



UNIVERSAL CD ADAPTOR

CD-FM

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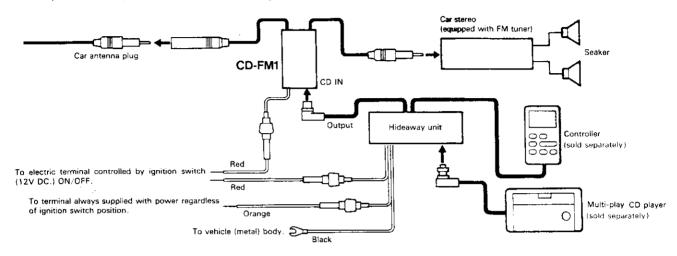


FEATURES

- This adaptor enables you to play external CD player with your FM car radio or car stereo equipped with FM tuner.
- Converts the audio output of CD player to an FM signal (88.1MHz) makes it receivable on FM tuner.

CONNECTION

In order to prevent a short, be sure to disconnect the negative terminal of battery before making connections.



'Note: For other connections see the respective owner's manuals of the units involved in system.

PLAYING CD PLAYER

- Turn on the power of car stereo or car radio and tune in the tuner to a FM frequency of 88.1MHz.
 - When used with an electronically tuned radio/tuner, pretune to 88.1MHz for convenience.
 - If your car radio or car stereo is not equipped with muting function, set the volume at a low level when tuning in to 88.1MHz.
- 2 Operate CD player.
 - See the owner's manual of CD player or controller for the complete operating information.
- 3 Adjust the volume of car stereo while playing CD player.
 - Be sure to reduce the volume of CD player before turning it off or when changing over to tuner or cassette.

ATTENTION

- When you what to listen to radio while playing CD player, be sure to turn off the player first, otherwise, antenna remains inoperative and radio broadcast cannot be received.
- Note that some car radios, with this adaptor attached, are designed to receive broadcast momentarily before playing CD when the engine is started out.
- With this adaptor attached, the tuner's receiving capability may be slightly lessened.
- Some PIONEER car stereos are equipped with Best Stations Memory function and Seek function. These functions do not operate while CD player is in operation.
- This adaptor is designed exclusively for equipped with 12V battery. Do not use it for vehicles other voltage battery.
- Be sure to install the unit in a place where the driver is not bothered and where there is no danger of passengers being injured in case of sudden stops. Also do not install in areas where the unit is exposed to extreme heat such as near the heater duct.

SPECIFICATIONS

FM Modulating Frequency: 88.1MHz

Dimensions: 83mm(W) × 27mm(H) × 47mm(D) (excluding projected parts)

Weight: 200g

ENCLOSURES

Warranty certificate: 1 Owner's manual: 1

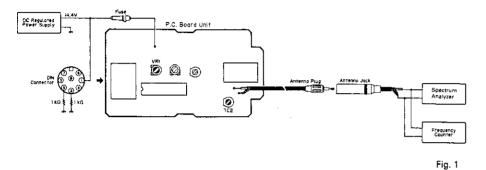
Note: Specifications and the design are subject to possible modification without notice due to improvements.



1. ADJUSTMENT

1.1 DC OFFSET ADJUSTMENT

• Connection Diagram



• To Adjust

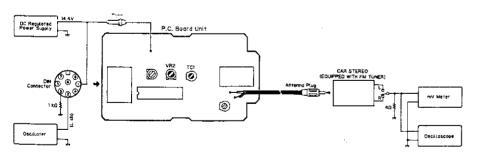
 Adjust VR1 so that the leakage of 38 kHz signal becomes minimum.

1.2 FREQUENCY ADJUSTMENT

- Connection Diagram (shown in Fig. 1)
- To Adjust
- 1. Adjust TC2 so that the frequency counter reads 88.1 MHz.

Connection Diagram

1.3 SEPARATION ADJUSTMENT



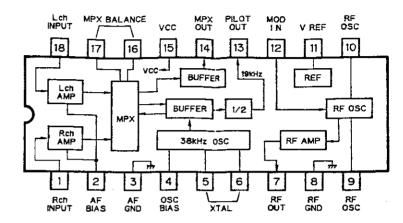
To Adjust

 Input the 1 kHz, -10 d8 (μV) signal into the L-channel.
 Adjust VR2 and TC1 so that the signal leakage to the R-channel (crosstalk) becomes minimum.

