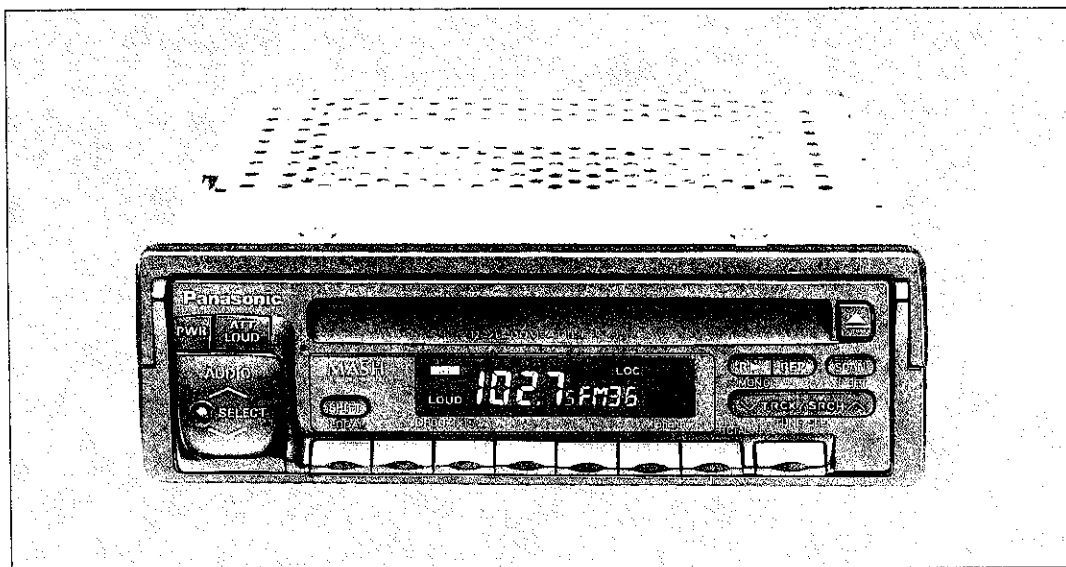


Operating Instructions Bedienungsanleitung Manuel d'instructions Gebruiksaanwijzingen Bruksanvisning Manuale di istruzioni Manual de Instrucciones

CD Player/Receiver
CD-Spieler/Receiver
Lecteur CD/Récepteur
CD-speler/ontvanger
CD-spelare/Receiver
Lettore CD/sintoamplificatore
Reproductor de CD/receptor

CQ-DP30EN



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 deze eenheid 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.

Contents

	Page
Precautions	3
Common Operating Procedures	7
Radio Play Operations	9
CD Play Operation	11
Conditions of Display	12
Error Display	12
Anti-Theft System	13
Installation	14

	Page
Laser Products	15
Speaker Connections	16
Fuse	16
Maintenance	16
Electrical Connection	17
Notes on Compact Disc	19
Caution for use of a new Disc	19
Specifications	20

Inhaltsverzeichnis

	Seite
Vorsichtsmaßnahmen	3
Grundlegende Gerätebedienung	21
Rundfunkempfang	23
Bedienung des Compact-Disc-Spielers	25
Display-Anzeigen	26
Fehlermeldungen	26
Diebstahlschutz	27
Einbau	28

	Seite
Laser-Erzeugnisse	29
Anschluß der Lautsprecher	30
Sicherung	30
Pflege	30
Elektrischer Anschluß	31
Hinweise über Compact-Discs	33
Vorsichtsmaßnahmen bei neuen Compact-Discs	33
Technische Daten	34

Sommaire

	Page
Précautions	4
Procédures de fonctionnement ordinaires	35
Fonctionnement de la radio	37
Fonctionnement du lecteur CD	39
Conditions de L'affichage	40
Affichage D'erreur	40
Système anti-vol	41
Installation	42

	Page
Caractéristiques du dispositif laser	43
Connexion des haut-parleurs	44
Fusible	44
Entretien	44
Connexions électriques	45
Remarques sur les disques compacts	47
Précautions pour l'utilisation d'un disque neuf	47
Spécifications	48

Inhoudsopgave

	Bladzijde
Voorzorgsmaatregelen	4
Algemene instructies voor gebruik	49
Bediening van de tuner	51
Weergave van een CD	53
Display-Aanduidingen	54
Display-Aanduidingen in geval van storing	54
Anti-diefstalslede	55
Inbouwen	56

	Bladzijde
Laserprodukten	57
Aansluiten van de luidsprekers	58
Zekering	58
Onderhoud	58
Bedradingsschema	59
Opmerkingen aangaande kompakt disks (CD's)	61
Bij gebruik van een nieuwe disk	61
Technische gegevens	62

Innehåll

	Sida
Observera	5
Handhavande	63
Radiomottagning	65
CD-spelning	67
Angivningar i Teckenfönstret	68
Felangivningar	68
Stöldskyddsanordning	69
Montering	70

	Sida
Om Laserprodukter	71
Anslutning av högtalare	72
Säkring	72
Underhåll	72
Elektriska anslutningar	73
Angående kompaktskivor	75
Observera vid spelning med ny skiva	75
Tekniska data	76

Contenuto

	Pag.
Precauzioni	5
Comuni procedure di funzionamento	77
Ascolto di trasmissioni radio	79
Riproduzione di CD	81
Display Condizioni	82
Display Errori	82
Sistema antifurto	83
Installazione	84

	Pag.
Prodotti laser	85
Collegamento diffusori	86
Fusibile	86
Manutenzione	86
Collegamenti elettrici	87
Note sui CD	89
Quando usate un CD nuovo	89
Dati tecnici	90

Indice

	Pag.
Precauciones	6
Procedimientos comunes de operación	91
Operaciones de reproducción de la radio	93
Operación del reproductor de CD	95
Indicaciones Especiales	96
Indicaciones de Error	96
Sistema antirrobo	97
Instalación	98

	Pag.
Productos laser	99
Conexiones del altavoz	100
Fusible	100
Mantenimiento	100
Conexiones eléctricas	101
Notas sobre los discos compactos	103
Precaución para el uso de un disco nuevo	103
Especificaciones	104

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.

Disc Mechanism

Do not insert coins or any small objects. Keep screwdrivers and other metallic objects away from the disc mechanism and disc.

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.

Panasonic begrüßt Sie in der ständig wachsenden Familie der Besitzer von **Panasonic** Elektronik-Geräten. Alle von **Panasonic** hergestellten Produkte entsprechen dem neuesten Stand der Elektronik und Mechanik und werden aus ausgewählten Präzisionsteilen von Leuten montiert, die mit Recht stolz auf den guten Ruf sind, den ihre Arbeit unserer Firma eingebracht hat. Wir sind davon überzeugt, daß Ihnen dieses Gerät viele vergnügliche Stunden bereiten wird. Besonders wenn Sie die Qualität und Zuverlässigkeit dieses Gerätes erkannt haben, werden Sie ebenfalls stolz darauf sein, unserer Familie anzugehören.

Vorsichtsmaßnahmen

Lautstärkepegel

Aus Gründen der Fahrsicherheit ist der Lautstärkepegel so einzustellen, daß auch andere Verkehrsgerausche (Hupen usw.) vernommen werden können.

Autowäsche

Dieses Gerät (einschließlich Lautsprecher und Tonbänder) vor Wasser und übermäßiger Feuchtigkeit schützen, um elektrische Kurzschlüsse zu vermeiden, da dieses zu Feuer oder Beschädigungen führen könnte.

