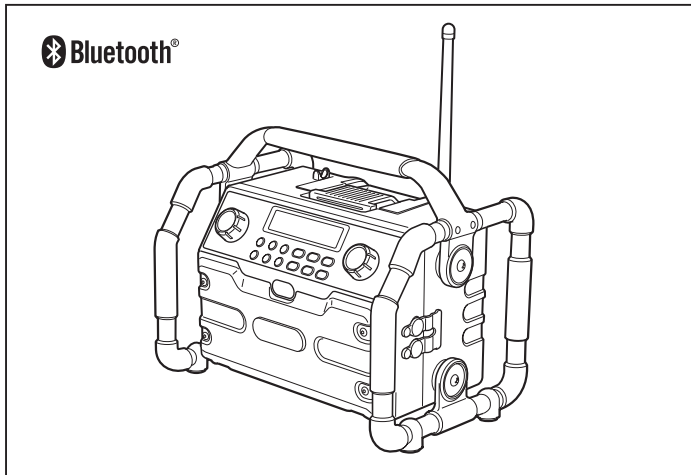


**Operating Instructions
Bedienungsanleitung
Instructions d'utilisation
Istruzioni per l'uso
Gebruiksaanwijzing
Manual de instrucciones
Brugsvejledning
Driftsföreskrifter
Bruksanvisning
Käyttöohjeet
Çalıştırma Talimatları**

Panasonic

**Portable Radio/Speaker System
Tragbares Radio-/Lautsprecher-System
Système radio/enceinte portable
Sistema radio/altoparlante portatile
Draagbare radio/Luidsprekersysteem
Sistema de radio/altavoz portátil
Transportabelt radio-/højtalersystem
Portabelt radio-/högtalarsystem
Bærbart radio-/høyttalersystem
Kannettava radio/kaiutinjärjestelmä
Taşınabilir Radyo/Hoparlör Sistemi**

Model No:EY37A2



Before operating this unit, please read these instructions completely and save this manual for future use.

Vor Inbetriebnahme des Gerätes die Betriebsanleitung bitte gründlich durchlesen und diese Broschüre zum späteren Nachschlagen sorgfältig aufbewahren.

Lire entièrement les instructions suivantes avant de faire fonctionner l'appareil et conserver ce mode d'emploi à des fins de consultation ultérieure.

Prima di usare questa unità, leggere completamente queste istruzioni e conservare il manuale per usi futuri.

Lees deze gebruiksaanwijzing aandachtig door voor u het apparaat in gebruik neemt en bewaar de gebruiksaanwijzing voor eventuele naslag.

Antes de usar este aparato por primera vez, lea todas las instrucciones de este manual y guarde el manual para poderlo consultar en el futuro.

Gennemlæs denne betjeningsvejledning før brugen og gem den til fremtidig brug.

Läs igenom hela bruksanvisningen innan verktyget tas i bruk. Spara bruksanvisningen för senare användning.

Før enheten tas i bruk, vennligst les disse alle anvisningene og oppbevar deretter bruksanvisningen for senere bruk.

Lue ohjeet huolella ennen laitteen käyttöönottoa ja säilytä tämä käyttöohje tallessa tulevaa tarvetta varten.

Bu cihazı çalıştırmadan önce lütfen bu talimatları dikkatli bir şekilde okuyun ve bu kılavuzu gelecekte kullanmak üzere saklayın.

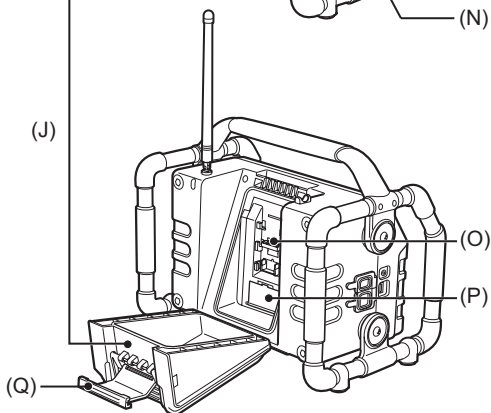
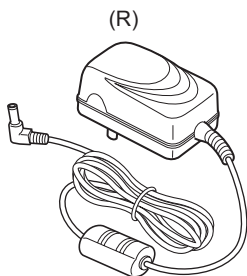
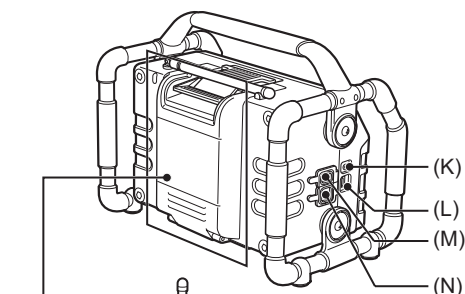
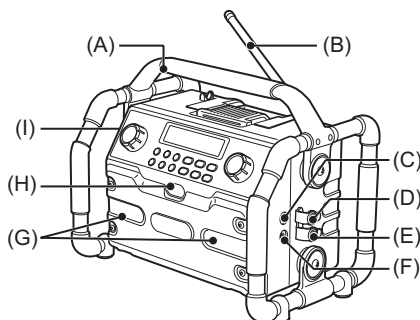
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Deutsch:	Seite	XX	Svenska:	Sid	XX
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Italiano:	Pagina	XX	Suomi:	Sivu	XXX
Nederlands:	Bladzijde	XX	Türkçe:	Sayfa	XXX
Español:	Página	XX			

**FUNCTIONAL DESCRIPTION
FUNKTIONSBESCHREIBUNG
DESCRIPTION DES FONCTIONS
DESCRIZIONE DELLE FUNZIONI
FUNCTIEBESCHRIJVING
DESCRIPCIÓN FUNCIONAL
FUNKTIONSBESKRIVELSE
FUNKTIONSBESKRIVNING
FUNKSJONSBESKRIVELSE
TOIMINTAKUVAUS
İŞLEVSEL AÇIKLAMA**

