

Operating Instructions Bedienungsanleitung Manuel d'instructions Gebruiksaanwijzing Bruksanvisning Manuale di istruzioni Manual de Instrucciones

High Power Cassette Player/RDS Receiver with Changer Control
Hochleistungs-Cassettenspieler/RDS-Receiver mit Wechslersteuerung
Lecteur de cassette à haute puissance/ Poste récepteur RDS avec commande de changeur
Hoog-vermogen cassette-speler/RDS radio met wisselaar bediening
Högeffekts kassettspelare/RDS-mottagare med skivväxlarreglage
Sintonizzatore RDS/riproduttore di cassette ad alta potenza con controllo cambiadischi
Reproductor de cassettes/Receptor RDS de alta potencia con control de cambiador

CQ-FX66/FX44G/FX44LEN



(CQ-FX66LEN)

Panasonic

Before operating this set, please read these instructions completely.

Bitte lesen Sie diese Bedienungsanleitung vor der Inbetriebnahme aufmerksam durch.
Nous vous recommandons de lire attentivement ces instructions avant d'utiliser cet appareil.
Lees deze gebruiksaanwijzing in zijn geheel door alvorens dit apparaat in gebruik te nemen.

Läs noga dessa anvisningar före apparatens användning.

Prima di adoperare l'apparecchio, vogliate leggere attentamente le istruzioni.

Antes de poner en marcha el aparato, sírvase leer atentamente estas instrucciones.

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Precautions (ISO Connector)

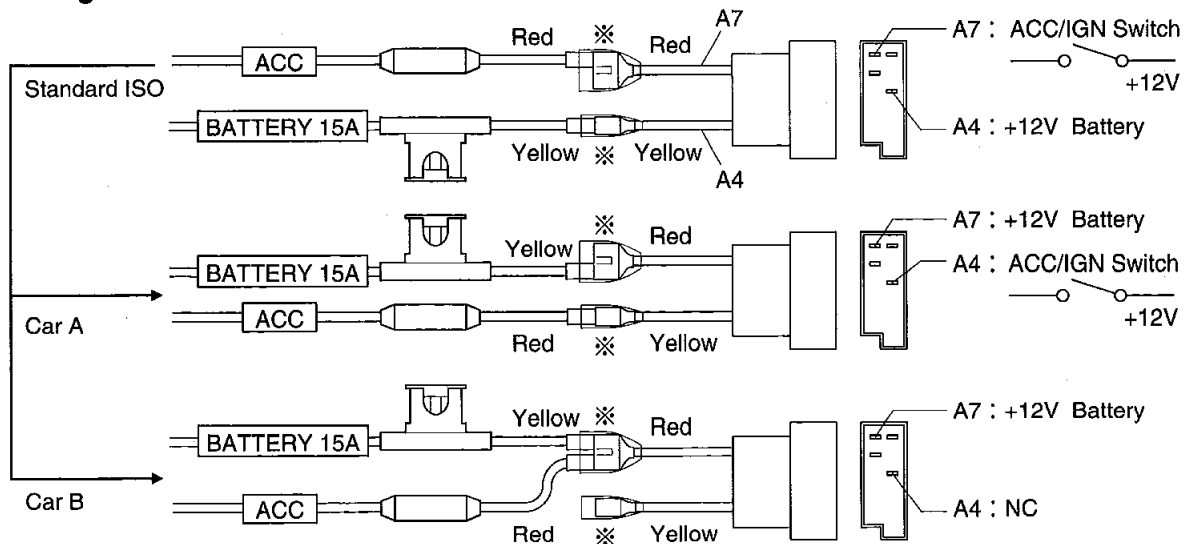
- Wiring for the power connector conforms to the arrangement of standard ISO connectors.
- In case of some car types, the arrangement of connector may differ from the standard ISO as shown in Table 1, even though ISO connectors are adopted.

Table 1

Fig. 1 Pin No.	A4	A7
Car for standard ISO	Battery (permanent 12 V supply)	"IGN" or "ACC" (switched 12 V supply)
In case of Car type A	"IGN" or "ACC" (switched 12 V supply)	Battery (permanent 12 V supply)
In case of Car type B	No Connection	Battery (permanent 12 V supply)

- Make sure the ISO connector arrangement in your car side is as the same as the standard ISO. (Table 1, Fig. 1)
- In case of arrangement for Car type A or B, change connections of the red/yellow leads at the re-connectable joint (※) as shown in Fig.1.

Fig.1



- After fixing the connections, the part (※) should be insulated with electrical tape to keep away from unit damage.

ISO-Anschlußschema (Wichtiger Hinweis)

- Die Verdrahtung des mitgelieferten Stromkabels entspricht der Anordnung der normalen ISO-Steckverbinder.
- Bei einigen Autotypen kann es vorkommen, daß die Verdrahtung anders als die aus der Tabelle 1 ersichtlichen ISO-Anordnung ist, obwohl ISO-Steckverbinder verwendet werden.

Tabelle 1

Abb. 1, Stift Nr.	A4	A7
Auto für normale ISO-Anordnung	Batterie (ständige 12V-Stromversorgung)	"IGN" oder "ACC" (umgeschaltete 12V-Stromversorgung)
Beispiel Auto A	"IGN" oder "ACC" (umgeschaltete 12V-Stromversorgung)	Batterie (ständige 12V-Stromversorgung)
Beispiel Auto B	Kein Anschluß	Batterie (ständige 12V-Stromversorgung)

- Die Daten überprüfen, um sicherzustellen, daß die Anordnung der ISO-Steckverbinder auf der Autoseite die gleiche ist wie die normale ISO-Anordnung (Tabelle 1, Abb. 1).
- Im Falle der Anordnung für Auto A oder B die Anschlüsse der rot/gelben Kabel am Übertragungs-Steckverbinderblock (※) gemäß Abb. 1 ändern.

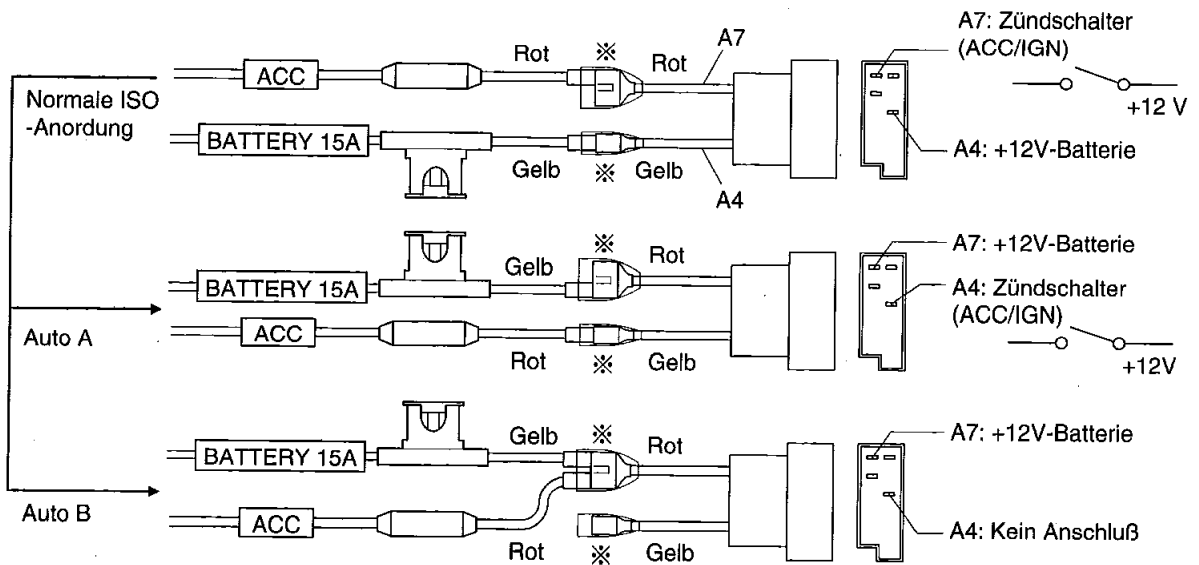


Abb. 1

- Nach der Verkabelung sollte unbedingt der durch ※ gekennzeichnete Teil mit Hilfe von Isolierbändern o.ä. isoliert werden.

Précautions (Connecteur ISO)

- Le câblage pour le cordon d'alimentation prévu en accessoire se conforme à l'alignement des connecteurs standard ISO.
- Pour certains types de véhicules, une partie de câblage peut différer de l'alignement standard ISO comme l'indique le Tableau 1, même si les connecteurs ISO sont adoptés.

Tableau 1

N° de broche sur la Fig. 1	A4	A7
Véhicule pour l'alignement standard ISO	Batterie (alimentation permanente en 12 V)	"IGN" ou "ACC" (alimentation en 12 V sélectionnée)
Exemple de véhicule A	"IGN" ou "ACC" (alimentation en 12 V sélectionnée)	Batterie (alimentation permanente en 12 V)
Exemple de véhicule B	Absence de connexion	Batterie (alimentation permanente en 12 V)

- Vérifier les données pour s'assurer que l'alignement de connecteur ISO du côté véhicule est identique à celui standard ISO (Tableau 1, Fig. 1).
- En cas d'alignement pour le véhicule A ou B, changer les connexions des conducteurs rouges/jaunes au bloc connecteur de transfert (※) comme le montre la Fig. 1.

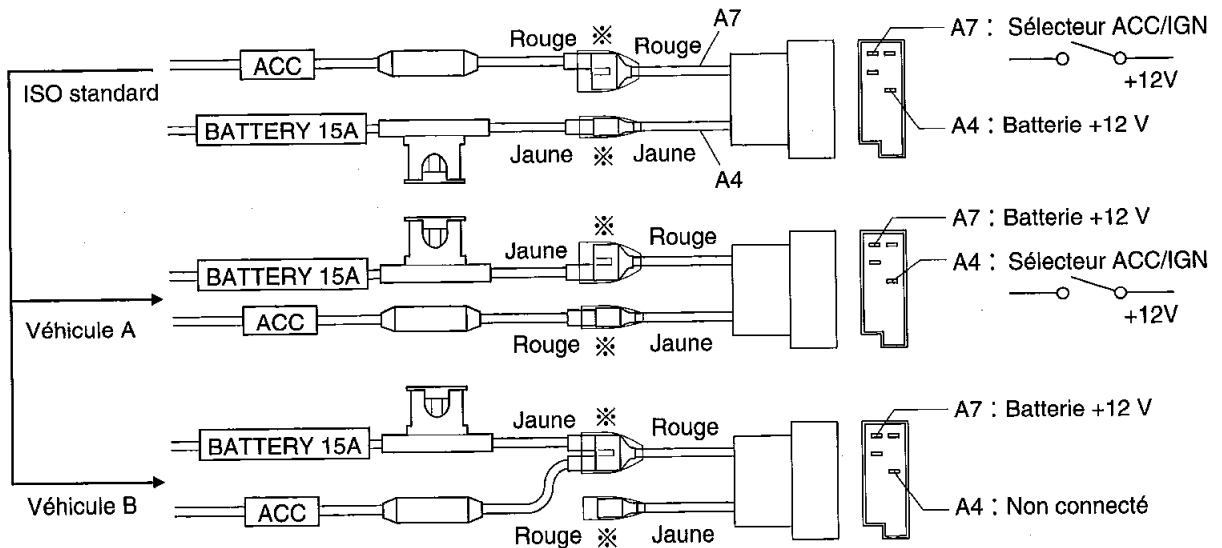


Fig.1

- Après les opérations, les parties marquées par un astérisque (※) doivent être isolées sans faute en utilisant des rubans isolants ou des matériaux similaires.

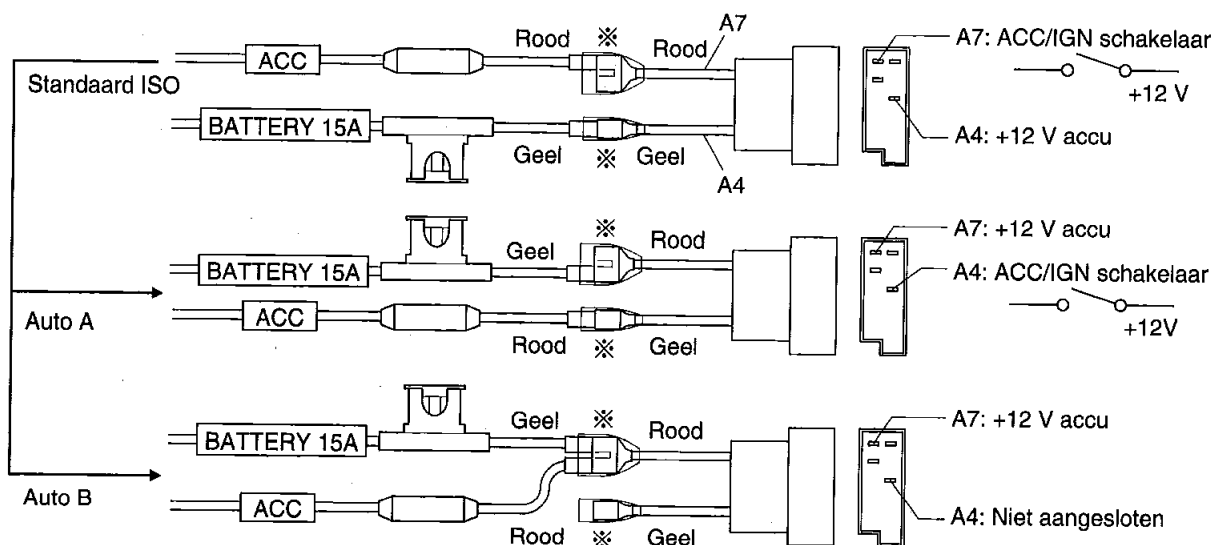
Belangrijk (ISO aansluiting)

- Bedrading voor de spanning voldoet aan de richtlijn voor standaard ISO aansluitingen.
- Bij bepaalde automerken, zal een deel van de bedrading mogelijk verschillen van de standaard ISO aansluiting zoals in Tabel 1 is aangegeven, zelfs wanneer ISO aansluitingen worden gebruikt.