Belüftung

Falls Ihr Wagen für längere Zeit in direktem Sonnenlicht geparkt ist, könnte sich das Innere sehr stark erwärmen. In einem solchen Fall sollte das Fahrzeug mit geöffneten Fenstern für einige Zeit gefahren werden, damit sich das Wageninnere abkühlen kann. Erst danach das Gerät einschalten.

Stromversorgung

Dieses Gerät darf nur in Fahrzeuge mit 12-V Batterie und negativer Batterieklemme an Masse eingebaut werden.

Disc-Laufwerk

Keine Münzen oder kleine Gegenstände in das Gerät einstecken. Schraubenzieher und andere metallische Gegenstände vom Disc-Laufwerk und den Discs fernhalten.

Kundendienst

Dieses Gerät ist aus Präzisionsteilen zusammengestellt. Niemals selbst das Geräterlegen bzw. einzelne Teile einstellen. Für Reparaturen wenden Sie sich bitte an den Panasonic Kundendienst.

Panasonic vous souhaite la bienvenue parmi la famille toujours croissante des possesseurs de nos appareils électroniques. Nous avons fait de notre mieux pour vous apporter les avantages de la précision mécanique et électronique de pointe, étant donné que l'appareil a été composé avec des pièces soigneusement choisies et montées par des gens qui sont fiers de la renommée de leur Société que leur travail consciencieux lui a valu. Nous sommes sûrs que cet appareil vous permettra de profiter de nombreuses heures d'écoute, et après avoir découvert la qualité intrinsèque et la fiabilité de l'appareil, vous serez vous aussi fier d'appartenir à la famille **Panasonic**.

Précautions

Niveau du volume

Par mesure de sécurité routière, maintenez le niveau de volume assez bas pour pouvoir entendre les bruits de la rue.

Nettoyage de la voiture

Pour éviter les court-circuits électriques qui peuvent provoquer un incendie ou autre dommage, n'exposez pas l'appareil (y compris les haut-parleurs, les cassettes et les disques compacts) à l'eau ou à une humidité excessive.

Ventilation de la voiture

Si votre véhicule est stationné pendant plusieurs heures au soleil, la température intérieure peut être très élevée. Pour revenir au mode de température normal, il est recommandé de conduire un certain temps avant de mettre l'appareil sous tension.

Alimentation

Cet équipement est conçu pour fonctionner avec du 12 V cc, masse négative.

Mécanisme d'entraînement du disque

Ne pas introduire de pièce de monnaie ou tout autre petit objet. Eloigner les aimants, tournevis et autres objets métalliques du mécanisme d'entraînement et du disque.

Entretien

Cet appareil est conçu à partir d'éléments précis. N'essayez pas de démonter ces éléments. Pour l'entretien, adressez-vous à votre service d'entretien Panasonic le plus proche.

Panasonic heet u van harte welkom bij de nog steeds groeiende familie van eigenaars van onze elektronische producten. **Panasonic** streeft ernaar om u de voordelen van nauwkeurige elektronische en mechanische technologie te bieden, door gebruik te maken van zorgvuldig geselecteerde componenten. Hiernaast werd dit produkt gefabriceerd door technici die trots zijn op de reputatie die hun werk voor onze firma opgebouwd heeft. Wij hopen dat dit produkt voor vele uren luistergenot zorgt en nadat u de kwaliteit, waarde en betrouwbaarheid, die wij erin gebouwd hebben, ontdekt heeft, ook u trots zult zijn om tot onze familie te behoren.

Voorzorgsmaatregelen

Volume-niveau

Houdt, voor de verkeersveiligheid, het volume laag genoeg om bewust van weg- en verkeerscondities te kunnen zijn.

Wassen van de auto

Stel deze apparatuur (inclusief de luidsprekers en de tapes) niet bloot aan water of overmatig vocht om kortsluiting, hetgeen brand kan veroorzaken, te voorkomen.

Auto-ventilatie

De temperatuur in de auto stijgt wanneer de auto verschillende uren in direct zonlicht geparkeerd wordt. Het is ter aanbeveling om het interieur van de auto af te laten koelen alvorens de eenheid in te schakelen.

Netspanning

Dit apparaat is ontworpen voor gebruik met een 12 volts gelijkstroom accusysteem (auto-accu) met negatieve aarding.

Disk-mechanisme

Houd magneten, schroevendraaiers en andere metalen voorwerpen uit de buurt van het disk mechanisme en de disk.

Service

Deze eenheid is gemaakt van precisie onderdelen. Voer reparaties of bijstellingen niet zelf uit. Raadpleeg voor service het dichtstbijzijnde Panasonic Service Centrum.

Välkommen till den ständigt växande gruppen av ägare till **Panasonic** elektroniska produkter. Varje produkt tillverkas av noggrant utvalda komponenter och sammansätts av välutbildad personal under sträng kvalitetskontroll.

Läs bruksanvisningen noga och lär apparaten väl innan den används.

Observera

Volym

Anpassa ljudvolymen så att säker bilkörning ej hindras.

Biltvättning

Se till att apparaten och högtalarna ej utsätts för vatten eller fukt. Det kan förorsaka kortslutning och brand.

Ventilation inom bilen

Är det mycket varmt i bilen, kör den då en stund för att sänka temperaturen innan apparaten kopplas på.

Strömförsörjning

Apparaten får enbart anslutas till ett fordon vars elektriska system är 12V likspänning och negativ jordning.

Skyvmekanism

Stoppa inte in mynt eller andra småföremål. Håll, skruvmejslar och andra metallföremål borta från skyvmekanismen och skivor.

Service

Apparaten är tillverkad av precisionsdelar. Tag aldrig isär eller justera någonting själv. För reparation, lämna apparaten till en Panasonic-återförsäljare.

Panasonic Vi då il benvenuto nella famiglia in costante aumento dei proprietari dei suoi prodotti elettronici. Noi cerchiamo sempre di offrirvi i vantaggi di una tecnica elettronica e di una meccanica perfetta nei nostri prodotti fabbricati con componenti altamente selezionati e lavorati da persone che godono di piena fiducia presso la nostra compagnia. Noi siamo sicuri che questo prodotto Vi offrirà molte ore piacevoli e che dopo averne scoperto la qualità, il valore e l'affidabilità, anche Voi sarete orgogliosi di essere un membro della nostra famiglia.

Precauzioni

Livello del volume

Per la vostra sicurezza quando portate l'automobile, tenete il volume su un livello abbastanza basso per poter sentire il suoni di avvertimento del traffico.

Lavaggio dell'automobile

Per evitare dei cortocircuiti elettrici, che potrebbero causare incendi o altri danni, non esponete quest'unità (inclusi gli altoparlanti, i nastri e i Compact Disc) all'acqua o ad eccessive quantità di umidità.

Ventilazione dell'automobile

Nel caso in cui lasciate l'automobile parcheggiata per parecchie ore nella luce diretta del sole, la temperatura all'interno dell'automobile può diventare molto alta. Per far ritornare la temperatura interna ad un livello normale, è consigliabile guidare l'automobile un po' di tempo prima di accendere l'unità.

Alimentazione

Quest'unità è stata disegnata per essere alimentata con 12 V CC, massa negativa.

Meccanismo dei dischi

Non inserire delle monete o altri oggetti piccoli. Allontanare i cacciaviti ed altri oggetti metallici dal meccanismo dei dischi e dai dischi.

