud de onda: 780 nm
    Duración de emisión: continua
    Salida de láser: máx. 0,6 mW

Laserdiodens egenskaper
    Material: GaAIAs
    Våglängd: 780 nm
    Utstrålningsvaraktighet: kontinuerlig
    Lasereffekt: max. 0,6 mW

Proprietà del diodo laser
    Materiale: GaAIAs
    Lunghezza d'onda: 780 nm
    Durata di emissione: continua
    Uscita massima del laser: 0,6 mW

Laser diode specificaties
    Materiaal: GaAIAs
    Golflengte: 780 nm
    Stralingsduur: doorlopend
    Laseruitgang: max. 0,6 mW

Propriedades do diodo laser
    Material: GaAIAs
    Comprimento de onda: 780 nm
    Duração da emissão: contínua
    Saída de laser: máx. 0,6 mW

Laser Diode Properties
    Material: GaAIAs
    Wavelength: 780 nm
    Emission Duration: continuous
    Laser Output: max. 0.6 mW

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CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS.

WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT
GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER
DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.

ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE.
NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES
INSTRUMENTS OPTIQUES.

ADVERSEL-SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING.
SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE
LASERSÄTEILYLLE ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ
OPTISEN LAITTEEN LÄPI.

VARNING-SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA
DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ
STRÅLEN GENOM OPTISKT INSTRUMENT.

**VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ
KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA
ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1
YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.**

**VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN
I DENNA BRUKSANVISNING SPECIFICERAS. KAN
ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASER-
STRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR
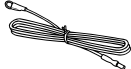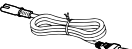LASERKLASS 1.**

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ENGLISH

Introduction

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.
● XL-MP333H Micro Component System consisting of XL-MP333H (main unit) and CP-MP333H (speaker system).
● XL-MP444H Micro Component System consisting of XL-MP444H (main unit), CP-MP444HF (front speakers) and CP-MP444HSW (subwoofer).

Accessories

Please confirm that the following accessories are included.

(XL-MP333H)	(XL-MP444H)
Remote control × 1	
AM loop aerial × 1	**FM aerial** × 1
AC power lead × 1	**"AA" size battery (UM/SUM-3, R6, HP-7 or similar)** × 2

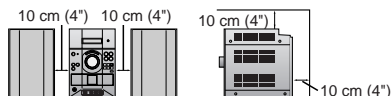**Note:**
Only the above accessories are included.

Contents

General Information

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Precautions

■ General

● Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.

10 cm (4")   10 cm (4")   10 cm (4")

10 cm (4")

● Use the unit on a firm, level surface free from vibration.

● Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.

● Do not place anything on top of the unit.
● Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
● If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.

● In case of an electrical storm, unplug the unit for safety.

● Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.

● **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**
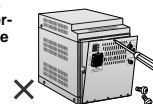
● The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.
● No naked flame sources, such as lighted candles, should be placed on the apparatus.
● Attention should be drawn to the environmental aspects of battery disposal.
● The apparatus is designed for use in moderate climate.
● This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.
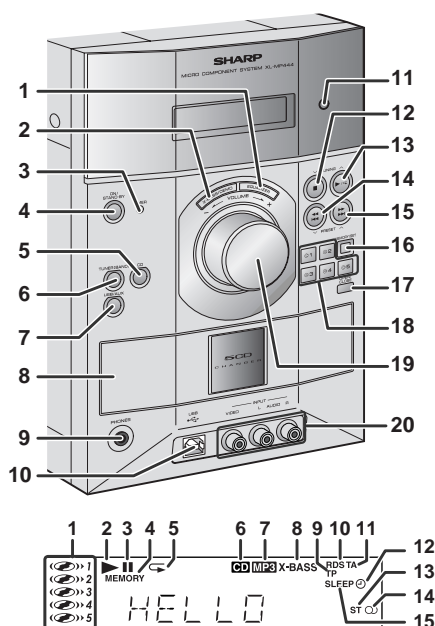
■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, etc.) or on the transmitter on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

General Information

8

E-2

9

TINSZA022SJZZ

04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ

Controls and indicators

General Information

E-3

■ **Front panel**

Reference page

1. Equaliser Mode Select Button 12
2. Extra Bass/Demo Mode Button 10, 12
3. Timer Indicator 35
4. On/Stand-by Button 12
5. CD Button 14
6. Tuner (Band) Button 21
7. USB/Auxiliary Button 32, 33
8. Disc Compartment 14
9. Headphone Socket 33
10. USB Socket 29
11. Remote Sensor 11
12. Stop or Tuning Down Button 16, 21
13. Play or Repeat, Tuning Up Button 15, 19, 21
14. Track Down or Fast Reverse,
    Tuner Preset Down Button 16, 22
15. Track Up or Fast Forward, Tuner Preset Up Button . . 16, 22
16. Memory/Set Button 20, 22
17. Disc Compartment Open/Close Button 14
18. Disc Number Select Buttons 18
19. Volume Control 12
20. Video and Audio Input Sockets 33

■ **Display**

Reference page

1. Disc Number Indicators 18
2. Play Indicator 15
3. Pause Indicator 16
4. Memory Indicator 20
5. Repeat Play Indicator 19
6. CD Indicator 15
7. MP3 Disc Indicator 15
8. Extra Bass Indicator 12
9. Traffic Programme Indicator 23
10. RDS Indicator 24
11. Traffic Announcement Indicator 23
12. Timer Play Indicator 34
13. FM Stereo Mode Indicator 21
14. FM Stereo Receiving Indicator 21
15. Sleep Indicator 36

(XL-MP333H)
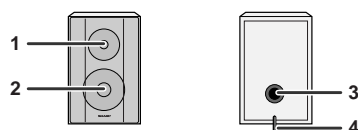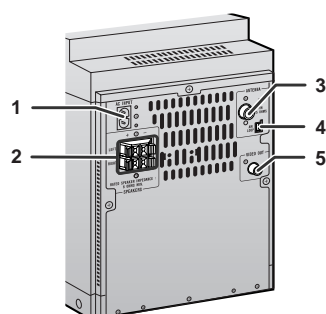
■ Rear panel

Reference page
1. AC Power Input Socket 10
2. Speaker Terminals 9
3. FM 75 Ohms Aerial Socket 9
4. AM Loop Aerial Socket 9
5. Video Output Socket 33

■ Speaker system
1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire

Speaker grilles are removable:
Make sure nothing comes into contact with the
speaker diaphragm when you remove the
speaker grilles.

General Information

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E-4
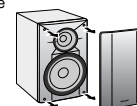
Controls and indicators (continued)

(XL-MP444H)

General Information

E-5
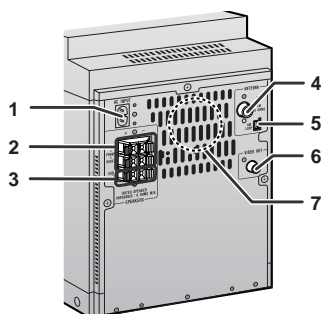
■ **Rear panel**

Reference page

1. AC Power Input Socket 10
2. Front Speaker Terminals 9
3. Subwoofer Terminals 9
4. FM 75 Ohms Aerial Socket 9
5. AM Loop Aerial Socket 9
6. Video Output Socket 33
7. Cooling Fan 10

■ **Front speaker**
1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire

Front speaker grilles are removable:
Make sure nothing comes into contact with the
speaker diaphragm when you remove the
speaker grilles.
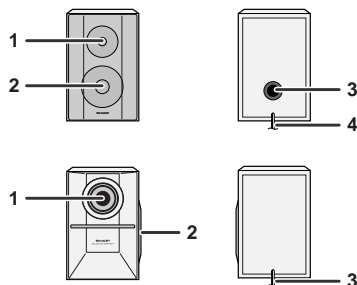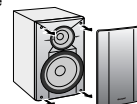
■ **Subwoofer**
1. Sub Duct Pipe
2. Subwoofer
3. Speaker Wire

1

2

3

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★ 10

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(★: XL-MP444H only)

■ **Remote control**

General Information

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04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ

System connections

Preparation for Use

Make sure to unplug the AC power lead before making any connections.

