

# THE COMPACT DMR-60

## PA Model

### OPERATING INSTRUCTIONS



Prior to connecting your COMPACT DMR-60PA we recommended that you read through these instructions from beginning to end to familiarize yourself with the installation and operation of the device.

In order to validate the warranty, please be sure that the enclosed Warranty Registration form has been filled out.

### OVERVIEW

The Compact DMR-60PA is a solid-state monaural audio recording and playback device that operates much the same as a tape recorder. Because it is solid state there are no parts to wear out, ensuring year after year of trouble-free service, with no loss in fidelity.

The Compact DMR-60PA is capable of recording and storing audio tracks with a duration of up to 60 seconds total. Audio is loaded into the Compact DMR-60PA from a line level audio source (tape deck, walkman, etc.) and converted into a digital format and stored on digital PROM memory chips. (Similar to tape-to-tape recording) Memory is completely non-volatile, ensuring messages are safe even during extended power failures.

On playback, audio is converted back into it's original (analog) form. The internal amplifier allows the Compact DMR-60PA to be played back directly into a conventional audio speaker with no need for additional equipment. Playback is initiated using a number of different methods, whether from the front control panel or from a wide variety of external switches (including motion sensors, etc.).

With built-in PowerSaver circuitry, power is shut off to the unit between play cycles, allowing the system to be used effectively in solar and battery powered applications where power consumption is critical.

At Stop and Listen we have gone to great lengths to ensure that your new Compact DMR-60PA represents the ultimate in durability and ease of use. As you become more familiar with the Compact DMR-60PA you will find that the on-board recording features can add a whole new dimension to your application. You will soon be able to communicate much more effectively with your audience.

### CONFIGURATION

Your new Compact DMR-60PA can be configured for either Single Play or Continuous Play (auto-repeat), depending on how an internal jumper block has been set. Refer to the section 'RESETTING PARAMETERS' for more information on changing the internal configuration. This unit has been pre-configured prior to shipping for Single Play. In this mode, pushing the external start button will initiate the play cycle. Subsequent pushes while the unit is playing will NOT re-start the play cycle. When the end of the message is reached the unit will reset automatically and wait for the next start input.

If you re-configure the jumper block for Continuous Play mode, the unit will play the audio track to the end, then reset automatically to the beginning and start over again. A jumper across the external start switch contacts is required in this mode. This feature is beneficial when the unit is to be used for continuous announcements or for background sound effects.

This unit has been pre-recorded with a sample audio track during the manufacture process. Settings should only be changed by a qualified service technician.

