



MACAW Tutorial

for all 128-key keyboard MACAWs

f•1 through f•10 are the GREEN programming keys along the top of the machine. This function line also holds six other function keys—three located under "ZYGO" and three located under "MACAW". The Message Keys are the white keys numbered 1 through 128.

1. RECORDING MESSAGES

The red light next to the microphone should light up and stay on while you are talking

- Switch to RECORD (on back or side)
- Press Function Key #5 followed by Message Key #3
- Press and HOLD Message Key #1 while speaking—
"I'd like to go outside."
- Release the Message Key when you're finished talking
- Switch to PLAY (on back or side)
- Press Message Key #1 to hear message you recorded

Practice...practice...practice...

Put on the overlay for LEVEL #1, or insert behind key surround.

NOTE:
You can record ALL messages while in RECORD, then switch to PLAY to listen to them.

Message Key #3	<i>"It's a beautiful day."</i>
Message Key #5	<i>"Let's go sit in the shade."</i>
Message Key #7	<i>"That looks great to me."</i>
Message Key #9	<i>"I'd like to go inside now."</i>
Message Key #11	<i>"What do you think about it?"</i>
Message Key #13	<i>"I definitely agree."</i>
Message Key #15	<i>"Here comes a friend of mine."</i>
Message Key #33	<i>"I need some help, please."</i>
Message Key #37	<i>"My mom's name is Sue."</i>
Message Key #39	<i>"I am in Ms. Juliette's class."</i>
Message Key #41	<i>"I have a big dog named Ginger."</i>
Message Key #43	<i>"I'm in the 3rd grade at Ainsworth Elementary."</i>
Message Key #45	<i>"I love you!"</i>

NOTE:
You can record ALL
messages while in
RECORD, then switch to
PLAY to listen to them.

2. To RE-RECORD MESSAGES

- If the new message is the same length or shorter than the original message, simply repeat Step 1.
- Re-record the following—

Message Key #7 *"That's a great idea!"*

Message Key #9 *"I'm ready to go inside."*

Message Key #11 *"I can't decide right now—what do you think?"*

- Return to PLAY to listen to the new re-recorded messages.
- Message Key #11 may not play back the entire new message because—

The Message Key will not hold any words spoken over the initial time used to record in that key.

- To correct this, follow the procedure for EXTEND RECORDING (step 3).

3. EXTEND RECORDING TIME

- Switch to RECORD (on back or side)
- Press **f•5** (SELECT MODE)—*green key—hear 2 beeps*
- Press Message Key #116 (EXTEND RECORDING)—*hear 2 beeps*
- Press and HOLD Message Key #11 and speak—
"I can't decide right now—what do you think?"
- Switch to PLAY (on back or side)
- Press Message Key #11 to hear the entire newly recorded message.

Practice...practice...practice...

- Practice re-recording the following messages over the old ones. If the message gets cut off during the recording process (*the red light next to the microphone goes off*), you must use the EXTEND RECORDING procedure outlined in step 3.

Message Key #1 *"Would you like to go outside with me?"*

Message Key #3 *"It's a beautiful day to be outside in the sunshine."*

Message Key #5 *"It's too hot in the sun...let's go sit in the shade."*

4. COPYING

- Switch to RECORD (on back or side)
- Press f•2 (COPY)—*green key*
- Press the Message Key to be copied—Message Key #33
- Press the key where the message is to be copied—Message Key #35
- Switch to PLAY (on back or side)
- Listen to the message that now is recorded into both Message Keys #33 and #35.

Practice...practice...practice...

- Practice copying the following, remembering to repeat the string of steps for EACH time the message is to be copied.

COPY Message Key #33 to Message Key #65
COPY Message Key #33 to Message Key #67
COPY Message Key #45 to Message Key #47
COPY Message Key #45 to Message Key #77
COPY Message Key #45 to Message Key #79

NOTE:

You can copy ALL messages while in RECORD, then switch to PLAY to listen to them.

5. KEY LINKING (SEQUENCING KEYS)

- Switch to RECORD (on back or side)
- Press f•8 (LINK)—*green key*
- Press Message Key #41 followed by Message Key #1
- Press and HOLD DOWN f•9 (RECORD)—*green key* while speaking—

"Ginger wants to go outside."

