

Cat. No. 14-1169

OWNER'S MANUAL

Please read before using this equipment.

Micro-41

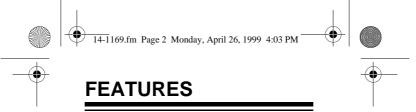
Micro Recorder with Voice Zoom and VOX





OPTIMUS_®





Your Optimus Micro-41 Micro Recorder with Voice Zoom and VOX is ideal for quick note-taking. Its ultra-small size makes it easy to slip into a pocket or briefcase. You can use it at school, at business conferences, for dictation in the office, or anywhere on the go! You can record manually or set the recorder so sound activates recording.

Your recorder includes these features:

Voice-Activated Recording (VOX) — records when it picks up sound and stops a few seconds after the sound stops.

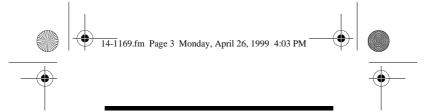
Voice Zoom — a special circuit separates voice recordings from a noisy background adding clarity to the voices.

Index Marker — lets you mark the beginning of a recorded section.

Tape Speed Switch — lets you record and play back tape at a slower speed which provides twice the recording/playback time

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or at normal speed for maximum sound quality.

Auto Stop — stops the tape movement when the recorder reaches the end of the tape during recording or playback.

Tape Counter with Reset Button — lets you note specific points in a tape for later reference.

Quick Record — lets you instantly change from playback to recording.

Built-In Microphone and Speaker — let you record and play back notes anywhere.

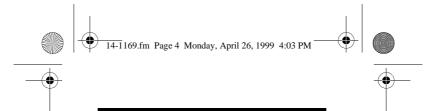
External Microphone Jack — lets you use an external, wide range microphone.

Earphone Jack — lets you use an optional earphone for private listening.

Fast Play — lets you play a tape back about 30% faster than normal speed, to save time.

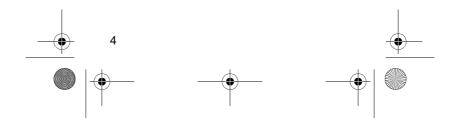
Automatic Level Control (ALC) Circuit — automatically sets the recording level.





Three Power Options — you can power the recorder from standard AC power using an optional AC adapter, two AA batteries (not supplied) or a vehicle's battery using an optional DC adapter.













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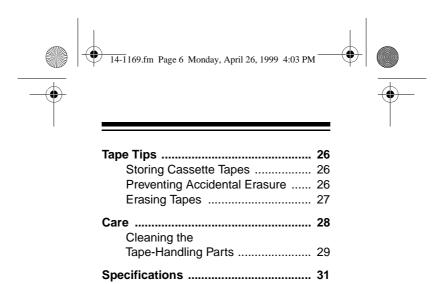




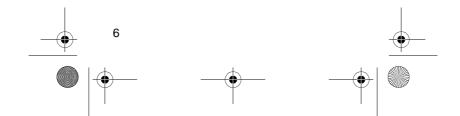


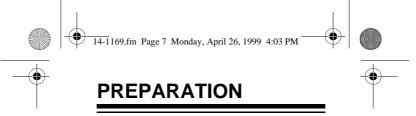












CONNECTING POWER

Using Batteries

You can power your recorder with two AA batteries (not supplied). For the best performance and longest life, we recommend RadioShack alkaline batteries.

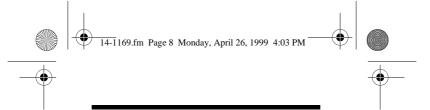
Warning: Dispose of old batteries promptly; do not bury or burn them.



Cautions:

- Use only fresh batteries of the required size and recommended type.
- Never leave dead or weak batteries in the Micro-41. Batteries can leak chemicals that can destroy electronic circuits.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.





1. Slide the battery compartment cover in the direction of the arrow.



2. Insert the batteries into the compartment and on top of the attached ribbon, as indicated by the polarity symbols (+ and –) marked inside.