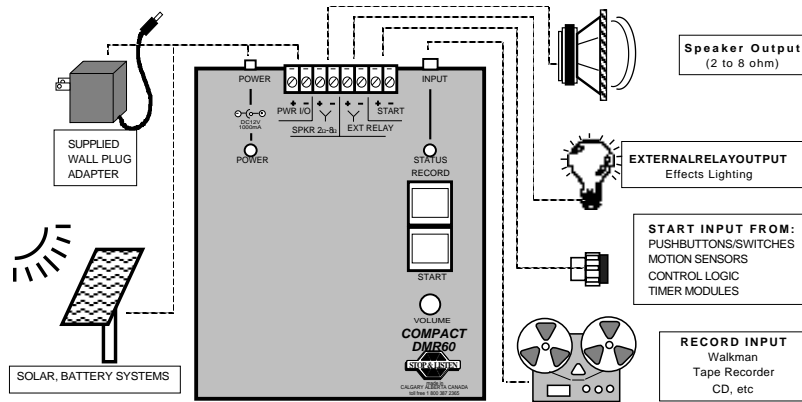
**MAKING AUDIO EASY...**

**STOP & LISTEN**

**OVERVIEW**

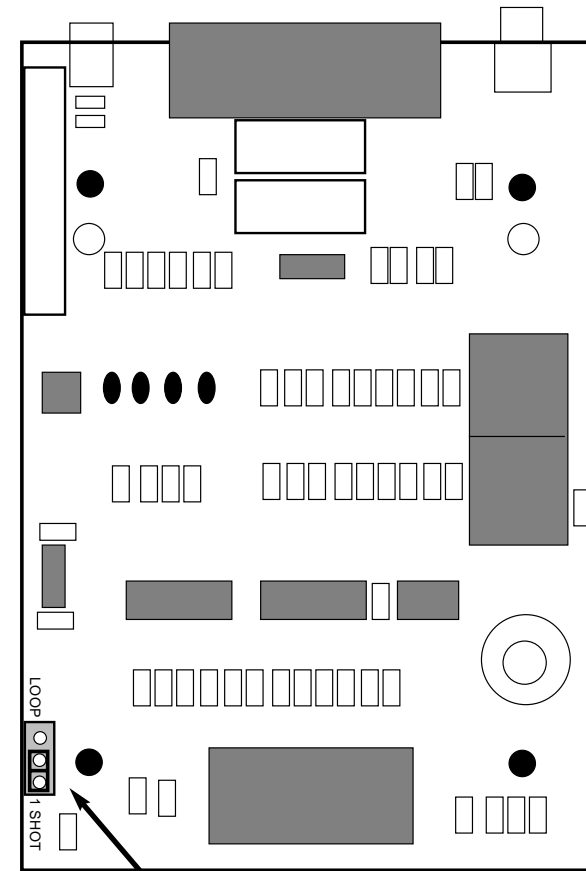
**STOP & LISTEN**

# WIRING CONNECTIONS



- POWER -** requires 12 volt DC. Plug the supplied wall-plug adapter in here. (center pin is positive). Because the unit employs PowerSaver circuitry the Power indicator light will NOT come on unless the unit is playing a message.
- POWER -** (on strip) extra input, used for power input in the case of solar- or battery-powered applications. 12VDC, fused. See POWER above
- SPKR -** Audio output connection. Connect to loudspeaker or other output devices. Check and maintain polarity. Can drive loads with impedances as low as 2 ohms.
- Ext RELAY -** Used for lighting effects, etc. Can provide (source) up to 100mA @12VDC for powering relay coils, LED's. Active during play cycle.
- START -** connect to external start switch, motion sensor, etc. Typically a pushbutton switch is used. If continuous play (auto-looping) is desired, the unit should be re-configured on this basis. A jumper wire is required across the external switch contacts for continuous play. Refer to to the section 'RESETTING PARAMETERS' for information on re-setting the configuration.
- INPUT -** Audio input for recording. Use included audio patch-cords to connect from Line-Out or headphone output of audio source. Typically a walkman or cassette player is used with a pre-recorded audio tape.  
*N.B: Unit incorporates a 'Record Lock-out' feature and will not record unless there is a cord plugged into the input jack*

**RESETTING PARAMETERS** - the diagram below outlines the location of the jumper block on the printed circuit board that can be re-positioned to change the operating mode of the Compact DMR-60PA. Use needle nose pliers to pull the block from the position shown and to place it in the alternate position. Factory (shipping) setting is shown by default. Ensure power is disconnected prior to opening case.



**1-SHOT vs LOOP**  
Refers to operating mode. Normally set at 1 SHOT (single play mode). Set to LOOP (auto-repeat) mode for continuous play applications. Unit must be started manually 1st time to reset internal logic.



## RECORDING MADE EASY

- 1) Connect source (via patch cord\*) to input jack. Green POWER indicator will turn on. Audio can now be monitored through the external speaker
- 2) While holding down the RECORD button, press and release the START button and start the audio source. (The red STATUS indicator will be lit during recording.)
- 3) Release the RECORD button when you have finished recording. The STATUS indicator will go out when you have finished recording or when memory is full, whichever occurs first.
- 4) Disconnect the source ( patch cord\*) from the unit. The green POWER indicator will go out as the unit reverts to PowerSaver mode.

**THAT'S IT !** Your recording is now held in digital memory and will remain so until you wish to record something else. The COMPACT DMR-60PA will retain this message in memory indefinitely.

### NOTES

\*The COMPACT DMR-60PA incorporates 2 separate safety features to prevent accidental recording or erasure of messages. In order to record a message there **MUST** be a connection made at the INPUT jack of the unit itself. The RECORD button must also be held down. If either of these conditions have not been met, the unit will NOT record.

The COMPACT DMR-60PA has a monitor feature that allows you to hear what is being recorded on the external speaker. If distortion is apparent through the monitor feature, the input level is too high and should be reduced accordingly. (Otherwise extreme distortion may occur on playback due to "digital clipping"). A good rule of thumb is to use as much input level as possible without going into clipping. It is not possible to damage the unit by overdriving the input.

In continuous play mode it is necessary to start the unit manually *for the first playback cycle only* after recording in order to establish the proper logic control in the microprocessor. Thereafter the unit will restart on power-up and enter the continuous play mode automatically.

Recordings must be terminated prior to reaching the end of memory to use this mode.

## PLAYBACK !

Press the START button to begin playback and set the VOLUME control to the desired listening level. The external start switch can also be used to start playback at this point. If output volume is low, try increasing the output level of the source during recording. Remember to set the output level so that listeners can hear the message clearly even when things get crowded.

The green POWER indicator light will turn on during playback, then turn off when the playback cycle is completed, indicating the unit has reverted to the PowerSaver mode.

If the unit has been configured for Single Play mode, playback is initiated by either pressing the START button on the front of the unit or by pressing the external start switch (N.O.switch). Subsequent attempts to start the unit during a play cycle will be ignored. When the end of the message is reached the unit will reset automatically and wait for the next start input. This mode is recommended for areas where users will activate the message by their presence

If you re-configure the jumper block for Continuous Play mode, the unit will play the audio track to the end, then reset automatically to the beginning and start over again. A jumper wire is required across the external start switch contacts in this mode. This feature is beneficial when the unit is to be used for continuous announcements or for background sound effects. After recording it is necessary to start the unit once manually from the front panel to reset the internal logic.