(XL-MP333H)

■ **Aerial connection (see page 9)**

FM aerial

AM loop aerial

Right speaker

Left speaker

Wall socket
(AC 230 V, 50 Hz)

■ **Speaker connection (see page 9)**

■ Connecting the AC power lead (see page 10)

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04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ
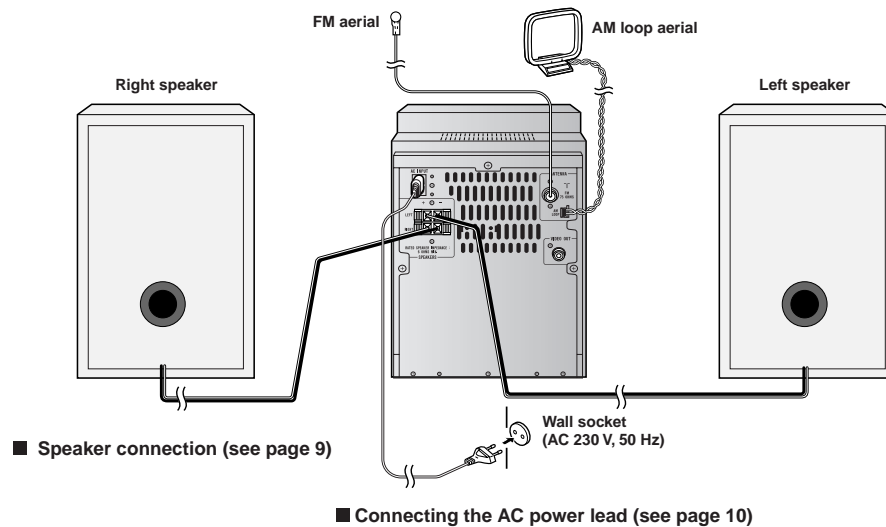
Make sure to unplug the AC power lead before making any connections.

(XL-MP444H)

■ **Aerial connection (see page 9)**
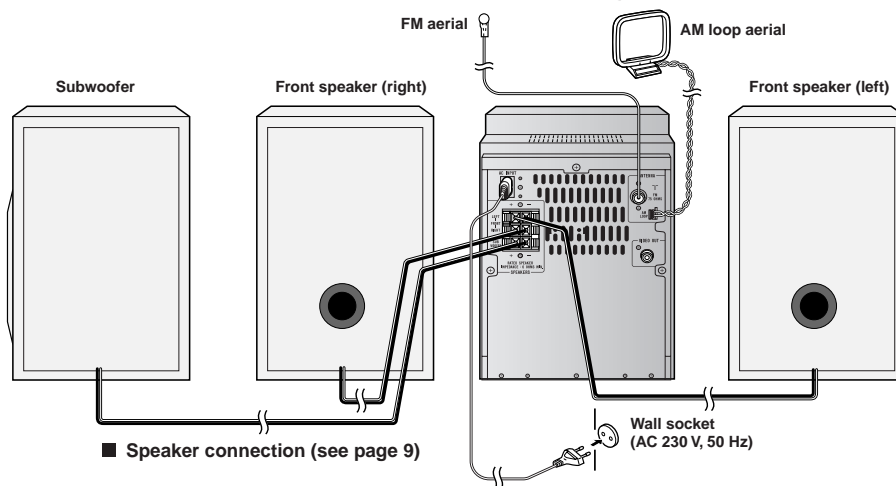
FM aerial
AM loop aerial

Subwoofer Front speaker (right) Front speaker (left)

Preparation for Use

Wall socket
(AC 230 V, 50 Hz)

■ **Speaker connection (see page 9)**

■ **Connecting the AC power lead (see page 10)**

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8

System connections (continued)

Preparation for Use

■ Aerial connection

Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

Supplied AM loop aerial:
Connect the AM loop aerial to the AM LOOP socket. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).

Note:
Placing the aerial on the stereo system or near the AC power lead may cause noise pickup. Place the aerial away from the stereo system for better reception.

Installing the AM loop aerial:
< Assembling >   < Attaching to the wall >

Wall   Screws (not supplied)
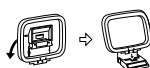
External FM aerial:
Use an external FM aerial if you require better reception. Consult your dealer.

ANTENNA
FM 75 OHMS
AM LOOP

External FM aerial

■ Speaker connection

Connect the black wire to the minus (-) terminal, and the red wire to the plus (+) terminal.

(XL-MP333H)

Right speaker   **Left speaker**

Red   Black

(XL-MP444H)

Subwoofer   **Front speaker (right)**   **Front speaker (left)**

Red   Black

E-9
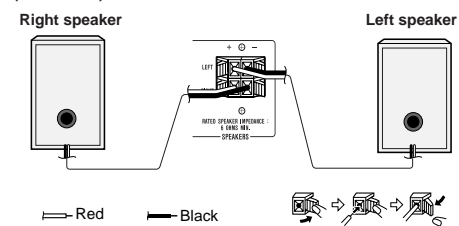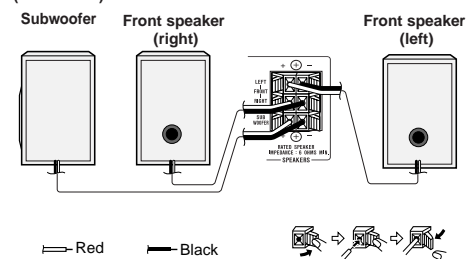
Caution:
- Use speakers with an impedance of 6 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.

- Do not stand or sit on the speakers. You may be injured.

Incorrect
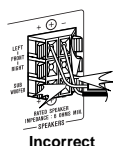
Notes:
- The speakers are magnetically shielded. Therefore, they do not affect the display even you use them near the TV. However, some colour variation may occur, depending on the type of TV used.

  If colour variation occurs...
  Turn off the TV (from the power switch).
  After 15 - 30 minutes, turn the TV on again.

  If the colour variation is still present...
  Move the speakers further away from the TV.

- If any kind of magnet or an electromagnet is placed too close to the TV and the system, irregular colours may appear on the TV screen.

■ Cooling fan (XL-MP444H only)

This product is equipped with a cooling fan inside for better heat radiation.

■ Connecting the AC power lead

After checking all the connections have been made correctly, connect the AC power lead to the AC power input socket, then plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the demonstration mode.

**Wall socket
(AC 230 V, 50 Hz)**
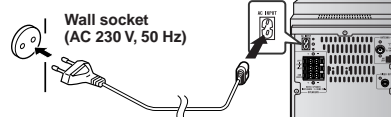
Notes:
- Never use a power lead other than the one supplied. Otherwise, a malfunction or an accident may occur.
- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

■ Demonstration mode

When you plug the unit in for the first time, the unit will enter the demonstration mode. You will see words scroll.

