Wiring Instructions for the BODAB program chip "4MIN4BL" Version 1.3

Attaching the optional BBH Harness

The harness is attached to the P4 connector on the BODAB. The coloured wires with the small white stripes should all be facing towards the program chip (P4 connector edge with the numbering). The white wires, with a small coloured stripe should be facing the outside of the board.

Procedure for Recording and playback using the optional BBH HARNESS

1. Make sure power is disconnected from the BODAB. If using an adapter, make sure jumper P2 is jumpered for VCC and NOT battery.
2. Attach the BBH button harness if not already attached – See below for alignment instructions.
3. Attach the two leads on the BBH harness labelled "RECORD". This grounds pin 1 on P4.
4. See chart 1 below to select the mode of recording.
5. Attach your LINE OUT source to the RCA connector on the BODAB labelled "LINE IN".
6. The record level can be adjusted by turning the REC VOL pod on the BODAB.
7. The speaker volume can also be adjusted by turning the SPKR VOL pod on the BODAB.
8. Power up the BODAB
9. Press the button number of the phrase you are recording.
10. The LED on the board will light.
11. Press the button again to stop the recording. The LED will shut off.
12. Remove the "RECORD" wire jumper and test the recordings by pressing the appropriate phrase button.

Chart 1 – USING THE BBH HARNESS

Number of Phrases	Length of each Phrase	Legs to Jumper on the BBH harness	Description
1	3 min: 52 sec	LEGS 3	Contacting LEGS #1 will play/record phrase 1
2	1 min and 56 seconds each	LEGS 4	Button attached to LEG 1 on the button harness is phrase 1 LEG 2 is phrase 2
4	58 sec each	NONE (open)	LEG 1 is phrase 1 LEG 2 is phrase 2 LEG 3 is phrase 3 LEG 4 is phrase 4

Procedure for disabling the on-board speaker and adding an external amplifier:

1) Remove resistor R6 (or cut the lead closest to P5).
2) The LINE OUTPUT is available on the solder pad of R6 closest to P5.

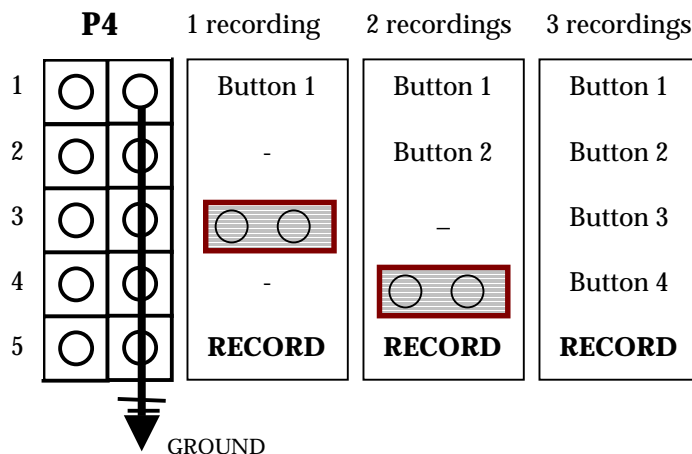# Wiring Instructions for the BODAB program chip "4MIN4BL" Version 1.3

Procedure for Recording using buttons and jumpers attached directly to P4

1. Make sure power is disconnected from the BODAB. If using an adapter, make sure jumper P2 is jumpered for VCC and NOT battery.
2. Set the number of phrases on the system by attaching jumpers to pins 3 and 4 on P4 (see chart 2 for further information).
3. Attach a jumper clip to PIN 5 and the outer pin (GROUND) on P4.
4. Attach your LINE OUT source to the RCA connector on the BODAB labelled "LINE IN".
5. The record level can be adjusted by turning the REC VOL pod on the BODAB.
6. The speaker volume can also be adjusted by turning the SPKR VOL pod on the BODAB.
7. Power up the BODAB
8. Attach the button harness to the appropriate pin and GROUND on P4. Button (x) is pin (x).
9. Hold down the button for 1/10 of a second until the LED is lit dim. Once you release the button the LED will light brightly and the recording will start.
10. Press the button again to stop the recording. The LED will then turn off.
11. You may want to remove the record jumper at this point and press the button to sample the recording to make any adjustments to the recording volume level. Once the levels are correct – replace the RECORD jumper and continue with the recordings.
12. Repeat procedures 8 to 10 to record all the phrases.
13. **Remove the "RECORD" jumper on pin 5 when complete.**
14. You may now press the buttons to sample all of the recordings.

Chart 2

Number of Recordings	Duration of each recording	Pin to GROUND on P4 to set the recording mode
1	3 min :52 sec	3
2	1 min :56 sec	4
4	:58 sec	NONE (open)

For more information contact Technovision
www.technovision.com