**■FRONT/VORDERSEITE/AVANT/FRONTE/
VOOR/DELANTERA/FORSIDE/FRONT/
FRONT/ETUOSAÖN**

**■REAR/RÜCKSEITE/ARRIÈRE/RETRO/
ACHTER/TRASERA/BAGSIDE/REAR/REAR/
TAKAOSA/ARKA**



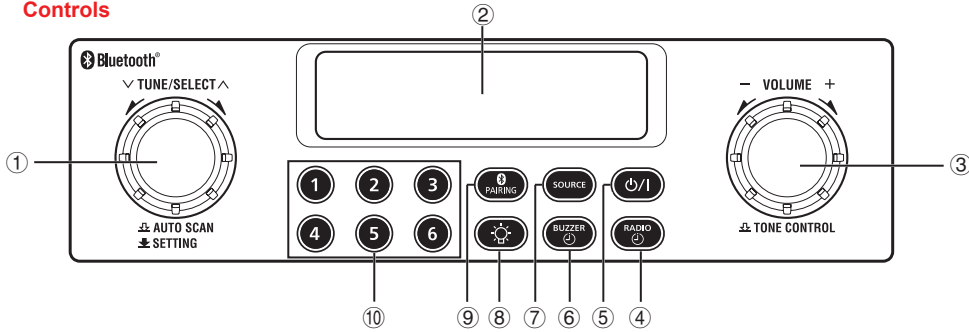
(A)	Handle Tragegriff Poignée Maniglia Handgreep Asa Håndtag Handtag Håndtak Kahva Sap	(B)	Soft bended antenna Biegbare Stabantenne Antenne tige souple Antenna ad asta piegata morbida Flexibele staafantenne Antena de varilla plegable blanda Blød bøjet stavantenne Mjuk böjd stavantenn Myk böyd stavantenne Pehmeä, taivutettu sauva-antenni Yumuşak eğimli çubuk anten
(C)	Headphone socket Kopfhörerbuchse Entrée casque Presa per auricolari Hoofdtelefoonaansluiting Toma de auriculares Hovedtelefonstik Uttag för hörlurar Hodetelefonkontakt Kuulokeliitäntä Kulaklık soketi	(D)	Headphone socket cover Kopfhörerbuchsenabdeckung Cache de l'entrée casque Coperchio della presa per auricolari Afdekking voor hoofdtelefoonaansluiting Cubierta de la toma de auriculares Dæksel til hovedtelefonstik Headphone socket cover Headphone socket cover Kuulokeliitännän suojuus Kulaklık soketi kapağı
(E)	DC in socket cover DC-IN-Buchsenabdeckung Cache de l'entrée DC IN Coperchio della presa ingresso CC Afdekking voor gelijkstroom-ingangsaansluiting Cubierta de la toma de entrada de CC Jævnstrøm ind-stikdæksel DC in socket cover DC in socket cover Virtualiitännän suojuus DC in soketi kapağı	(F)	DC in socket DC-IN-Buchse Entrée DC IN Presa ingresso CC Gelijkstroom-ingangsaansluiting Toma de entrada de CC Jævnstrøm ind-stik DC i uttag Inngangskontakt likestrøm Tasavirtaliitäntä DC in soketi
(G)	Speaker Lautsprecher Enceinte Altoparlante Luidspreker Altavoz Højtaler Högtalare Høyttaler Kaiutin Hoparlör	(H)	Flashlight Taschenlampe Lampe torche Torcia Verlichtingslamp Linterna Lommelygte Ficklampa Lommelykt Taskulamppu El Feneri
(I)	Controls Bedienelemente Commandes Controlli Bedieningsorganen Conroles Betjeningsknapper Controls Controls Säätimet Kumandalar	(J)	Battery compartment Batteriefach Compartment des p Scomparto batteria Batterijvak Compartimiento de las pilas Batterirum Batteriutrymme Batteriròm Paristolokero Pii bölmesi
(K)	Aux in socket AUX-IN-Buchse Entrée AUX IN Presa ingresso ausiliario Aux-ingangsaansluiting Toma de entrada auxiliar Aux ind-stik Aux i uttag Ekstrainngang kontakt Lisälaiteliitäntä Aux in soketi	(L)	USB socket for Smartphone charging USB-Buchse zum Laden von Smartphones Entrée USB pour recharge d'un smartphone Presa USB per la ricarica di smartphone USB-aansluiting voor opladen van smartphone Toma USB para la carga de smartphones USB-stik til opladning af smartphone USB socket for Smartphone charging USB socket for Smartphone charging USB-liitäntä älypuhelimien latausta varten Akıllı Telefonu şarj etmek için USB soketi
(M)	Aux in socket cover AUX-IN-Buchsenabdeckung Cache de l'entrée AUX IN Coperchio della presa ingresso ausiliario Afdekking voor aux-ingangsaansluiting Cubierta de la toma de entrada auxiliar Aux ind-stikdæksel Aux in socket cover Aux in socket cover Lisälaiteliitännän suojuus Aux in soketi kapağı	(N)	USB socket cover USB-Buchsenabdeckung Cache de l'entrée USB Coperchio della presa USB Afdekking voor USB-aansluiting Cubierta de la toma USB USB-stikdæksel USB socket cover USB socket cover USB-liitännän suojuus USB soketi kapağı

EY971074416 P4(L)から流
用

LED light
LED-Leuchte
Lumière DEL
Luce LED
LED-lampje
Luz indicadora
LED-lys
LED-ljus
LED-lys

(O)	Main battery terminal Hauptbatterieanschluss Borne pour pile principale Terminale batteria principale Aansluiting voor hoofdbatterijpak Terminal de pila principal Hovedbatteriterminal Batteriets huvudstift Kontakt hovedbatteri Pääakkutila Ana pil terminali	(P)	Back up battery compartment Reservebatteriefach Compartment de la pile de sauvegarde Scoparto batteria di riserva Vak voor reservebatterijen Compartmento para pilas de reserva Backup-batterirum Utrymme för extra batteri Rom for sikkerhetsbatteri Varaparistolokero Yedek pil bölmesi
(Q)	Battery compartment locker Batteriefachverriegelung Verrou du compartiment des piles Dispositivo di chiusura dello scoparto batteria Batterijvakhouder Cierre del compartimiento de las pilas Lås til batterirum Battery compartment locker Battery compartment locker Akku- ja paristolokeron salpa Pil bölmesi kilidi	(R)	AC power adaptor Netzteil Adaptateur secteur Adattatore di alimentazione CA Netspanningsadapter Adaptador de alimentación de CA Netadapter AC power adaptor AC power adaptor Verkkolaite AC güç adaptörü

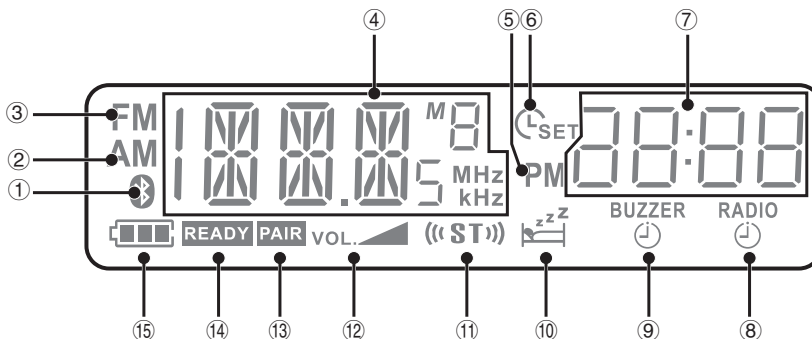
■ Controls/Controls/Controls/Controls/Controls/Controls/Controls/Controls/Controls/Controls/Controls/Controls/Controls