HELLO
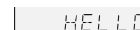
To cancel the demonstration mode:
When the unit is in the power stand-by mode (demonstration mode), press the X-BASS/DEMO button. The unit will enter the low power consumption mode.

X-BASS/DEMO

To return to the demonstration mode:
When the unit is in the power stand-by mode, press the X-BASS/DEMO button again.

Note:
When the power is on, the X-BASS/DEMO button can be used to select the extra bass mode.

Preparation for Use

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04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ

Remote control

Preparation for Use

■ Battery installation

1 **Remove the battery cover.**
2 **Insert the supplied batteries according to the direction indicated in the battery compartment.**
   When inserting or removing the batteries, push them toward the ⊖ battery terminals.
3 **Replace the cover.**
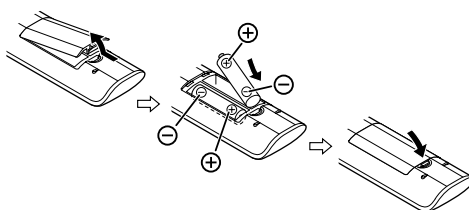
Precautions for battery use:
● Replace all old batteries with new ones at the same time.
● Do not mix old and new batteries.
● Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:
● Do not use rechargeable batteries (nickel-cadmium battery, etc.).
● Installing the batteries incorrectly may cause the unit to malfunction.

E-11

Notes concerning use:
● Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AA" size batteries (UM/ SUM-3, R6, HP-7 or similar).
● Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
● Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit if this occurs.
● Keep the remote control away from moisture, heat, shock, and vibrations.

■ Test of the remote control

Check the remote control after checking all the connections (see pages 7 - 10).
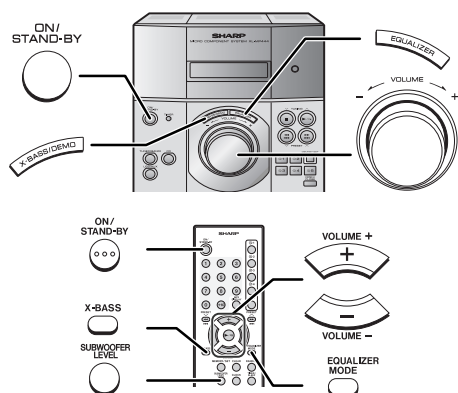Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.

Remote sensor

0.2 m - 6 m
(8" - 20')

15° 15°

ON /
STAND-BY
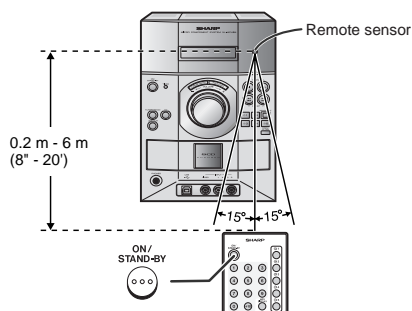
General control

■ To turn the power on
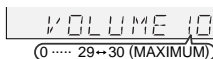Press the ON/STAND-BY button to turn the power on.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

■ Volume control

Main unit operation:
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.
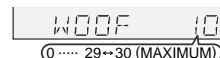
VOLUME 10

(0 ····· 29↔30 (MAXIMUM))

Remote control operation:
Press the VOLUME (+ or -) button to increase or decrease the volume.

■ Subwoofer volume control (XL-MP444H only)
1. Press the SUBWOOFER LEVEL button on the remote control.
2. Within 5 seconds, adjust the subwoofer volume with the VOLUME control (main unit) or the VOLUME (+ or -) button (remote control).

WOOF 10

(0 ····· 29↔30 (MAXIMUM))

■ Bass control (X-BASS)
When the power is first turned on, the unit will enter the extra bass mode which emphasises the bass frequencies, and "X-BASS" will appear. To cancel the extra bass mode, press the X-BASS/DEMO (X-BASS) button.

X-BASS

BASS ON
⇕
BASS OFF
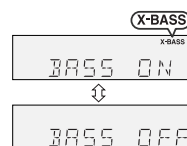
■ Equaliser
When the EQUALIZER (EQUALIZER MODE) button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER (EQUALIZER MODE) button repeatedly until the desired sound mode appears.
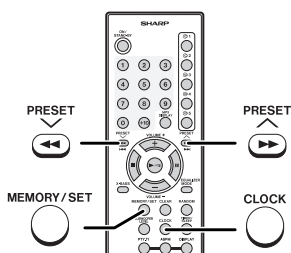
FLAT   The sound is not modified.
↓
ROCK   Bass and treble are emphasised.
↓
CLASSIC   Treble is cut a little.
↓
POPS   Bass and treble are slightly emphasised.
↓
VOCAL   Vocals (midrange tones) are emphasised.
↓
JAZZ   Treble is slightly emphasised.

Basic Operation

8

E-12

Setting the clock

Basic Operation

PRESET ⌄
◄◄

PRESET ⌃
►►

MEMORY / SET

CLOCK

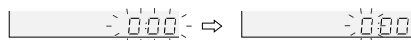In this example, the clock is set for the 24-hour (0:00) display.

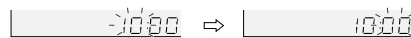| 1	**Press the CLOCK button and within 8 seconds, press the MEMORY/SET button.**

-CLOCK- ⇨ -0:00-

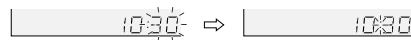| 2	**Within 30 seconds, press the PRESET (⌄ or ⌃) button to select 24-hour or 12-hour display and then press the MEMORY/SET button.**

-0:00- ⇨ -0:00-

"0:00"   →   The 24-hour display will appear.
(0:00 - 23:59)

"AM 12:00" →   The 12-hour display will appear.
(AM 12:00 - PM 11:59)

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3	**Within 30 seconds, press the PRESET (⌄ or ⌃) button to adjust the hour and then press the MEMORY/SET button.**

-10:00- ⇨ 10:00

Press the PRESET (⌄ or ⌃) button once to advance the time by 1 hour. Hold it down to advance continuously.

4	**Within 30 seconds, press the PRESET (⌄ or ⌃) button to adjust the minutes and then press the MEMORY/SET button.**

10:30 ⇨ 10:30

Press the PRESET (⌄ or ⌃) button once to advance the time by 1 minute. Hold it down to advance continuously.

To confirm the time display:
Press the CLOCK button.
The time display will appear for about 8 seconds.

10:30
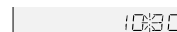
Note:
The "CLOCK" or time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit.
Readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from step 1. If the "CLOCK" is not flashing in step 1, step 2 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:
1   Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 38 for details.]
2   Perform "Setting the clock" from step 1.

# Listening to a CD or MP3 disc

This system can also play audio CD-R and CD-RW discs, but cannot record.

Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the equipment used for recording.

MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.

MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.