Tabel 1

Afb. 1 Pennummer	A4	A7
Auto voor standaard ISO aansluiting	Accu (kontinu 12 V voeding)	"IGN" of "ACC" (geschakeld 12 V voeding)
Voorbeeld auto A	"IGN" of "ACC" (geschakeld 12 V voeding)	Accu (kontinu 12 V voeding)
Voorbeeld auto B	Geen aansluiting	Accu (kontinu 12 V voeding)

- Controleer de gegevens dat de ISO aansluiting van de auto hetzelfde is als de standaard ISO aansluiting (Tabel 1, Afb. 1).
- In geval van auto A of B, verander de aansluitingen van de rode/gele draad bij het transfer-aansluitblok (※) zoals in afb. 1 wordt aangegeven.



Afb. 1

- Na uitvoering moet het met ※ gemarkeerde gedeelte worden geïsoleerd, met isolatieband of iets dergelijks.

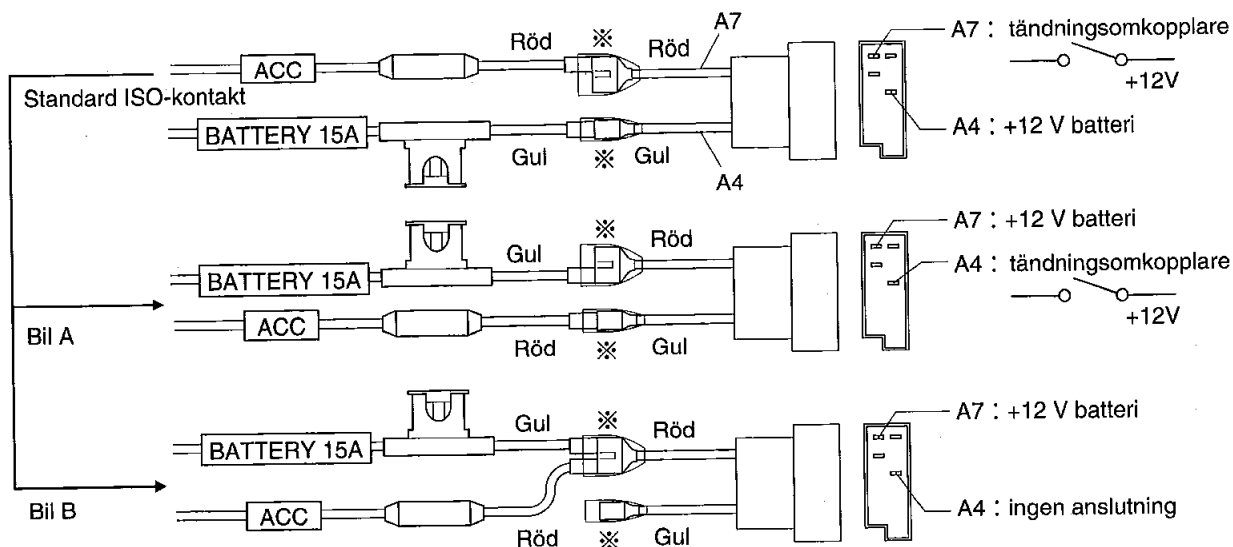
Observera (ISO-kontakter)

- Kontrollera att kablarna för tändningens strömkabel är korrekt utformade för anpassning till standard ISO-kontakter.
- I en del typer av bilar kan det hända att vissa kablar skiljer sig från anpassningen till standard ISO-kontakter på det sätt som framgår av tabell 1, även om ISO-kontakter används.

Tabell 1

Ill. 1, pol nr.	A4	A7
Bil för anpassning till standard ISO-kontakt	Batteri (ständig, 12 V strömförsörjning)	Tändning (omkopplad, 12 V strömförsörjning)
Exempel på bil A	Tändning (omkopplad, 12 V strömförsörjning)	Batteri (ständig, 12 V strömförsörjning)
Exempel på bil B	Ingen anslutning	Batteri (ständig, 12 V strömförsörjning)

- Kontrollera data för att bekräfta att anpassningen till ISO-kontakter på bilens kablar överensstämmer med anpassningen till standard ISO-kontakter (tabell 1/ill. 1).
- Ändra den röda och den gula kabelns anslutningar till överföringskontakten (※) såsom visas på ill. 1, när anpassning för bil A eller bil B gäller.



III. 1

- Kontakterna märkta ※ måste alltid isoleras med hjälp av isoleringstejp eller liknande, efter slutförda anslutningar.

Precauzioni (Connettore ISO)

- Il cablaggio per il cavo di alimentazione accessori è conforme all'allineamento dei collegamenti ISO standard.
- Per alcuni tipi di auto, parti del cablaggio possono differire dall'allineamento ISO standard mostrato nella tabella 1, anche se sono impiegati connettori ISO.

Tabella 1

N. terminale in Fig. 1	A4	A7
Auto per allineamento ISO standard	Batteria (12 V forniti continuamente)	"IGN" o "ACC" (12 V forniti a commutazione)
Esempio di auto A	"IGN" o "ACC" (12 V forniti a commutazione)	Batteria (12 V forniti continuamente)
Esempio di auto B	Nessun collegamento	Batteria (12 V forniti continuamente)

- Controllare i dati per verificare che l'allineamento connettori ISO sul lato dell'auto sia uguale all'allineamento ISO standard (Tabella 1, Fig. 1).
- Nel caso dell'allineamento per auto A o B, cambiare il collegamento dei cavi rosso/giallo al blocco connettore di trasferimento (※) come mostrato nella Fig. 1.

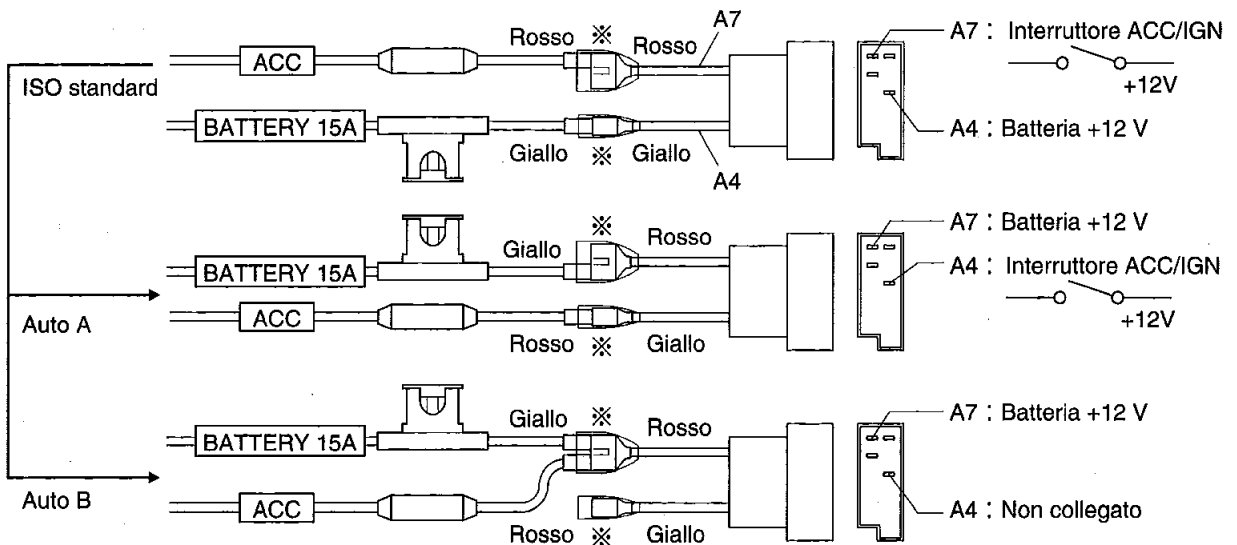


Fig. 1

- Dopo l'operazione la parte indicata da ※ deve essere assolutamente isolata, usando nastro isolante o simili.

Precauciones (Conector ISO)

- El alambrado del cordón de alimentación está de acuerdo con la alineación de los conectores normales de la ISO.
- Para algunos tipos de carros, parte del alambrado puede ser diferente de la alineación ISO normal como se muestra en la Tabla 1, aunque se adopten los conectores ISO.

Tabla 1

Figura 1 Clavija Número	A4	A7
Automóvil con alineación normal ISO	Batería (alimentación permanente de 12 V)	"IGN" o "ACC" (alimentación de 12 V conmutada)
Ejemplo de Carro A	"IGN" o "ACC" (alimentación de 12 V conmutada)	Batería (alimentación permanente de 12 V)
Ejemplo de Carro B	Sin conexión	Batería (alimentación permanente de 12 V)

- Verifique los datos para confirmar que la alineación del conector ISO en el lado del carro es igual a la alineación normal ISO (Tabla 1, Figura 1).
- En el caso de la alineación para el Carro A o B, cambie las conexiones de los conductores rojo/amarillo del bloque de conectores de transferencia (※) como se muestra en la Figura 1.

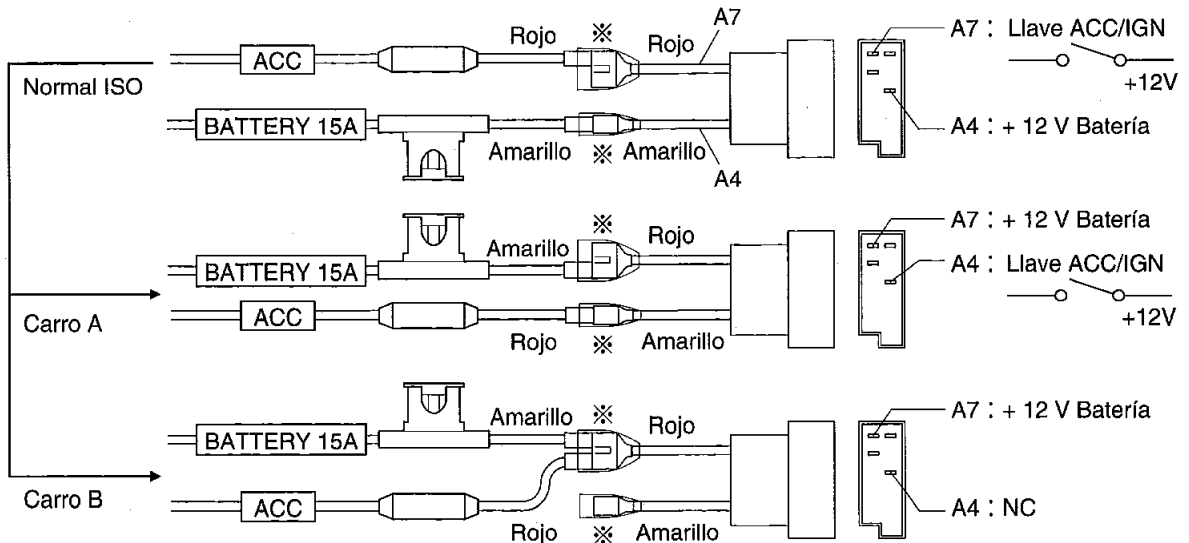


Figura 1

- Después de la conexión, las secciones que llevan la marca "※" deberán ser aisladas sin falta, usando cintas aislantes o similares.

Panasonic welcomes you to their constantly growing family of electronic products owners. We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

Precautions

Volume Level

For your driving safety, keep the volume level low enough to be aware of road and traffic conditions.

Car Washing

To avoid electrical shorts which may cause fire, or other damage, do not expose this equipment (including the speakers and tape) to water or excessive moisture.

Car Ventilation

If your car is parked for several hours in direct sunlight, the temperature inside the car may become very high. It is advisable to drive the car and give the interior a chance to cool down before switching the unit on.

Power Supply

This equipment is designed to be used in a car having 12-Volt negative ground battery system.

Tape Mechanism

Keep magnets, screwdrivers and other metallic objects away from the tape mechanism and tape head.

Service

This unit is made of precision parts. Do not attempt to disassemble or adjust any parts. For repair, please consult your nearest authorized Panasonic Service Center.

About Preset Memory

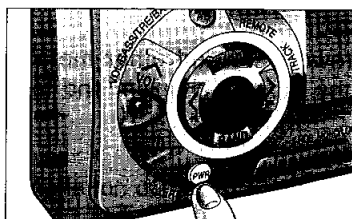
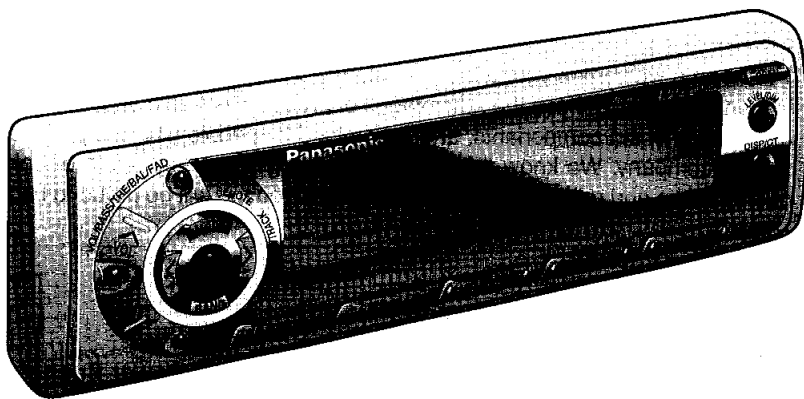
The preset memory is cleared to return to the original factory setting when the power connector or battery is disconnected.