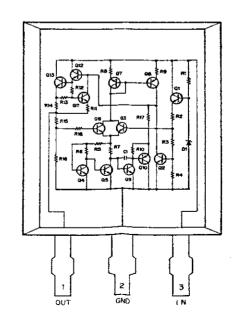
Fig. 2

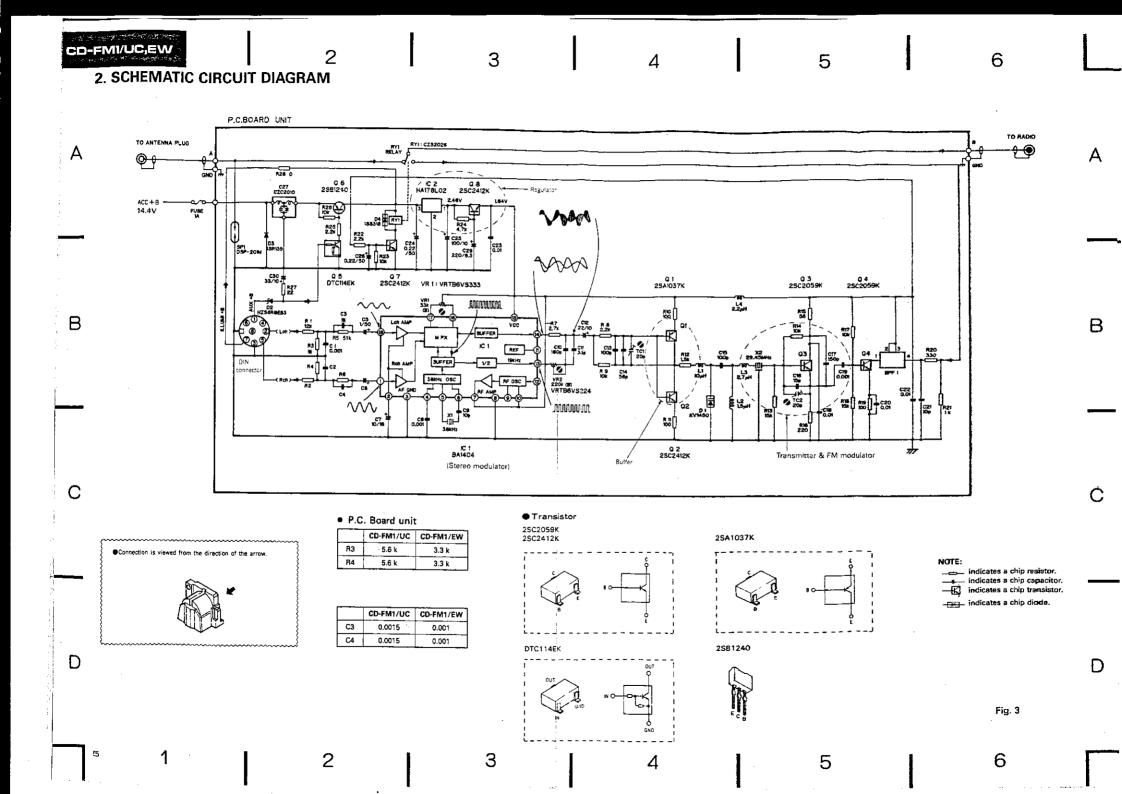
• IC

IC1: BA1404

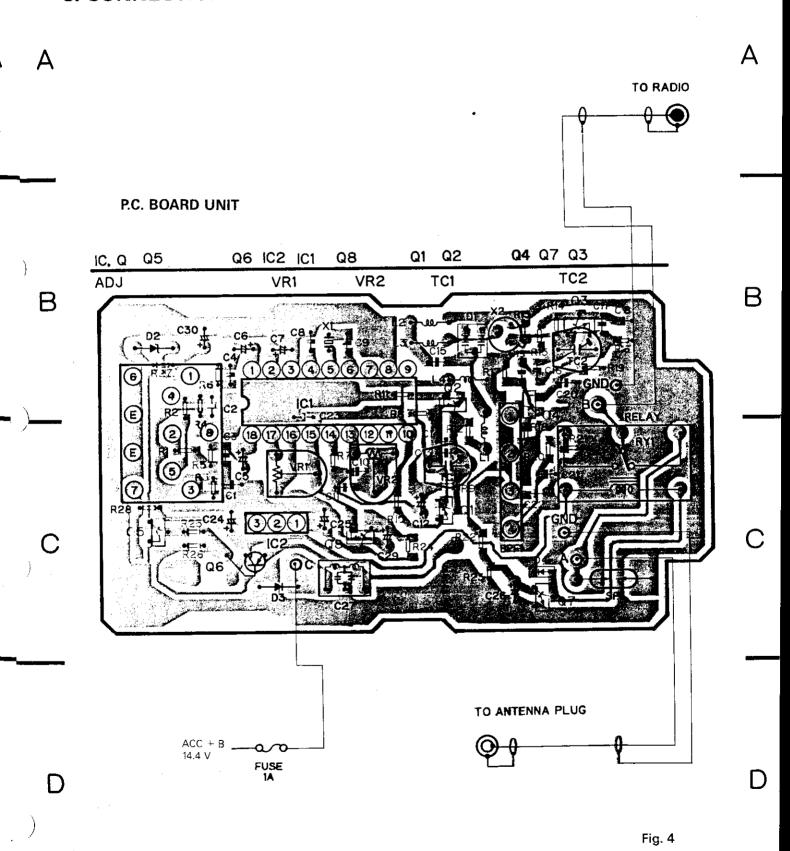


IC2: HA178L02





3. CONNECTION DIAGRAM



4. EXPLODED VIEW

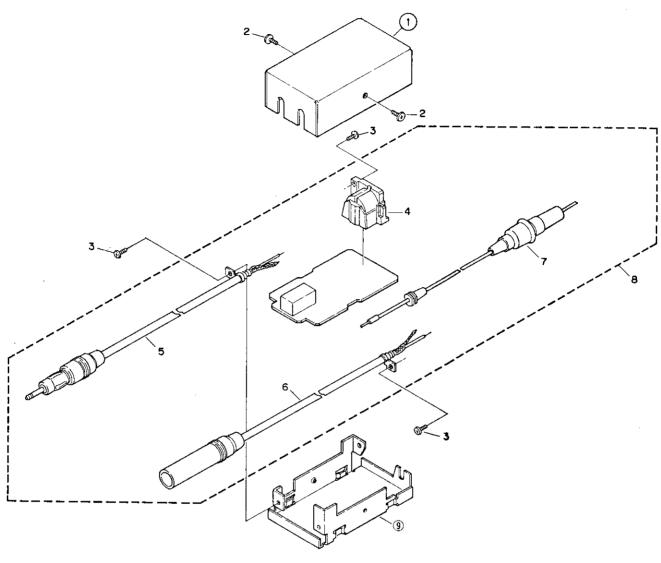


Fig. 5

• Parts List

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
 Parts marked by "®" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------|-----------------------|--|--|------|-----|---|--|
| | 1 2 3 4 5 | Case Screw Screw DIN Connector Antenna Cable | BMZ30P050FMC BMZ26P060FMC CKS-549 CZD3130 | •) | | Antenna Cable Connector P.C. Board Unit (CD-FM1/UC) P.C. Board Unit (CD-FM1/EW) Chassis | CZD3129 CZD3131 CZW3127 CZW3129 |



5. ELECTRICAL PARTS LIST

NOTE:

- For your parts Stock Control, the fast moving items are indicated with the marks ** and *.
 - ** : GENERALLY MOVES FASTER THAN *.

This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.

- Parts whose parts numbers are omitted are subject to being not supplied.
- · The part numbers shown below indicate chip components.

Chip Resistor

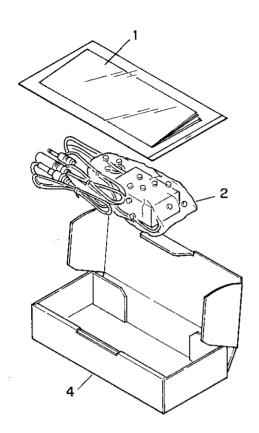
RS1/8S DDDJ, RS1/10S DDDJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