3. Replace the cover.

Notes:

- If the RECORD/BATTERY indicator lights dimly or does not light at all during use, replace the batteries.
- If you do not plan to use the Micro-41 for several days, or if you plan to use



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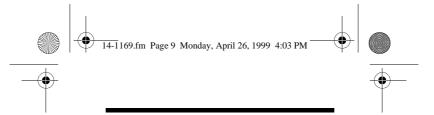












only AC or vehicle battery power, remove the batteries.

Using AC Power

You can power the Micro-41 from an AC outlet, using an AC adapter (not supplied), available at your local RadioShack store.

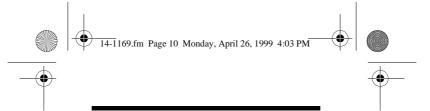
Cautions:



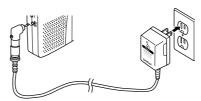
You must use a Class 2 power source that supplies 3V volts DC and delivers at least 300 mA. Its center tip must be set to positive and its plug must fit the Micro-41's DC 3V jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications could damage the Micro-41 or the adapter.

 Always plug the AC adapter in to the Micro-41 before you plug it into the AC outlet, and unplug the adapter from the AC outlet before you unplug it from the Micro-41.





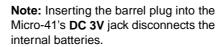
Follow these steps to power the Micro-41 from standard AC power.



1. Set the AC adapter's voltage switch to 3V



2. Insert the 3.4 mm outer diameter/1.3 mm inner diameter barrel plug into the AC adapter's cord to read TIP+.

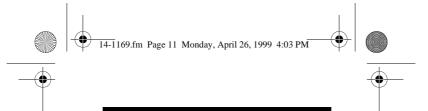


3. Plug the adapter's other end into a standard AC outlet.

Using Vehicle Battery Power

You can power the Micro-41 from a vehicle's battery using a DC adapter (not supplied), available at your local RadioShack store.



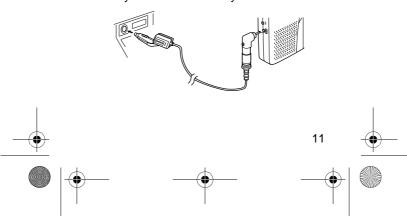


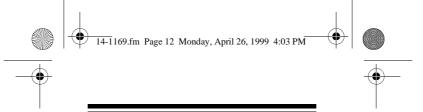
Cautions:

You must use a power source that supplies 3 volts DC and delivers at least 300 mA. Its center tip must be set to positive and its plug must fit the Micro-41's DC 3V jack. The recommended adapter meets these specifications. Using an adapter that does not meet these specifications could damage the Micro-41 or the adapter.

 Always plug the DC adapter into the Micro-41 before you plug it into the cigarette-lighter socket, and unplug the adapter from the cigarette-lighter socket before you unplug it from the Micro-41.

Follow these steps to power the Micro-41 from your vehicle's battery.





- 1. Set the DC adapter's voltage switch to
- 2. Attach the 3.4 mm outer diameter/1.3 mm inner diameter barrel plug with the tip set to positive (+).
- 3. Insert the barrel plug into the Micro-41's DC 3V jack. This disconnects any internal batteries.
- 4. Plug the other end of the DC adapter into the vehicle's cigarette-lighter socket.





You can use an optional mono earphone with a 1/8-inch (3.5mm) plug to listen to a tape privately.

Notes:

- · You can also use an earphone to monitor what the recorder picks up through the internal or an external microphone.
- Your local RadioShack store carries a wide selection of earphones.



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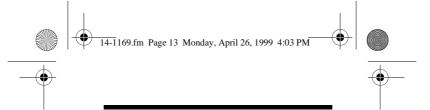












Insert the earphone's plug into the recorder's **EAR** jack. The internal speaker automatically disconnects.



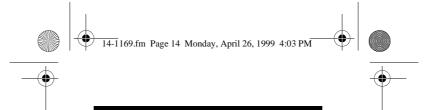


Listening Safely

To protect your hearing, follow these guidelines when you use an earphone.

- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable listening level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.



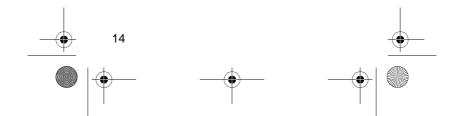


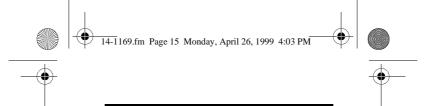
 Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

Traffic Safety

- Do not wear an earphone while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and could be illegal in some areas.
- Even though some earphones let you hear outside sounds when listening at normal volume levels, they still can present a traffic hazard.







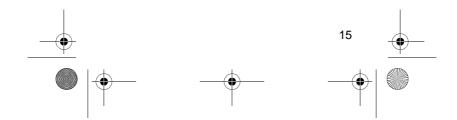
CONNECTING AN EXTERNAL MICROPHONE

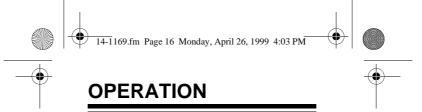
You can use an optional microphone with a $^{1}/_{8}$ -inch (3.5mm) plug to extend the recording range. Your local RadioShack store carries a wide selection of microphones.

Insert the microphone's plug into the recorder's **MIC** jack. The built-in microphone automatically disconnects.







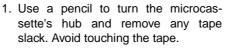


LOADING A MICROCASSETTE TAPE

Note: We recommend MC-60 microcassette tapes for up to 2 hours of recording/playback time, or MC-90 microcassette tapes for up to 3 hours of recording/playback time. We do not recommend long-playing microcassette tapes such as MC-120s because they are extremely thin and can easily tangle in the playback mechanism.



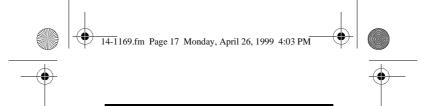
Follow these steps to load a microcassette tape.



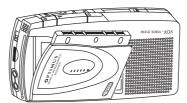


2. Press **STOP/EJECT.** The cassette compartment door opens.





3. Insert the microcassette into the door's guides with the tape's open edge facing out and the full reel positioned toward the top of the recorder.



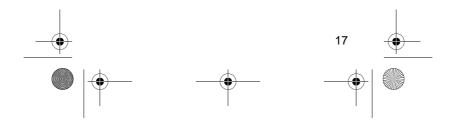
4. Close the door.

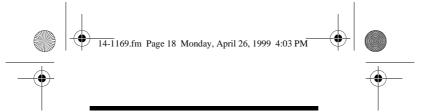


RECORDING

Cautions:

- Do not change the tape speed while recording.
- Do not force down **REC** when a cassette erase-protection tab is not in place (see "Preventing Accidental Erasure" on Page 26).

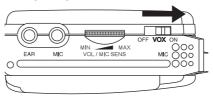




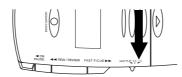
Voice Activated (VOX) Recording

Follow these steps to have the recorder start and stop recording automatically based on sound it detects.

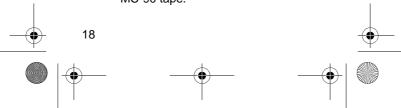
1. Set vox to on.

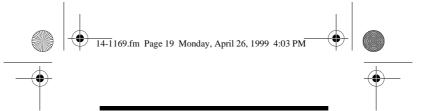


- 2. Load a tape.
- 3. Set **TAPE SPEED** on the side of the recorder as follows:



To double the tape's recording/play-back time, set TAPE SPEED to 1.2.
This setting allows 120 minutes of total recording/playback time on an MC-60 tape, or 180 minutes on an MC-90 tape.



