

"WALKIE-RECORDALL" OPERATING INSTRUCTIONS

CAUTION: Do not touch any switches or controls until you have read the entire set of instructions and understand same.

CAUTION: The groove finder, or round disc at the right of control panel, may be turned ONLY while the "Rec.-P.B.-Lift" switch is in "Lift" position. Otherwise damage may be caused to the stylus, sound head, and/or film.

CAUTION: Take at least two or three seconds to switch from "Lift" to "P.B." position. This switching knob is engraved "SLOWLY" as a reminder to insure the stylus SLOWLY and GENTLY coming in contact with the film. Otherwise the stylus, sound head, and film will be damaged.

NOTE: The right hand black rubber drive roller should be cleaned occasionally to prevent an accumulation of dust or lumps of dirt. This dirt, if left on the roller, would cause the Sonaband to turn irregularly, and thus result in discontinuous recording and playback skips or repeats. The tip of the stylus should also be kept free of dirt to insure good uniform recording without skips or repeats.

NOTE: Keep unit clean by closing cover as much as possible.

BRIEF DESCRIPTION

This instrument is a combination battery-operated recorder and reproducer. The recording is made on a plastic band (Sonaband) by means of a dual-purpose (recording and playback) stylus at the right of the Sonaband. As the Sonaband rotates, the stylus is automatically moved from the top or beginning to the bottom or end of the Sonaband, in approximately 90 minutes. The numbers on the Groove Finder are synchronized with the stylus position. When the stylus is at the top or beginning of the Sonaband, the counter attached to the Groove Finder should read 000. By the time the stylus has transversed or gone to the bottom or end of the Sonaband, the Groove Finder will read approximately 500. Thus, each number represents approximately 10 seconds of recording time. The instrument is converted instantly from a recorder to a playback unit by turning the knob of the "Rec.-PB-Lift" switch (knob marked "SLOWLY" at left of control panel) from "Rec." to "PB". When this switch is in "LIFT" position, the stylus is lifted or moved away from the Sonaband. With the stylus thus lifted or freed from the Sonaband, its position along the Sonaband (beginning or top to end or bottom) and the corresponding numbers on the counter may be changed by turning the disc or knob on the Groove Finder which is at extreme right of control panel near counter.

CAUTION: Turn the disc or Groove Finder only in "Lift" position. Otherwise, stylus, Sound head and/or Sonaband may be permanently damaged. Similarly, remove or replace Sonaband only in "LIFT" position. When switching from "LIFT" to "PB" or "Rec." positions, the stylus is again brought into contact with the Sonaband. To avoid snapping the stylus down hard on the Sonaband, make the contact gently by switching very slowly from "LIFT" to "PB" or "Rec." RD with Volume Indicator barely flashing. The flashing of the Neon (Volume Indicator) should only be on LOUD signals, never on softly spoken words. Practice as follows: In a loud tone of voice say "HELLO" and in a lower tone of voice say "this is Mr.talking". The neon light should only flash on the one word "HELLO" and not at all on the rest of the sentence. Experiment a bit in this manner and you will get the MOST SUCCESSFUL results. Our tests gave best results with a recording volume of $2\frac{1}{4}$.

ON-OFF or START-STOP switch is on the outside of the cabinet near the carrying handle. When unit is kept in MILES BRIEF CASE, place unit so that the ON-OFF knob faces the zipper opening of the Brief Case, so as to conveniently START and STOP recording with bag closed, unnoticed to the other person. Turning knob clockwise puts motor

and amplifier on immediately.

SOUND INSULATING PAD must be placed at the left side of the brief case between the microphone pocket and the recorder. This is necessary to eliminate recording the motor noise or an acoustical feed-back squeal, when the recording volume control is too high.

MIKE may be concealed as follows: Push plug of mike through slot from outside of bag, and before placing unit into bag, plug mike into jack inside lower lid of the "WALKIE-RECORDALL" by pushing plug towards left all the way until a click is heard, (for good contact). To remove mike plug, push end of plug with forefinger of left hand towards right and with right hand gently pull on the bakelite piece, not on cable. If microphone is ever removed and replaced in brief case, make sure to replace it exactly as it was originally. The microphone openings should be facing the outside of the brief case directly through the slots in the microphone pocket; and the microphone openings should NOT be covered with the sound insulating material.

SPEED CONTROL KNOB directly at right, inside upper lid is turned to the right, clockwise, for faster playback or recording, and to the left for SLOWER operation. Normal recording position of pointer is approximately straight up. If the speed control is set too far to the left (too slow), the motor may fail to start when the switch is turned on. If this occurs, use fresh motor batteries, set the speed control faster, or help the motor to start by turning the right hand drive roller slightly counter-clockwise (normal rotational direction).

EARPHONES or EXTERNAL LOUD SPEAKER of any size may be inserted into jack marked "EAR PHONES". As soon as the EARPHONES are plugged in, the built in speaker is silenced. Or you may keep the plug just halfway plugged into jack and you will hear both earphones and loud speaker. The earphones usually sound better this way. A large (6" or more) external loud speaker usually gives the best results.

COUNTER SETTING is synchronized with the needle or stylus. To retain this synchronization never turn the Groove Finder less than the counter setting of 000 or ~~make~~ ^{above} them 500. The Groove Finder should only be turned when the "Rec.-P.B.-Lift" switch is in "Lift" position; and it should be turned very slowly and carefully when the stylus is near the beginning or end of the Sonaband. Counter reading may be adjusted, when disorganized, as follows: guide stylus to allow approximately 1/8" top margin of film (switch in "LIFT" as you turn knob or disc). Then loosen center screw on disc with a dime or a screwdriver. Turn disc or knob until a reading of 000 is obtained. Then re-tighten screw and the counter is again synchronized with stylus.