Notes:
- Due to the structure of its disc information, it takes longer to read an MP3 disc than a normal CD.
- "MP3" indicator will light up if an MP3 disc is initialised.
- This system supports MPEG 1 Layer 3, MPEG 2 Layer 3, and VBR files.
- During VBR file playback, time counter in the display may differ from its actual playback time.
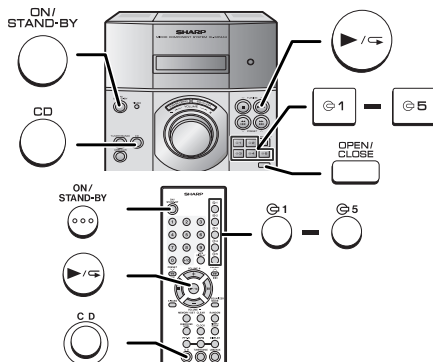
1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD button.

3 Press the OPEN/CLOSE button to open the disc compartment.

All trays open in tiers.

4 Place the CD on the disc tray 1, label side up.

Be sure to place 8 cm (3") CD in the middle of the disc trays.

12 cm (5") 8 cm (3")

5 To place discs in the trays 2 - 5

1. Slide in the tray with a disc toward the unit.

2. Place a disc in an empty tray.

CD or MP3 disc Playback

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Listening to a CD or MP3 disc (continued)

CD or MP3 disc Playback

6 Press the OPEN/CLOSE button to close the disc compartment.

[CD]

CD Indicator

16   47:38

Total number of tracks on the CD whose number is flashing

Total playing time of the CD whose number is flashing

[MP3]

MP3 Disc Indicator

16   MP3

Total number of tracks on the MP3 disc whose number is flashing

7 Press the ▶ / ⏏ button to start playback.

Play indicator

01   0:03

- Playback will begin from track 1 on disc 1. After that disc finishes playing, the next disc will automatically play.
- After the last track on the fifth disc is played, the CD player stops automatically.
- When there is no disc in one of the disc trays (1 - 5), the empty tray will be skipped to the next tray with a disc.

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To exchange other discs whilst playing a disc:
Press the OPEN/CLOSE button. When trays open, exchange discs. The tray in use does not open.

To remove the discs:
1. In the stop mode, press the OPEN/CLOSE button.
   All trays open in tiers.
2. Remove the disc in the tray 1.

3. Slide in the tray 1 toward the unit.
   In the same way, remove discs in the trays 2 - 5.
4. After removing the discs, press the OPEN/CLOSE button again.

To specify a tray to open:
1. In the stop mode, press the ◎1 - ◎5 button.
2. Press the OPEN/CLOSE button.
3. Remove the disc, then press the OPEN/CLOSE button again.

■ Various disc functions

Function	Main unit	Remote control	Operation
Play	►/⊂	►/⊂	Press in the stop mode.
Stop	■	■	Press in the playback mode.
Pause	—	‖	Press in the playback mode. Press the ► / ⊂ button to resume playback from the paused point.
Track up/ Track down	►►/ ◄◄	►►/ ◄◄	Press in the playback or stop mode. If you press the button in the stop mode, press the ► / ⊂ button to start the desired track.
Fast for- ward/Fast reverse	►►/ ◄◄	►►/ ◄◄	Press and hold down in the playback mode. Release the button to re- sume playback.

Notes:
● Track up/track down and fast forward/fast reverse are possible only within one disc.
● When the end of the last track is reached during fast forward, "×× END" will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast re- verse, the unit will enter the playback mode.
(××: Last track number)

Caution:
● Do not place two discs in one disc tray.
● Do not play discs with special shapes (heart or octagon shaped) as it may cause malfunctions.
● Do not push the disc compartment whilst it is moving.
● If the power fails whilst the disc compartment is open, wait until the power is restored.
● If the disc compartment is stopped with force, the unit will not function. If this occurs, press the ON/STAND-BY button to enter the power stand-by mode and then turn the power on again.
● If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
● If a disc is damaged, dirty, or loaded upside down, the disc will skip or not play.

CD or MP3 disc Playback

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04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ

Advanced CD or MP3 disc playback

CD or MP3 disc Playback

■ To change the display (MP3 discs only)

Whilst in the stop mode or playback mode, press the MP3 DISPLAY button. Each time the button is pressed, the display will change as follows.

MP3 DISPLAY

[When in the stop mode]

Total number of tracks   Folder name

Track name

[When in the playback mode]

Track number   Elapsed playback time   Folder name
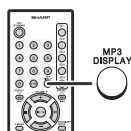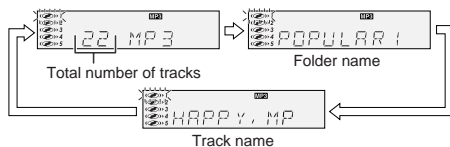
Track name
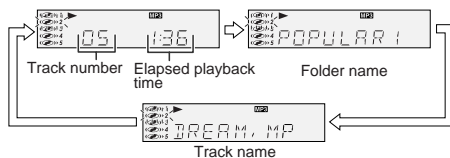
■ To select the desired folder or track by name (MP3 discs only)

1 **Whilst in the stop mode, press the MP3 DISPLAY button on the remote control to display the folder name.**
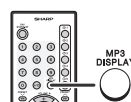
MP3 DISPLAY

POPULAR 1

2 **Select the desired folder by pressing the |◄◄ or ►►| button.**

3 **Press the MP3 DISPLAY button to display the track name.**

HAPPY, MP

4 **Select the desired track by pressing the |◄◄ or ►►| button.**

5 **Press the ► / ⊏ button to begin playback.**

05   001

9

E-17

■ To play from a specified disc

You can start playback from the desired disc by selecting the number.

1	**Press one of the ◎1 - ◎5 buttons to select the desired disc.**
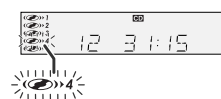
Selected disc number

2	**Press the ► / ⌐ button.**

● Playback will begin from track 1 on the chosen disc. After that disc finished playing the next disc automatically play.
● After the last track on the fifth disc is played, the CD player stops automatically.

Note:
If a disc tray with no disc is selected, playback will not start and the disc indicator will go out.

To stop playback:
Press the ■ button.

■ Direct track search

By using the direct search buttons, the desired tracks on the current disc can be played.

Use the direct search buttons on the remote control to select the desired track whilst playing the selected disc.
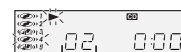
Selected track number

● The direct search buttons allow you to select up to number 9.
● When selecting number 10 or higher, use the +10 button.

A. For example, to choose 13
1 Press the "+10" button once.
2 Press the "3" button.
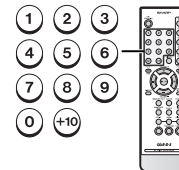
B. For example, to choose 30
1 Press the "+10" button three times.
2 Press the "0" button.

If the direct search buttons are pressed whilst the disc is stopped, press the ► / ⌐ button to start the desired track on the current disc.

Notes:
● A track number higher than the number of tracks on the disc cannot be selected.
● During random play, direct search is not possible.

CD or MP3 disc Playback

8

E-18

10

TINSZA022SJZZ

Advanced CD or MP3 disc playback (continued)

■ Repeat play

You can play up to 5 discs, or programmed tracks continuously.

To repeat all tracks on up to 5 discs:

Press the ► / ⌐ button twice.

To repeat desired tracks:

Perform steps 1 - 4 in the "Programmed play" section on page 20 and then press the ► / ⌐ button twice.

To repeat random play:

Press the ► / ⌐ button during random play.

To cancel repeat play:

Press the ► / ⌐ button again.
"⌐" will go out.