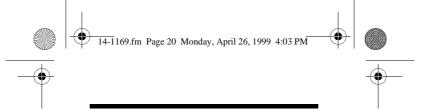


- For better sound quality, set TAPE SPEED to 2.4. This setting allows 60 minutes of total recording/playback time on an MC-60 tape, or 90 minutes on an MC-90 tape.
- Press REC to begin recording. Both REC and PLAY lock down, and the RECORD/BATTERY indicator (to the right of the tape counter) lights.

Notes:

- The VOL/MIC SENS setting determines the sound level that activates
 the VOX circuit and starts recording. At higher settings, a softer
 sound starts VOX recording. At
 lower settings, a louder sound
 starts VOX recording.
- The built-in automatic level control (ALC) automatically sets the recording level once recording starts.
- When you use the VOX feature, recording begins when the recorder picks up sound and stops a few seconds after the sound stops.

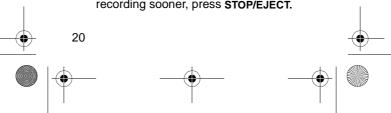


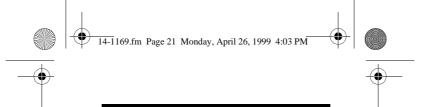


Recording stops when the tape reaches the end of the cassette. To stop it sooner, press STOP/EJECT.

Manual Recording

- 1. Set vox to off.
- 2. Load a tape.
- 3. Set **TAPE SPEED** to **1.2** to double the recording time, or to **2.4** for better sound quality.
- Press REC (PLAY also locks down). Recording starts, the built in automatic level control sets the recording level, and RECORD/BATTERY lights.
- 5. For maximum clarity, place the recorder as close to the sound source as possible, with nothing between the source and the recorder that might block the sound.
- To temporarily stop recording, slide PAUSE to ON. To resume recording, slide PAUSE back.
- Recording automatically stops when the tape reaches its end. To stop recording sooner, press STOP/EJECT.



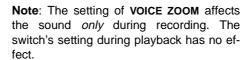


Quick Record

During playback, you can press **REC** to begin recording without pressing **STOP/EJECT** first.

Using Voice Zoom

To record a speaker's voice in a noisy environment, set **VOICE ZOOM** to **ON**. Voice Zoom uses special filter circuits to enhance and separate voices from background sounds resulting in greater voice clarity during playback.

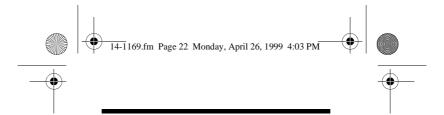


PLAYING A TAPE

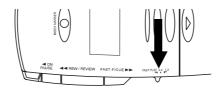
- 1. Load the microcassette tape.
- 2. Set **TAPE SPEED** to the speed used when the tape was recorded.
- 3. To listen to the tape at normal speed, press PLAY. To listen to the tape at



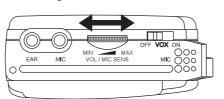




about 30% faster than normal speed, set TAPE SPEED to FAST PLAY.

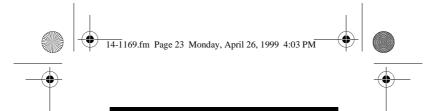


4. Adjust **VOL/MIC SENS** to a comfortable listening level.



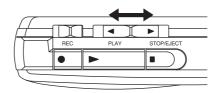
5. Press **STOP/EJECT** to stop playback.





Rewinding/Fast-Forwarding

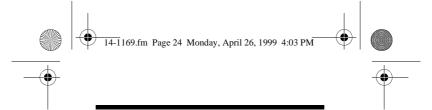
Slide REW/REVIEW FAST-F/CUE to REW/RE-VIEW to rapidly rewind a tape, or to FAST-F/ CUE to fast-forward a tape.



Caution: To protect the tape-handling parts, press STOP/EJECT or slide REW/RE-VIEW FAST-F/CUE to the center when the tape reaches the end.

To hear the tape play as it fast-forwards or rewinds, slide REW/REVIEW FAST-F/CUE to REW/REVIEW or FAST-F/CUE during playback, When you release the switch, normal playback resumes.