| Unit Number : Unit Name : P.C.Board Unit ALSCELLANEOUS | | | | | | RESISTORS | | | | | | |
|--|-----------|------|---|---------|------------------------------|---|---------|------|-----|---------|-----------------------------------|--------------|
| | | | | | | Mark ===== Circuit Symbol & No ==== Part Name | | | | Part No | | |
| 11.201 | LLAN | E003 | | | | | R | 1 | | | | R\$1/10\$123 |
| ark | ==== | | = | Circuit | Symbol & No ==== Part Name | Part No | R | | - | • | D-FM1/UC) | R\$1/10S562J |
| | | | | | | | R | | | | D-FM1/EW) | R\$1/108332J |
| * | 10 | 1 | | | | BA1404 | R | 5 | | | | RS1/10S513J |
| * * | 10 | 2 | | | | HA178L02 | R | 7 | | | | RS1/10S272 |
| ** | | 1 | | | | 2SA1037K | | | | | | |
| * * | Q | 2 | 7 | 8 | | 2\$C2412K | 8 | 8 | 2 | 2 2 | 5 | R\$1/10\$222 |
| * * | Q | 3 | 4 | | | 28C2059K | R | 9 | 1 | 4 1 | 7 23 26 | R\$1/10\$103 |
| | • | | | | | | R | 10 | 1 | 1 1 | 9 | R\$1/105101 |
| ** | Q | 5 | | | | DTC114EX | R | 12 | | | | R\$1/10\$152 |
| ** | Q | 6 | | | | 2581240 | R | 13 | 1 | 8 | | R\$1/10\$153 |
| * | Đ | 1 | | | | XV1450 | | | | | | |
| * | D | 2 | | | | HZS6R8E83 | R | 15 | | | | 8\$1/10\$560 |
| * | | 3 | | | | 158139 | R | 16 | | | | RS1/10S221 |
| | | | | | | | R | 20 | | | | R\$1/10\$331 |
| * | 0 | 4 | | | | 155318 | R | 21 | | | | RS1/10S102 |
| | L | 1 | | | Ferri-Inductor 10 m H | LAU100X | R | 24 | | | | R\$1/10\$473 |
| | Ĺ | 2 | | | Ferri-Inductor 1.5 µ H | LAUIRSK | | | | | | |
| | Ĺ | 3 | | | Ferri-Inductor 2.7 µ H | LAU2R7K | R | 27 | | | | R\$1/10\$22 |
| | Ĺ | 4 | | | Ferri-Inductor 2.2 µ Н | LAU2R2K | R | 28 | | | | RS1/10S0R0 |
| | BPF SP | 1 | | | Filter | CZT2002 DSP-201M | CAPACIT | ORS | | | | |
| | TC | 1 | 2 | | Trimmer 20pf | CCG-070 | Mack == | ==== | === | . Ci | rouit Symbol & No. ==== Part Wame | Part No |
| | RY | 1 | • | | Relay | CZ\$2026 | | | | | | |
| | X | 1 | | | Osillator 38KHz | GZ\$2027 | С | 1 | | 7 | 8 19 | .CKSQYB102 |
| | | | | | | | Ċ | 3 | | | CO-FM1/UC) | CKSQYB152 |
| | X | 2 | | | Osillator 29.45MHz | CZ\$2028 | C, | 3 | | | O-FM1/EW) | CKSQYB102 |
| ** | ۷R | 1 | | | Semi-fixed 33kΩ (B) | VRTB6VS333 | Č | | | 6 | | CEA010M50 |
| ** | VR | 2 | | | Semi-fixed 220k Ω (B) | VRT86VS224 | c | 7 | ı | | | CEA100M16 |
| | | | | | | | С | 9 | ۱ ; | 1 | | CCSQCH100 |
| | | | | | | | C | 10 | 1 | | | CCSQCH181 |
| | | | | | | | C | 11 | i | | | CC2OCH330 |
| | | | | | | | C | 12 | | | | CEA220M10 |
| | | | | | | | c | 13 | 3 | 15 | | CCSQCH101 |
| | | | | | | | C | 14 | | | | CCSQCH560 |
| | | | | | | | C | 16 | | | | CCSQUJ150 |
| | | | | | | | C | 11 | • | | | CCSQCH151 |
| | | | | | | | C | | | | 22 23 | CKSQYB103 |
| | | | | | | | С | 2 | 4 | 26 | | CEAR22M50 |
| | | | | | | | C | _ | | | | CEA101M10 |
| | | | | | | | C | _ | | | | CZC2010 |
| | | | | | | | C | _ | | | | CEA221M6R |
| | | | | | | | C | 3 | 0 | | | CEA330M1 |

6. PACKING METHOD



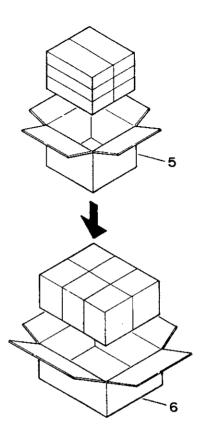


Fig. 6

• Parts List

| Mark No. | | Description | Part No. CZR2076 | | |
|----------|---|--|---------------------|--|--|
| | | Owner's Manual (CD-FM1/UC) (English, French) | | | |
| | | Owner's Manual (CD-FM1/EW) (English, French, German, Spanish, Italian) | CZR2078 | | |
| | 2 | Cover | CZE2046 | | |
| | 3 | * * * * * | | | |
| | 4 | Carton (CD-FM1/UC) | CZH3199 | | |
| | | Carton (CD-FM1/EW) | CZH3205 | | |
| | 5 | Contain Box (CD-FM1/UC) | CZH3200 | | |
| | 6 | Contain Box (CD-FM1/UC) | CZH3201 | | |