Note:

This operating instruction manual is for three models CQ-FX66LEN, CQ-FX44GLEN and CQ-FX44LEN. The differences among these models are mentioned below. All illustrations throughout this manual represent model CQ-FX66LEN unless otherwise specified.

MODEL	CQ-FX66LEN	CQ-FX44GLEN	CQ-FX44LEN
Operating Controls			
S • HDB	Yes	None	None
Tone Enhancement	None	Yes	Yes
LCD Color	Multi	Green	Blue
Remote Control	Yes	Option	Option

Power and Sound Controls

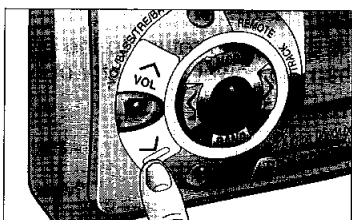


Power

Turn the key in the ignition until the accessory indicator lights.
Press PWR to switch on the power.

Press and hold PWR again to switch off the power.

Note: When power is switched on for the first time, demonstration is displayed. To cancel this display, press D (DISP/CT).



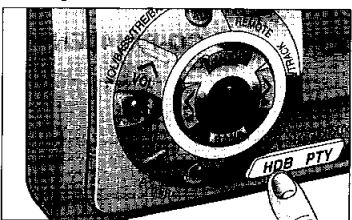
Volume

Press VOL Δ or VOL ∇ to increase or decrease the volume.



Press VOL Δ or VOL ∇ for more than 0.5 second to sequentially change numeric levels on the display.

<Only for CQ-FX66LEN>



S•HDB (Super High Definition Bass) (Only for CQ-FX66LEN)

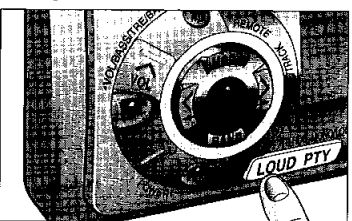
Especially for rock music, the bass-sound will be more powerful.

- Press HDB to be able to listen to high-definition bass.



- Press HDB again to cancel.

<Only for CQ-FX44G/FX44LEN>



Tone Enhancement

(Only for CQ-FX44G/FX44LEN)

- Press LOUD to enhance bass and treble tones when listening at low or medium volume.

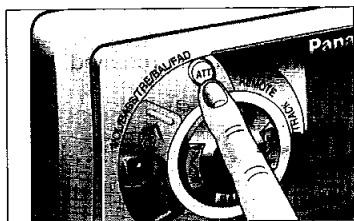


- Press LOUD again to cancel.

Note: This unit is equipped with anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened with sudden loud sound.

This system operates as follows. When PWR is first pressed to switch on, the volume level is low. After that, the volume level gradually returns to the level as the same as the one before turning off.

Anti-volume-blast circuit is not effective when the volume level is lower than position 20 at the display.

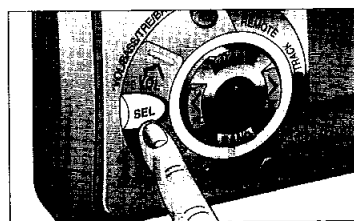


Attenuator

- Press ATT to decrease the volume to about 1/10 of the previous level.



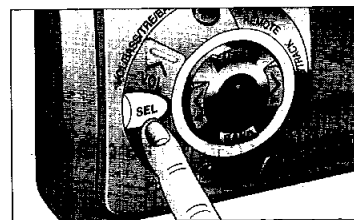
- Press ATT again to cancel.



Changing Audio Modes

Press SEL to switch the audio mode as follows.

Normal Mode → VOL → BAS → TRE → BAL → FAD



Bass and Treble

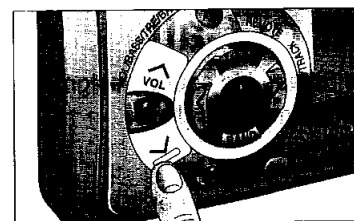
Press SEL to select the BASS (TREBLE) mode. Press VOL▲ or VOL▼ to increase or decrease the bass (treble) response.



-12 to +12



-12 to +12



Balance

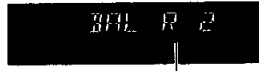
Press SEL to select the BALANCE mode. Press VOL▲ or VOL▼ to shift the sound volume to the right or left speakers.



1 to 15



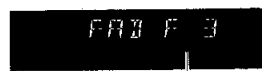
Balance Center



1 to 15

Fader

Press SEL to select the FADER mode. Press VOL▲ or VOL▼ to shift the sound volume to the front or rear speakers.



1 to 15



Fader Center



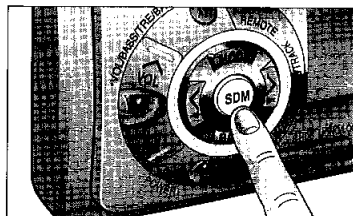
1 to 15

Note: When an audio mode (BAS/TRE/BAL/FAD) is selected but no operation is made within 5 seconds (2 seconds at VOL mode), the display will return to the normal operation mode.

Power and Sound Controls continued

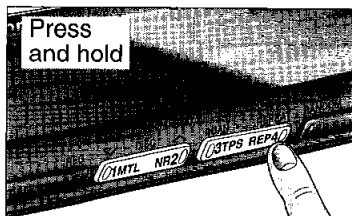
Sound Design Memory

A favorite level setting of each audio mode (except for VOL and ATT) can be memorized and recalled.



Sound Design Memory Mode Selection

Press SDM to select the sound design memory mode .



Sound Design Memory Input

To preset a favorite level setting, press and hold the corresponding preset memory button (1 to 4) in sound design memory mode until the display blinks.

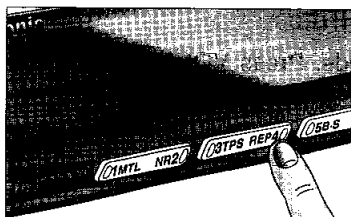


Preset button 5 and 6 are set as follows and they can not be changed.

Preset button 5: recommendable sound setting

Preset button 6: BASS, TRE.....0dB

BAL, FAD.....center

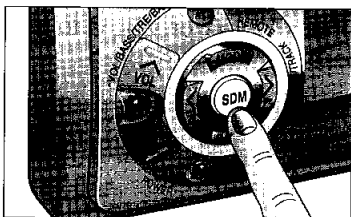


Sound Design Memory Call

When a desired preset memory button is pressed in sound design memory mode, the corresponding sound setting is recalled.



— The selected preset number is displayed.

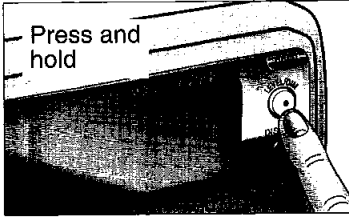


Canceling of Sound Design Memory Mode


Press SDM to changed to the normal mode.

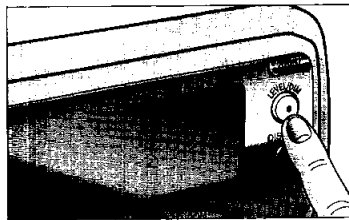
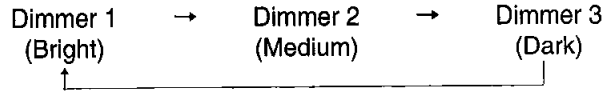
Note: When the sound design memory mode is selected but no operation is made within 5 seconds, the mode will return to the previous mode.

Display Controls




Dimmer Switching

Press and hold  (LEVEL/DIM) for more than 1 second to change the brightness of the LCD as follows:

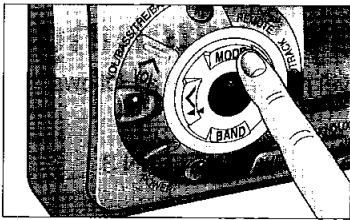
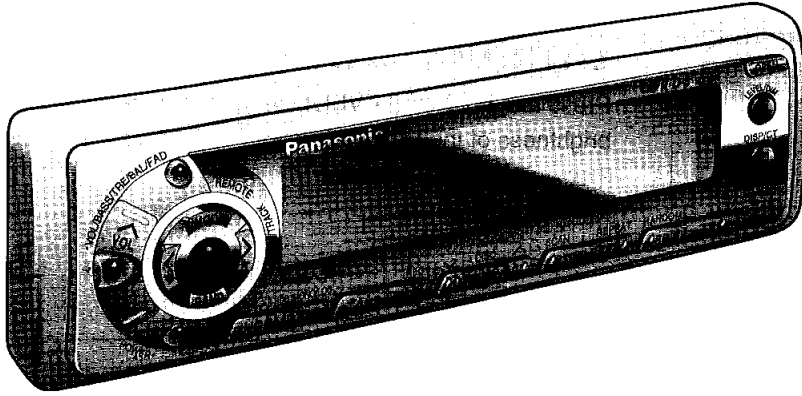


Level Meter Display Switching

Press  (LEVEL/DIM) to change the level meter display as follows.



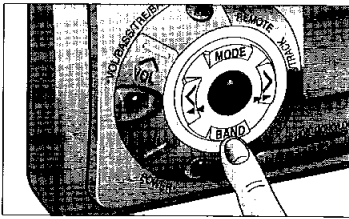
Radio Basics



To change to Tuner Mode

Press MODE to switch the operation mode as follows.

Tuner → Tape → CD Changer Control
↑

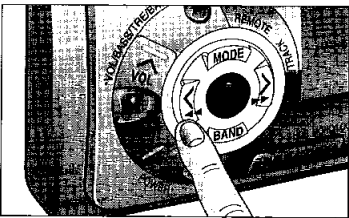


Selecting a Band

Press BAND to select a band as follows.

"STEREO" indicator lights if the station is broadcasting in stereo.

FM1 → FM2 → FM3 → AM(LW/MW)
↑

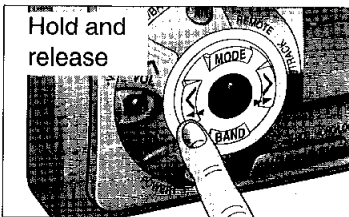


Manual Tuning

Press < or > to move to a lower or higher frequency.



Press and hold < or > to move to a lower or higher frequency rapidly.

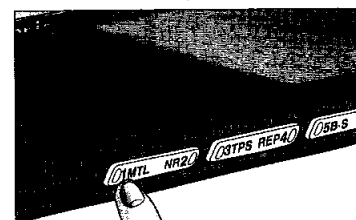
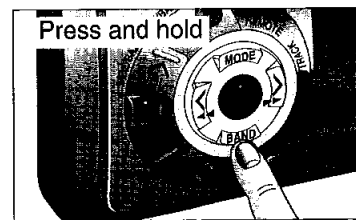
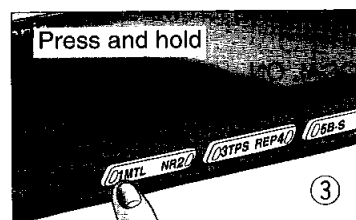
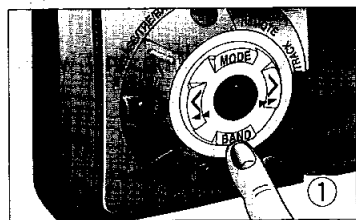


Seek Tuning

Press and hold < or > for more than 0.5 second, then release. The radio automatically stops at the next station.

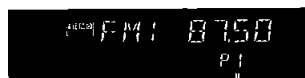
Preset Station Setting

FM1, FM2, FM3 and AM (LW/MW) can save maximum 6 stations each in their preset station memories.



Manual Station Preset

- ① Press BAND to select a desired band.
- ② Use manual or seek tuning to find a station that you want to save into memory.
- ③ Press and hold one of the preset buttons 1 to 6 for more than 2 seconds until the display blinks.
Repeat the process to set other stations for the FM1 to AM bands.



—Preset Channel Indicator

Note: You can change the memory setting by repeating the above procedure.

Tuning in a Preset Station

Press any of the buttons 1 to 6 to tune in the station preset.

Auto Station Preset

Select a band, press and hold BAND (AUTO · P) for more than 2 seconds.

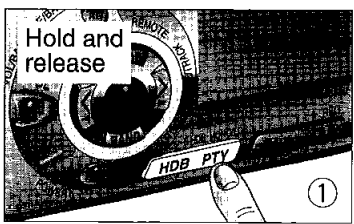
- The 6 strongest available stations will be automatically set in memory on preset buttons 1 to 6.
- Once set, the preset stations are sequentially scanned for 5 seconds each.
- Press the appropriate preset button for the station you want to listen to.

Caution: For safety reasons, do not attempt to program while driving.