①	Tuning control knob/Select knob/Auto scan knob Senderwahl-Regler/Auswahregler/Autoscan-Regler Bouton de réglage de la syntonisation/Bouton de sélection/Bouton de balayage automatique Manopola di controllo sintonizzazione/ Manopola di selezione/ Manopola di ricerca automatica Afstemknop/Keuzeknop/Automatische zenderzoekknop Control giratorio de sintonización/Control giratorio de selección/Control giratorio de búsqueda automática Tuningskontrollknop/Valg-knap/Autoscan-knap Inställningsratt/Väljarratt/Ratt för automatisk sökning Søkeknot/Valknott/Knott for automatisk søk Viritys-/valinta-/automaattinen haku -nuppi İnce ayar kontrolü yuvarlak düğmesi/ Ses yuvarlak düğmesi/ Otomatik tarama yuvarlak düğmesi	②	LCD LCD-Display Écran LCD LCD LCD LCD LCD LCD LCD LCD Nestekidenäyttö LCD
③	Volume knob/Tone control Lautstärkeregler/Klangregler Bouton du volume/Commande de tonalité Manopola volume/ Controllo toni Volumeknop/Toonregelaar Control giratorio de volumen/Control de tono Lydstyrkeknap/ Tonekontrol Volyratt/tonkontrol Volumknott/Tonekontrol Äänvoimakkuus-/äänensävy-nuppi Ses düzeyi yuvarlak düğmesi/ Ton kontrolü	④	Radio alarm button Radiowecker-Taste Bouton de réveil-radio Pulsante allarme radio Radio-alarmploets Botón de alarma de radio Radioalarmknapp Larmknapp radio Radioalarm-knapp Radioherätyspainike Radyo alarmı düğmesi

⑤	Power/Standby button Ein-/Aus-/Standby-Taste Bouton d'alimentation/de veille Pulsante alimentazione/standby Aan/ruststand-toets Botón de encendido y apagado/espera Tænd-sluk/standby-knap Ström-/standbyknapp Strøm/hvile knapp Virta-/valmiustilapainike Güç/ bekleme düğmesi	⑥	Buzzer alarm button Summeralarm-Taste Bouton de réveil-sonnerie Pulsante allarme segnalatore acustico Zoemer-alarmtoets Botón de alarma de pitido Brummeralarmknapp Summer larmknapp Alarmsummer knapp Summeriherätyspainike Sesli alarm düğmesi
⑦	Source button Source-Taste Bouton de source Pulsante sorgente Geluidsbrontoets Botón de fuente Kilde-knap Källknapp Kildeknapp Lähde-painike Kaynak düğmesi	⑧	Light button Lichttaste Bouton d'éclairage Pulsante luce Verlichtingstoets Botón de luz Lys-knap Ljusknapp Lysknapp Valopainike Işık düğmesi
⑨	Bluetooth® pairing button Bluetooth®-Kopplungstaste Bouton de pairing Bluetooth® Pulsante abbinamento Bluetooth® Bluetooth®-koppeltoets Botón de emparejamiento Bluetooth® Bluetooth®-parringsknapp Bluetooth®-parningsknapp Knapp for paring av Bluetooth® Bluetooth®-pariliitospainike Bluetooth® eşleme düğmesi	⑩	Preset button Preset-Taste Bouton de pré-réglage Pulsante preimpostazione Voorkeuzendertoets Botón de presintonía Forudindstillingsknapp Förinställningsknapp Knapp förhåndsinnstilling Esiasetuspainike Ön ayar düğmesi

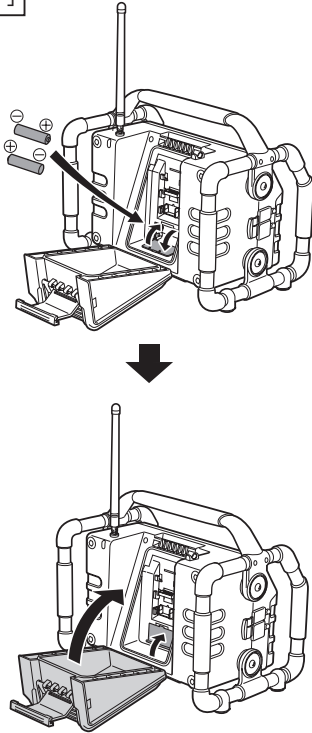
■ LCD



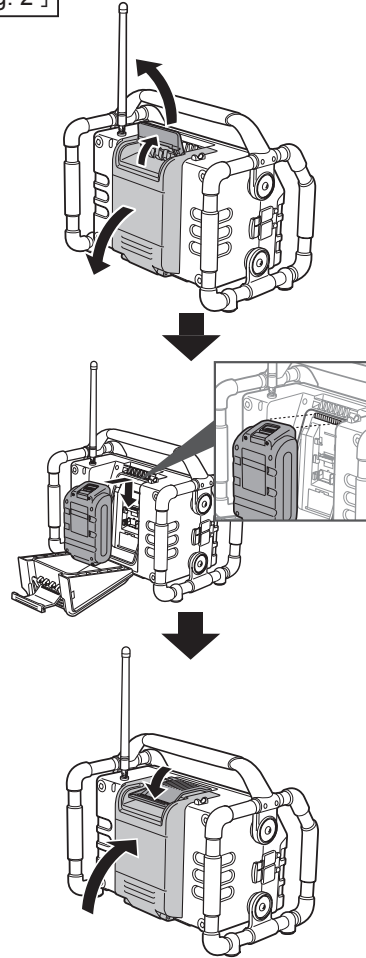
①	Bluetooth® mode indicator Bluetooth®-Modusanzeige Indicateur du mode Bluetooth® Indicatore modalità Bluetooth® Bluetooth®-modusindicator Indicador del modo Bluetooth® Indikator for Bluetooth®-tilstand Bluetooth®-läge indikator Bluetooth®-funksjonsindikator Bluetooth®-tilan ilmaisin Bluetooth® modu göstergesi	②	AM mode indicator AM-Modusanzeige Indicateur du mode AM Indicatore modalità AM AM-bandindicator Indicador del modo AM Indikator for AM-tilstand AM-lägesindikator AM funksjonsindikator AM-tilan ilmaisin AM modu göstergesi
③	FM mode indicator FM-Modusanzeige Indicateur du mode FM Indicatore modalità FM FM-bandindicator Indicador del modo FM Indikator for FM-tilstand FM-lägesindikator FM funksjonsindikator FM-tilan ilmaisin FM modu göstergesi	④	Frequency text line Frequenz-Displayzeile Ligne de texte de la fréquence Linea testo frequenza Frequentie-aanduiding Línea de texto de frecuencia Frekvenstekstlinje Frekvens textrad Frekvens tekstlinje Taajuusteksti Frekans metin satırı