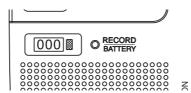
QUICK REVIEW

During recording, slide **REW/REVIEW FAST- F/CUE** to **REW/REVIEW** to hear a portion of what you have just recorded without first pressing **STOP/EJECT** then **PLAY**. Press **REC** to resume recording.

USING THE TAPE COUNTER

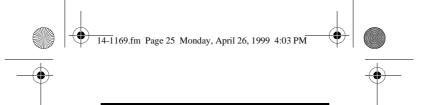


You can use the tape counter to note different locations on your tape during recording or playback.



Before playing or recording a tape, rewind the tape completely and press the counter reset button to set the counter to **000**. As the tape moves, the counter advances.





USING INDEX MARKER

Follow these steps to use **INDEX MARKER** to add a special tone to a tape so you can quickly find that point using the review controls.

- To mark the beginning of a recorded section, press and hold down INDEX MARKER, on the back of the recorder, for at least 3 seconds during recording. RECORD/BATTERY turns off while the Micro-41 records an index marker tone on the tape starting at the moment you press INDEX MARKER. Repeat this step for each desired reference point.
- 2. Once you have completed recording, press **PLAY** to begin play.
- 3. Slide REW/REVIEW FAST-F/CUE to REW/REVIEW to rapidly rewind a tape, or to FAST-F/CUE to fast-forward a tape. As the tape moves while rewinding, you hear the tone index markers you have previously recorded, letting you stop at starting points or separator points in your tape.

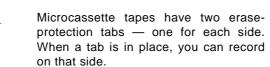




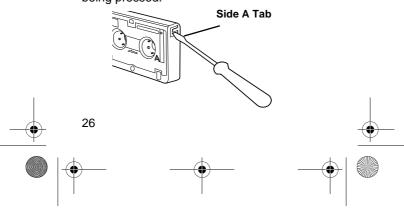
STORING CASSETTE TAPES

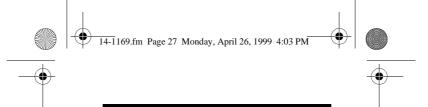
Do not expose microcassette tapes to high temperatures, high humidity, dust or dirt, or motors, transformers, or other sources of strong magnetic fields.

PREVENTING ACCIDENTAL ERASURE



To prevent accidental erasure of a tape recording, use a screwdriver to remove one or both of the cassette tape's erase protection tabs. This prevents **REC** from being pressed.





If you later decide to record on a tape side after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole. Be sure you cover only the hole originally covered by the erase-protection tab.

Caution: Removing the erase-protection tabs does not prevent a bulk eraser from erasing a microcassette tape.

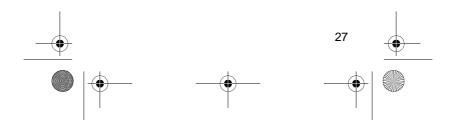


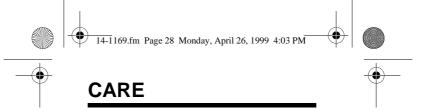
ERASING TAPES

To record over a microcassette tape, simply record as usual. The cassette deck records over the previous recording.

You can quickly erase both sides of a cassette tape using a RadioShack bulk tape eraser.





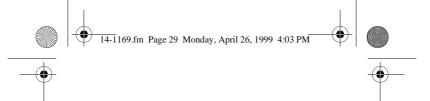


To enjoy your Your Optimus Micro-41 Micro Recorder for a long time:

- Keep the recorder dry. If it gets wet, wipe it dry immediately.
- Handle the recorder gently and carefully. Don't drop it.
- Use and store the recorder only in normal temperature environments.
- Keep the recorder away from dust and dirt
- Wipe the recorder with a damp cloth occasionally to keep it looking new.

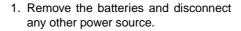
Modifying or tampering with the recorder's internal components can cause a malfunction and might invalidate the recorder's warranty. If your recorder is not operating as it should, take it to your local RadioShack store for assistance.