Radio Basics continued

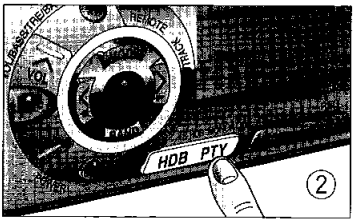
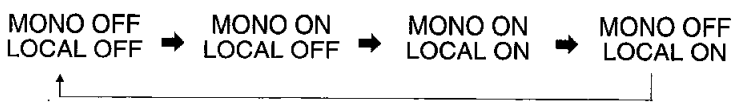
MONO/LOCAL Selection

- Much Interference is reduced during a weak FM stereo broadcasts when MONO is on. (Only for FM mode)
- Searching stops automatically at a strong wave station only when LOCAL is on.



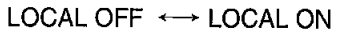
① During FM broadcasts

Press and hold PTY (MONO/LOC) to switch the mode as follows. Release your finger at the desired mode.



② During AM broadcasts

Press PTY (MONO/LOC) on or off the LOC mode as follows.



RDS (Radio Data System) Reception

Many FM stations are broadcasting added data compatible with RDS. This radio set offers convenient functions using such data.

AF (Alternative Frequency)

When receiving condition becomes poor, an RDS station with the same program will be automatically selected.

EON (Enhanced Other Networks)

When EON data is received, the EON indicator lights and the TA and AF functions are expanded.

TA: Traffic information from not only the station now tuned in to but also other stations of the same network can be received.

AF: The frequency list of the RDS stations preset by received EON data is updated.

TA (Traffic Announcement)

When an FM station that periodically provides the latest traffic information is received, the TP indicator lights. If TA on is set, FM traffic information automatically interrupts your listening to a tape, CD changer source until it ends, then you will listen again to whatever you have been listening to.

Best Station Research

If a preset RDS station is in poor condition of reception when you try to tune in to it, the best frequency is selected from the AF list of that station.

REG (Region)

The AF, Best Station Research, PI Seek functions will be as follows:

REG ON : The frequency changes only with the same regional program. This function is mainly used while driving in the same area, for example, in a city.

REG OFF: The frequency changes even with a different regional program if the station is in the same network. The broadcast may be different depending on the case. This function is mainly used when driving far from one region to another.

WHAT PROVIDES EON CAPABILITIES

EON lets the radio set take advantage of RDS information much more than before. It constantly updates the AF list of all presets, including the station currently tuned in to. So, even if you change preset far from home, you will be able to receive the same station at an alternative frequency, or another station serving the same program if any. EON also keeps track of locally available TP stations for quick reception.

Note: When you're in "AF ON" mode, auto preset memory only works for RDS station. When in "TA on" mode, it only works for TP stations. To make auto preset for ordinary stations, cancel AF mode and switch to TA off in advance.

PS (Program Service Name)

When an RDS station is received, the RDS indicator lights and automatically displays the name of that station instead of the frequency. When D (DISP/CT) is pressed during PS display, the frequency is displayed for 3 seconds, then PS display returns.

PI (Program Identification)

If a preset RDS station is poor in receiving condition when it is selected, the automatic seek (PI Seek) starts to seek the same program and tune in to it.

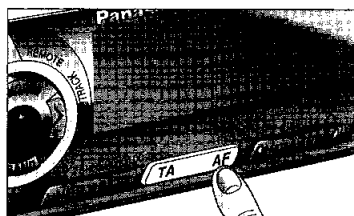
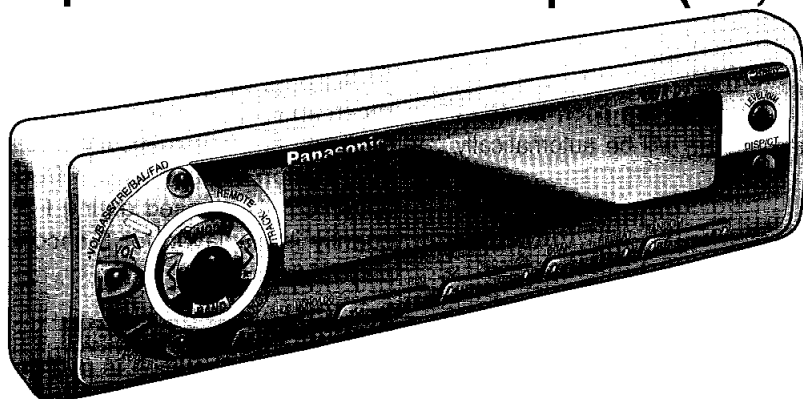
PTY (Program Type)

Program type identification signal

Example : News, rock, classical music, etc.

RDS (Radio Data System) Reception continued

A. Basic Operation in RDS Reception (PS, AF, CT, PI)



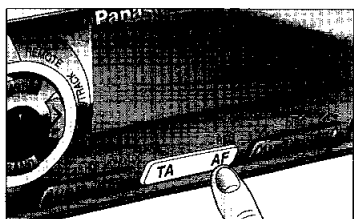
RDS Reception

Press AF when receiving a station in the FM1, FM2 or FM3 band.

- The operating mode changes to AF ON or AF OFF, respectively.



- Select AF ON if you wish to use the AF network of an RDS station. Best station research is activated at the same time.
- Select AF OFF if the AF network of an RDS station is not necessary.



To Change AF Mode

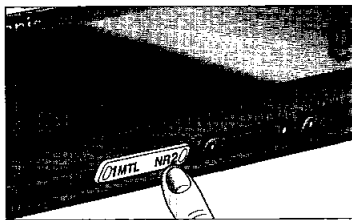
Press AF to change AF ON and activate Best Station Research at the same time. (3 seconds maximum)



Note:

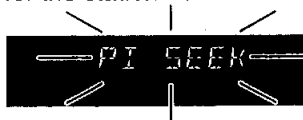
1. Default mode is AF1.
2. AF1 has a low level of AF operating sensitivity in urban areas. Therefore, AF does not frequently operate even if sensitivity is temporarily lowered between skyscrapers, for example.
3. AF2 is for suburban areas with a higher level of sensitivity than AF1.

For Seek Tuning, RDS Station Preset, Tuning in a RDS preset station, and Auto RDS Station Preset, please refer to Radio Basics (page 16 to 18).

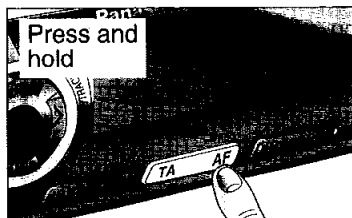


RDS seek tuning (PI seek)

The PI seek function may be used if an RDS station selected from the memory is poor in receiving condition. Press the preset button again for the station now tuned in to.



PI Seek: If Best Station Research fails in selecting the best station, the PI seek function operates to automatically tune in to the same program.



Region (REG) Switching

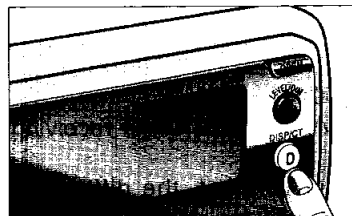
Press and hold AF(REG) for more than 2 seconds in AF mode to alternately select REG ON and REG OFF.



Note:

If you wish to stay with the same program, keep REG ON. If you keep REG OFF, there is a higher possibility of returning in to an AF station in better receiving condition.

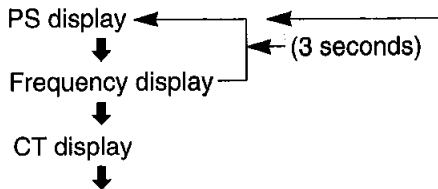
The relationship of the PI seek function with REG ON and REG OFF is as described above.



Changing Display

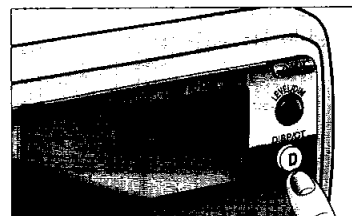
Press D(DISP/CT) to change the display.

(Frequency display continues for only 3 seconds, returning to PS display after that.)



Clock Time (CT) System

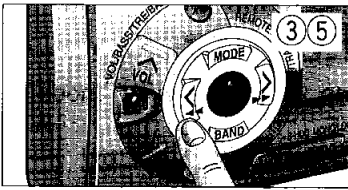
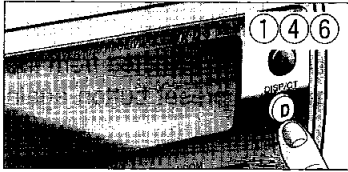
The CT (24-hour) system may not properly operate in areas where RDS CT service is not available. Once CT service is received, the CT system keeps operating. "NO CT" is displayed in areas where no CT service is available.



Clock Display

Press D (DISP/CT) to indicate the clock display.

RDS (Radio Data System) Reception continued



Initial Time Setting

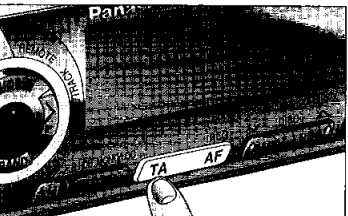
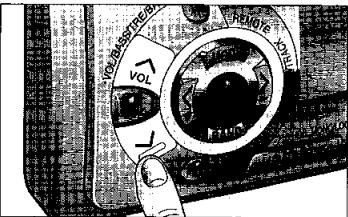
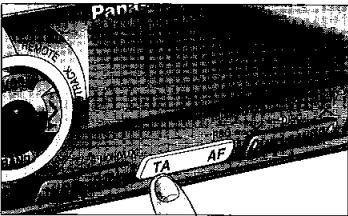
Press BAND to change to AM mode.

- ① Press D(DISP/CT), "NO CT" is displayed.
- ② Press and hold D(DISP/CT) again for more than 2 seconds, "hours" blinks indicating the time setting mode is activated.
- ③ To set hours, press < or >.
- ④ Press D(DISP/CT) again for minutes setting.
- ⑤ To set minutes, press < or >. Hold < or > change numbers rapidly.
- ⑥ After setting the time, press D(DISP/CT).

Note:

- If CT display is kept on, it remains on even if PWR and ACC are turned off and back on again.
- In other modes, press D (DISP/CT) to get RDS CT-service.

B. TP Reception



Select traffic information (TA on) mode

Press TA to switch on and keep it there when you wish to listen to traffic information. Press TA to switch off when no traffic information is needed.



Volume Setting (Only for TA on mode)

Adjust the volume as desired using VOL Δ or VOLV while receiving traffic announcement. (TA)
After volume for traffic announcement (TA) is set, the difference between normal volume and TA volume is automatically stored in the memory (up to 5 levels) so that next traffic information will be received at the preceding TA volume which may be higher or lower than normal volume.

Normal volume can be changed up to 5 levels upward or downward. If an adjusted level of volume is over 40 or less than 0, any further change will not be made.

When receiving a station other than TP station (including EON stations)

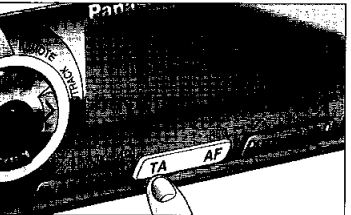
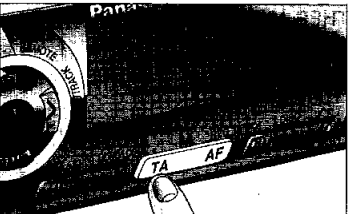
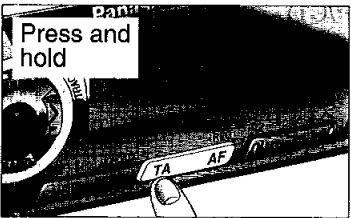
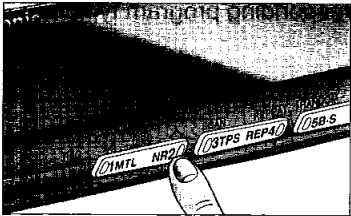
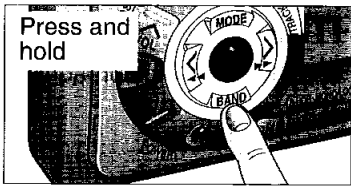
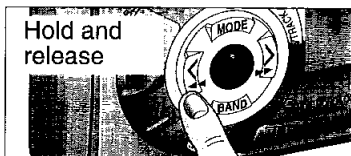
A traffic information station is automatically searched for and the radio automatically stops the next available TP station.

EON Capabilities: EON lets the radio take advantage of much more RDS information than before. It constantly updates the AF lists for all switch presets far from home, you will receive an alternative frequency for the same station, or another station carrying the same program, when such exists. EON also keeps track of locally available TP station.



→
Press TA.





TP Seek Tuning

Press < or > for more than 0.5 second, then release. The radio automatically stops at the next available TP station.

Auto TP Station Preset

Press and hold BAND (AUTO-P) for more than 2 seconds. The six strongest available TP stations are automatically set in memory on the preset button 1 to 6.

Once set, the preset stations are sequentially scanned for 5 seconds each.

Tuning in a TP station preset

Press any of the preset buttons 1 to 6 that you want to listen to. And then Best Station Research function is activated to automatically select the strongest available frequency for the TP station (through the built-in frequency) lists, if reception is weak.



Muting TA on

Press and hold TA for more than 2 seconds to light "TA on". Then Traffic Announcement (TA) function is activated to operate, allowing you to listen to only Traffic Program whenever it is available.