⑤	<p>PM time indicator PM-Zeitanzeige Indicateur d'heure PM Indicatore ora PM PM (namiddag) tijdindicator Indicador de hora PM Indikator for PM-tid EM-tidsindikator PM tidsindikator PM (iltapäivä) -ajan ilmaisin PM zaman göstergesi</p>	⑥	<p>Clock setting indicator Uhrzeit-Einstell-Anzeige Indicateur du réglage de l'horloge Indicatore impostazione orologio Klokinstellingindicator Indicador de ajuste del reloj Indikator for urindstilling Indikator för klockinställningar Indikator for klokkeinnstilling Kellon asetusilmais Saat ayarı göstergesi</p>
⑦	<p>Clock digits Ziffernanzeige der Uhr Chiffres de l'horloge Cifre orologio Klokcijfers Dígitos del reloj Cifre på ur Klockans siffror Klokkesifre Kellonaika Saat haneleri</p>	⑧	<p>Radio alarm indicator Radiowecker-Anzeige Indicateur du réveil-radio Indicatore allarme radio Radio-alarmindicator Indicador de alarma de radio Indikator for radioalarm Larmindikator radio Radioalarm indikator Radioherätyksen ilmaisin Radyo alarmı göstergesi</p>
⑨	<p>Buzzer alarm indicator Summeralarm-Anzeige Indicateur du réveil-sonnerie Indicatore allarme segnalatore acustico Zoemer-alarmindicator Indicador de alarma de pitido Indikator for brummeralarm Summer larmindikator Alarmsummer indikator Summerherätyksen ilmaisin Sesli alarm göstergesi</p>	⑩	<p>Snooze/Sleep indicator Snooze-/Sleep-Anzeige Indicateur Snooze/Extinction Indicatore Snooze/ Sleep Sluimer/slaaptimerindicator Indicador de repetición/suspensión Indikator for snooze/sleep Snooze-/sovindikator Slumre/sove indikator Torkku-/uniastinilmais Erteleme/Uyku göstergesi</p>
⑪	<p>FM stereo indicator FM-Stereo-Anzeige Indicateur stéréo FM Indicatore stereo FM FM-stereo-indicator Indicador de FM estéreo Indikator for FM-stereo FM stereo-indikator FM stereoindikator FM-stereo-ilmais FM stereo göstergesi</p>	⑫	<p>Volume indicator Lautstärke-Anzeige Indicateur du volume Indicatore volume Volume-indicator Indicador de volumen Lydstyrkeindikator Volymindikator Volumindikator Äänenvoimakkuuden ilmaisin Ses düzeyi göstergesi</p>
⑬	<p>Bluetooth® PAIR indicator Bluetooth® PAIR-Anzeige Indicateur Bluetooth® PAIR Indicatore ABBINAMENTO Bluetooth® Bluetooth®-koppelindicator (PAIR) Indicador de Bluetooth® EMPAREJADO Indikator for Bluetooth® PARRING Bluetooth® Parningsindikator Bluetooth® PARINGS-indikator Bluetooth®-pariliitoksen ilmaisin Bluetooth® EŞLEME göstergesi</p>	⑭	<p>Bluetooth® READY indicator Bluetooth® READY-Anzeige Indicateur Bluetooth® READY Indicatore Bluetooth® READY Bluetooth®-gereedindicator (READY) Indicador de Bluetooth® LISTO Indikator for Bluetooth® KLAR Indikator Bluetooth® KLAR Indikator Bluetooth® KLAR Bluetooth® VALMIS -ilmais Bluetooth® HAZIR göstergesi</p>
⑮	<p>Battery life indicator Batteristandsanzeige Indicateur de capacité de la pile Indicatore durata batteria Indicator voor batterijgebruiksduur Indicador de carga de las pilas Indikator for batterilevetid Indikator för batterilivslängd Indikator for batteriets levetid Akun keston ilmaisin Pil ömrü göstergesi</p>		

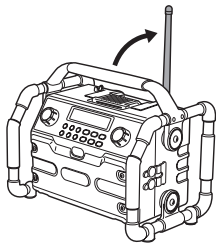
[Fig. 1]



[Fig. 2]



[Fig. 3]

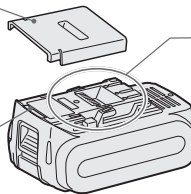


[Fig. 4]

Pack cover	Pakningsdæksel
Akkuabdeckung	Batteriskydd
Couvercle de la batterie autonome	Pakkedeksel
Coperchio pacco	Akkukotelon kansi
Accudeksel	Pii takimi kapağı
Cubierta de batería	

label	label	etikett
Schild	rojo	merkki
rouge	etikette	etiket
rossa	dekal	

Terminals	Terminaler
Anschlüsse	Poler
Bornes	Ender
Terminali	Liittimet
Aansluitpunten	Terminaller
Terminales	



Original instructions: English
Translation of the original instructions:
Other languages

This unit with all covers completely closed and operating on a battery pack satisfies appropriate IP Degrees of Protection based on the IEC regulations.

Definition of IP code

IP6X: No Ingress of dust (In case that the talcum powder under 75µm intrudes inside the tool)

IPX4: Water splashed against the unit from any direction shall have no harmful effects (This unit is designed to operate when the unit is sprayed by approximately 4.3 L/min of normal temperature water for 10 minutes from multiple directions using several nozzles at approximately 1 meter distance.).

NOTE:

This does not cover the included "AC power adaptor".

LIMITED WARRANTY

The rating of IP64 qualifies this unit for the minimum impact of water or dust, but not for the assurance of performance in such conditions.




See Safety and Operating Instructions for further details for proper operation.

I. IMPORTANT SAFETY INSTRUCTIONS

Read All Instructions

1. SAVE THESE INSTRUCTIONS -This manual contains important safety and operating instructions for this product.
2. Before using this product, read all instructions and cautionary markings.
3. Do not expose this product and battery pack to rain or snow or use in damp location.
4. Use of an attachment not recommended may result in a risk of fire, electric shock, or injury to persons.
5. To reduce risk of damaging the electric plug and cord, pull by plug rather than cord when disconnecting charger.
6. An extension cord should not be used.
7. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent, or a similarly qualified person in order to avoid a hazard.
8. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.

9. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
10. This product and battery pack are specifically designed to work together.
11. Do not attempt to disassemble this product and the battery pack housing.
12. Do not store the tool and battery pack in locations where the temperature may reach or exceed 50 °C (122 °F) (such as a metal tool shed, or a car in the summer), which can lead to deterioration of the storage battery.
13. Do not charge battery pack when the temperature is BELOW 0 °C (32 °F) or ABOVE 40 °C (104 °F).
14. Do not incinerate the battery pack. It can be explode in a fire.
15. This product is designed to operate on standard household electrical power only. Use only on the voltage indicated on the nameplate. Do not attempt to use it on any other voltage!
16. Do not abuse cord. Never carry charger by cord or yank it to disconnect from outlet. Keep cord away from heat, oil and sharp edges.
17. Charge the battery pack in a well ventilated place, do not cover the charger and battery pack with a cloth, etc., while charging.
18. Do not short the battery pack. A battery short can cause a large current flow, over heating and burns.
19. NOTE: If the supply cord of this appliance is damaged, it must only be replaced by a repair shop appointed by the manufacturer, because special purpose tools are required.
20. The appliance is not a portable luminaire for children usage.
21. Children shall not play with the appliance.

Symbol	Meaning
	To reduce the risk of injury, user must read and understand instruction manual.
	For indoor use only.
	Use only power supplies listed in this instructions.