Servizio

Quest'unità è stata costruita con parti di precisione. Non cercate di smontare o aggiustare queste parti. Per il lavori di servizio, consultate il più vicino centro assistenza della Panasonic.

Panasonic le da la bienvenida a la familia constantemente en aumento de poseedores de productos electrónicos. Nos esforzamos en proporcionarle las ventajas de la ingeniería mecánica y electrónica de precisión, de una fabricación con componentes cuidadosamente seleccionados, y de un montaje realizado por personas orgullosas de la reputación que su trabajo ha cimentado para nuestra empresa. Estamos seguros de que este producto le proporcionará muchas horas de distracción y, una vez comprobada la calidad, el valor y la fiabilidad incorporados, usted también se sentirá orgulloso de pertenecer a nuestra familia.

Precauciones

Nivel de volumen

Para su seguridad en la conducción, mantenga el nivel de volumen suficientemente bajo para estar atento a la carretera y las condiciones del tráfico.

Lavado del automóvil

Procure no exponer este equipo (incluidos los altavoces y la cinta) al agua o a excesiva humedad, a fin de evitar cortocircuitos que podrían causar un incendio u otros daños.

Ventilación del automóvil

Si su coche está estacionado durante varias horas a plena luz del sol, la temperatura interior del mismo puede aumentar considerablemente. Por ello, es recomendable poner el vehículo en marcha y dejar que se enfríe el interior antes de utilizar el aparato.

Alimentación

Este equipo ha sido diseñado para su uso en automóviles con una tensión de 12 V mediante sistema de batería con negativo a tierra.

Mecanismo de disco

No inserte monedas ni otros objetos pequeños. Evite acercar imanes, destornilladores u otros metálicos al mecanismo de disco y al disco mismo.

Servicio

Este aparato ha sido fabricado con piezas de alta precisión. No intente desmontarlo ni ajustar ninguna pieza. Para la reparación, consulte al Servicio Técnico de Panasonic más próximo.

WARNING !

Lithium batteries. Explosion danger.
Change of batteries must only be done by qualified personnel and as described in the service manual.
Furthermore, that the batteries must only be changed with batteries of the same manufacture and type.

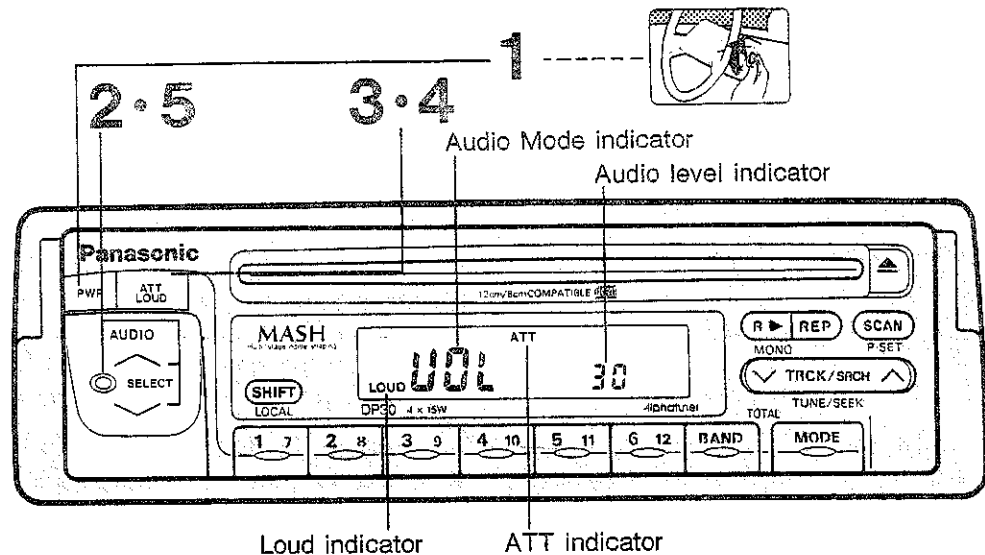
ADVARSEL !

Lithiumbatterier. Eksplosionsfare.
Udskiftning må kun foretages af en sagkyndig og som beskrevet i servicemanualen.
Batterierne kun må udskiftes med batterier af samme fabrikat og type.

Waarschuwing !

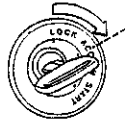
Lithium batterij. explosie gevaar.
Vervanging van de batterijen mag alleen plaatsvinden door gekwalificeerd personeel en volgens de omschrijving in de service manual.
De batterijen mogen alleen vervangen worden door batterijen van hetzelfde fabrikaat en type.

Common Operating Procedures



1 First time use:

Turn the ignition key to ON (ACC) and press the power switch.



2 To Adjust the volume:

Press "▲" audio control to increase the volume level.
Press "▼" audio control to decrease the volume level.
"LOUD" and level indicator ("0"- "30") will be illuminated.

3 To turn down the volume instantly:

- Press the ATT button. Volume will decrease to about 1/10 of its previous level. "ATT" indicator will blink.
- To return to the previous volume level, press this button again.

4 To emphasize bass/treble at low/medium volume levels:

- Press the LOUD button for at least 2 seconds to switch on the loud feature. The bass and treble characteristics will be emphasized when listening at low or medium volume levels. ("LOUD" indicator will be illuminated.)
- Press the LOUD button again for at least 2 seconds to turn off the loud function.

5 To change the audio mode:

Each time this button is pressed, the audio mode will change in the following sequence;

VOLUME → BASS → TREBLE
↑ FADER ← BALANCE ↓

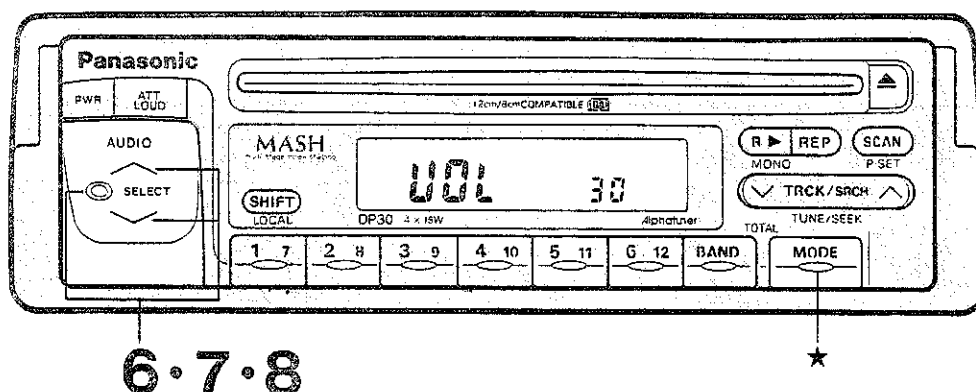
Sensor Tone On/Off Switch

The sensor tone can be switched on and off. The sensor tone can be heard confirming that a control button has been pressed.

To activate the sensor tone;

Press the SELECT button for more than 2 seconds. The display panel will show "DEEP" and changes to "on" or "off".

After that the display panel will return to the normal (previous-mode) display.



6 To adjust the bass and treble:

- ① Press the SELECT button until the BASS (TRE) mode is selected.
"BASS" ("TRE") will be illuminated.
- ② Press the "∧" audio control to increase the bass/treble response.
- ③ Press the "∨" audio control to decrease the bass/treble response.
The bass/treble level indicator ("10" - "-10") will be illuminated.