SONABANDS are placed in position with their red mark towards you and on the outside of the Sonaband. If necessary Sonabands may be recorded on both sides. However, they are easier to identify and give much better results if used on one side only. The outside of the Sonaband is smoother and has a better recording surface than the inside. Thus it is desirable to identify the Sonabands by writing a number with a China Marking Pencil on their inside surface. Sonabands may be filed or stored one inside the other and partially rolled if necessary. Sonabands are NOT to be placed in an envelope, folded, crushed, creased, or bent in any way. They should be kept clean and free from damage by placing them in a box one inside the other (as they are originally supplied). New Sonabands should be taken from the inside of the batch, since the outermost Sonaband will invariably be the dirtiest.

TO REMOVE SONABANDS from unit first turn "Rec.-P.B.-Lift" switch to "Lift". This will lift stylus from Sonaband. Then turn the tension roller knob (directly above "Rec.-P.B.-Lift" knob) clockwise, until it is directly along the crossbar, where it will snap and hold in place. Do not force the knob below the crossbar. Now, being very careful not to touch the stylus with the Sonaband or your fingers, grasp the top right hand edge of the Sonaband with forefingers of right hand and the left edge of

the Sonaband with forefingers of your left hand. Carefully remove the Sonaband by lifting, gently and evenly with both hands.

TO PLACE SONABANDS ON RECORDER keep switch in Lift position as before and tension roller knob snapped in position along the crossbar (horizontal). Hold Sonaband with both hands with red mark towards you on outside of Sonaband. Very carefully and without force drop Sonaband evenly over the two rollers. Be carefull not to touch stylus with fingers or the Sonaband. Make sure the right edge of the Sonaband rests against the shiny portion of the metal collar on the right hand drive roller, and that the Sonaband is not too far down on the tension roller at the left. The tension roller at the left must now be unsnapped and allowed to draw the Sonaband taut. Grasp the tension roller knob firmly and turn it counterclockwise slightly just until it unlocks. Then slowly remove hand, allowing the tension roller to continue drawing the Sonaband taut by means of its own concealed spring pressure. With the stylus still in Lift position, start the motor so as to permit a few turns of the Sonaband for self-alignment. With the stylus still in Lift position, turn the Groove Finder back to 000 or any other desired part of the Sonaband. Then you may very slowly switch to "P.B." for playback or "Rec." for recording.

RECORDING is accomplished by placing knob marked "SLOWLY" in "Rec." position and setting the Volume Control LOW enough so as to get a blinker of the Volume Indicator light only on a LOUD signal. Record with volume control set at approximately $2\frac{1}{4}$. Tone and speed controls should be set straight up for average recordings. Keep mike at left of machine rather than in front or to the right of machine. In noisy offices or on trains, etc., mike may be kept in upper pocket (coat or vest) and noises are minimized, yet recording is clear. Observe same rule as to volume control as mentioned before, as too high a recording volume setting ruins the recording fidelity; and may produce a squeal or feedback if mike is too close to unit when unit does not have enough acoustical insulation (sound insulating pad) or top cover is not closed.

PLAYBACK Loud speaker or earphone, as desired. Volume may be adjusted and speed may be slowed down to aid typist. The tone control may also be varied to give best results. Ordinarily, the groove finder may be turned ONLY with the stylus in "LIFT" position (away from film). The one permissable exception to this rule is while playing back or listening to the film ("P.B." position with the motor ON) the groove finder may be turned SLIGHTLY CLOCKWISE-just enough to tune the stylus exactly into a groove. Or possibly to repeat a groove, although this may cause poor tracking on future play backs. If motor fails to start, set the speed control faster, replace motor batteries, or help motor start by pushing drive roller slightly counter-clockwise.

NOTE: The black rubber drive roller at the right, which turns the film, should be kept absolutely clean. This will insure even, accurate, groove spacing and tracking. Otherwise there might be skips or blank spots in the play back. To remove dust, or lumps of dirt from this roller, set the stylus in "Lift" position, remove the film (Sonaband); and start the motor. Clean with a toothbrush, or scrape roller clean with the edge of a card, used as a knife, held at the left side of the roller (away from delicate stylus). It is especially important to remove the hard to get at dirt that is at the very bottom part of the roller where it meets the shiny metal collar. The tip of the stylus should also be kept clean. Pick the dust off with a soft moistened watercolor brush. Be very careful not to push or strain the stylus in any way.

NOTE After cleaning the drive roller and stylus, it is advisable to turn unit upside down with the cover open and shake or blow out loosened dirt.

NEAR-END SIGNAL A red light (see jewel on top of unit near handle) lights up when stylus is approximately 10 minutes from end of Sonaband. Motor stops automatically when stylus is at end of Sonaband. Switch must be turned to "OFF" as soon as recording or playback has been finished to conserve batteries. To start motor again, switch to "ON" and "LIFT"; and turn Groove Finder clockwise, or back, one half turn or so.

TELEPHONE 2-way conversation may be recorded with "MILES TELEMIKE" held up against top of earpiece of any telephone (pay phone, desk, wall, etc.) or TELEMIKE may rest directly under and across cradle desk type. Keep telenike at least 5 feet from recorder to avoid recording extraneous hum.

SEE PRICE LIST FOR COMPLETE LINE OF ACCESSORIES

MILES REPRODUCER CO., INC.

812 BROADWAY, NEW YORK 3, N.Y. Spring 7-7670