⚠ WARNING:

- Do not use other than the Panasonic battery packs that are designed for use with this rechargeable tool.
- Panasonic is not responsible for any damage or accident caused by the use of the recycled battery pack and the counterfeit battery pack.
- Do not dispose of the battery pack in a fire, or expose it to excessive heat.
- Do not drive the likes of nails into the battery pack, subject it to shocks, dismantle it, or attempt to modify it.
- Do not allow metal objects to touch the battery pack terminals.
- Do not carry or store the battery pack in the same container as nails or similar metal objects.
- Do not charge the battery pack in a high-temperature location, such as next to a fire or in direct sunlight.
Otherwise, the battery may overheat, catch fire, or explode.
- Never use other than the dedicated charger to charge the battery pack. Otherwise, the battery may leak, overheat, or explode.
- After removing the battery pack from this product or the charger, always reattach the pack cover. Otherwise, the battery contacts could be shorted, leading to a risk of fire.
- When the Battery Pack Has Deteriorated, Replace It with a New One.
Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.
- If you detect any abnormalities, discontinue use immediately and contact the retailer from which you purchased this product.
- Do not turn the volume up too high when using headphones or earphones.
- Be careful not to raise the volume as your hearing adapts.
- Do not use this product over a long period of time, and always take a break to rest your ears.
- If you experience any discomfort to your ears, discontinue use and contact your physician.
- Do not place heavy objects on the radio or climb on top of it.
- Do not place the radio on an unstable surface or in an unstable position.
- Be sure to always back up the data saved in the device connected to this radio to prevent the loss of data in the event of a device failure.

II. ASSEMBLY**Battery Installation****NOTE:**

If the batteries are removed from both the main battery pack and backup battery pack, initialization will be performed about three minutes later.

Installing back up batteries [Fig. 1]

1. Pull out the battery compartment locker to release battery compartment. There are main battery pack compartment and back up battery compartment.
2. Remove back up battery compartment cover and insert 2 fresh UM-3 (AA sizes). Make sure the batteries are with correct polarity as shown inside the compartment. Replace the battery cover.

NOTE:

- The radio can be used without connecting the backup battery.
- Keeping back up batteries inside the compartment prevent stored data in preset memories from being lost.

CAUTION:

- Do not use any batteries other than those specified. (UM-3)
- Remove batteries if product is not to be used for a long time.
- Do not mix new batteries with old ones or use different types of batteries together.

Improper use of batteries may result in battery leakage, heat generation, fire or explosion.

If any fluid is leaking from the batteries, pay careful attention to the following safety points.


- Never touch battery fluid with your bare hands. Doing so could result in a skin inflammation or an injury.
- Blindness could result if the fluid gets in your eyes.
- Completely wipe up any spilled battery fluid.

Attaching/Removing main battery pack [Fig. 2]


1. After back up batteries are inserted, insert the main battery pack to the main unit. Always insert it all the way until it locks in place with a little click. The suitable battery packs for this radio listed in the Specifications.

2. To remove the battery pack, pull the battery off the compartment.
3. Return the battery compartment locker to the original position.

Low battery indicator

1. Reduced power, distortion and a “stuttering sound” or low battery sign () that appears on the display are all the signs that the main battery pack needs to replace.

NOTE: The battery pack can't be charged via the supplied AC power adaptor.

2. When the main battery is removed and the low battery sign () flashes and an “E.” is shown on the display, this indicates that it is time to replace the back up batteries.

Using the soft bended antenna [Fig. 3]

Straight up the soft bended antenna.

CAUTION:

The soft bended antenna works in one direction only.

Forcibly bending it can cause it to break or result in an injury.

Using Supplied AC power adaptor

Remove the rubber cover and insert the adaptor plug into the DC socket on the right side of the radio. Plug the adaptor into a standard mains socket outlet. Whenever the adaptor is connected, the battery pack is automatically disconnected. The AC adaptor should be disconnected from the main supply when not in use.

NOTE:

- The sound is slightly quieter when using an AC power adaptor than when using a battery pack.
- When the radio has any interference in AM band by its adaptor, please move the radio away from its AC adaptor over 30 cm.
- When the AC adaptor and the battery pack are used simultaneously, the AC adaptor will take precedence in powering the unit. In this case, the power of the battery pack will not be consumed.
- This unit does not have a charging function. Running the unit using both the AC adaptor and battery pack at the same time will not charge the battery pack.
- The AC power adaptor is for exclusive use with this product and is not to be used with other equipment. Also, do not use AC adaptor for other equipment with this product.

III. OPERATIONS

Operating the radio – Scan tuning AM/FM

NOTE:

If the reception signal is weak, try changing the orientation of the radio or antenna.

1. Press and hold the Power button to switch on the radio.
2. Press the Source button until “AM” or “FM” is displayed.
3. Press the Tuning control knob to carry out an auto-tune. The radio will scan up the AM/FM band from the currently displayed frequency and will stop scanning automatically when it finds a station of sufficient strength.
4. After a few seconds the display will update. The display will show the frequency of the signal found.
5. To find other station, press the Tuning control knob as before.
6. When the end of the waveband is reached the radio will recommence tuning from the opposite end of the waveband.
7. Rotate the Volume control to adjust the sound level as required.
8. To switch off the radio, press and hold the Power button .

Manual tuning – AM/FM

1. Press and hold the Power button to switch on the radio.
2. Press the Source button until “AM” or “FM” is displayed.
3. Rotate the Tuning control knob to tune to a station.
4. When the end of the waveband is reached the radio will recommence tuning from the opposite end of the waveband.
5. Use the Volume control to adjust the sound level as required.

Presetting stations in AM/FM mode

There are 6 preset stations each for AM and FM radio. They are used in the same way for each waveband.

1. Tune to the required radio station as previously described.
2. Press and hold the required Preset button (1 to 6) until the radio beeps. “M1” for example is shown next to the frequency. The station will be stored using the preset number. Repeat this procedure for the remaining presets as needed. Preset stations which have already been stored may be overwritten by following the above procedure if required.

Recalling a preset in AM/FM mode

1. Press the Source button until "AM" or "FM" is displayed.
2. Momentarily press the required Preset button to cause the radio to tune to one of the stations stored in the preset memory.

FM stereo/mono **FM**



If the FM radio station being listened to has a weak signal some hiss may be audible. It is possible to reduce this hiss by forcing the radio to play the station in mono rather than stereo.

1. Press the Source button as needed to select the FM band and tune to the desired FM station as previously stated.
2. Press and hold Tuning control knob to enter the menu setting.
3. Rotate the Tuning control until "FM" shows on the display and press the Tuning control knob to enter the setting. If the setting is ST(stereo) press the Tuning control to switch to MN (mono) mode to reduce the hiss. Press the Tuning control to select the option.

Listening to music via Bluetooth® streaming **BT**

You need to pair your Bluetooth® device with the radio before you can auto-link to play/stream Bluetooth® music through the radio. Pairing creates a 'bond' so two devices can recognize each other.

Pairing your Bluetooth® device for the first time

1. Press the Source button until "BT" is displayed. **READY** will be appeared on the display and the Bluetooth® icon  will flash on the display.
2. Activate Bluetooth® on your device according to the device's user manual to allow the pairing procedure.
3. Press the Bluetooth® pairing button, then **PAIR** will show on the display. You can start the search of the radio on your Bluetooth® device. Once "EY37A2" is appeared on your Bluetooth® device, press the item in your Bluetooth® list and it will link with the radio.
4. Once connected, the Bluetooth® icon  will remain steady on the display. You can now play the music in your Bluetooth®-enabled device via the radio.