8 To adjust the front/rear balance:

- ① Press the SELECT button until the FADER mode is selected.
"FADER" will be illuminated.
- ② Press the "∧" audio control to shift the sound volume to the front speakers.
- ③ Press the "∨" audio control to shift the sound volume to the rear speakers.
The fader level indicator ("1" - "15") will be illuminated.

7 To adjust the left/right balance:

- ① Press the SELECT button until the BALANCE mode is selected.
"BAL" will be illuminated.
- ② Press the "∧" audio control to shift the sound volume to the right speakers.
- ③ Press the "∨" audio control to shift the sound volume to the left speakers.
The balance level indicator ("1" - "15") will be illuminated.

★ MODE Button

When this button is pressed, operation mode changes as follows:

Tuner ↔ CD Player

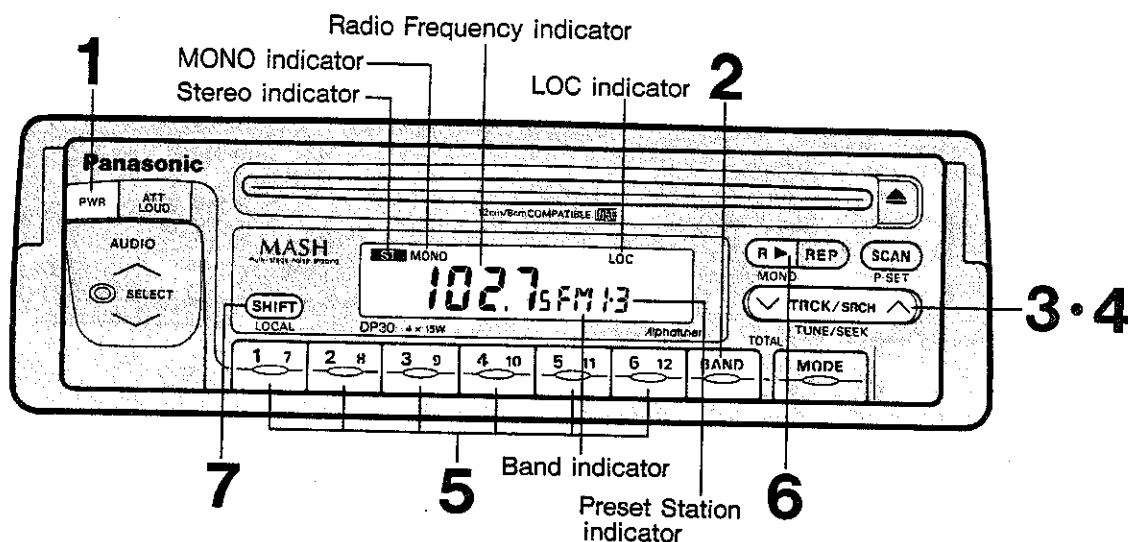
When a control mode is selected but no operation is made within five seconds, the display will return to the normal operation (volume adjustment) mode. In such a case, press the SELECT button again to select the next control mode.

Most-Recent Memory:

- When the power is switched off, the unit will retain all function settings last heard when the unit is turned off and automatically returns to those settings the next time the unit is turned on.

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 volume. This system works like this. When the ATT button was switched off and the next time the unit is turned on again, the volume level will automatically be adjusted to a certain volume degree, and then the volume level will gradually go back to its previous level prior to switching off the unit.

Radio Play Operations



1 To change tuner mode
Press the PWR button on.

2 To select the desired band
Each time this button is pressed the band will change in the following order:
→ FM1 → FM2 → FM3 → AM(LW/MW) →
Initial operation is preset for FM1 band.

3 Manual tuning
By pressing the "▽TUNE/SEEK" or "TUNE/SEEK△" button, you can tune the frequency upward or downward.

4 Seek tuning
Press "▽TUNE/SEEK" or "TUNE/SEEK△" button for more than half a second, seek tuning will operate and stop automatically on the next strong station. Hold this button until you find the desired station.

5 To tune in a preset station
Press the preset buttons to recall the previous preset stations. (See page 10.)

6 To reduce interference during FM stereo broadcasts (MONO Button)
Press the MONO button to switch monaural reception in case much interference is present in an FM stereo signal or to improve the listening quality of weak FM broadcasts.

7 Switch from DX to LOC
Normally, searching stops even at a weak wave station. To stop searching at a strong wave station only, press this button for at least 2 seconds.

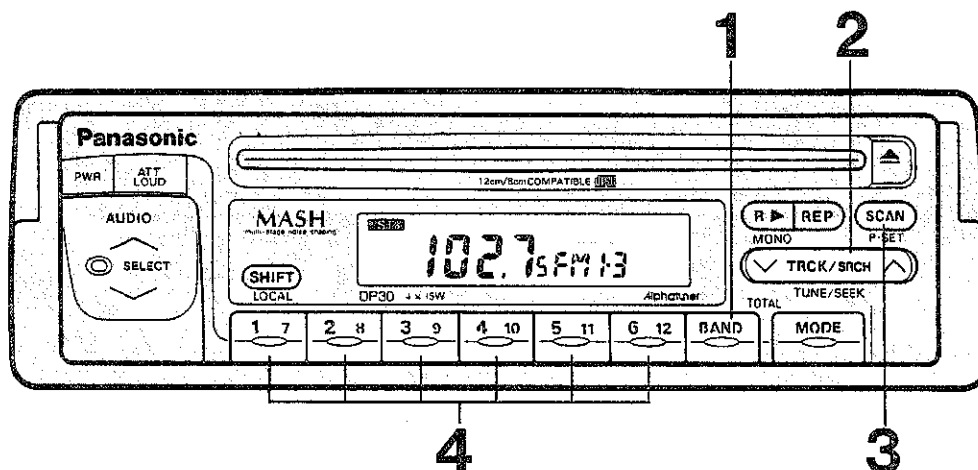
Note: While the disc is inserted, press the mode button to change CD mode.

Radio Play Operations (Cont'd.)

Preset Station Setting

Up to 24 stations can be preset in the station memory as follows;

FM1	FM2	FM3	AM(LW/MW)
6 stations	6 stations	6 stations	6 stations



1 To select the desired band

Press this button to select FM1, FM2, FM3 or AM(LW/MW) mode.

2 To tune in the station you want to listen to.

You can tune in a desired station either by manual tuning or seek tuning.

3 Auto preset – Preset Scan

Auto Preset:

Hold this button for at least 2 seconds. Up to 6 strongest stations along the frequency band will automatically preset into six preset buttons (1 - 6). Scan will immediately follow from preset number 1 as soon as the auto preset is completed. Press the "P-SET" again when reaching the desired station. This can be done on any band.

Preset Scan:

Press this button to scan each preset stations for 5 seconds. When reaching the station, simply press the "P-SET" again to cancel the preset scanning.

Note: FM1, FM2 and FM3 cannot be scanned continuously.