Caution:

After performing repeat play, be sure to press the ■ button. Otherwise, the disc(s) will play continuously.

■ Random play

The tracks on the disc(s) can be played in random order automatically.

To random play all tracks on up to 5 discs:

Press the RANDOM button on the remote control.
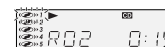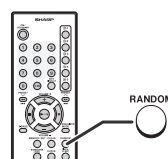
To cancel random play:

Press the ■ button.
"R" will go out.

Notes:

● Random play will stop automatically when all tracks are played once. (The same track will not be played back twice.)
● If you press the ►►I button during random play, you can move to the next track by the random operation. On the other hand, the I◄◄ button does not allow you to move to the previous track. The beginning of the track being played will be located.
● In random play, the CD player will select and play tracks automatically. (You cannot select the order of the tracks.)

E-19

■ **Programmed play**
You can choose up to 32 selections for playback in the order you like.

1 **Whilst in the stop mode, press one of the ©1 - ©5 buttons to select the desired disc.**

Selected disc number

2 **Press the direct search buttons on the remote control to select the desired track.**

You can also select a track by pressing the |◄◄ or ►►| button.

Selected track number

3 **Press the MEMORY/SET button to save the track number.**

4 **Repeat steps 1 - 3 for other tracks. Up to 32 tracks can be programmed.**

5 **Press the ► / ⏏ button to start playback.**

To clear the programmed selections:
Press the CLEAR button whilst the "MEMO-RY" indicator is lit.
Each time the button is pressed, one track will be cleared, beginning with the last track programmed.

CLEAR
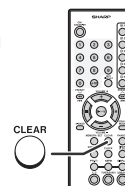
Adding tracks to the programme:
If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 3 to add tracks. The new tracks will be stored after the last track of the original programme.

Notes:
● Opening the disc compartment automatically cancels the programmed sequence.
● Even if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD to another, the programmed selections will not be cleared.
● During the programme operation, random play is not possible.

CD or MP3 disc Playback

8

E-20

Listening to the radio

Radio

E-21

∨ TUNING ∧

ON/
STAND-BY
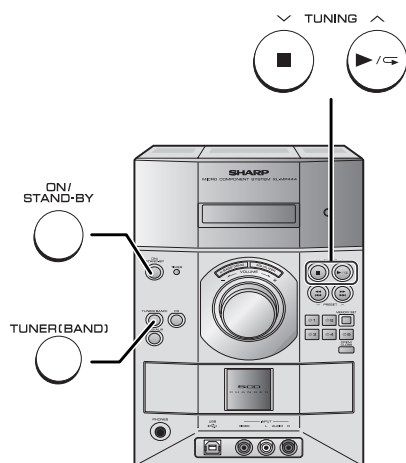
TUNER(BAND)

■ Tuning

1	**Press the ON/STAND-BY button to turn the power on.**
2	**Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).**
3	**Press the TUNING (∨ or ∧) button to tune in to the desired station.**

Manual tuning:

Press the TUNING button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:
● When radio interference occurs, auto scan tuning may stop automatically at that point.
● Auto scan tuning will skip weak signal stations.
● To stop the auto tuning, press the TUNING button again.
● When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light. Finally, the station name will appear.
● Full auto tuning can be achieved for RDS stations "ASPM", see page 24.

To receive an FM stereo transmission:
Press the TUNER (BAND) button to display the "ST" indicator.
● "∞" will appear when an FM broadcast is in stereo.
● If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

FM 98.80 MHz ST∞

FM stereo mode indicator
FM stereo receiving indicator

■ Memorising a station

You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

1	**Perform steps 1 - 3 in "Tuning" on page 21.**
2	**Press the MEMORY/SET button to enter the preset tuning saving mode.**

MEMORY
FM P-01

3	**Within 30 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.**
	Store the stations in memory, in order, starting with preset channel 1.
4	**Within 30 seconds, press the MEMORY/SET button to store that station in memory.**

MEMORY
FM P-01

	If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.
5	**Repeat steps 1 - 4 to set other stations, or to change a preset station.**
	When a new station is stored in memory, the station previously memorised will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead get disconnected.

■ To recall a memorised station

Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)
1. Press the PRESET (∨ or ∧) button for more than 0.5 seconds. The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.
2. Press the PRESET (∨ or ∧) button again when the desired station is located.
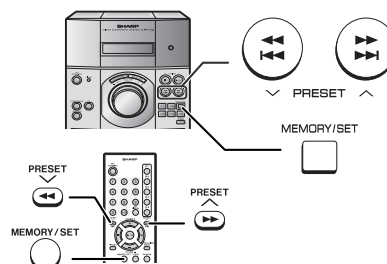
■ To erase entire preset memory

1. Press the ON/STAND-BY button to enter the stand-by mode.
2. Whilst pressing down the TUNER (BAND) button and the ⊖2 button, press the ON/STAND-BY button until "TUNER CL" appears.

TUNER CL

Radio

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E-22

Using the Radio Data System (RDS)

RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sport, music, etc.

When tuned to an RDS station, "RDS" and the station name will be displayed.

"TP" (Traffic Programme) will appear on the display when the received broadcast carries traffic information, and "TA" (Traffic Announcement) will appear whilst a traffic information is on air.

Radio

You can control the RDS by using the remote control only.

■ Information provided by RDS

Each time the DISPLAY button is pressed, the display will switch as follows:

Station name (PS)   Programme type (PTY)

Frequency
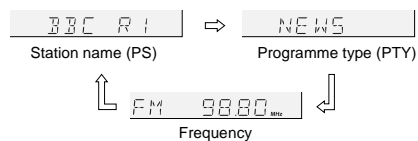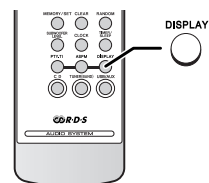
When you are tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:

→ NO PS ──────────→ NO PTY

FM 98.80 MHz ←

E-23

■ **Using the Auto Station Programme Memory (ASPM)**

Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored.
If you have already stored some stations in memory, the number of new stations you can store will be less.
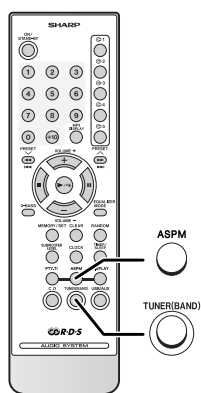
1	**Press the TUNER (BAND) button to select the FM band.**
2	**Press and hold down the ASPM button for at least 3 seconds.**

1 After "ASPM" has flashed for about 4 seconds, scanning will start (87.50 - 108.00 MHz).

-ASPM- ⇨ FM   87.50 MHz

2 When an RDS station is found, "RDS" will appear for a short time and the station will be stored in memory.

RDS
FM   88.00 MHz ⇨ FM-P-10- RDS

3 After scanning, the number of stations stored in memory will be displayed for 4 seconds, and then "END" will appear for 4 seconds.

1 INMEMORY ⇨ END

ASPM

TUNER(BAND)

Radio

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04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ

Using the Radio Data System (RDS) (continued)

To stop the ASPM operation before it is complete:
Press the ASPM button whilst it is scanning for stations.
The stations which are already stored in memory will be kept there.

Notes:
- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- Any station which has the same frequency as one stored in memory will not be stored.
- If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- If no stations have been stored in memory, "END" will appear for about 4 seconds.
- If the RDS signals are very weak, station names may not be stored in memory.