NOTE:

- If 'EY37A2' shows on your Bluetooth® device list but your device cannot connect

with it, please delete the item from your list and pair the device with the radio again following the steps described previously.

- The effective operation range between the radio and the paired device is approximately 10 meters (30 feet). Any obstacle between the radio and the device can reduce the operational range.
- Bluetooth® connectivity performance may vary depending on the connected Bluetooth® devices. Please refer to the Bluetooth® capabilities of your device before connecting to the radio. All features may not be supported on some paired Bluetooth® devices.

Playing previously-paired devices

This unit can memorize up to 8 sets of paired devices, when the memory exceed this amount, the earliest paired device will be overwritten from the radio.

If your Bluetooth® device already paired with the unit previously, the unit will memorize your Bluetooth® device and it attempts to reconnect automatically with a device in memory which is last connected. If the last connected device is not available, the radio will try to connect to the second last device, and so forth.

Erasing the paired device memory

Press and hold the Bluetooth® pairing button for approximately 7 seconds until you hear a double tone. The radio clears all devices from its memory and becomes discoverable.

Disconnecting your Bluetooth® device

Press and hold the Bluetooth® pairing button until the radio beeps to disconnect with your Bluetooth® device. The Bluetooth® icon will flash on the display indicating the radio is discoverable again for pairing.

Clock and Alarms

Setting the clock format **TIM**

The clock display used in stand-by mode and on the playing mode screens can be set to different format. The selected format is then also used when setting the alarms.

1. Make sure the radio is powered on. Press and hold the Tuning control to enter the advanced menu of the current mode.
2. Rotate the Tuning control until "TIM" shows on the display and press the Tuning control to enter the setting.

3. Rotate the Tuning control to select either 12 or 24 hour format. Press the Tuning control to confirm your choice of clock format.

NOTE:

If the 12 hour clock format is chosen, the radio will then use the 12 hour clock for the setting of alarms and will display a 12 hour clock with PM indicator when in standby mode.

Setting the clock time manually — CLK

1. Make sure the radio is powered on. Press and hold the Tuning control knob to enter the Advanced menu of the current mode.
2. Rotate the Tuning control until "CLK" shows on the display and press the Tuning control to enter the setting. Now the hour setting begins flashing.
3. Rotate the Tuning control to select the desired hour and press the Tuning control to confirm the setting. Now the minute setting begins flashing.
4. Rotate the Tuning control to select the desired minute and press the Tuning control to confirm the setting. The display will then revert to the previous menu.

Setting the alarm clock

The radio has two alarms which can each be set to wake you to AM/FM radio or buzzer alarm. Ensure the clock time is set before setting the alarms.

a. Setting radio alarm:

1. Make sure the radio is powered on.
2. Press and hold the radio alarm button, the radio alarm symbol (^{RADIO}) and the display hour will flash followed by a beep.
3. When the hour digit flashes, rotate the Tuning control to select the required alarm hour and press the Tuning control to confirm the hour setting.
4. Then rotate the Tuning control to select the required alarm minute and press the Tuning control to confirm the setting.
5. When radio alarm symbol is flashing, rotate Tuning control to select desired wake-up band and station, then press Tuning control to confirm the selection.
6. Rotate Tuning control to select the desired volume and press Tuning control to confirm the setting. Radio alarm setting is now completed.

NOTE:

If the selected AM/FM alarm station is not available when the alarm is sounding, the buzzer alarm will be used instead.

b. Setting HWS (Humane Wake System) buzzer alarm:

1. Make sure the radio is powered on.
2. Press and hold the buzzer alarm button, the buzzer alarm symbol (^{BUZZER}) and the display hour will flash followed by a beep.
3. When the hour digit flashes, rotate the Tuning control to select the required alarm hour and press the Tuning control to confirm the hour setting.
4. Then rotate the Tuning control to select the required alarm minute and press the Tuning control to confirm the setting.
5. Rotate Tuning control to select the desired volume and press Tuning control to confirm the volume. Buzzer alarm setting is now completed.

When the alarm sound

To cancel a sounding alarm, press the Power button.

Disabling/cancelling alarms

To disable an active alarm, press the corresponding alarm button to cancel the alarm setting.

Alarm sound duration — ALM

1. Press and hold the Tuning control to enter the advanced menu of the current mode.
2. Rotate the Tuning control until "ALM" shows on the display. Press the Tuning control to enter the setting.
3. Rotate the Tuning control to cycle through the option of 1, 3, 5, 10, 15, 30 and 60 minutes. Stop when the desired option appears on the display, then press the Tuning control to confirm the setting.


Snooze — SNZ

1. When the alarm sounds, press any button other than the Power button will silence the alarm. Snooze symbol (^{SNZ}) will appear on the display.
2. To adjust the silence time for the snooze timer, press and hold the Tuning control to enter the menu setting.
3. Rotate the Tuning control until "SNZ" appears on the display, then press the Tuning control to enter the setting. Rotate the Tuning control to adjust the silence time from the options of 1, 3, 5, 10, 15 minutes or OFF for the snooze timer.
4. To cancel the snooze timer while the alarm is suspended, press the Power button.

To disable the snooze function, rotate the Tuning control until "OFF" is displayed.

Sleep timer **SLP**


The radio can be set to turn off automatically after a preset time has elapsed. The Sleep Timer setting can be adjusted between OFF, 15, 30, 45, 60 and 90 minutes.

1. Press and hold the Tuning control to enter the advanced setting menu.
2. Rotate the Tuning control until "SLP" shows on the display. Press the Tuning control to enter the setting.
3. Rotate the Tuning control to cycle through the option of OFF, 15, 30, 45, 60 or 90. Stop when the desired sleep timer setting appears on the display. The setting will be saved and the LCD will return to normal display.
4. The radio will switch off automatically after the preset Sleep Timer has elapsed. The Sleep Timer icon () will show on the display indicating an active Sleep Timer.
5. To cancel the Sleep Timer function before the preset time has elapsed, simply press and hold the Power button to turn the unit off manually. To cancel the function when countdown is progressing, go to sleep timer function and select "OFF".

Tone control function

EQ function **TON**

The sound of your sound system can be adjusted to suit your personal taste for the material that you are listening to. The radio has 5 preset equalizer modes. Alternatively, you may set the treble and bass levels to your own preferences.

1. Press the Volume control to enter EQ menu.
2. Rotate the Volume control until "TON" is shown on the display. Press the Volume control to enter the setup menu.
3. Rotate the Volume control to cycle through the 6 modes below until the desired mode is displayed. Then press the Volume control to confirm the setting.
 - a. TN 1-Flat
 - b. TN 2- Heavy
 - c. TN 3- Soft
 - d. TN 4- Clear
 - e. TN 5- Vocal
4. To revert back to the upper level menu, rotate the Volume control until  is shown on the display. Then press the Volume control again to return to the upper level menu.