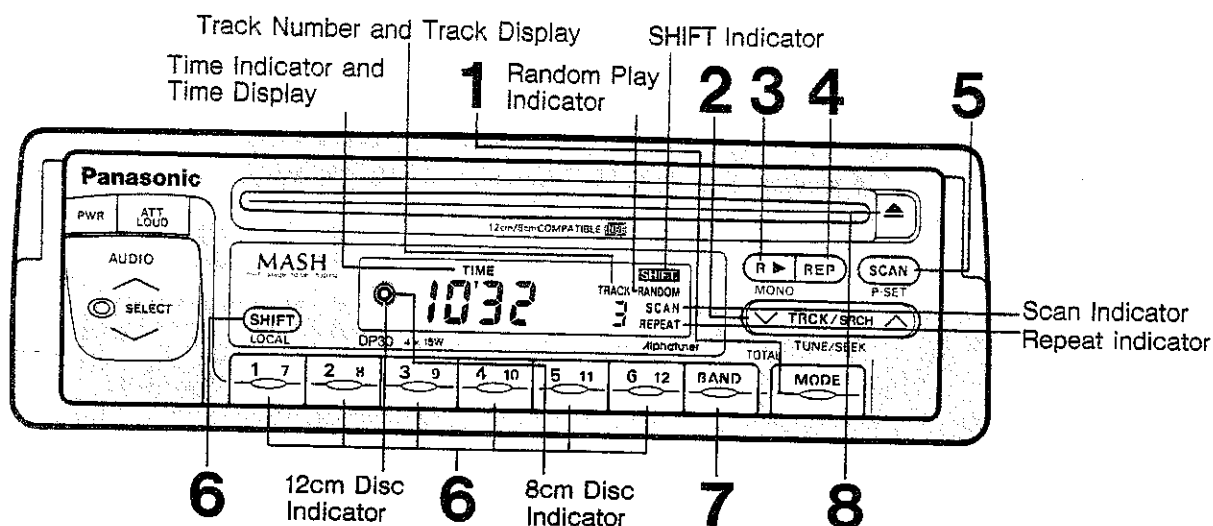
4 To memorize the station in the memory.

Press one of the preset buttons for several seconds. Release when the preset station indicator and radio frequency blink once. The memory has been set.

Preset other stations on other bands in the same manner.

Note: If any of these station selectors is accidentally pressed and held for several seconds, the previously preset station will be erased; instead, a different station will be registered into that memory circuit in which the band is playing.

CD Play Operation



1 To change mode

Insert the disc and playback starts automatically. (While the disc is inserted, press this button to switch the CD Control mode.)

2 To select the track that you want to listen to.

Press "V" or "^" button to select track.
Press "^" button once to play the beginning of the next track.
Press "V" button once to replay from the beginning of the music just listened to.
Press "V" button twice to replay from the beginning of the previous track.
Press "V" or "^" button for at least 2 seconds during CD playback to search (fast backward or fast forward).

3 Random play

Press the "R" button to play the tracks in random orders. "RANDOM" indicator will be illuminated.
Random play is automatically selected by the unit's built-in micro-processor.

4 Repeat play

- Press this button to repeat the track you are now listening to automatically. "REPEAT" indicator will be illuminated.
- To turn off repeat operation, press this button again.

5 SCAN play

- Press this button to set the unit in the scan mode. The beginning of each track on the disc is scanned for about 10 seconds. "SCAN" indicator will be illuminated.
- When you reach the desired track, press this button again to stop scan operation.

6 Direct Access play (1-6,7-12,SHIFT Button)

- To play tracks 1 - 6, press buttons 1 - 6.
- To play tracks 7 - 12, press shift button and buttons 7 - 12. "SHIFT" indicator will be illuminated.

7 Total track number and total disc play time indicator

Press TOTAL button to display the total track number and total disc play time on the display panel.
After those indicators blink for 5 seconds, display will return to the previous display mode automatically.

8 Disc eject

Press ▲ (eject) button to stop CD play and the disc will quietly eject from the CD slot. (During disc ejection, "EJ" will be illuminated and during disc loading "LOAD" will be illuminated.)

Note: Press the mode button during CD playback to change tuner mode.

CD Auto-Loading

When the unit is turned on, with a disc in the slot, the disc will be loaded automatically and disc play will begin.

Conditions of Display

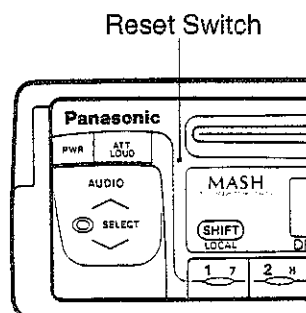
DISPLAY	DESCRIPTION
LOAD	Illuminated during loading of disc into the CD slot.
EJ	Illuminated during disc ejection.

Error Display

DISPLAY	DESCRIPTION
E1	Blinks when the compact disc is dirty or when it is inverted.
E2	Blinks when the compact disc has a scratch on it.
E3	Illuminated when the unit stops to operate for some reason. Press  (eject) button on this unit. If it will not eject and the "E3" reappears, there should be something wrong. Consult immediately your nearest authorized Panasonic Servicenter.

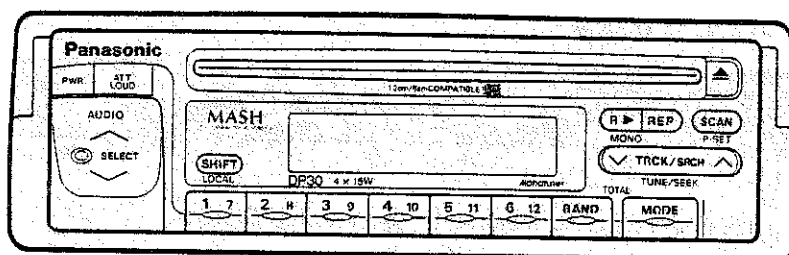
Note: Reset Switch

Use the reset switch if an abnormal noise occurs or when any of buttons will not work normally.



Anti-Theft System

This removable unit gives you a chance to fight the rising tide of car radio theft. Now you can keep thieves from stealing your Panasonic car audio unit by removing it yourself when your car is left unattended.



Handle:

Use the handle to pull out the unit from its bracket and take it with you when you leave the car. **SWITCH OFF THE UNIT BEFORE PULLING THE HANDLE TO REMOVE IT FROM THE CAR.**

How to Remove and Install the Unit

Removal:

1. Switch off the power.
2. Lift the handle. (Fig. 1, ①)
3. Remove the unit from the bracket by pulling the handle firmly. (Fig. 1, ②)

Installation:

Insert and push the main unit fully into its bracket. The unit will be locked in automatically.

A "click" sound can be heard when the safety lock is engaged.

Caution:

1. Before removing the unit, make sure it has been switched off.
2. It is dangerous to operate the unit with the safety lock released. Thus, when operating the unit be sure the handle is in its original down position, and always make sure the unit is fully pushed into the mounting bracket.
3. After operating the unit for several hours, it will become very hot especially on the right side. Please be aware of this and pay careful attention.
4. The unit is not water-proof. Therefore, do not expose it to water nor excessive moisture.
5. Do not abuse the unit by hitting, dropping or swinging the unit while carrying by its handle.
6. For safety reasons, do not remove the unit from its mounting bracket and avoid use of the presetting and programming function while driving your car.