Muting TA on canceling (Muting TA on → TA on)

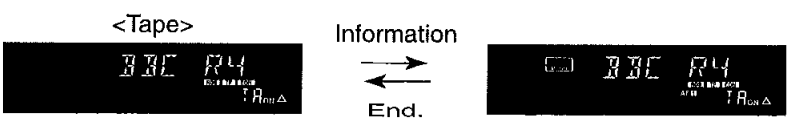
Press TA again.
Press VOL▲ to increase the volume level.

TP Auto Search

If receiving conditions are poor when TA is on during muting and if there is no other alternative frequency in the same network, a traffic announcement station in good receiving condition is automatically searched for.

Tape/CD•C TA on

Press TA during Tape, CD changer mode. When TA on mode is selected while listening to the source in that mode, wait for Traffic Announcement to begin.



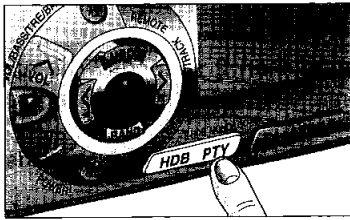
Switching to TA off Mode

- Select either one of the following steps.
- Press TA when TA is on.
 - Press and hold TA for more than 2 seconds when Muting TA is on.
 - Press TA when TAPE/CD•C TA is on.

RDS (Radio Data System) Reception continued

C. PTY Reception

(There are some areas where PTY service may not be available.)

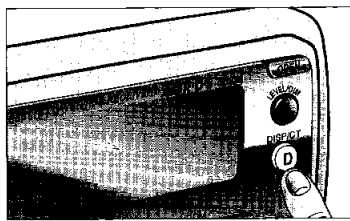


Switching to PTY mode

Press PTY to select PTY display mode, and the PTY of the broadcast now received is displayed.



"NO PTY" is displayed if there is no corresponding program type.



Changing PTY Display Language

Press D (DISP/CT) in PTY mode to alternate the language between English and Swedish.

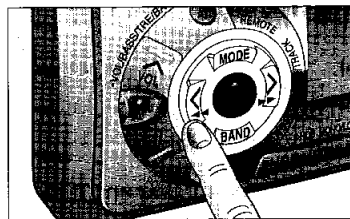
Press D (DISP/CT).



<English>

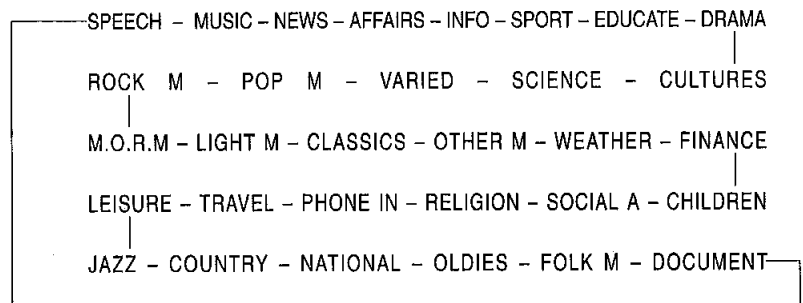


<Swedish>



Program Type Selection

Press < or > to select the program type as follows.



When a desired selection has been made, press BAND. Then automatic seek will start to tune into the station broadcasting the selected program type.

Note :

Seek tuning does not operate as long as "NO PTY" is displayed.

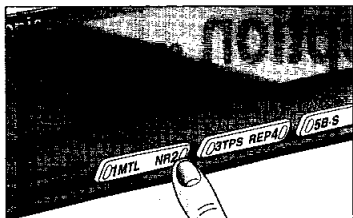
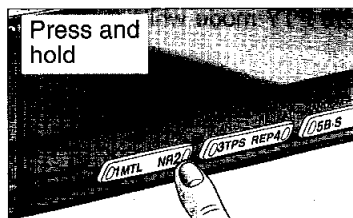


TABLE of PTY CODE and Program Type

Press any of the preset button 1 to 6 that you want to desire the program type. Those buttons are already stored program types as follows. (Default setting)

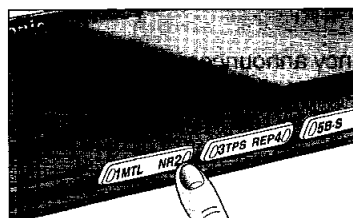
<PRESET PTY>

Preset NO.	1	2	3	4	5	6
Program Type	NEWS	SPEECH	SPORTS	POP. MUSIC	CLASSICS	MUSIC
Display	NEWS PT1	SPEECH PT2	SPORTS PT3	POP M PT4	CLASSICS PT5	MUSIC PT6
	NEWS	AFFAIRS INFO EDUCATE DRAMA CULTURES SCIENCE VARIED WEATHER FINANCE CHILDREN SOCIAL A RELIGION PHONE IN TRAVEL LEISURE DOCUMENT	SPORT	POP M	CLASSICS	ROCK M M.O.R.M LIGHT M OTHER M JAZZ COUNTRY NATIONAL OLDIES FOLK M



Program Type Preset

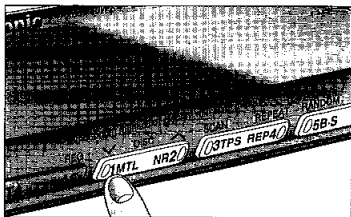
Press and hold one of the buttons 1 to 6 for more than 2 seconds to pre-set the desired program type selection in that button.



Tuning in a PTY Preset Station

Press any of the preset buttons 1 to 6 that you want to listen to.

RDS (Radio Data System) Reception continued



Searching for PTY

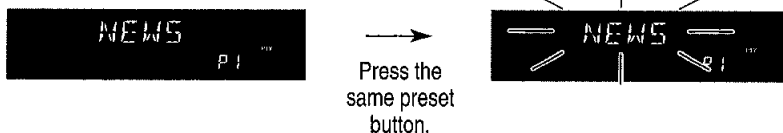
- ① Select a desired station from among those preset in the preset number buttons 1 to 6. Then, the preset PTY and that preset number are displayed for 5 seconds.



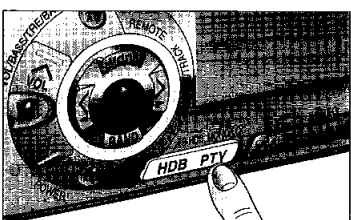
- ② While the desired type from 6 presets is displayed, take either of the following two steps.

- A) Press the same preset button again.
- B) Press BAND.

If the desired PTY station is available, it is directly received. If it is not, "NO PTY" blinks and the radio returns to the station that was received before the search.



Press the same button again to cancel.



Canceling of PTY Mode

Press PTY to cancel.

The set returns to the state existing before PTY mode while the receiving frequency remains unchanged.

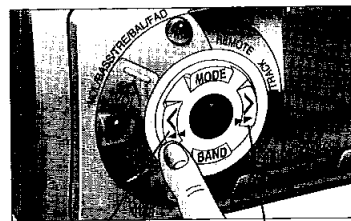
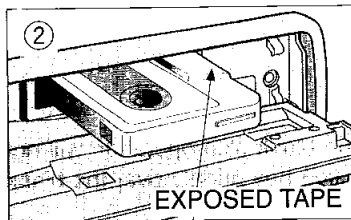
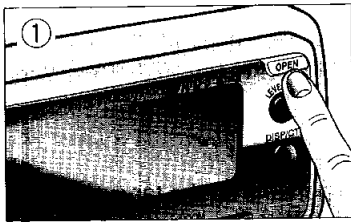
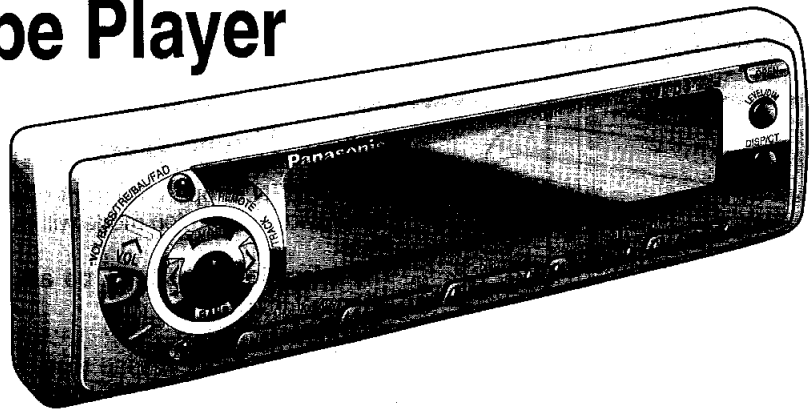
Emergency Announcement Reception

(Some areas are not covered by emergency announcement service.)

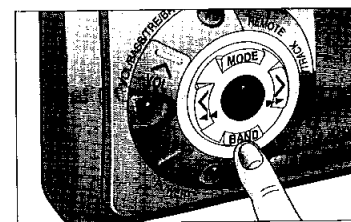
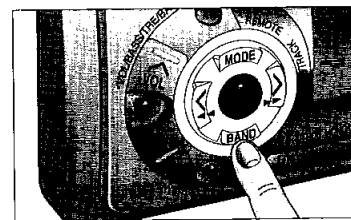
If an emergency announcement is broadcast during tape/CD changer mode, the radio is automatically selected to receive the emergency announcement. "ALARM" blinks.

Cassette Tape Player

Basics



REWIND FAST FORWARD



Loading a Cassette

- ① Press OPEN to open the front panel.
- ② Insert a cassette with the exposed tape side facing to the right.
- ③ Close the front panel by hand.



PROGRAM INDICATOR

Caution:

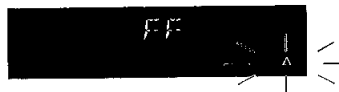
When the front panel is opened, do not force it down and do not put anything on it because these may result in damage to the unit

Note:

While inserting a cassette tape, the volume decreases to about 1/10 of the previous level. And the volume is back to the previous level when the front panel is closed completely.

Rewind and Fast Forward

Press ◀◀ or ▶▶ to rewind or fast forward the tape.



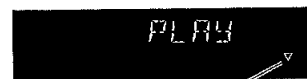
To stop rewind or fast forward, press BAND (PRG) .

Changing Sides

Press BAND (PRG) to change to the program on the other side of the tape.

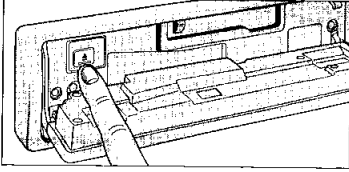
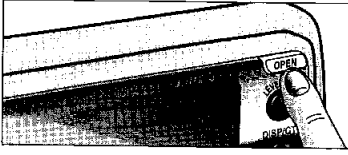


TOP SIDE PLAYING



BOTTOM SIDE PLAYING

Cassette Tape Player Basics continued



Ejecting the Tape

Press OPEN to open the front panel. Press \blacktriangle to eject a cassette, and the previous operation mode will resume.

Note:

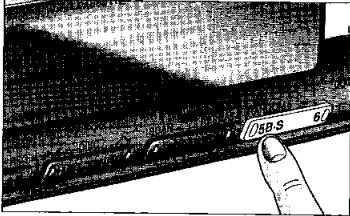
The cassette tape should be always removed from the cassette slot when not in use.

Caution:

When ejecting a cassette tape, do not close the front panel until the cassette tape is ejected and removed from the cassette slot completely.

Note:

While ejecting a cassette tape, the volume decreases to about 1/10 of the previous level. And the volume is back to the previous level when the front panel is closed completely.



Blank Skip

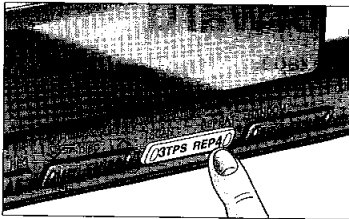
- Press 5 (B · S) to skip long unrecorded portions on the tape.



- Press 5 (B · S) again to cancel.

Note:

- "B · SKIP" indicator lights. However, the blank skip operation will not work if REPEAT is on. The repeat function has priority over the blank skip function.
- Also the blank skip operation will not work when the unrecorded portions of the tape is less than 15 seconds.

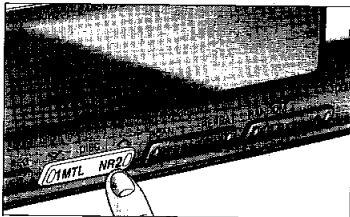


Repeat Play

- Press 4 (REP) to repeat the same music you are listening to.



- Press 4 (REP) again to cancel.

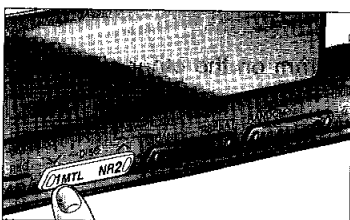


Dolby Noise Reduction

- Press 2 (NR) to set the Dolby B NR mode.



- Press 2 (NR) again to cancel.
- Set the Dolby B NR mode when playing back a tape recorded with Dolby B Noise Reduction.



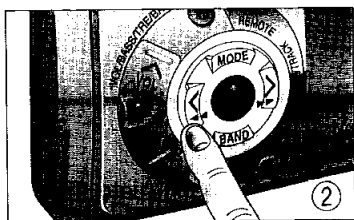
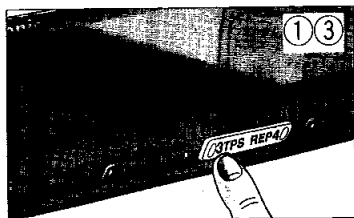
Metal Tape Mode

- Press 1 (MTL) when playing metal or chromium dioxide (CrO₂) tapes.