Set my own EQ **BAS**

EN

If you find the preset equalizer functions not to your liking, you may set up a custom treble and bass as following:

1. Press the Volume control to enter EQ menu.
2. Rotate the Volume control until "BAS" is shown on the display. Press the Volume control to enter the setup menu.
3. Rotate the Volume control to adjust the bass level (between -5 and +3). The sound will change as you adjust the level. Press the Volume control again to confirm the setting.
4. Rotate the Volume control until "TRE" is shown on the display. Press the Volume control to enter the setup menu.
5. Rotate the Volume control to adjust the treble level (between -5 and +3). The sound will change as you adjust the level. Press the Volume control again to confirm the setting.

Setting the operation sound **SND**

You can turn on or off the operation sound of the radio.

1. Press and hold the Tuning control to enter the menu setting of the current mode.
2. Rotate the Tuning control until "SND" appears on the display and press the Tuning control to enter the setting.
3. Rotate the Tuning control to choose the required selection and press the Tuning control to confirm the setting.

Auxiliary input socket

A 3.5mm stereo Auxiliary Input sockets is provided at the left side of the radio.

1. Connect an external audio source (for example, smartphone, MP3 or CD player) to the Auxiliary Input socket.
2. Press the Source button until AUX IN is displayed.
3. Adjust the volume setting on your smartphone, MP3 or CD player to ensure an adequate signal level from the player, and then use the Volume control on the radio as needed for comfortable listening.

Headphone socket

A 3.5mm Headphone Socket located on the right hand side of the radio is provided for use with headphones. Inserting a plug automatically mutes the internal loudspeaker. Please be aware that the sensitivity of headphones can vary widely. We therefore recommend setting volume to a low level before connecting headphones to the radio.

It is also recommended to reduce the volume before unplugging your headphones.

CAUTION:

Excessive sound pressure from earphones and headphones can cause hearing loss.

USB socket for Smartphone charging

NOTE:

USB devices cannot be charged while receiving AM broadcasts.

The radio has a USB socket which is intended only for charging a smartphone and similar devices.

Charge time may vary and in some cases may take longer to charge than when using the manufacturers charging unit supplied with the smartphone.

1. Connect your smartphone to the USB charging socket at the left side of the radio.
2. Your smartphone will begin to charge. Please note that charging can take place in FM/Bluetooth®/Aux-in mode.
3. Once your smartphone has charged remove the USB lead.

CAUTION:

Some USB devices allow charging only by a specific method.

Be sure to check before charging your device.

- The charger may not supply power to some USB devices.
- When not using or after charging, remove the USB cable and close the cover.
- Do not connect power source to USB port. Otherwise there is risk of fire. The USB port is only intended for charging lower voltage device. Always place the cover onto the USB port when not charging the lower voltage device.
- Do not insert a nail, wire, etc. into USB power supply port. Otherwise a circuit short may cause smoke and fire.
- Do not connect this USB socket with your PC USB port, as it is highly possible that it may cause breakdown of the units.
- Never use the USB socket in rainy or moist conditions to prevent moist from entering the radio. Always keep the rubber cover on the back well closed under these conditions.

Flashlight

The radio is fitted with a long life LED light located on the front panel of the radio. Press the Light button to switch on and off the flashlight.

Caution: DO NOT STARE INTO BEAM.

~~Use or controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.~~

NOTE:

When no operations are performed, the lights starts blinking after 10 minutes, and then it turns off one minute later.

LED light
LED-Leuchte
Lumière DEL
Luce LED
LED-lampje
Luz indicadora
LED-lys
LED-ljus
LED-lys
LED-valo
LED ışığı

IV. MAINTENANCE

Use only a dry, soft cloth for wiping the unit. Do not use a damp cloth, thinner, benzene, or other Volatile solvents for cleaning. In the event that the inside of the unit or battery pack is exposed to water, drain and allow to dry as soon as possible. Carefully remove any dust or iron filings that collect inside the unit. If you experience any problems operating the unit, consult with a repair shop.

V. ACCESSORIES

Battery Pack

- See the Specification.

Battery Charger

- For inquiries please contact an authorized dealer.

NOTE:

Battery pack and charger are not included in this kit.

[Battery Pack]

For Appropriate Use of Battery Pack

Li-ion Battery Pack [Fig. 4]

- The rechargeable batteries have a limited life.
- For optimum battery life, store the Li-ion battery pack following use without charging it.
- When charging the battery pack, confirm that the terminals on the battery charger are free of foreign substances such as dust and water etc. Clean the terminals before charging the battery pack if any foreign substances are found on the terminals.

The life of the battery pack terminals may be affected by foreign substances such as dust and water etc. during operation.

- When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause sparks, burns or a fire.
- When operating the battery pack, make sure the work place is well ventilated.
- When the battery pack is removed from the main unit, replace the battery pack cover immediately in order to prevent dust or dirt from contaminating the battery terminals and causing a short circuit.

CAUTION:

- To protect the motor or battery, be sure to note the following when carrying out operation.
- If the motor and battery becomes hot, the protection function will be activated and the motor and battery will stop operating.

For safe use

- The battery pack is designed to be installed by proceeding two steps for safety. Make sure the battery pack is installed properly to the main unit before use.

[Battery Charger]**Charging**

- 1) The charger is designed to operate on standard domestic electrical power only as stated in the rating plate. Charge only on the voltage indicated on the rating plate of unit. e.g.230v/50Hz.
- 2) Do not attempt to use it on any other voltage or frequency rating!
- 3) If the temperature of the battery pack falls approximately below -10°C (14°F), charging will automatically stop to prevent degradation of the battery.
- 4) The ambient temperature range is between 0°C (32°F) and 40°C (104°F). If the battery pack is used when the battery temperature is below 0°C (32°F), the unit may fail to function properly.
- 5) Use the charger at temperatures between 0°C and 40°C , and charge the battery at a temperature similar to that of the battery itself. (There should be no more than a 15°C difference between the temperatures of the battery and the charging location.)
- 6) When charging a cool battery pack (below 0°C (32°F)) in a warm place, leave the battery pack at the place and

wait for more than one hour to warm up the battery to the level of the ambient temperature.

- 7) Cool down the charger when charging more than two battery packs consecutively.
- 8) Do not insert your fingers into contact hole, when holding charger or any other occasions.
- 9) To prevent the risk of fire or damage to the battery charger.
 - Do not cover vent holes on the charger and the battery pack.
 - Unplug the charger when not in use.

NOTE:

Your battery pack is not fully charged at the time of purchase. Be sure to charge the battery before use.

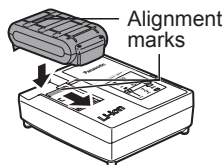
How to charge

1. Plug the charger into the AC outlet.

NOTE:

Sparks may be produced when the plug is inserted into the AC power supply, but this is not a problem in terms of safety.

2. Connect the battery pack firmly into the charger.
 1. Line up the alignment marks and place the battery onto the dock on the charger.
 2. Slide forward in the direction of the arrow.



