Commercial Audio Series

135MA

160MA

Obtaining Other Language Versions: To obtain information in another language about the use of this product, please contact your local Crown Distributor. If you need assistance locating your local distributor, please contact Crown at 574-294-8000.

This manual does not include all of the details of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during installation, operation or maintenance.

The information provided in this manual was deemed accurate as of the publication date. However, updates to this information may have occurred. To obtain the latest version of this manual, please visit the Crown website at www.crownaudio.com.

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Some models may be exported under the name Amcron®

**1. Read these instructions.**

**2. Keep these instructions.**

**3. Heed all warnings.**

**4. Follow all instructions.**

**5. Unplug this apparatus during lightning storms or when unused for long periods of time.**

**6. Do not expose apparatus to dripping or splashing.**

**7. Do not place any objects filled with liquids, such as vases, on the apparatus.**

**8. Clean only with a dry cloth.**

**9. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.**

**10. Do not expose apparatus to excessive dust or any outdoor environment.**

**11. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**

**12. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.**

**13. Only use attachments/accessories specified by the manufacturer.**

**14. Use the mains plug to disconnect the apparatus from the mains.**

**15. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.**

**16. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.**

**17. Do not expose this equipment to dripping or splashing and ensure that objects filled with liquids, such as vases, are placed on the equipment.**

**18. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.**

**19. This Class 2 equipment complies with the requirements of the Low Voltage Directive 2006/95/EC and the EMC Directive 2004/108/EC.**

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**PCC COMPLIANCE NOTICE**

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**DECLARATION OF CONFORMITY**

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**Operation Manual**
1 Welcome

1.1 Features

• 3 inputs (each with a volume control), and one 35W amplifier output channel in 135MA
• 4 inputs (each with a volume control), and one 60W amplifier output channel in 160MA
• Ideal for paging, background music, and music-on-hold
• Balanced Phoenix-type mic/line input, telephone output, dual RCA stereo music inputs
• Priority muting by VOX or external switch
• Bass and Treble controls are master output
• Three-Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications

1.2 Priority Muting

1.3 Voice-Activated (VOX) Muting

1.4 Music-On-Hold

1.5 Security Knobs

1 kHz Power: refers to maximum power in watts at 1 kHz with 0.5% THD.

1 kHz Power

35W

Minimum guaranteed power into 8 ohms or 70V/100V output

160MA

90W

Minimum guaranteed power into 8 ohms or 70V/100V output

1 kHz Power, when the maximum power is reached at 1 kHz with 0.5% THD.
1.2 Front Panel Controls and Indicators

A. Input Signal Presence/Clip Indicators: Green LED, one above each channel's volume control, illuminates when input signal exceeds –40 dBu, or flashes brightly at threshold of audible distortion.

B. Master Output Volume control: Detented potentiometer with knob.

F. Output Signal Presence Indicator: Green LED above master output volume control illuminates when any input signal exceeds –40 dBu.

G. Output Signal Clip Indicator: Red LED above master output volume control flashes brightly at threshold of audible distortion.

E. Power Indicator: Blue LED illuminates power on.

1.3 Back Panel Controls, Connectors and Indicators

A. Ac Power inlet: Detachable IEC accepts US or Euro style power cords.

B. Amplifier Output connector: 4-position terminal D terminal (100V Common, 8 ohms, 70V and 100V terminals. Accepts up to 12 AWG terminal forks. Clear non-touch cover included.

C. Amp Configuration DIP Switch: DIP switch selection for multiple functions.


2. On: Sets CH1 to Normal mode (no priority). Off: Sets CH1 to Mic Input.

3. On: CH1 priority contact closure mutes other channels.

4. On: CH1 VOX mutes other channels by sensing signal through Input 1.

5. On: Routes CH1 to MOH output.

6. On: Routes CH2 to MOH output.

7. On: Routes CH3 to MOH output.

8. On: 15V phantom power.

D. input connectors 2-4 (160MA) or 2-3 (135MA): Unbalanced line-level RCA-type connectors, summed to mono.

E. Preamp Line Out connector: 3-pin balanced Phoenix-type for connection to external amplifiers. Level independent of master volume control.

H. Power Switch: Pushbutton on-off switch.

2 Setup

A. MOH Level control: Trim pot adjusts level for Music-On-Hold output from Telephone (MOH) Output Connector.

B. Telephone (MOH) Output connector: 4-terminal Phoenix connector (2 terminals for 1W output to 8-ohm speaker, 2 terminals for 600-ohm output to PBX music-on-hold port).

C. VOX Threshold: Trim pot controls how loud the voice on CH1 must be before muting other channels. Can be set for no muting.