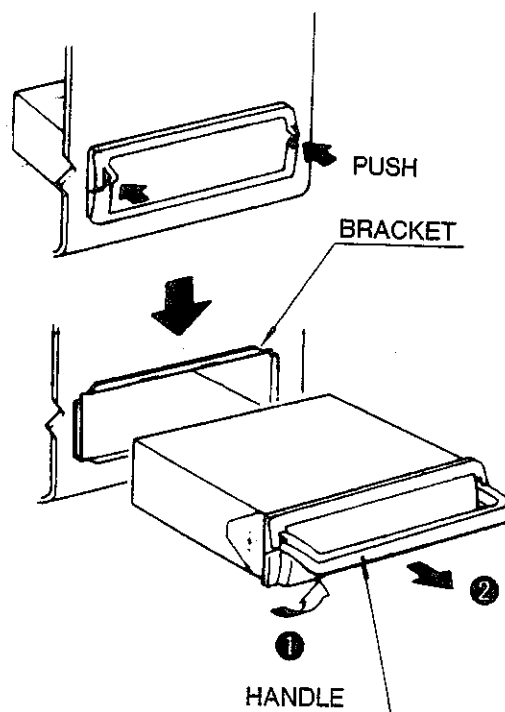


Fig. 1

Installation

Notes:

- Before installation check the radio operation with antenna and speakers.
- Disconnect the cable from the negative (-) battery terminal.

Unit 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. 2. The car's dashboard should have a thickness of 4.5mm - 6mm in order to make the installation of the unit.

To Remove the Unit from the Quick Release Bracket

The unit is inserted and locked in the quick release bracket at the factory. The unit can be released by following the steps below:

1. Switch off the power.
2. Push the safety lock to release the unit from the bracket.
3. Lift the handle. (Fig. 3, ①).
4. Remove the unit from its bracket by pulling the handle firmly. (Fig. 3, ②).

Installation Procedures

1. Insert the quick release bracket into the car's dashboard and bend the mounting springs correspondingly by means of a screwdriver, as shown in Fig. 3.
 2. Before final mounting the quick release bracket to the car's dashboard, read "To Secure the Rear of the Quick Release Bracket" which is explained in the next page and check whether the rear of the unit is properly secured to the fire wall of car.
- Also check the electrical connections by referring to this installation instructions. Mount the quick release bracket to the car's dashboard as shown in Fig. 3.
3. Now insert the unit into the quick release bracket.
 4. After installation reconnect the negative (-) battery terminal.

Installation Parts List

Illust. No.	Description	Q'ty
①	Quick Release Bracket	1
②	Rear Support Strap	1
③	Hex. Bolt (5mmφ x 25mm)	1
④	Hex. Nut (5mmφ)	2
⑤	Spring Washer (5mmφ)	2
⑥	Plain Washer (5mmφ)	2
⑦	Toothed Lock Washer (5mmφ)	1
⑧	Mounting Bolt	1

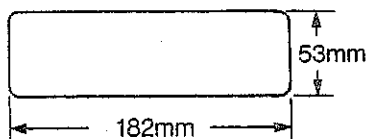


Fig. 2

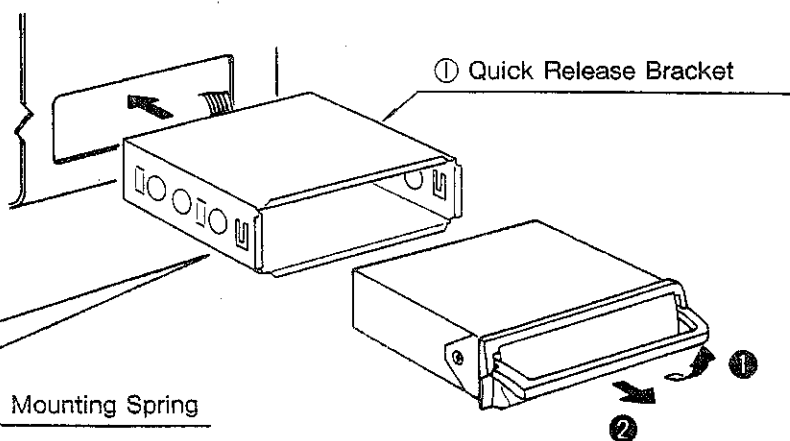
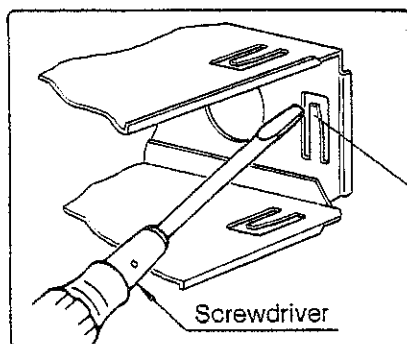


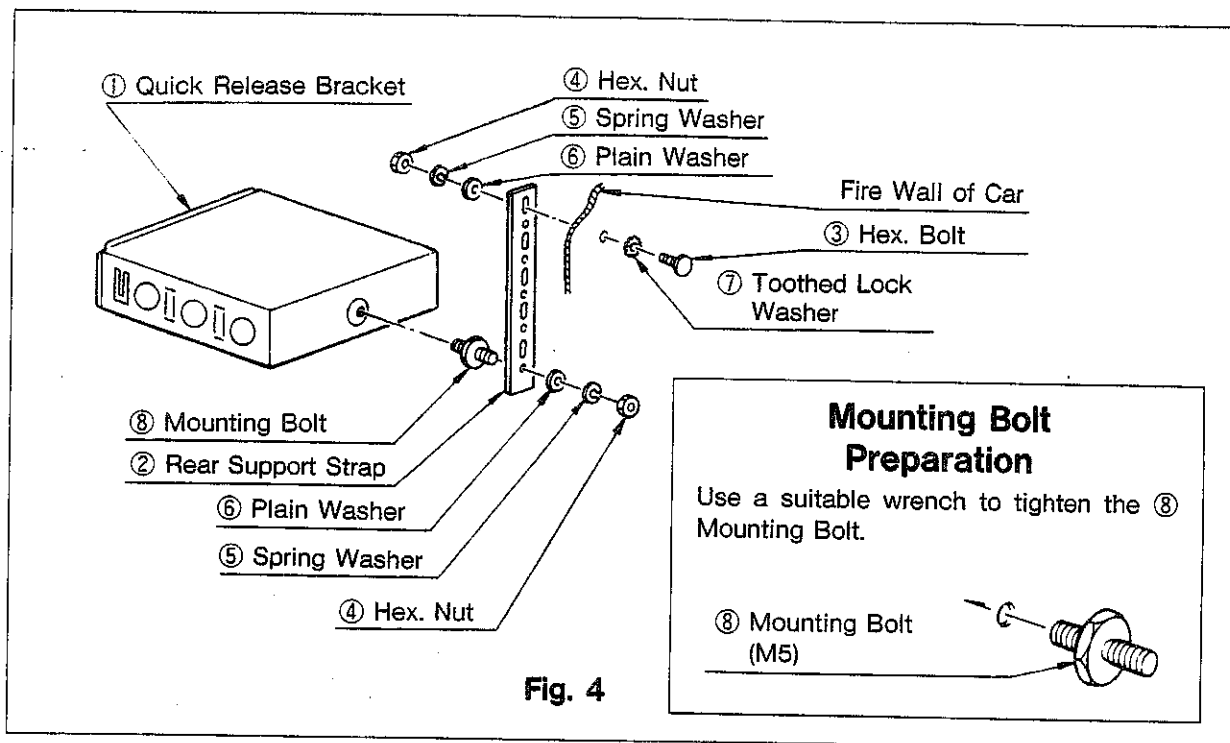
Fig. 3

Installation (Cont'd)

To Secure the Rear of the Quick Release Bracket:

■ Using the Rear Support Strap (See Fig. 4)

Fix one end of the rear support strap to the rear of the quick release bracket, and the other end to the Fire Wall of Car, or some other solid area.