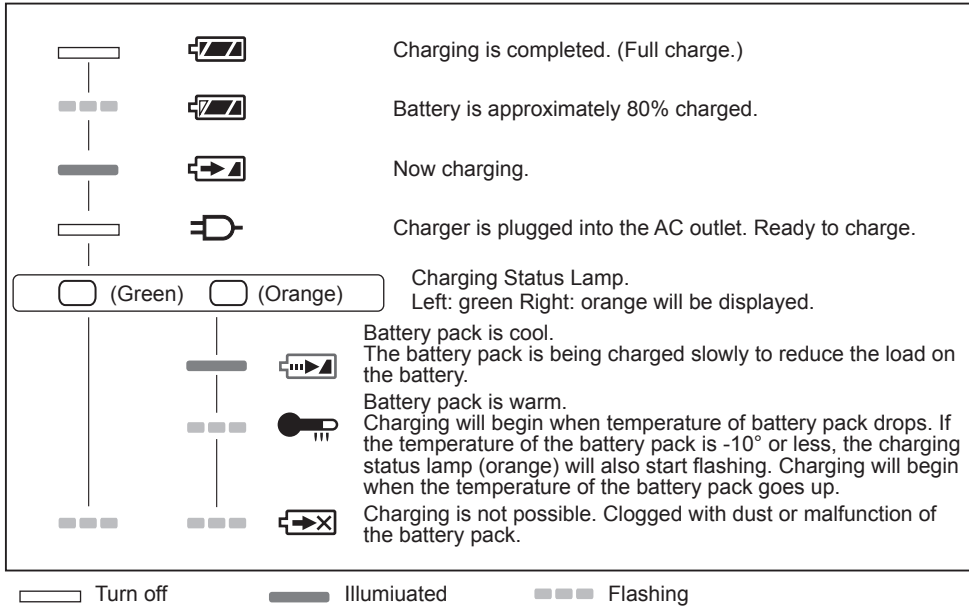
3. During charging, the charging lamp will be illuminated. When charging is completed, an internal electronic switch will automatically be triggered to prevent overcharging.
 - Charging will not start if the battery pack is hot (for example, immediately after heavy-duty operation). The orange standby lamp will be flashing until the battery cools down. Charging will then begin automatically.
4. The charge lamp (green) will flash slowly once the battery is approximately 80% charged.
5. When charging is completed, the charging lamp in green color will turn off.
6. If the temperature of the battery pack is 0°C or less, charging takes longer to fully charge the battery pack than the standard charging time.

Even when the battery is fully charged, it will have approximately 50% of the power of a fully charged battery at normal operating temperature.

7. Consult an authorized dealer if the charging lamp (green) does not turn off.

8. If a fully charged battery pack is inserted into the charger again, the charging lamp lights up. After several minutes, the charging lamp in green color will turn off.

LAMP INDICATIONS



Battery Recycling

ATTENTION:

For environmental protection and recycling of materials, be sure that it is disposed of at an officially assigned location, if there is one in your country.

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2012/19/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

VI. SPECIFICATIONS

[MAIN UNIT]

~~Power Requirements~~

AC power adaptor	DC12V/1500 mA, center pin positive
Battery	UM-3 (AA size) x 2 for back up
	Main battery: 14.4 V/18 V
Frequency range	FM 87.5-108 MHz (0.05 MHz/step)
	AM (MW) 522-1629 KHz (9 KHz/step)

~~Bluetooth®~~

Bluetooth® QD ID	58625 The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.
Bluetooth® version	4.0
Bluetooth® profiles	A2DP/SCMS-T
Transmission power	Bluetooth® specification power Class 2 (2.5mW)
Transmission range	Approximately 10 m (varies according to usage conditions)
Supported codec	SBC
Compatible Bluetooth® profile	A2DP

~~Circuit feature~~

Loudspeaker	3.5 inches 8 ohm x 2
Output Power	When using AC power adaptor: 1.7 W x 2 When using 14.4 V battery pack: 2.6 W x 2 When using 18 V battery pack: 4.5 W x 2
Input terminal	3.5 mm dia./Max. 2 V /stereo (AUX IN)
Output terminal	USB socket for Smartphone charging: DC OUT 5 V/1 A Headphone: 3.5 mm dia./3 Ω / 150 mV /stereo
Antenna system	FM: soft beded antenna
	AM: bar antenna
Dimension (W x H x D)	344 mm x 280 mm x 239 mm
Weight	4.7kg(with EY9L51) / 4.0kg (main unit only)

BATTERY PACK

Model No.	EY9L41	EY9L42	EY9L44	EY9L45	EY9L47	EY9L50	EY9L51	EY9L52
Storage battery	Li-ion Battery							
Motor voltage	14.4V DC (3.6V x 4 cells)	14.4V DC (3.6V x 8 cells)	14.4V DC (3.6V x 4 cells)	14.4V DC (3.6V x 4 cells)	18V DC (3.6V x 10 cells)	18V DC (3.6V x 10 cells)	18V DC (3.6V x 5 cells)	18V DC (3.6V x 5 cells)

Operating time
at 50W+50W
(atFM received)

Approx.
18h

Approx.
9h

Approx.
19h

Approx.
24h

Approx.
11h

Approx.
19h

Approx.
24h

Approx.
11h

BATTERY CHARGER

Model No.	EY0L82							
Electrical rating	See the rating plate on the bottom of the charger							
Weight	0.93 kg							
Charging time	EY9L41	EY9L42	EY9L44	EY9L45	EY9L47	EY9L50	EY9L51	EY9L52
	Usable: 35min.	Usable: 30min.	Usable: 40min.	Usable: 50min.	Usable: 35min.	Usable: 40min.	Usable: 55min.	Usable: 35min.
	Full: 50min.	Full: 35min.	Full: 55min.	Full: 60min.	Full: 40min.	Full: 55min.	Full: 70min.	Full: 40min.

NOTE: This chart may include models that are not available in your area.
Please refer to the latest general catalogue.
For the dealer name and address, please see the included warranty card.



VII. LICENSE

- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license. Other trademarks and trade names are those of their respective owners.
- The various names, company names and product names presented in this manual are the trademarks or registered trademarks of their respective companies. Please note that some TM or ® symbols are omitted in this document

ONLY FOR U. K.**VII. ELECTRICAL PLUG INFORMATION****FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY**

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amp and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUT-LET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.


IMPORTANT:

The wires in this mains lead are coloured in accordance with the following code:

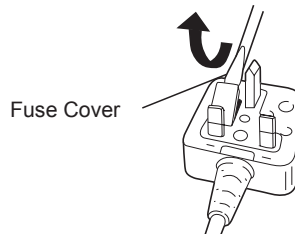
Blue: Neutral

Brown: Live

As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED. Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse and fuse cover if it is removable.



This apparatus was produced to BS800.

添付PPTを追加
「about Bluetooth(R)」

Panasonic Testing Centre
Panasonic Europe Ltd. - Hamburg office,
Winsbergring 15,
22525 Hamburg,
Germany

Panasonic Corporation
1006, Kadoma, Osaka 571-8501, Japan
<http://www.panasonic.com>

EN. DE. FR. IT. NL. ES. DA. SV. NO. FI. TR
EY971037A201 2015.01 S

Printed in China