- Press 1 (MTL) again to cancel.

Note: Playing non-metal tapes in MTL mode causes high frequency imbalance, which affects tone quality.

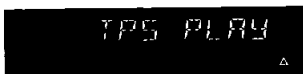


or

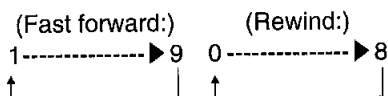


TPS Operation (Tape Program Search)

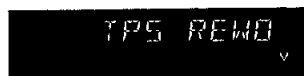
① Press 3(TPS) to activate the Tape Pprogram Search mode.



② From the current selection, decide which program you want to select. Now, press ►► several times forward (up to 9 programs) or press ◀◀ several times backward (up to 8) to select the corresponding program number.



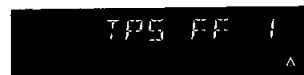
EX1. To select the current program again press 3 (TPS), and press ◀◀ once.



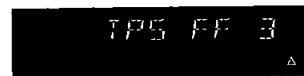
EX2. To select the 1st program backward of the current selection, press 3 (TPS) once, and press ◀◀ twice-times.



EX3. To select the next program, press 3 (TPS) and press ►► once.



EX4. To select the 3rd program forward of the current selection, press 3 (TPS) once, and press ►► three times.



③ Press 3 (TPS) again to cancel.

Note:

The TPS mode may not work correctly in the following cases. This, however, does not mean that the unit is defective.

- There is an interval less than 3 seconds or having a high level of noise or hum between programs.
- There is particularly low-level passage during the program.

Note:

To maintain your cassette player in top condition, avoid using tapes that are longer than 90 minutes (C-90).

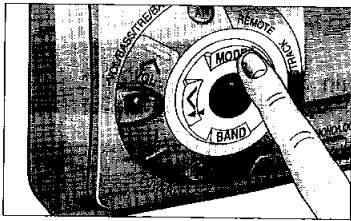
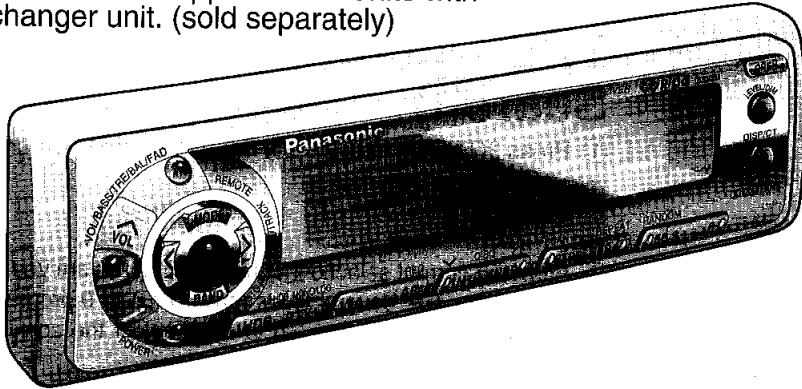
“For Inserting a Cassette Tape”

If you insert into the unit a cassette with a loose tape caused by forcing it into cassette with a finger or the like, the cassette may not be properly reproduced. In such a case, eject the cassette, make the tape tight, then insert it back into the deck.

CD Changer Basics

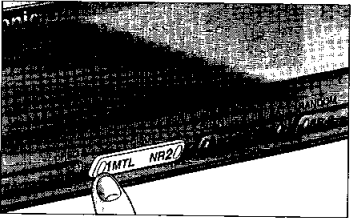
Note:

CD changer functions are applicable to units with optional CD changer unit. (sold separately)



To start the CD Changer

While CD changer is connected, press MODE to change into the CD changer mode and playback starts automatically.

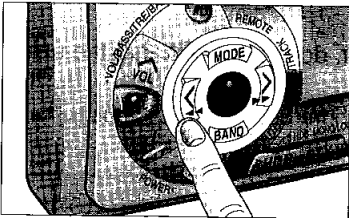


Selecting a Disc

Press ∇ DISC or DISC \wedge to select discs in descending or ascending order.

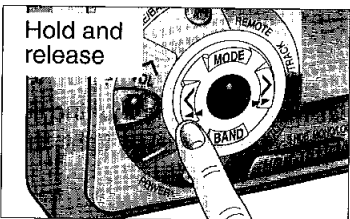


Then, the selected disc will start to play from the first track.



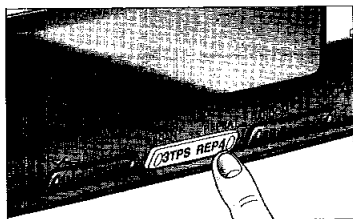
Selecting a Track

- Press \blacktriangleright once to go to the next track.
- Press \blacktriangleleft once to play from the beginning of the current track. Press twice to play the previous track.
- Press repeatedly to skip the desired number of tracks.



Searching a Track

- Press and hold \blacktriangleleft or \blacktriangleright for more than 0.5 second to activate reverse through or fast forward a track.
- Release \blacktriangleleft or \blacktriangleright to resume the normal CD play.

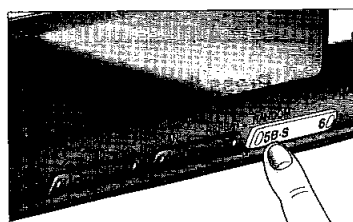


Repeating a Track

- Press 4 (REPEAT) to repeat the current selection.

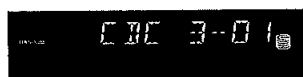


- Press 4 (REPEAT) again to cancel



Random Selection

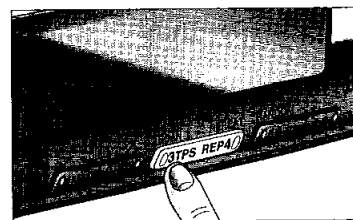
- Press 5 (RANDOM). A random selection of music is played from all available tracks.



- Press 5 (RANDOM) again to cancel.

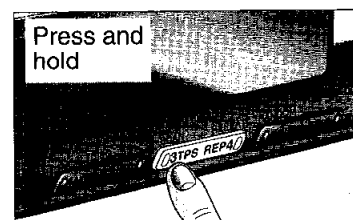
Note:

The "∨DISC" or "DISC∧" is operated, has priority over Random Play mode. The Random mode will stop and the disc select function will operate once the ∨DISC or DISC∧ is pressed.



Scanning Tracks

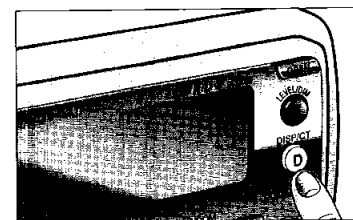
- Press 3 (SCAN). The display blinks and the first 10 seconds of each track on the discs play in sequence.
- Press 3 (SCAN) again to cancel.



Press and hold

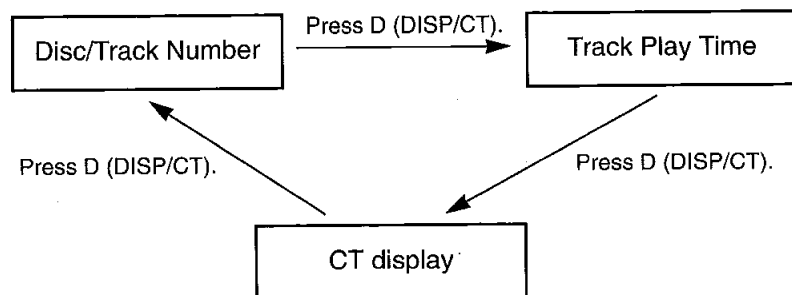
Scanning Discs

- Press and hold 3 (SCAN) for more than 2 seconds. The 1st track of all the discs in the magazine is played for 10 seconds each.
- Press 3 (SCAN) again to cancel.







Changing the Display

Press D(DISP/CT) to switch the display as follows.



CD Changer Basics continued

Error Display Messages

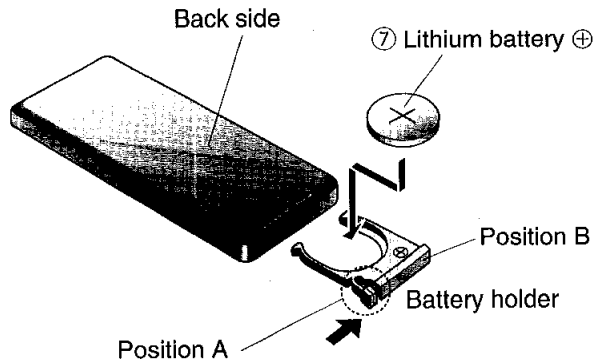
 <p>The image shows a digital display with 'E1' on the right and 'DISC No.' with an arrow pointing to a disc icon on the left.</p>	<p>Displays when the compact disc is dirty or when it is inverted. Next compact disc is automatically selected.</p>
 <p>The image shows a digital display with 'E2' on the right and 'DISC No.' with an arrow pointing to a disc icon on the left.</p>	<p>Displays when the compact disc has a scratch on it. Next compact disc is automatically selected.</p>
 <p>The image shows a digital display with 'E3' on the right and 'DISC No.' with an arrow pointing to a disc icon on the left.</p>	<p>Displays when the unit stops operating for some reason. Press the eject button of the changer unit.</p>
 <p>The image shows a digital display with '0000' on the right and 'DISC No.' with an arrow pointing to a disc icon on the left.</p>	<p>Displays when there is no disc in the magazine.</p>

Remote Control Basics

[CQ-FX66LEN (Supplied)
CQ-FX44GLEN, CQ-FX44LEN (Option)]

Battery Replacement:

- 1. Remove the battery holder.**
Pull the holder by the Position B while pushing Position A in the direction indicated by the arrow.
- 2. Replace the battery.**
Set a new battery properly with (+)side up as illustrated.
- 3. Insert the battery holder.**
Push in the holder to the original position.



Note on Batteries:

Old batteries must immediately be removed and disposed.

Battery Information:

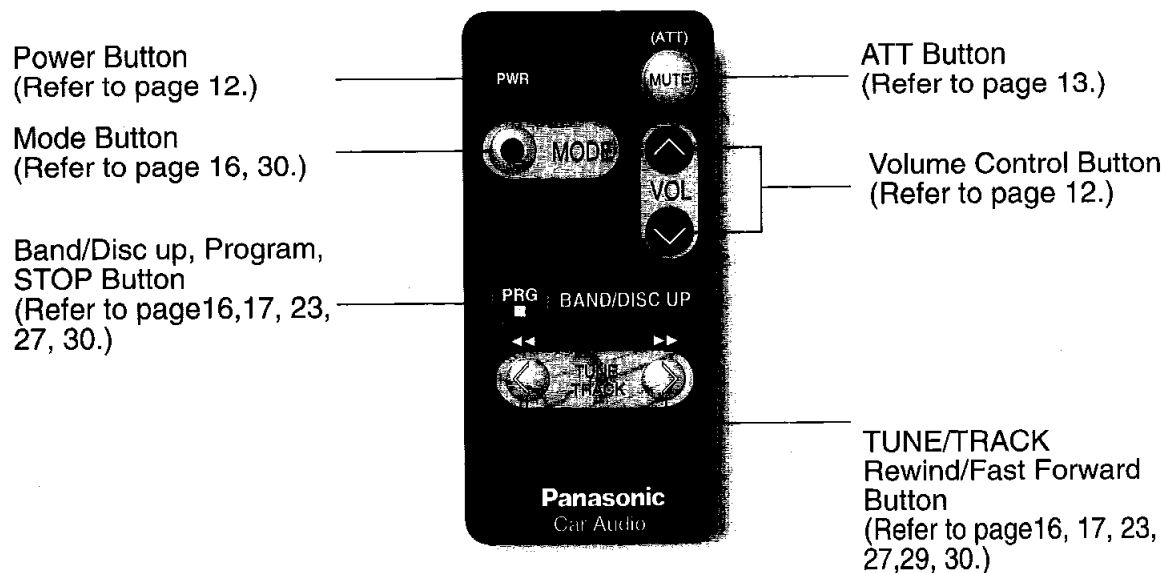
- Designated Battery: Panasonic Lithium Battery (CR2025)
- Battery Life: 6 months with normal use (in normal room temperature)

Caution:

Improper use of batteries may cause overheating, explosion or ignition, resulting in injury or fire. Battery leakage may cause damage to the unit.

- Do not disassemble or short the batteries. Do not throw the batteries into a fire.
- To avoid the risk of accident, keep the batteries out of reach of children.

Names of Main Controls:



Anti-Theft System

This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable. The security indicator will blink.

To Remove the Removable Face Plate

- ① Switch off the power.
- ② Press the OPEN. The removable face plate will be opened.

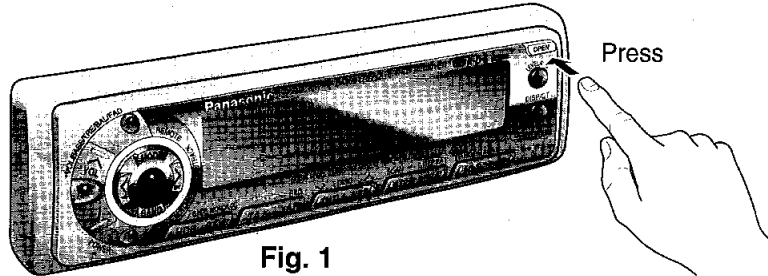


Fig. 1

- ③ Push the face plate to either the right or left, then pull it out toward yourself.