(TIP - If a delay is desired before the audio track repeats itself, simply leave a bit of blank space at the beginning or end of the audio track when making the recording.)

DIFFICULTIES?? - CALL OUR TECHNICAL SUPPORT LINE

TOLL FREE  
1-800-387-2365

RECORDING MADE EASY

STOP & LISTEN

PLAYBACK !

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## OTHER FEATURES

### INTERNAL FUSING

The COMPACT DMR-60PA is internally fused using a 1Amp Type 3AG fuse. The most common reason why the fuse trips is because either the power polarity is incorrect or there is a short-circuit in the external wiring. Replace only with same type fuse.

### POWER SAVER CIRCUITRY

Every COMPACT DMR-60PA incorporates PowerSaver circuitry that forces the unit into a 'sleep' mode when the unit is not active. The unit powers up only when it receives either a Start or a Record input. This feature becomes critical when the unit is installed using solar or portable power sources. Under normal operation the Power indicator light will only come on when the unit is 'active'. Typical savings in power average 90% and better. To determine solar panel and or battery requirements, consult Stop and Listen

### RECORD LOCK-OUT FEATURE

The COMPACT DMR-60PA incorporates a RECORD LOCKOUT in the internal circuitry to prevent accidental erasure of the recorded message. An RCA cord MUST be plugged in to the LINE IN jack or the unit will not enter the RECORD mode.

### REMOVABLE CONNECTOR BLOCK

The connector block on the COMPACT DMR-60PA is removable to facilitate easy changing of the COMPACT DMR-60PA. Use a small screwdriver to gently pry the connector towards the back of the unit. To reconnect, simply plug it back in

### WALL MOUNTING

To wall mount the unit, simply attach angle brackets, available at most hardware stores, to the 4 chassis screws on the sides of the unit and then fasten to mounting surface.

## CARE AND CLEANING

Your new COMPACT DMR-60PA has been designed and constructed for the utmost in quality and durability. Because of it's 100% solid-state design, the only thing you should ever have to do is dust it with a dry cloth. A cloth dampened with a mild soapy water solution can also be used. Do not immerse the unit in water.

If any of the cords become damaged or frayed they should be replaced immediately to avoid damage to the equipment or any peripheral devices.

Where the equipment may be subject to extreme humidity or free standing water, the unit should be enclosed in a water-tight and dust-proof enclosure. These can be found (typically stocked) at an electrical supply store. All connections to outside equipment should be through the bottom of the enclosure through a "gland nut" packing or equivalent water-tight connector.

Where substantial vibration is anticipated the units should be shock-mounted using appropriate fasteners and all associated wiring and connections should be well secured.

## Specifications: Compact DMR-60PA

Single Message Recordable Playback device. Non-volatile digital storage.

Frequency Response	50 Hz-3.4 KHz
Message Capability	Single Message up to 60 seconds
Audio Input (Record mode)	Line level - 200mV to 1.0V P-P
Indicators	RECORD Status, POWER Status
Audio Output	6 watts RMS @ 4 ohms, 2-16 ohm load
Memory Type	Re-recordable Non-volatile PROM
Digital Sampling Rate	8 KHz
Memory Backup	not required, 100+ year retention
A/D Conversion Method	Proprietary Analog mapping
Start Input	Mom. contact closure for single play internal jumper for continuous play
Connectors	RCA input, 8 pos. ejection style header
Power Consumption	350 mA @ 12VDC in playback 20uA in PowerSaver* mode
Solar/Battery Compatibility	100% compatible
Power Supply	12VDC nom. @1000mA,120VAC source
Construction Standard	Industrial/Commercial
Operating Temp	-20°F to +130°F (-30°C to +55°C)
Dimensions, Weight	4.00"w x6.00"d x1.25h, 1.8 lb
*PowerSaver	circuitry shuts down between play cycles
Warranty	5 year parts and labor

### WARRANTY

This Stop and Listen Inc. product is warranted against defects in workmanship and materials. If any failure resulting from a defect in either workmanship or material shall occur under normal use within 5 years from the original date of purchase, such failure shall be corrected free of charge to the original purchaser by repair or, at Stop and Listen Inc.'s sole option, replacement of the defective part or parts. No charge shall be made for labor or services performed during said 5 year period providing the product is delivered to an Authorized Service Center. This warranty does not cover equipment which has been tampered with in any way, or damage caused by accident, negligence, alteration, or misapplication. This product must be returned transportation prepaid, properly packed and insured. This warranty applies only to the original purchaser.

NO OTHER WARRANTIES ARE EXPRESSED OR IMPLIED. STOP AND LISTEN INC. IS NOT LIABLE FOR CONSEQUENTIAL DAMAGES.

OTHER FEATURES

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