To erase all of the contents of preset memory:
1   Press the ON/STAND-BY button to enter the stand-by mode.
2   Whilst pressing down the TUNER (BAND) button and the ◎2 button, press the ON/STAND-BY button until "TUNER CL" appears.

- After performing this operation, all of the preset memory information will be erased.

To store a station name again if the wrong name was stored in memory:
It may be impossible to store station names in memory using the ASPM function if there is lots of noise or if the signal is too weak. In this case, perform as follows.
1   Press the PRESET (∨ or ∧) button to check whether the names are correct.
2   If you find a wrong name during receiving the station, wait until the correct name will be displayed. And then press the MEMORY/SET button.
3   Within 5 seconds, press the MEMORY/SET button whilst the preset channel number is flashing.
- The new station name has been stored in memory correctly.

Notes:
- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may temporarily be different.

■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:
- "PS", "NO PS" and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.
- "NO PS" or "NO PTY" will flash for about 5 seconds, and then the frequency will be displayed.

Radio

E-25

Radio
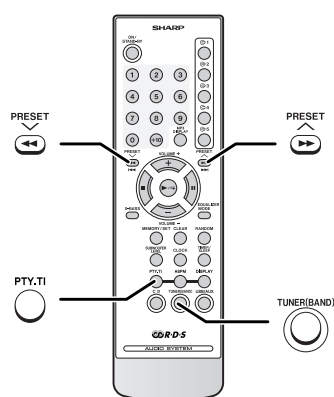
■ **To recall stations in memory**
To specify programmed types and select stations (PTY search):
You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see pages 27 - 28) from the stations in memory.

1	**Press the TUNER (BAND) button to select the FM.**
2	**Press the PTY.TI button.**
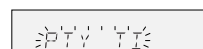
PTY TI

"PTY TI" will flash for about 4 seconds.

3	**Within 4 seconds, press the PRESET (∨ or ∧) button to select the programme type.**

NEWS

Each time the button is pressed, the programme type will appear. If the button is held down for more than 0.5 seconds, the programme type will appear continuously.

4	**Whilst the selected programme type is flashing (within 4 seconds), press the PTY.TI button again.**

NEWS ⇨ *SEARCH*
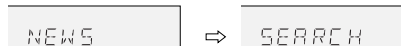
After the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.

PRESET ∨
◄◄

PRESET ∧
►►

PTY.TI

TUNER(BAND)

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Using the Radio Data System (RDS) (continued)

Notes:
- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will flash for about 4 seconds, and then the station name will flash for 7 seconds, which will remain lit.
- If you want to listen to the same programme type of another station, press the PTY.TI button whilst the channel number or station name is flashing. The unit will look for the next station.
- If no station can be found, "NOTFOUND" will appear for 4 seconds.

If you select the traffic programme:
If you select the traffic programme (TP) in step 4, "TP" will appear. (This does not mean that you can listen to the traffic information at that time.)
When the traffic information is broadcast, "TA" will appear.

To specify station names and select stations manually:
You can select a station by specifying the name (BBC R1, BBC R2, etc.) from the stations stored in memory.
Before starting this operation, you must store one or more station names in memory.
1 Press the TUNER (BAND) button to select the FM band.
2 Press the PRESET (∨ or ∧) button to select a desired station.
3 The station name will be displayed for 6 seconds. Then the display will change.

Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement).
You can search for and receive the following PTY, TP and TA signals.

NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
INFO	Programmes whose purpose is to impart advice in the widest sense.
SPORT	Programme concerned with any aspect of sport.
EDUCATE	Programme intended primarily to educate, of which the formal element is fundamental.
DRAMA	All radio plays and serials.
CULTURE	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
SCIENCE	Programmes about the natural sciences and technology.
VARIED	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
POP M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
EASY M	Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.

LIGHT M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
OTHER M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	Weather reports and forecasts and meteorological information.
FINANCE	Stock Market reports, commerce, trading, etc.
CHILDREN	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
SOCIAL	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
RELIGION	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
PHONE IN	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
JAZZ	Polyphonic, syncopated music characterised by improvisation.

COUNTRY	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
NATION M	Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.
OLDIES	Music from the so-called "golden age" of popular music.
FOLK M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
DOCUMENT	Programme concerned with factual matters, presented in an investigative style.
TEST	Broadcast when testing emergency broadcast equipment or receivers.
ALARM	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
TP	Broadcasts which carry traffic announcements.
TA	Traffic announcements are being broadcast.

Radio

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E-28

Listening to sound from a USB-connected PC

■ System requirements

Connect a PC to the USB port. You can play audio data stored on the PC through the supplied speakers.

The following hardware are required for USB connection:

PC	IBM PC/AT compatible	Apple Macintosh computer
OS	Windows 98 Second Edition Windows 2000 Professional Windows Millennium Edition Windows XP Home Edition Windows XP Professional	Mac OS 10
USB	Available USB port (USB 1.1)	
CPU	MMX Pentium processor (266 MHz or higher) or equivalent	

Notes:
- Sharp does not guarantee proper operation on all computers.
- You cannot operate the unit on a PC, and vice versa.
- IBM and PC/AT are registered trademarks of International Business Machines Corporation in the United States.
- Macintosh is a registered trademark of Apple Computer, Inc. in the United States and/or other countries.
- MMX and Pentium are trademarks or registered trademarks of Intel Corporation.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- The names of other systems and products in this manual are trademarks or registered trademarks of the corresponding companies. Symbols ™ and ® are omitted.

Advanced Features

■ Installing a driver

If this is your first time connecting to a PC, follow the on-screen instructions to install a driver (included with the OS). Once installed, you do not need to repeat the procedure.
For installation, refer to the operation manual for the PC.

1 Turn on a PC to boot the OS.

2 Press the ON/STAND-BY button on the main unit to turn the power on.

3 Connect the unit to the PC with a USB cable.

To the USB socket   To the USB port

USB connection cable (not supplied)

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The unit is detected and a driver (included with the OS) is installed. Follow the on-screen instructions.

(Screen shots vary depending on the OS. The screen shots below are from Windows Millennium Edition.)

Notes:
- If installation does not start automatically, follow the online instructions.
- Prepare the OS CD-ROM before installation (may be required depending on the PC).
- Do not disconnect the USB cable until the unit is detected.
- For a Macintosh computer with a USB port, a driver is already installed (you do not need to install it).
- Sharp does not guarantee proper operation when you connect a PC using a USB hub or USB extension cable.
- When multiple USB ports are available, use a root hub port (for details, refer to the operation manual for the PC).

Advanced Features

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Listening to sound from a USB-connected PC (continued)

■ **Checking a driver**

After installation, make sure the driver is recognised.