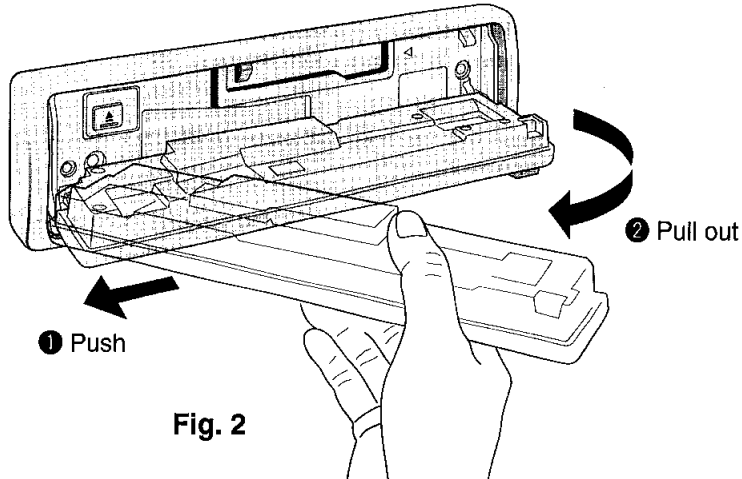


Fig. 2

- ④ As shown in Fig.3, gently push the lower side of the case and open its cover. Keep the removable face plate in the case. Then, you can bring the plate safely.

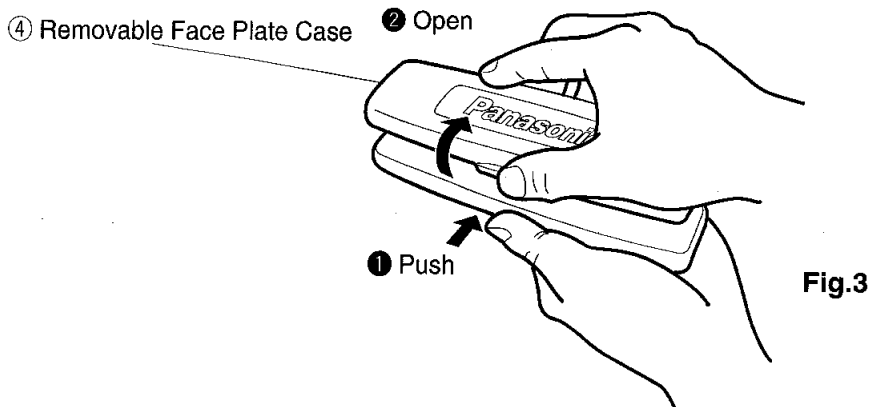


Fig.3

To Install the Removable Face Plate

- ① Fit either of the right or left hole in the face plate over the main unit's pin, and fit it over on the other side while pushing it.

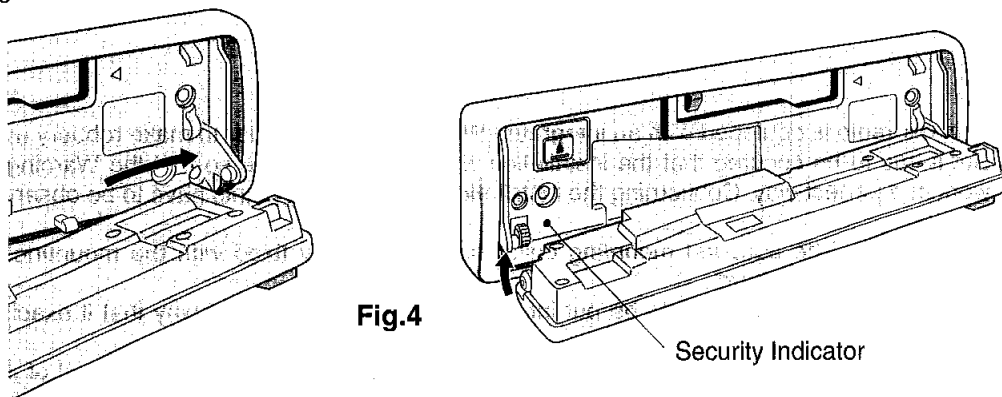


Fig.4

Security Indicator

- ② After fitting the face plate holes, move the face plate up and down a few times to make sure that it has been fitted securely.

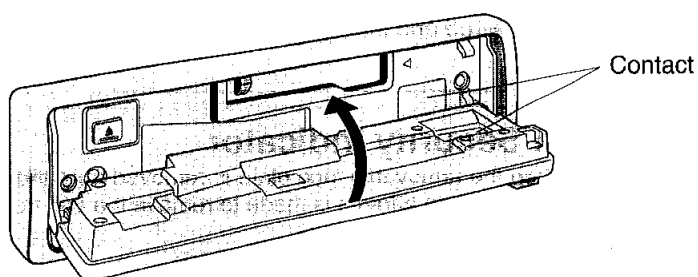


Fig.5

- ③ Close the front panel and press the right side of the face plate until "click" is heard.

Caution:

1. Before removing the removable face plate, make sure the power is off.
2. This removable face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate while driving your car.
4. Do not place the removable face plate on the dashboard or nearby areas where the temperature rises to high levels.
5. Do not touch the contacts on the removable face plate or on the main unit because this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them with clean, dry cloth.
7. When the front panel is opened, do not force it down and do not put anything on it because these may result in damage to the unit.

Anti-Theft System continued

Warning Alarm

Caution

This car radio is equipped with an integrated Warning Alarm in order to make robbery more difficult. But it has to be secured that the installation will be properly done so that the Warning Alarm may work in a perfect way. Concerning the installation, the following points have to be observed:

1. The supplied mounting collar has to be firmly fixed with the mounting tabs to the dashboard.
2. The radio has to be put into the mounting collar in that way that it exactly ends with the collar.
3. Please make sure that the technical features (impedance and power) of the speakers are installed correspond to the specifications of this car radio (see technical specifications).

Only when these three points are observed during the installation, the correct function of the "Warning Alarm" will be secured.

If the main unit is not correctly wired and installed, the system may accidentally sound the alarm.

Warning Alarm and Security Indicator



The security indicator blinks when the removable face plate is removed from the unit. Furthermore, the alarm will set off for 1 minute then reset when an attempt is made to remove the unit from the mounting collar.

Activate Warning Alarm and Security Indicator

1. Press and hold SEL for more than 4 seconds when the power is on. "ALRM ON" is displayed, and the security indicator and Warning Alarm are turned on.

(Default : The security indicator is off.)

2. To check whether the unit is set in the ALARM ON mode, make sure that the security indicator blinks when the removable face plate is removed.

Display	Security Indicator	Warning Alarm	Panel Removal Alarm
	Blinks	ON	ON
(Press and hold SEL for more than 4 seconds.)			
	OFF	OFF	OFF

Caution:

1. Warning Alarm system may not operate if the exclusive supplied mounting collar is not used. This mounting collar will set off the alarm when the unit is being removed.
If the main unit is not correctly wired and installed, the system may accidentally sound the alarm.
2. When removing or installing the unit, make sure that it is in the ALARM OFF mode.
3. When the Warning Alarm is activated by mistake, or when you want to remove the unit, the Warning Alarm and the security indicator functions can be canceled by the following procedure.
 - Install the removable face plate.
 - Disconnect the power connector.

Panel Removal Alarm

This alarm sounds to warn you not to forget to remove the panel before leaving your car. This function is activated when the security alarm is on.

Installation

Preparation

- Before installation, check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (–) battery terminal (see caution below).
- Unit should be installed in a horizontal position with the front end up at a convenient angle, but not more than 30°.

Caution:

For installation to cars with trip or navigational computers, all electronic memory settings previously registered in the computer will be lost when the battery terminal is disconnected. For this type of car, battery could not be disconnected. Therefore, extra care should be taken to prevent short circuiting.

In-dash Installation

Installation Opening

In-dash installation can be done if the car's dashboard has an opening for this unit as shown in Fig. 1.

1. The car's dashboard should have a thickness of 4.5mm - 6mm in order to make the installation of the unit.

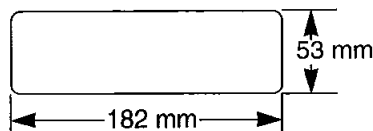


Fig. 1

Installation Precautions

This equipment, if possible, should be installed by a professional installer.

In case of difficulty, please consult your nearest authorized Panasonic Service Center.

1. This system is to be used only in a 12-volt, DC battery system (car) with negative ground.
2. Follow the electrical connection on page 40 carefully. Failure to do so may result in damage to the unit.
3. Connect the power lead after other connections are made.
4. Be sure to connect the YELLOW lead to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

Supplied Hardware

No.	Item	Diagram	Q'ty
①	Mounting Collar		1
②	Mounting Bolt (5 mmø)		1
③	Power Connector		1
④	Removable Face Plate Case		1

No.	Item	Diagram	Q'ty
⑤	Remote Control Unit (Only for CQ-FX66LEN)		1
⑥	Trim Plate		1
⑦	Lithium Battery (Only for CQ-FX66LEN)		1
⑧	ISO Antenna Adaptor		1

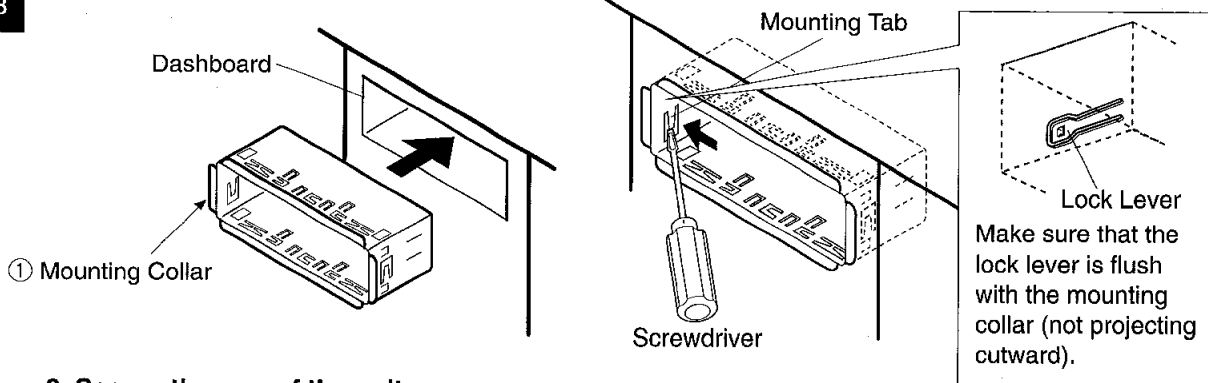
Installation continued

Installation Procedures

Note: Disconnect the cable from the negative (-) battery terminal.

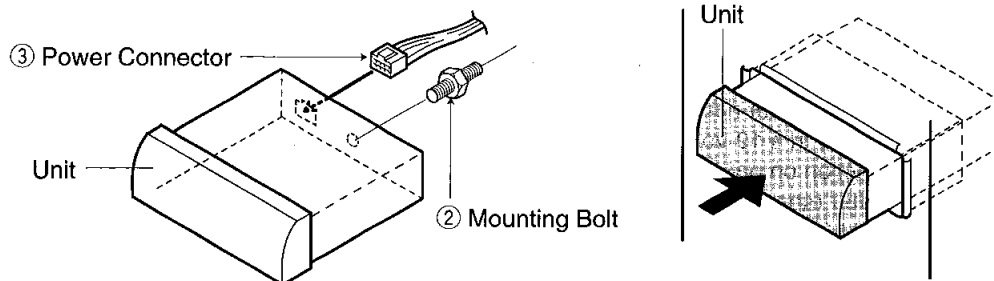
1. Secure the Mounting Collar ①.

Insert Mounting Collar ① into the car's dashboard, and bend mounting tabs out with a screwdriver.



2. Secure the rear of the unit.

- a) Check the electrical connection by referring to this operating instructions.
- b) Connect the Mounting Bolt ② using a suitable wrench.
- c) Incernt the Power Connector ③ to the unit.



- d) Insert the unit into Mounting Collar ① and push it in until "click" is heard.
- e) Secure the rear of the unit to the car by either of the two recommended methods.

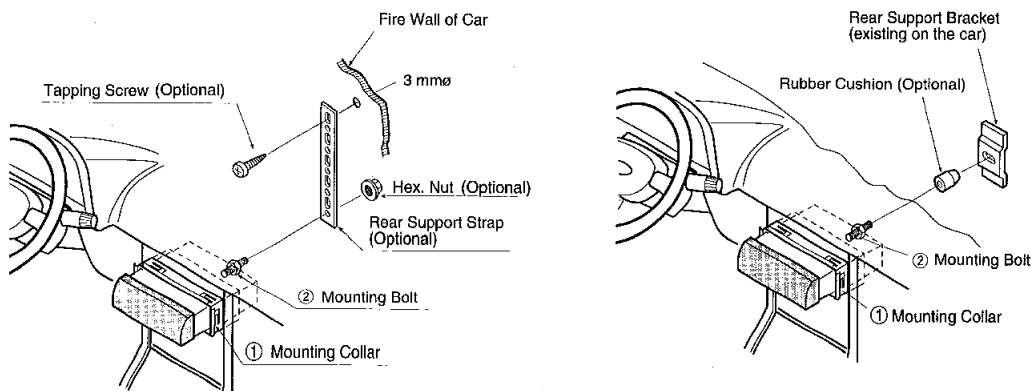
■ Using the Rear Support Strap (Optional)

Affix one end of the Rear Support Strap to the rear of the unit, and the other end to the Fire Wall of car, or some other metallic area.

