

## Service Manual

### AM/FM Radio CD Combination

#### Model DB135

(Model PC-2054B-B For U.S.A.)



### SPECIFICATIONS

**Radio section**  
**Model PC-2054B-B**  
Tuning system: PLL synthesized tuner  
Receiving frequencies: FM 87.5 to 107.9 MHz (120 MHz channel)  
AM 530 to 1,710 kHz (10 MHz channel)

**CD player section**  
System: Compact disc audio system  
Cassette slot: Compact disc  
Frequency response: 10 Hz to 20 kHz (±1 dB)  
Signal to noise ratio: 100 dB (reweighted)  
Dynamic range: 90 dB (reweighted)  
Distortion: 0.01%

**General**  
Max. Power Output: 60W x 4  
Line Output: 1.7V (auto-CD), 10V (FM)  
Base Control Action: +10dB / -10dB (CD/FM)  
Track Control Action: +10dB / -10dB (CD/FM)  
Power supply voltage: DC 14.4V (5.0 to 16.0V automatic negative ground)

Current consumption: Less than 15A  
Speaker impedance: 4Ω (4Ω to 16Ω impedance)  
Dimensions (mm): 178 (H) x 50 (W) x 162 (Dmm)  
Weight: 1.0kg

### NOTE

1. Do not connect supply Fuses with component parts in principle. When a circuit or Fuses has fuse, please refer to component parts base. Parts which are not mentioned in service manual are not supplied.

### FEATURES

1. Amplifier/Decoder Volume Control
2. 2-Bandmaster with 1-Mode Sound Selector
3. **MP3 COMP**™ MP3 Reception System
4. Continuous Lock/Scan Tuning
5. 4-Times OverSampling Digital Filter and Dual 14-Bit DAC Converters
6. Power Station Scan (PFS), Automatic Scan Lock
7. 2-Channel RCA Line Level Output
8. Not 1 band, but 2 bands each 4 channels total (4 channels, Power Memory Function)
9. Repeat/Random Play/Stop/Still Scan
10. 200W (RMS) x 4 Maximum Power Output

### COMPONENTS

| PC-2054B-B             |             |   |
|------------------------|-------------|---|
| Main unit              | —————       | 1 |
| Mounting bracket       | 809-1740-00 | 1 |
| Bracket/trim (Columbo) | 070-6000-10 | 1 |
| Extension Lead         | 804-4301-00 | 1 |
| Partly bag             | —————       | 1 |
| Remove key             | 071-0407-00 | 2 |

\* Specifications and design are subject to change without notice for better improvement.

### To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and engineers in charge of repair or inspection can avoid suffering any risk or injury.

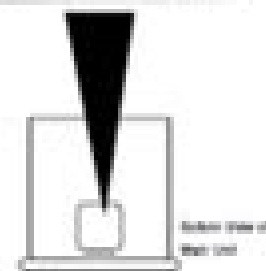
1. Use specified parts.  
The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.  
The use of unspecified parts shall be regarded as re-modeling for which we shall not be liable. The use of product liability (P/L) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or rewiring.  
For proper circuit construction, use of insulation tubes, taping, glue or Posh, etc., is advised. The wiring connection and routing to the Fuses are specially planned using cables to keep away from heated and high voltage parts. Should they be disconnected in their original positions after repair or inspection, fire-related damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.  
Check that the wires, parts and wires are put back securely in their original position after repair. Should the safety features there is no possibility of secondary short-circuits around the repaired parts.  
If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.  
Disconnect the battery terminals after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding shock.  
Do not reuse removed chips even when its appearance is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc.) The negative side of semiconductor components is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling Radio Fuses.  
Before working with a soldering iron, make sure that the iron is temperature is around (270°C). Take care not to apply the iron to repeatedly more than three times to the same pattern. Accidents can occur easily due to side lights.
7. Turn the unit OFF during disassembly and parts replacement.  
Reconnect all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.  
The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser pickup beam lights up, keep your eyes

more than 30cm away from the lens. Prolonged viewing of the laser within 30cm may damage your eyesight.

9. Cautions in handling the optical pickup.  
The laser beam of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Keep sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.
10. Laser shock.  
The laser shock terminals are stored for transportation in order to prevent electrostatic damage. After replacement, open the stored circuit. After removing the pins from the mechanism, short the terminals by covering them to prevent fire damage.
11. Reflector.  
The Reflector has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Should that no foreign substances enter through the ventilation hole in the cover.
12. Cleaning the lens.  
Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

### CAUTIONS

Use of controls, adjustments, or performance of procedures other than those specified herein, may result in hazardous equipment exposure.  
The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.



# Clarion Db135 Car Stereo Player Repair Manual

**AW Rasmussen**



## **Clarion Db135 Car Stereo Player Repair Manual:**

**Car Stereo Service Manual** Toyota Jidōsha Hanbai Kabushiki Kaisha, 196?      *Stereo Troubleshooting & repair Manual*  
Paul Owens, 1979      Stereo Troubleshooting & Repair Manual Robert Gordon Middleton, 1979      *Car Radio Service Manual*  
, 1961      **Troubleshooting and Repairing Audio and Video Cassette Players and Recorders** Homer L. Davidson, 1992  
Few repair manuals have a larger audience than this money saving do it yourselfer's guide. It contains all the information  
necessary to prevent, diagnose or fix typical problems with audio video cassette players, recorders popular in today's high  
tech home. Homer Davidson's coverage ranges from basic cleaning maintenance to performing repairs on everything from  
portable cassette players to state of the art digital audio tape players, all with only a few simple test instruments, hand tools. A  
complete glossary, list of manufacturer's addresses is included.      *Philco-Delco Car Radio Installation and Service Manual*  
, 1937      Vauxhall Carlton and Senator Service and Repair Manual Mark Coombs, Spencer J. Drayton, 1996      **Vauxhall**  
**Nova Service and Repair Manual [1983 to 1993]** John S. Mead, 1999

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HINT: Do all three species share the same ...