D. input connector 1: 5-terminal Phoenix connector. 3 terminals for balanced signal; 2 terminals for priority contact closure, which mutes other channels when DIP switch is on.
2 Setup

2.1 Installation

CAUTION: Before you begin, make sure your mixer-amplifier is disconnected from the power source, with power switch in the “off” position and all level controls turned completely down (counterclockwise).

Use a standard 19-inch (48.3 cm) equipment rack with an optional rack-mount kit. See Figure 2.1 for dimensions.

You may also stack mixer-amps without using a cabinet, as you may place a single mixer-amp on a surface with 12 inches of air space all around the unit for convection cooling.

NOTE: When transporting in a rack, mixer-amps should be supported at the front and back.

When using an equipment rack, do not mount units directly on top of each other. Allow 2 rack units (3.5 inches) between units for convection cooling.

The side walls of the rack should be a minimum of two inches (5.1 cm) away from the mixer-amplifier sides, and the back of the rack should be a minimum of four inches (10.2 cm) from the mixer-amplifier back panel.

2.2 How to Attach the Unit to a Rack

1. Order the optional Rack-Mount kit from your Crown dealer. Part no. RM1 is a “single rack mount kit” for mounting a single MA unit in a rack. Part no. RM2 is a “double rack mount kit” for mounting two MA units side-by-side in a rack.

2. See Figure 2.2. Remove the two screws from each side of the chassis near the front.

3. Place unit face flush with the right front of the chassis.

4. Insert a screw that you removed into the bottom hole of the rack ear and chassis. Screw it in.

5. Insert a screw that you removed into the center hole of the rack ear and chassis. Screw it in.

6. Insert one of the supplied screws into the top hole of the rack ear and chassis. Screw it in.

7. Repeat steps 3-6 for the left side of the chassis.

2.3 Choose Input Wire and Connectors

Crown recommends using pre-built or professionally wired, balanced line (two-conductor plus shield), 22-24 gauge cables and connectors. Unbalanced line may also be used but may result in noise over long cable runs.

The 135MA and 160MA have two types of input connectors: Phoenix-type and RCA.

• Mic/Line connector (cH1):
  - 5-pin Phoenix-type, balanced, pins 3, 4 and 5 (Figure 2.3).

• dual RCA input connector (other channels):
  - For stereo music signals, unbalanced, summed together, two connectors per input (Figure 2.4).

Figure 2.2 How to Connect Rack Ears

(Noto Scale)
2 Setup

2.4 Choose Output Wire and Connectors

Amplifier Output Connections: Slip the cable lugs under the output screw terminals and tighten (Figure 2.6). Slide the supplied non-touch cover over the output connection to keep it in place. Crown recommends using pro-built or professionally wired, high-quality, two-conductor, heavy gauge speaker wire and connectors. You may use crimp-on spade lugs for your output connectors. To prevent the possibility of short circuits, wrap or otherwise insulate exposed loudspeaker cable connectors. Cover the output connections with the supplied clear non-touch cover by sliding the cover on.

Using the guidelines below, select the appropriate size of wire based on the distance from amplifier to speaker. The wire sizes apply to the 8-ohm tap.

<table>
<thead>
<tr>
<th>Distance</th>
<th>Wire Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 25 ft.</td>
<td>16 AWG</td>
</tr>
<tr>
<td>26-40 ft.</td>
<td>14 AWG</td>
</tr>
<tr>
<td>41-60 ft.</td>
<td>12 AWG</td>
</tr>
<tr>
<td>61-100 ft.</td>
<td>10 AWG</td>
</tr>
<tr>
<td>101-150 ft.</td>
<td>8 AWG</td>
</tr>
<tr>
<td>151-250 ft.</td>
<td>6 AWG</td>
</tr>
</tbody>
</table>

Note: Custom wiring should only be performed by qualified personnel. Class 2 wiring is required.

Caution: Never use shielded cable for output power wiring. Use 2-conductor shielded cable and a 3-pin Phoenix-type connector for Preamp Line Output (Figure 2.7).

Music-On-Hold Connections

If you have an external music source connected to the 135MA or 160MA, you can play its music over a phone line while the caller is on hold. Use the connection shown in Figure 2.8 (either 8 ohms or 600 ohms) to connect the mixer-amp to the Music-On-Hold input on your telephone system interface/PBX.

If your phone system needs to be electrically isolated from the 135MA or 160MA, you can order an accessory isolation transformer from your Crown dealer, part no. IST. It connects either to the MOH output or to Input 1.