Windows 98 Second Edition or Windows Millennium Edition:

1	**Select "Setting"→"Control Panel" from the "Start" menu and click it.**
2	**When the "Control Panel" opens, select the "System" icon and double click it.**
3	**Click the "Device Manager" tab.** Make sure "View devices by type" is selected.
4	**Check that the unit is recognised.** Make sure "USB Audio Device" is under "Sound, video and game controllers" and "USB Composite Device" is under "Universal Serial Bus controllers". OS: Windows Millennium Edition
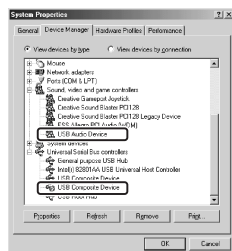
Windows 2000 Professional or Windows XP Edition:

1	**Select "Setting"→"Control Panel" from the "Start" menu and click it.** For Windows XP Edition, select "Control Panel" from the "Start" menu and click it.
2	**When the "Control Panel" opens, select the "System" icon and double click it.**
3	**Select the "Hardware" tab and click "Device Manager".** Make sure "View devices by type" is selected.
4	**Check that the unit is recognised.** Make sure "USB Composite Device" is under "Universal Serial Bus controllers" and "USB Audio Device" is under "Sound, video and game controllers". OS: Windows XP Edition

Notes:
● Other items in the Device Manager may be different depending on the PC environment.
● If the unit cannot be recognised, connect and disconnect the USB cable. If the driver is not installed and the unit is still not recognised, restart the PC.

Advanced Features

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04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ
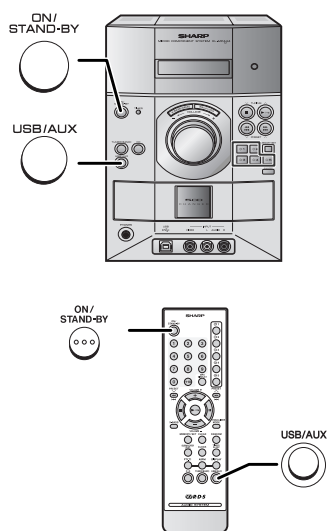
■ Listening to audio data playing on a PC

1 **Connect the unit to the PC with a USB cable (see page 29).**

2 **Turn on a PC to boot the OS.**

Wait until the OS boots.

3 **Press the ON/STAND-BY button on the main unit to turn the power on.**

4 **Press the USB/AUX button repeatedly to select "USB".**

5 **Play back on the PC.**

6 **Adjust the volume on the unit.**

You can adjust the volume with music software. This is not possible from "Audio Properties" in the task tray (Windows).

Notes:
- When using a USB port, do not turn off the unit or switch the input selector during playback.
- Do not disconnect a USB cable during playback. Close the music software first.
- Before you turn off the unit or PC, close the music software.
- Turn off the unit before the PC.
- It is recommended to turn off the unit before putting the PC into hibernation or standby mode.
- Sound may skip or noise may occur depending on the PC environment.
- Refer to operation manuals for the PC and music software.
- When using a Macintosh computer (with the unit connected and turned off) and the operation is unstable, disconnect the USB cable.
- When playing back on a PC with the unit connected, other sounds (clicks, etc.) are produced from the speakers.
- During playback on a Windows PC, you cannot listen to the sound on the unit by simply connecting a USB cable. Stop and resume playback (not necessary on a Macintosh computer).

Advanced Features

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E-32

ON/STAND-BY

USB/AUX

ON/STAND-BY

USB/AUX

Listening to sound from other equipment

The connection lead is not included. Purchase a commercially available lead as shown below.

VCR, DVD, etc.

To the line output sockets

White — Yellow

Red

Video cable (not supplied)   RCA lead (not supplied)

INPUT
VIDEO   L   AUDIO   R

Yellow   White   Red

TV

To video input socket

Yellow   Video cable (not supplied)

VIDEO OUT

Yellow

PHONES
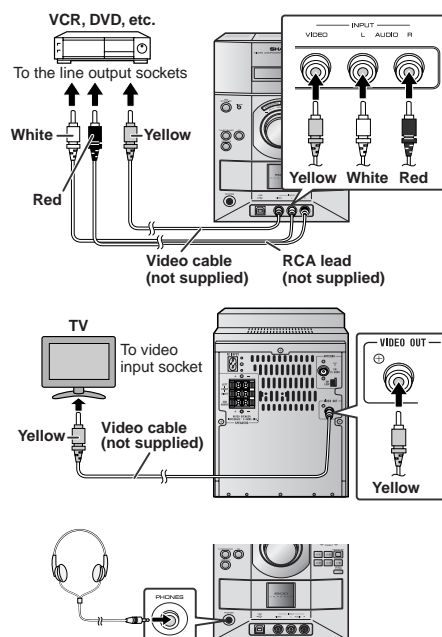
■ **Listening to the playback sounds from VCR, DVD, etc.**

1 Connect a VCR, DVD, etc. to the front INPUT (VIDEO, AUDIO L and R) sockets.

2 Connect a TV to the rear VIDEO OUT socket.

Switch the TV input to auxiliary.

3 Press the ON/STAND-BY button to turn the power on.

4 Press the USB/AUX button repeatedly to select "AUX".

5 Play the connected equipment.

You can enjoy sounds from the supplied speakers and images on the TV.

Note:
To prevent noise interference, place the unit away from the television.

■ **Headphones**
● Before plugging in or unplugging the headphones, reduce the volume.
● Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
● Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.

04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ

Timer and sleep operation

Timer playback:
The unit turns on and plays the desired source (CD, tuner) at the preset time.

Sleep operation:
The radio and compact disc can all be turned off automatically.

VOLUME +

ON/
STAND-BY

VOLUME −

PRESET

PRESET

MEMORY / SET

TIMER /
SLEEP

C D   TUNER(BAND)
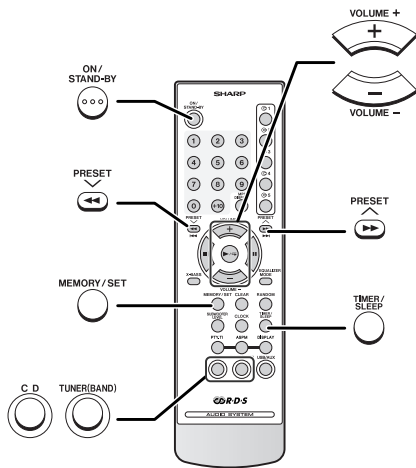
■ Timer playback

Before setting timer:

1 Press the CLOCK button to check that the clock is set to the correct time. (Refer to page 13.)

2 Load the discs to be played.

⇩

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD or TUNER (BAND) button to select the desired function.

When you select the TUNER (BAND), tune into the desired station.

3 Adjust the volume using the VOLUME buttons.

Do not turn the volume up too high.

4 Press the TIMER/SLEEP button repeatedly until "⏰" is displayed and then within 8 seconds, press the MEMORY/SET button.

12:00

5 Within 30 seconds, press the PRESET (∨ or ∧) button to specify the hour to start, then press the MEMORY/SET button.

11:00 ⇨ 11:00

Advanced Features

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Timer and sleep operation (continued)

Advanced Features

6 **Within 30 seconds, press the PRESET (∨ or ∧) button to specify the minute to start, then press the MEMORY/SET button.**

⇒

- Settings are displayed in order and the unit will enter the timer stand-by mode.
- Timer set indicator will light up.
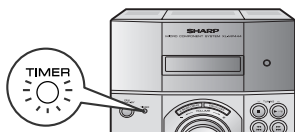
To cancel the timer playback:

Press the ON/STAND-BY button to turn the power on.

7 **When the preset time is reached, playback will start.**

The volume will increase gradually until it reaches the volume you were listening to before your system entered the timer stand-by mode.

8 **The unit will enter the power stand-by mode one hour after the timer playback starts.**

To reset or change the timer setting:
Perform "Timer playback" from the beginning.