Caution:

- Do not pull the handle and remove the unit when the safety lock is engaged.

Laser Products (See page 105.)

Caution

This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Do not take apart this unit or attempt to make any changes yourself.

This unit is a very intricate device that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet.

Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

Laser products;

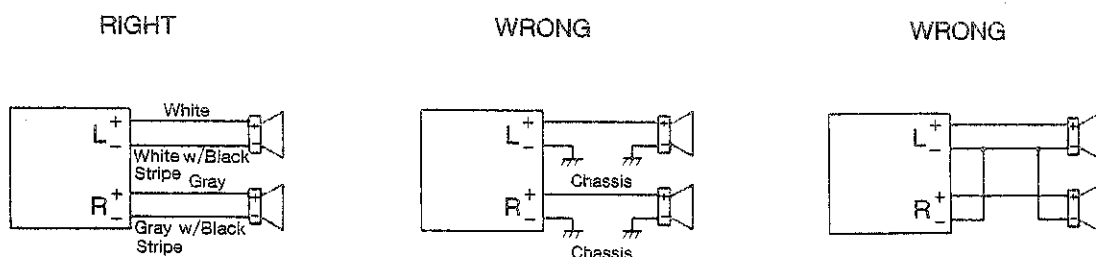
Wave Length	780 nm
Laser Power	No hazardous radiation is emitted with safety protection.

Speaker Connections

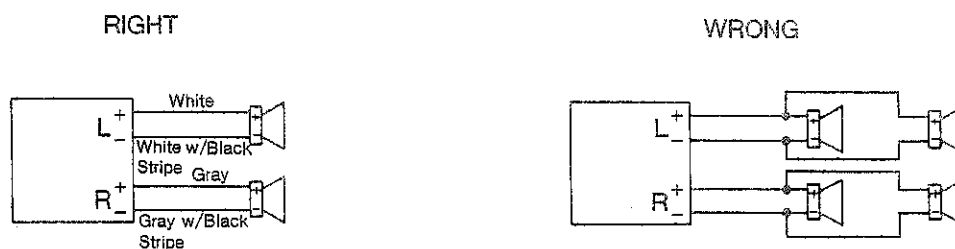
CAUTION:

1. Use ungrounded speakers only.
2. The speakers to be used with this unit should be able to handle more than 15W 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 result in 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 result in 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 result in 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 (3.15A, 10A) when replacing a blown fuse. Fuses with higher capacity ratings, use of any substitute, or connection without a fuse may result in a fire or damage to the unit. If the replacement fuse fails, consult your nearest authorized Panasonic Service Center.