2.6 Phantom Power

Condenser mics require phantom power to operate. If you are using a condenser microphone on Input 1, turn on DIP switch #8. The microphone must be able to work on 15V phantom power, which the mixer-amp’s mic input connector provides.
3 Operation

3.1 Powering Up
1. Turn off any equipment connected to the Preamp Output connector.
2. Plug the amplifier's power cord into a 3-wire grounded AC outlet.
3. Turn down the input volume controls.
4. Turn down the master volume control.
5. Turn on the Power switch. The Power indicator should glow.
6. Turn the input volume controls back up to 3/4 up.
7. Turn up the master volume control(s) until the desired loudness or power level is achieved.
8. Touch up the input levels as needed for music and voice.
9. Turn on any equipment connected to the Preamp Output connector.

If you ever need to make any wiring or installation changes, disconnect the power cord.

3.2 Priority Muting
If you want a microphone's push-to-talk switch to mute the background music or other input signals, follow this procedure. On the back of the 135MA or 160MA,
1. Turn DIP switch 2 off. Turn DIP switch 3 on.
2. Connect a push-to-talk mic contact to the Priority Connector (Figure 3.1). Input 1 is the priority input for the amplified output, so Input 1 mutes the other inputs.

3.3 Voice-Activated (VOX) Muting
If you want a voice to mute the background music or other input signals, follow this procedure. On the back of the 135MA or 160MA,
1. Turn DIP switch 4 on. Turn DIP switches 2 and 3 off.
2. Talk into the microphone. Adjust the VOX Threshold trim pot on the back of the unit to set how loud the voice must be before muting occurs. It can be set for no muting.

3.4 Music-On-Hold
On the back of the unit, adjust MOH Level Control to obtain the desired level of Music-On-Hold in your phone system.

3.5 Security Knobs
To prevent user tampering with the knobs, you can order the accessory 10-pack of security knobs from your Crown dealer, part no. S-Cover.
1. Pull off an existing knob.
2. Remove the nut.
3. Screw the security knob over the potentiometer shaft. The knob will not rotate.

4 Troubleshooting

CONDITION: No power to the mixer-amplifier.
POSSIBLE REASON:
• The mixer-amplifier's Power switch is off.
• The mixer-amplifier is not plugged into the power receptacle.

CONDITION: Distorted sound.
POSSIBLE REASON:
• Input signal level is too high. Turn down your input volume control. NOTE: Your input amplifiers should never be operated at a level which causes the Clip LEDS to illuminate constantly.
• Master volume level is too high. Turn it down to about 3/4 maximum level.

CONDITION: No sound.
POSSIBLE REASON:
• No input signal.
• Input signal level is very low.

CONDITION: Distorted sound.
POSSIBLE REASON:
• Input signal level is too high. Turn down your input volume control. NOTE: Your input amplifiers should never be operated at a level which causes the Clip LEDS to illuminate constantly.

CONDITION: No sound.
POSSIBLE REASON:
• The amplifier is in “fault” mode. A fault status can be triggered if one of the amplifier’s protection circuits is activated. This condition can be removed by momentarily turning off the mains power, then turning it back on. If the unit is still in fault mode, please call your nearest Crown Service Center or contact Crown Technical Service for assistance.

CONDITION: No sound.
POSSIBLE REASON:
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5 Specifications

Crosstalk (below rated power) – 82 dB at 1kHz (Ch. 1 line input 0.8V, Ch. 1 volume at 0 dB).

Cooling – 20° C to 85° C.

Shipping weight – 10 lb 16 oz (4.9 kg).

Height (including feet): 4.1 in. (10.5 cm).

Height (front panel): 3.5 in. (8.9 cm).

Width: Half rack width (9.5 in. or 24.1 cm).

Performance

Frequency Response (at 1 foot from 0-der derivative stage) – 50 Hz to 20 kHz ± 1 dB.

Before you order any service, please contact Crown Factory Service to verify the need for servicing.

Warning: Only qualified service centers in the United States of America are authorized to perform service work on this Crown product. Any service work performed by unauthorized service centers will void the manufacturer’s warranty. This unit will fail no more than a reasonable amount if that which can be expected to occur at 20° C to 85° C.

CAUTION: To prevent electrical shock, do not remove covers. No user serviceable parts inside. Refer servicing to a qualified technician.

Complete the Crown Audio Factory Service Information form (or securely attach it to your packing material) when returning this unit to the factory or authorized service center for repair. This service information form is available at http://www.crownaudio.com/support/servcent.htm.

For more information please contact us directly at a service center (technical support phone number is enclosed in the back of this manual, when returning the product for repair). It is recommended that you use the original pack material to transport your unit in the original factory pack. A list of authorized service centers is available at http://www.crownaudio.com/support/servcent.htm.

50 Hz to 20 kHz ± 1 dB.

Line Output Level (nominal): 35W 60W

Input Sensitivity (for full output at maximum gain): 50 Hz to 20 kHz ± 1 dB.