- Switch to PLAY (on back or side)
- Press Message Key #41 followed by Message Key #1 to hear the recorded message.

Practice...practice...practice...

- Practice storing the following LINKED messages.

Message Key #41 then #7 *"Ginger is a good dog!"*
Message Key #39 then #7 *"My teacher is GREAT!"*
Message Key #73 then #75 *"My baby sister is at home."*

Message Key #43 then #43 *"Where do you go to school?"*
Message Key #41 then #41 *"Do you have a dog?"*
Message Key #15 then #15 *"Will you be my friend?"*

Remember—you must press f•8 first, followed by the exact sequence in which you want to store the message—then record while holding down f•9

NOTE:

You can LINK a key to itself—1 hit for the first message, 2 hits for the second, etc..

6. TALK / REPEAT

4 beeps signals function ON...
2 beeps signals the function is
turned OFF.

- Switch to RECORD (on back or side)
- Press f•5 (SELECT MODE)—*green key*
- Press Message Key #113 (TALK / REPEAT)
- Switch to PLAY (on back or side)
- Now, whenever Message Key #113 is selected, it will REPEAT the last string of message keys that had been spoken.

7. SILENT SELECT

4 beeps signals function ON...
2 beeps signals the function is
turned OFF.

- Switch to RECORD (on back or side)
- Press f•5 (SELECT MODE)—*green key*
- Press Message Key #114 (SILENT SELECT)
- Switch to PLAY (on back or side)
- Once "activated" by this procedure, the function can be turned on or off while in PLAY by pressing Message Key #114 (SILENT SELECT).

When ON— the Message Keys will be selected silently and will speak when TALK is pressed

When OFF— the Message Keys will automatically speak when selected

Practice...practice...practice...

- Practice REPEATING message strings using the TALK / REPEAT key.
- Practice turning on and off the SILENT SELECT key (while in play) and "speak" messages, noting the difference when SILENT SELECT is ON versus OFF.
- When finished, return to RECORD and de-activate both functions. (Follow the steps above to toggle on or off.)

8. RECORDING a 2nd LEVEL

- Switch to RECORD (on back or side)
- Press f•4 (SET LEVEL)—*green key—hear 2 beeps*
- Press Message Key #9 to represent the next LEVEL
- Press f•5 (SELECT MODE) followed by Message Key #3 (32 keys)

Put on the overlay for LEVEL #9a, or insert behind key surround.

- Record the following messages—

Message Key #1 *"I'd like some more fruit, please."*

Message Key #5 *"I want some vegetables."*

Message Key #9 *"I'm ready for a drink of milk."*

Message Key #13 *"Can I have a bite of the meat?"*

Message Key #65 *"Yumm...this is really good."*

Message Key #69 *"I'm ready for dessert."*

Message Key #73 *"Can I have bread now?"*

Message Key #77 *"Yuck! I don't like that!"*

- Switch to PLAY (on back or side)
- Press each Message Key to check messages.

NOTE:
You can record ALL
messages while in
RECORD, then switch to
PLAY to listen to them.

9. To CHANGE LEVELS— facilitator changes LEVELS using RECORD

- Switch to RECORD (on back or side)
- Press **f•4** (SET LEVEL)—*green key—hear 2 beeps*
- Select Message Key #1—*hear 2 beeps*
- Switch to PLAY (on back or side)
- MACAW is now set to LEVEL #1 and will speak all previously recorded messages on this page.

Repeat the procedure using Message Key #9 to change to the "food" LEVEL

10. To ACTIVATE SELECT LEVEL function on the keyboard

- Switch to RECORD (on back or side)
- Press **f•5** (SELECT MODE)—*green key*
- Press Message Key #128 (SELECT LEVEL) to activate this function key on the keyboard
- Switch to PLAY (on back or side)

4 beeps signals function ON...
2 beeps signals the function is
turned OFF.

11. To CHANGE LEVELS— user accessible, while in PLAY mode

Be sure the unit is in PLAY.

- Press Message Key #128 (SELECT LEVEL)—*hear 1 beep*
- Select Message Key #1 to select that level—*hear 2 beeps*
Select the Message Keys to speak the recorded messages from LEVEL #1
- Press Message Key #128 (SELECT LEVEL)—*hear 1 beep*
- Select Message Key #9 to select that level—*hear 2 beeps*
Select the Message Keys to speak the recorded messages from LEVEL #9, the "food" page.