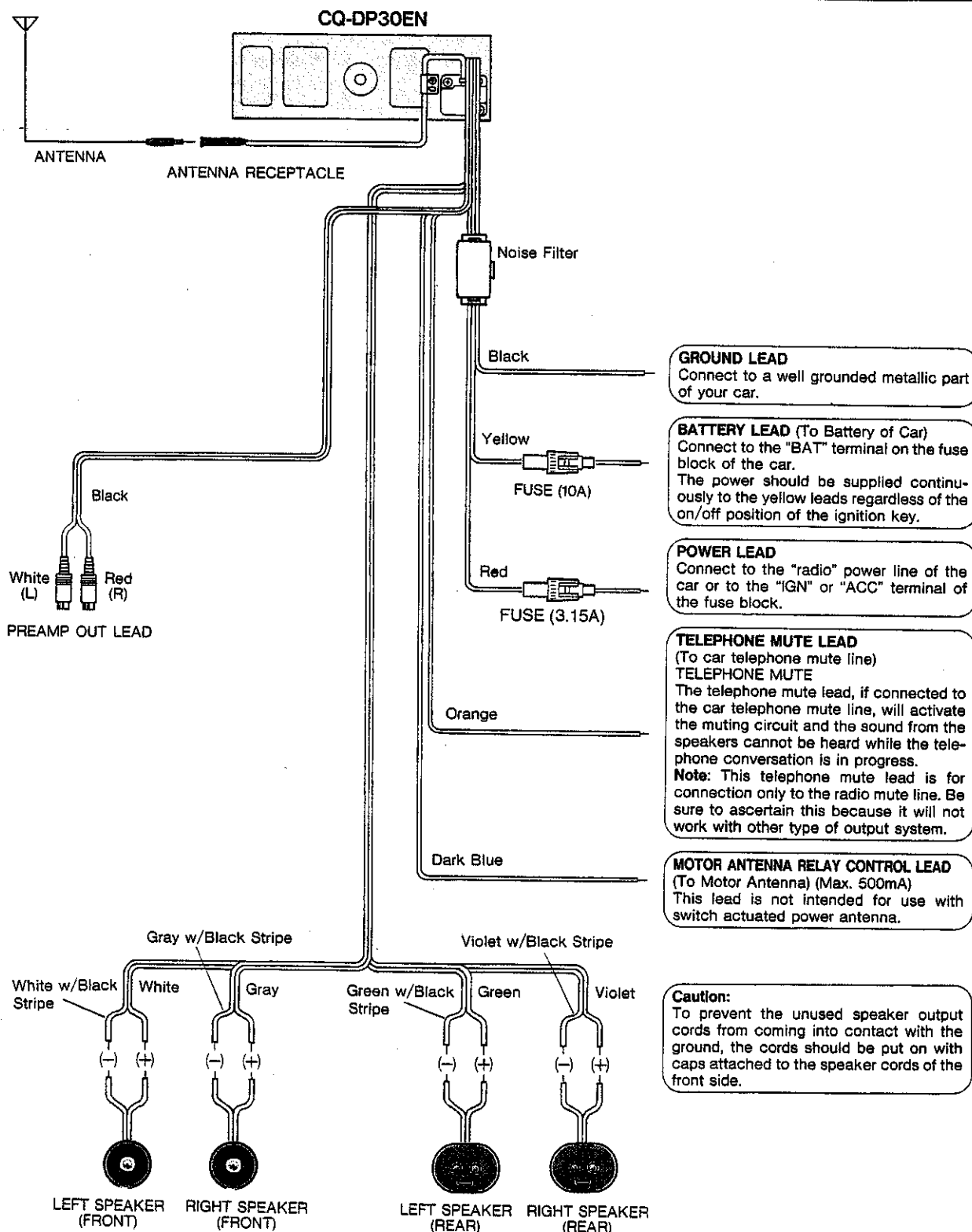
Maintenance

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

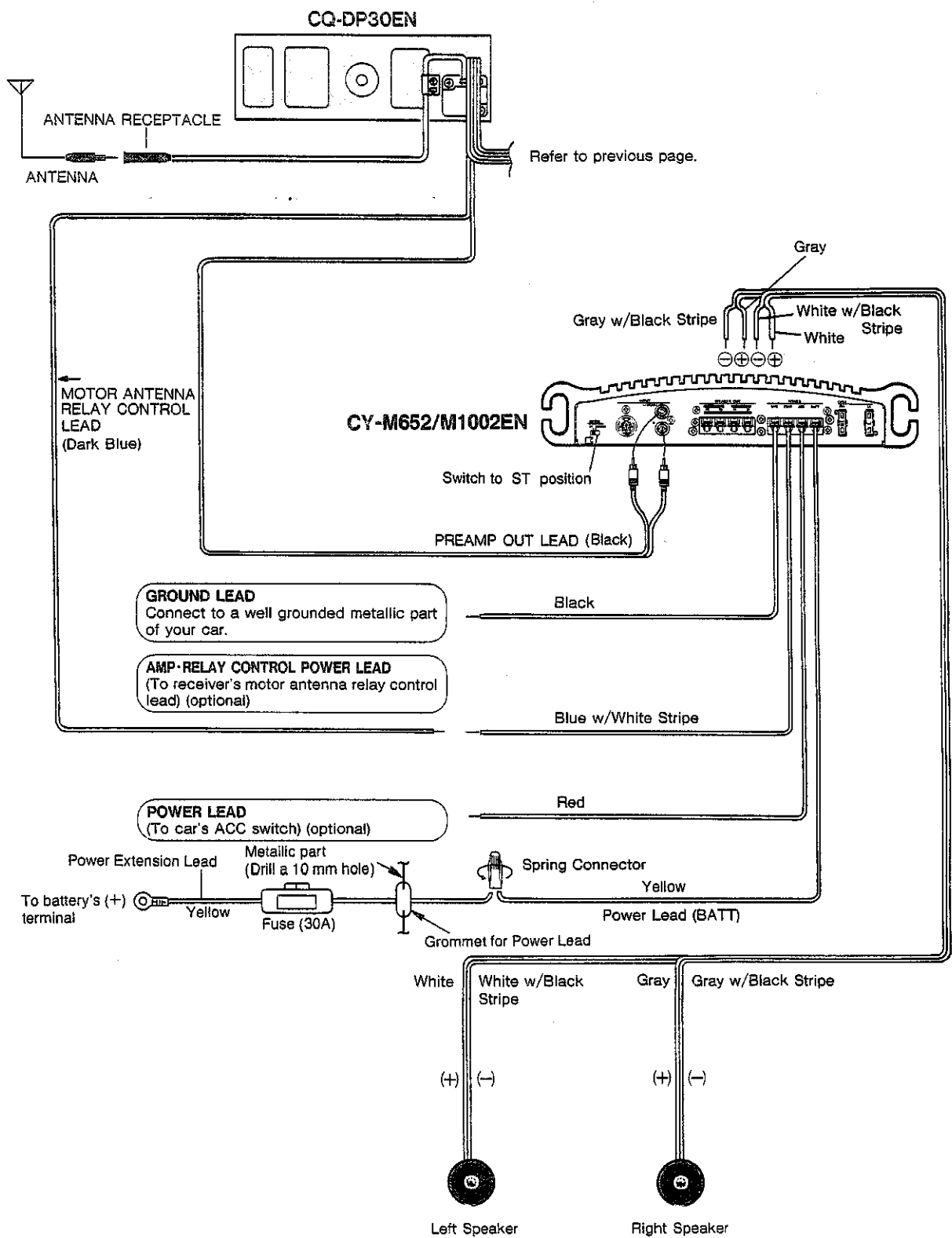
Electrical Connection

Caution:

- To prevent damage to the unit be sure to follow the connection diagram below.
- 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.



In Combination with 2 Channel Bridgeable Power Amplifier, CY-M652 • M1002EN (Optional)



Notes on Compact Disc

ONLY USE DISCS CARRYING LABEL SHOWN ON THE RIGHT

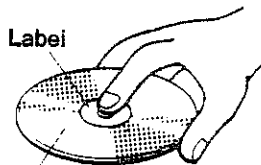
COMPACT
disc
DIGITAL AUDIO

- Dirt, dust, scratches and bending of disc will cause misoperation. Handle discs with care.
- Do not place stickers or make scratches on disc.
- Do not bend discs.
- Disc should always be kept in the case when not in use to prevent from damaging.
- Do not place discs in the following places:
 1. Direct sunlight;
 2. Dirty, dusty and damp areas;
 3. Near car heaters;
 4. Seats and dashboard.

Disc Cleaning

Use a dry soft cloth to wipe the surface. If the disc is quite dirty use a soft cloth slightly dampened in isopropyl (rubbing) alcohol. Never use solvents such as benzene, thinner, conventional record cleaner, or mopper as they may mar the surface of the disc.

Label



Label side up (Disc's rainbow/color side facing upward)



Do not touch the underside of the disc.



Do not bend.

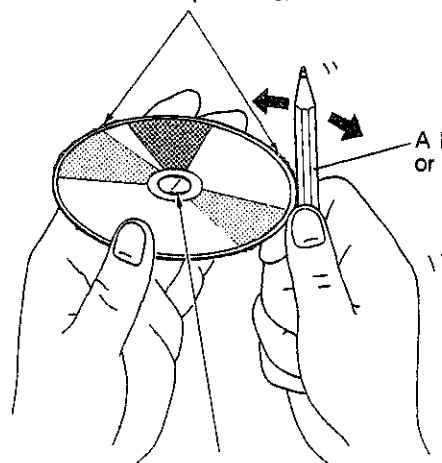


Wipe the disc from center to outside direction

Caution for use of a new Disc

A new disc may have rough edges on its inner and outer perimeter. If a disc with rough edges is used, proper setting will not be possible and the CD player will not play the disc. Therefore, remove the rough edges in advance by using a ball-point pen or pencil as shown on right. To remove the rough edges, press the side of the pen or pencil against the inner and outer perimeter of the disc.

Rough edges
on outer perimeter



A ball-point pen
or pencil

Rough edges
on inner perimeter

Specifications

General

Power Supply	: DC 12V (11 V - 16 V) Test Voltage 14.4 V, Negative Ground
Maximum Power Output	: 4 × 15W, 4 × 8W (DIN45 324, at 4 Ω)
Tone Action	: Bass : ±10dB at 100Hz Treble: ±10dB at 10kHz
Loudness Control	: +8dB at 100Hz, +6dB at 10kHz
Pre-Amp Output Voltage	: 1V (CD Operation: 1kHz,0dB)
Output Impedance	: 600Ω
Current Consumption	: Less than 2.5A (CD Operation, 0.5 W × 4 output)
Dimensions (Main Unit)	: 178(W) × 50(H) × 162(D) mm
(Bracket)	: 182(W) × 53(H) × 165(D) mm
Weight (Main Unit)	: 1.7 kg
(Bracket)	: 0.5 kg

FM Stereo Radio

Frequency Range	: 87.5 - 108 MHz
Intermediate Frequency	: 10.7 MHz
Maximum Sensitivity	: 0dB/μV (S/N 10dB)
FM Stereo Sensitivity	: 6 dB/μV

MW Radio

Frequency Range	: 531 - 1,602 kHz
Intermediate Frequency	: 450 kHz
Usable Sensitivity	: 28 dB/μV (25 μV, S/N 20 dB)

LW Radio

Frequency Range	: 153 - 279 kHz
Intermediate Frequency	: 450 kHz
Usable Sensitivity	: 30 dB/μV (25 μV, S/N 20 dB)

CD Player

Sampling Frequency	: 44.1 kHz
Error Correction System	: Panasonic Super Decoding Algorithm
Pick-Up Type	: Astigma 3-beam
Light Source	: Semiconductor laser
Wavelength	: 780 nm
Frequency Response	: 20 Hz - 20,000 Hz (±1 dB)
Signal to Noise Ratio	: 90 dB
Total Harmonic Distortion	: 0.01%(1 kHz)
Wow and Flutter	: Below measurable limit
Channel Separation	: 75 dB

Note:

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