Minimum guaranteed power into 8 ohms or 70V/100V 1 kHz with 0.5% THD

50 Hz to 20 kHz ± 1 dB.

Signal to Noise Ratio (ref. to rated power, master output) – 95 dB.

1 kHz with 0.5% THD

35W 60W

Mic: > 58 dB.

35W 60W

Line: 10 kilohms.

Input 4 (160MA only): 400mV.

Input 3: 400mV.

Inputs 2 or 3 (and 4 in 160MA): > 78 dB.

Performance

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Payment of Non-Warranty Repairs

Payment of non-warranty repairs is not covered under warranty. The estimated cost of labor and parts will be quoted to you when returning the product for repair (Figure 9.1). If you do not prepay the cost of shipping, Crown will ship the defective unit to an authorized service center. They will handle the necessary paperwork and ship your unit back to you, if the repair is covered under warranty.

US and Canada Service

Service centers determine the labor costs, the complexity of the repair, and whether the product is under warranty. You may choose either. It is the owner's responsibility to ensure that their product is covered under warranty. We will not be responsible for non-serviceable product that is sent to us for factory repair. It is the owner's responsibility to verify the need for servicing.

Service at a US or Canadian Service Center

This method usually saves the most time and will get the unit repaired the fastest. You must obtain the service center information directly from us or from the web site. Your unit will be assigned to an authorized service center or repair center. They will handle the necessary paperwork and ship your unit back to you, if the repair is covered under warranty.

Facsimile: 1718 W. Mishawaka Rd., Facsimile: 1718 W. Mishawaka Rd., phone number is enclosed in the back of this manual, when returning the product for repair (Figure 9.1). If you do not prepay the cost of shipping, Crown will ship the defective unit to an authorized service center. They will handle the necessary paperwork and ship your unit back to you, if the repair is covered under warranty.

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SUMMARY OF WARRANTY

Crown International, 1718 West Mishawaka Road, Elkhart, Indiana 46517-4095 U.S.A. warrants to you, the ORIGINAL PURCHASER and ANY SUBSEQUENT OWNER of each NEW Crown product, for a period of three (3) years from the date of purchase by the original purchaser (the "warranty period") that the new Crown product is free of defects in materials and workmanship. We further warrant the new Crown product regardless of the reason for failure, except as excluded in this Warranty.

WHAT THE WARRANTOR WILL DO
We will remedy any defect, regardless of the reason for failure (except as excluded), by repair, replacement, or refund. We may not elect refund unless you agree, or unless we are unable to provide replacement, and repair is not practical or cannot be timely made. If a refund is elected, then you must make the defective or malfunctioning product available to us free and clear of all liens or other encumbrances. The refund will be equal to the actual purchase price, not including interest, insurance, closing costs, and other finance charges less a reasonable depreciation on the product from the date of original purchase. Repair work can only be performed at our authorized service centers or at the factory. The warranty period starts from the date of original purchase. If the new Crown product is returned from the service center or our factory within a reasonable time after repair of the defective product or our authorized service center or our factory and we determine that the defect is due to our workmanship or materials, including original labor costs in the United States, will be free of charge. You must bear any expenses for transportation to and from the service center or our factory and transportation to and from your location. All parts furnished to remedy the defect are warrantied for a period of one year from the date of receipt of the repaired product. If the repairs made by us or our authorized service center are not satisfactory, notify us or our authorized service center immediately.

WARRANTY ALTERATIONS
No person has the authority to enlarge, amend, or modify this Crown Warranty. This Crown Warranty is not extended by the length of time which you are deprived of the use of the new Crown product. Repairs and replacement parts provided under the terms of this Crown Warranty shall carry only the unexpired portion of this Crown Warranty.

DESIGN CHANGES
We reserve the right to change the design at any product from time to time in order to improve the performance of our products and to avoid defects. Changes in the design of any product shall be made without notice for products previously manufactured.

LEGAL REMEDIES OF PURCHASER

This statement of Warranty supersedes any other conditions contained in this Manual for Crown Products. 9/07

DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES
YOU ARE NOT ENTITLED TO RECOVER FROM US ANY INCIDENTAL DAMAGES RESULTING FROM THE DEFECT IN THE NEW CROWN PRODUCT. ALL WARRANTIES ARE EXPRESSLY EXCLUDED AND DISCLAIMED BY THE PROVISIONS OF THIS CLAUSE. THIS INCLUDES ANY DAMAGES TO ANOTHER PRODUCT OR PRODUCTS RESULTING FROM SUCH A DEFECT. YOU ARE NOT ENTITLED TO RECOVER FROM US ANY INCIDENTAL DAMAGES, INCLUDING но SUCH ITEMS AS LOSS OF USE, THE PRICE OF SUBSTITUTE GOODS OR SERVICES, OR ANY OTHER INDIRECT COSTS OR DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

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