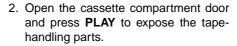


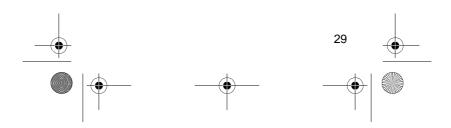


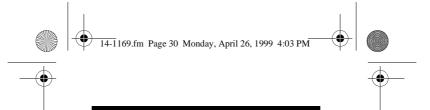
CLEANING THE TAPE-HANDLING PARTS

Dirt, dust or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the Micro-41. After every 20 hours of tape player operation, follow these steps to clean the tape-handling parts or use a RadioShack microcassette deck cleaning kit.

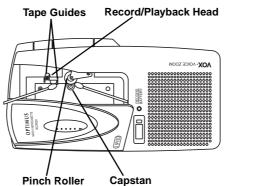








 Use a cotton swab dipped in tape head cleaning solution or denatured alcohol to gently clean the record/playback head, pinch roller, capstan and tape guides.



4. Press **STOP/EJECT** to release the tape-handling parts. Then close the cassette compartment cover and reconnect power.



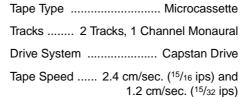












Recording Time (with MC-60 Microcassette):

2.4 cm/sec	30 min. per side
1.2 cm/sec	60 min. per side
Max. Output	270 mW
Frequency Response	400–4,000 Hz at 2.4 cm/sec.
	at 2. 1 011/000.



Internal Batteries 3 Volts DC, Two AA Batteries AC Power 120V with AC Adapter Vehicle Battery 12V with DC Adapter Dimensions (HWD) $5.0 \times 2.5 \times 1.0$ in. $(126 \times 62 \times 26 \text{ mm})$







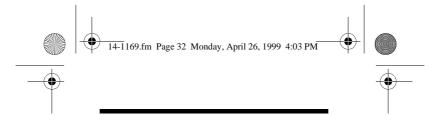










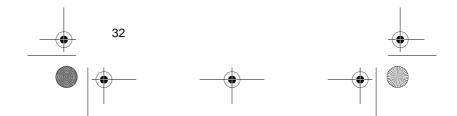


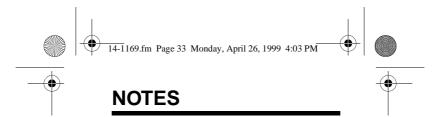
Typical Cassette Recording Time (with Alkaline Batteries) 18 Hours

Weight (with batteries) ... 7.0 oz (198.45 g)

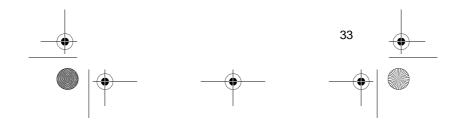
Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

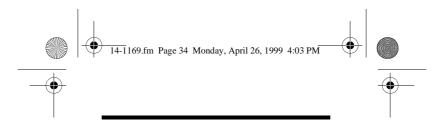




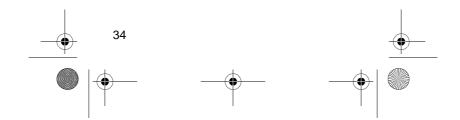














Limited Ninety-Day Warranty

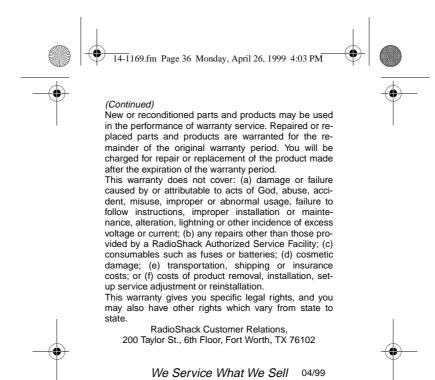
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In the event of a product defect during the warranty pe-

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