Practice...practice...practice...

- Practice switching between LEVELS while in PLAY mode (using the procedure in step 11)
- Practice switching between LEVELS while in RECORD mode (using the procedure in step 9)

12. SET UP LARGER MESSAGE AREAS (enlarged key patterns)

Put on the overlay for LEVEL #9, or insert behind key surround.

- Switch to RECORD (on back or side)
- Press **f•5** (SELECT MODE)—*green key*
- Press Message Key #5 to set the MACAW into its 8-cell (2 rows x 4 columns) key pattern.
- Switch to PLAY (on back or side)
 - Put the overlay on for LEVEL #9b.
- Select different Message Keys and observe—

Row 1, column 1 (16 keys) says	<i>"I'd like some more fruit, please."</i>
Row 1, column 2 (16 keys) says	<i>"I want some vegetables."</i>
Row 1, column 3 (16 keys) says	<i>"I'm ready for a drink of milk."</i>
Row 1, column 4 (16 keys) says	<i>"Can I have a bite of the meat?"</i>
Row 2, column 1 (16 keys) says	<i>"Yumm...this is really good."</i>
Row 2, column 2 (16 keys) says	<i>"I'm ready for dessert."</i>
Row 2, column 3 (16 keys) says	<i>"Can I have bread now?"</i>
Row 2, column 4 (16 keys) says	<i>"Yuck! I don't like that!"</i>

Practice...practice...practice...

- Practice setting the unit into 2-, 4-, 8-, 16-, 32-, 64-, and 128-key message patterns and observe which messages are "active" and which are masked by the selection of different key patterns
- Note that—
 - ✓ the LED will light up in the UPPER LEFT corner of the designated pattern
 - ✓ the message recorded in the UPPER LEFT corner masks the other messages that were previously recorded into the enlarged key
 - ✓ these "other messages" are not gone—but simply masked by the designated key pattern chosen
 - ✓ return to the 32-key pattern and notice that no messages have been erased

13. SELECTING A SCANNING METHOD

- Switch to RECORD (on back or side)
- Press **f•5** (SELECT MODE)—*green key—hear 2 beeps*
- Press the numbered Message Key for the desired scanning method as indicated on Message Keys #17-24

#17 Manual Linear Scanning (Step and Directed).

Each activation of the switch advances the scan one LED (key or cell) at a time (Step). Or, the switch is activated and held closed for the scan to advance through the LED's (keys or cells) automatically until the switch is released (Directed—some call this method inverse scanning)

#18 Automatic Linear Scan. Activating the switch begins the scan, a second activation makes the selection

#19 Block/Row/Column Scan. The switch is actuated to start the scan. The scan will alternate between lighting all the LED's in the left half and all the LED's in the right half of the MACAW. The second actuation begins a row scan of the selected half—the third actuation causes the LED's in the selected row to light one-at-a-time—and the fourth actuation selects the Message Key

#20 Row/Column Scan. The switch is actuated to start the scan. The second actuation will choose the row and the LED's will move across the chosen row column-by-column—the third selection will choose the Message Key.

#21 Multi-Switch Directed Scan. Four switches are used to direct the scan in right, left, up, or down modes. A fifth switch may be used as an Enter function. This method can be used with a joystick, or with two or three switches.

#22 Auditory Scan. This method adds an auditory cueing component to the visual scan. Refer to the manual for directions on how to choose either: total message repetition, repetition of part of the message, and whether the auditory cue is at the same volume as the output, a reduced (private) volume, or sent through an earphone.

#23 Morse Code Access. Morse Code characters are used to select keys on the front panel. Each Message Key corresponds to a Morse Code character and, when that character is entered, the message (not the Morse Code letter or number) will be spoken. This can be done with one, two, or three switches.

Scan Speed also needs to be set with EACH scanning method chosen.

- Switch to RECORD (on back or side)
- Press f•6 (SET SPEED)—*green key*—followed by
- Press a Function Key (*green key*) from—
 - f•1 for SLOWEST SCAN SPEED to
 - f•10 for FASTEST SCAN SPEED

Practice...practice...practice...

- Practice setting each of the scan methods and observe—
 - ✓ how the LED's are illuminated
 - ✓ the speed of accessing each Message Key
 - ✓ the varying motoric requirements of each method