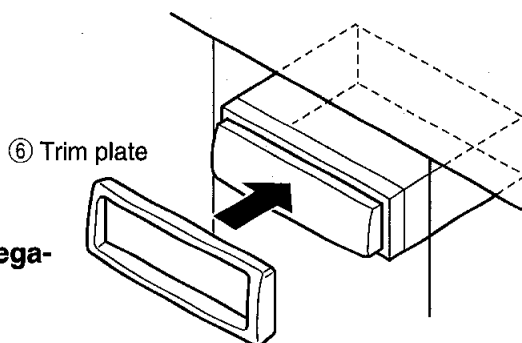
■ Using the Rubber Cushion (Optional)

(If there is an existing Rear Support Bracket on the Fire Wall of car.)

Cover Mounting Bolt ② on the rear of the unit with Rubber Cushion, and mount it into the existing Rear Support Bracket.



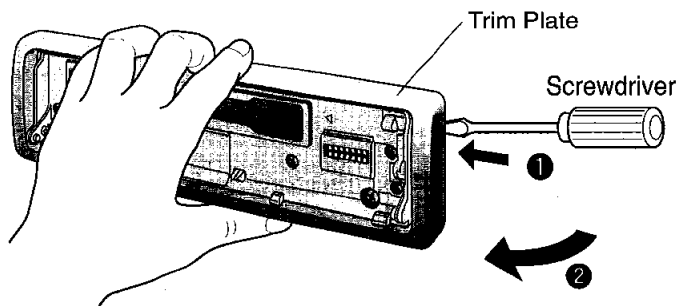
3. Insert the Trim plate ⑥.



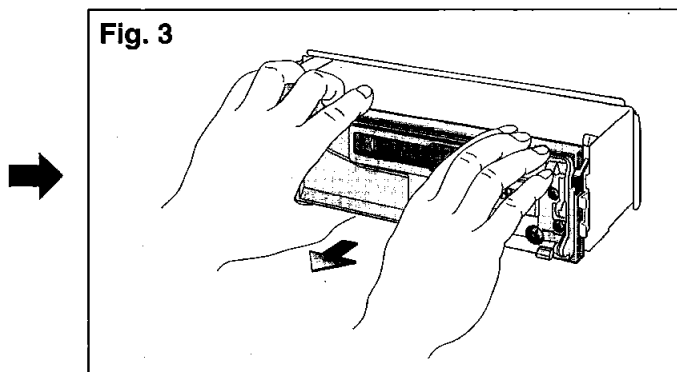
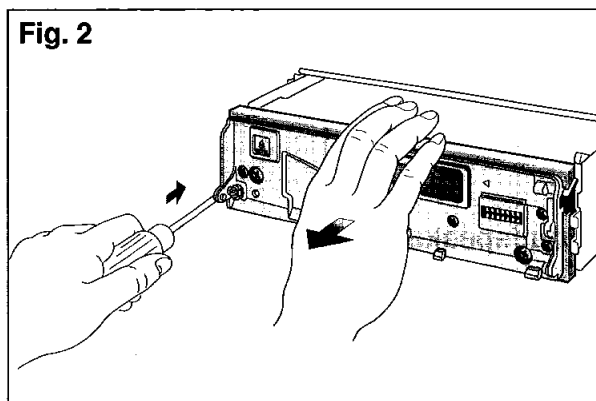
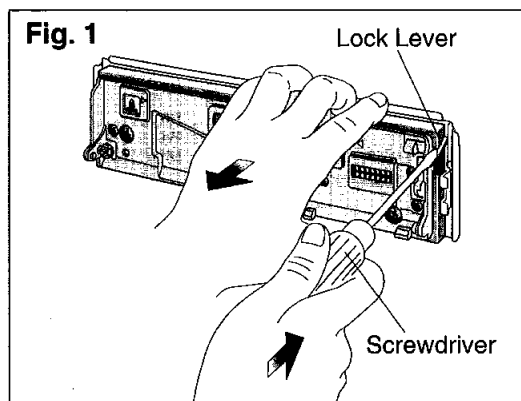
4. After installation reconnect the negative (-) battery terminal.

To Remove the Unit

- a) Remove the removable face plate. (See page 34.)
- b) Remove the trim plate with a screwdriver as shown in the figure.



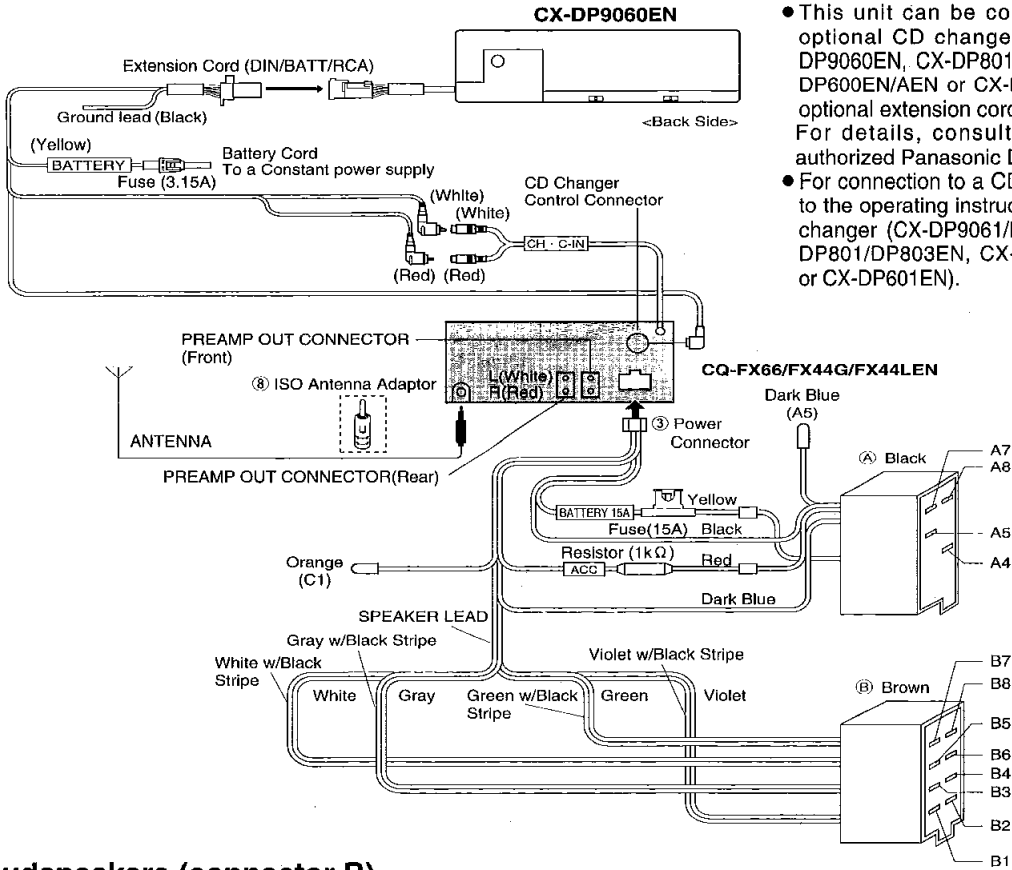
- c) Pull out the unit while pushing the lock lever using screwdriver. (Fig. 1, Fig. 2)
- d) Remove the unit pulling with both hands. (Fig. 3)



Electrical Connection

Caution:

- Confirm the note on page 4, and make connections to the connectors on car side.
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 5 mm long from their end before connecting. (the cords except for ISO connector's cords)
- Do not insert the power connector into the unit until the wiring is completed.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



- This unit can be connected to an optional CD changer (CX-DP9061/DP9060EN, CX-DP801/DP803EN, CX-DP600EN/AEN or CX-DP601EN) and optional extension cord. For details, consult your nearest authorized Panasonic Dealer.
- For connection to a CD changer, refer to the operating instructions of the CD changer (CX-DP9061/DP9060EN, CX-DP801/DP803EN, CX-DP600EN/AEN or CX-DP601EN).

Loudspeakers (connector B)

	Left +	Left -	Right +	Right -
Front	B5 (White)	B6 (White w/Black Stripe)	B3 (Gray)	B4 (Gray w/Black Stripe)
Rear	B7 (Green)	B8 (Green w/Black Stripe)	B1 (Violet)	B2 (Violet w/Black Stripe)

A4
BATTERY LEAD (To Battery of Car) (Yellow)
 Connect to the "BAT" terminal on the fuse block of the car. The power should be supplied continuously to the yellow leads regardless of the on/off position of the ignition key.

A8
GROUND LEAD (Black)
 Connect to a well grounded metallic part of your car.

A5
MOTOR ANTENNA RELAY CONTROL LEAD (Dark Blue)
 (To Motor Antenna) (Max. 500mA)
 This lead is not intended for use with switch actuated power antenna.
AMP-RELAY CONTROL POWER LEAD
 This lead is for connection to Panasonic power amplifier.

C1
TELEPHONE MUTE LEAD (Orange)
 (To car telephone mute line)
TELEPHONE MUTE
 The telephone mute lead, if connected to the car telephone mute line, will activate the muting circuit and the sound from the speakers cannot be heard while the telephone conversation is in progress.
Note: This telephone mute lead is for connection only to the radio mute line. Be sure to ascertain this because it will not work with other type of output system.

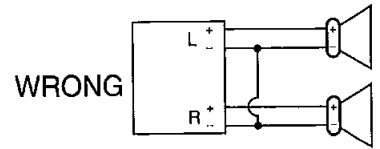
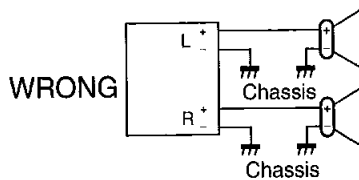
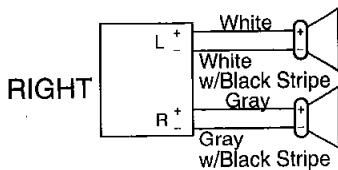
A7
POWER LEAD (Red)
 Connect to the "radio" power line of the car or to the "IGN" or "ACC" terminal of the fuse block.

Speaker Connections

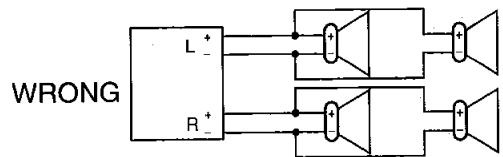
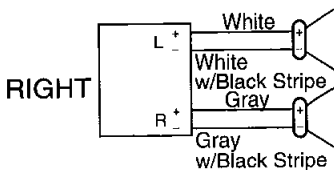
Caution:

1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 40W of audio power. If an optional amplifier is used, the speakers should be able to handle the maximum output power of the amplifier. Use of speakers with small input ratings can cause damage to the speakers.
3. The speaker impedance should be 4 - 8 ohms. If the impedance is too large or too small, it affects the output and may cause damage to the speakers or this unit.
4. Do not use 3-wire type speaker system having a common earth lead. Never connect the speaker cord to the body of the car. This unit uses the BTCL circuit, so each speaker should be connected separately using parallel vinyl insulated cords.
5. The speaker cords and the power amplifier unit should be kept away (about 30cm apart) from the antenna and antenna extension cord.
6. Follow the connection diagram below carefully. Failure to do so may cause damage to both unit and speakers.

- Unit will be damaged if speakers (Front, Rear) are not connected properly.



- Do not connect more than one speaker to one set of speaker leads.



Fuse

Be sure to use a fuse of the specified rating (15A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire hazard or damage to the unit. If the replacement fuse fails, consult your nearest authorized Panasonic Service Center.

Maintenance

To clean the exterior of this unit, use a soft cloth to wipe the surface. Do not use benzene, thinner or any other type of solvents.

Specifications

General

Power Supply	: DC 12V (11V - 16V), Test Voltage 14.4V, Negative Ground
Tone Controls	: Bass; \pm 12dB at 100Hz Treble; \pm 12dB at 10kHz
Current Consumption	: Less than 2.5A (Tape mode, 0.5W 4-Speaker)
Maximum Power Output	: 40W x 4 (at 4 Ω)
Power Output	: 20W x 4 (DIN45 324, at 4 Ω)
Speaker Impedance	: 4 - 8 Ω
Dimensions (Main unit)	: 178(W) x 50(H) x 150(D) mm
Weight (Main unit)	: 1.5 kg

FM Stereo Radio

Frequency Range	: 87.5 - 108MHz
Usable Sensitivity	: 6dB/ μ V (S/N 30dB)
Stereo Separation	: 35 dB(at 1kHz)

MW Radio

Frequency Range	: 531 - 1,602kHz
Usable Sensitivity	: 28dB/ μ V (S/N 20dB)

LW Radio


Frequency Range	: 153 - 279kHz
Usable Sensitivity	: 32dB/ μ V (S/N 20dB)

Cassette Player

Reproduction System	: 4-track, 2-program stereo
Tape Speed	: 4.76cm/sec.
FF/REW Time	: Less than 110 sec. (C-60)
Frequency Response	: 30 - 17,000Hz (Normal) 30 - 18,000Hz (Metal)
Wow and Flutter	: 0.12% (WRMS)
Signal to Noise Ratio	: 52dB (Dolby B NR on; 62dB)

Note:

Specifications and the design are subject to possible modification without notice due to improvements.

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