Note:
When performing timer playback using another unit connected to the video and audio input or USB sockets, select "AUX" or "USB" in step 2.
At this time, only this unit will be turned on or enter the power stand-by mode automatically. It will enter the power stand-by mode 1 hour after the playback starts. However, the other unit will not be turned on or off.

USB/AUX

E-35
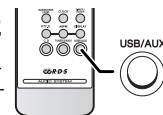
■ **Sleep operation**

1	Play back the desired sound source.
2	Press the TIMER/SLEEP button repeatedly until "SLEEP" is displayed and then within 8 seconds, press the MEMORY/SET button.

SLEEP ⇒ SLEEP 3:00

To change the sleep time:

Whilst the sleep time is displayed, press the PRESET (∨ or ∧) button.

(Maximum: 3 hours - Minimum: 5 minutes)

```
    ┌→ 3:00 ──→ 2:00 ──→ 1:30 ──→ 1:00 ─┐
    └ (cancel) ← 0:05 ← 0:10 ← 0:15 ← 0:30 ←┘
```

3	Within 30 seconds, press the MEMORY/SET button.
4	The unit will enter the power stand-by mode automatically after the preset time has elapsed.
	The volume will turn down 30 seconds before the sleep operation finishes.

To confirm the remaining sleep time:
Press the TIMER/SLEEP button whilst the sleep timer is set.
The remaining sleep time is displayed for about 8 seconds.

To cancel the sleep operation:
Press the ON/STAND-BY button whilst the sleep timer is set.

■ **To use timer and sleep operation together**
Example: To fall asleep and wake up to the same radio station
You can play back the same source only (the function cannot be switched).

1	Set the sleep time (see left, steps 1 - 3).
2	Whilst the sleep timer is set, set the timer playback (steps 4 - 6, pages 34 - 35).

Sleep timer setting   Timer playback setting

5 minutes - 3 hours

Sleep operation will   Timer playback
automatically stop.   start time

Advanced Features

8

E-36
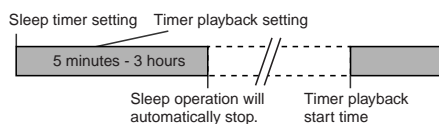
Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not set to the correct time.	● Did a power failure occur? Reset the clock. (Refer to page 13.)
● When a button is pressed, the unit does not respond.	● Set the unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 38.)
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it's located nearby.

■ USB

Symptom	Possible cause
● Distortion or no sound.	● Is the volume set properly on the music software? ● Is "USB Audio Device" selected as the default device in the audio properties?
● Sound skips or the PC screen freezes up.	● Is any software other than the music software open?
● No sound is heard from the PC.	● If the unit is recognised by the PC, disconnect the USB cable and restart the PC. Or set the unit to the power stand-by mode and then turn it back on.

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity correct? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

E-37

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:
1. Set the unit to the stand-by mode and turn the power on again.
2. If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:
If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)
1. Press the ON/STAND-BY button to enter the power stand-by mode.
2. Whilst pressing down the CD button and the ⓒ2 button, press the ON/STAND-BY button until "CLEAR" appears.

CD   ⓒ2   ⇨   ON/
STAND-BY $\fbox{CLEAR}$

Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ Before transporting the unit
Remove all discs from the unit. Make sure there is no disc in the disc tray. Then, set the unit to the power stand-by mode. Carrying the unit with discs left inside can damage the unit.

Maintenance

■ Cleaning the cabinet
Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:
● Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
● Do not apply oil to the inside of the unit. It may cause malfunctions.

■ Care of discs
Discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your disc collection and player.
● Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
● Keep your discs away from direct sunlight, heat, and excessive moisture.
● Always hold the discs by the edges. Fingerprints, dirt, or water on the discs can cause noise or mistracking. If a disc is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.

NO   YES
Correct

References

8

E-38
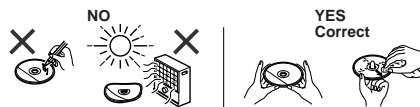
Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 230 V, 50 Hz
Power consumption	
XL-MP333H	Power on: 48 W
	Power stand-by: 0.6 W (*)
XL-MP444H	Power on: 90 W
	Power stand-by: 0.6 W (*)
Dimensions	Width: 160 mm (6-5/16") Height: 240 mm (9-7/16") Depth: 300 mm (11-13/16")
Weight	
XL-MP333H	4.8 kg (10.6 lbs.)
XL-MP444H	5.9 kg (13.0 lbs.)

(*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 10 to cancel the demonstration mode.

■ Amplifier

Output power	
XL-MP333H	PMPO: 120 W
	MPO: 60 W (30 W + 30 W) (DIN 45 324)
	RMS: 40 W (20 W + 20 W) (DIN 45 324)
	RMS: 30 W (15 W + 15 W) (DIN 45 500)
XL-MP444H	Front speakers:
	PMPO: 180 W
	MPO: 90 W (45 W + 45 W) (DIN 45 324)
	RMS: 60 W (30 W + 30 W) (DIN 45 324)
	RMS: 45 W (22.5 W + 22.5 W) (DIN 45 500)
	Subwoofer:
	PMPO: 120 W
	MPO: 60 W (DIN 45 324)
	RMS: 40 W (DIN 45 324)
	RMS: 30 W (DIN 45 500)
Output terminals	Headphones: 16 - 50 ohms (recommended: 32 ohms)
	Video output: RCA type × 1
	(XL-MP333H)
	Speakers: 6 ohms
	(XL-MP444H)
	Front speakers and subwoofer: 6 ohms
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms
	Video input: RCA type × 1
	USB input: USB type × 1

References

04/5/26   XL-MP333H_MP444H_E.fm   TINSZA022SJZZ

■ **CD player**

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ **Tuner**

Frequency range	FM: 87.5 - 108 MHz
	AM: 522 - 1,620 kHz

■ **Speaker section**

(XL-MP333H)
● **Speaker**

Type	2-way type speaker system (magnetic shield)
	4 cm (1.5") tweeter
	10 cm (4") woofer
Maximum input power	40 W
Rated input power	20 W
Impedance	6 ohms
Dimensions	Width: 165 mm (6-1/2") Height: 240 mm (9-7/16") Depth: 210 mm (8-1/4")
Weight	2.4 kg (5.3 lbs.)/each

(XL-MP444H)
● **Front speaker**

Type	2-way type speaker system (magnetic shield)
	4 cm (1.5") tweeter
	10 cm (4") woofer
Maximum input power	60 W
Rated input power	30 W
Impedance	6 ohms
Dimensions	Width: 165 mm (6-1/2") Height: 240 mm (9-7/16") Depth: 210 mm (8-1/4")
Weight	2.4 kg (5.3 lbs.)/each

● **Subwoofer**

Type	13 cm (5-1/8") subwoofer system (magnetic shield)
Maximum input power	80 W
Rated input power	40 W
Impedance	6 ohms
Dimensions	Width: 160 mm (6-5/16") Height: 240 mm (9-7/16") Depth: 240 mm (9-7/16")
Weight	2.8 kg (6.2 lbs.)

References

8

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SHARP

SHARP CORPORATION

04/5/31 | XL-MP333H_MP444H_BACK.fm | TINSZA022SJZZ

UP

DOWN

XL-MP333H/XL-MP444H | **MICRO COMPONENT SYSTEM** **SHARP**

04/5/31 | XL-MP333H_MP444H_SPINE.fm TINSZA022SJZZ