

FEATURES:

- * Up to 8 EPROM reprogrammable messages
- * Adjustable audio, speed and interval timer
- * ID over voice inhibit (jumper selectable)
- * Low power option
- * Beacon mode
- * Easy installation
- * Modular design
- * Small size
- * High quality at low cost

DESCRIPTION:

The Model ID-2B is a CW identifier intended for use with repeaters or automatic stations. It has been designed to provide required station identification without troublesome diode programming. The standard time interval is 15 minutes, adjustable from 6 to 20 minutes. Intervals from 30 seconds to 1 hour can be supplied on special order. The ID-2B can also be wired for beacon mode; continuous operation regardless of station activity.

The following is an example of operation with a 15 minute interval:

Station activity is determined by an input line, normally connected to the receiver squelch. The station is identified every 15 minutes as long as the squelch breaks at least once during the past 15 minutes, and no activity is present on the squelch input. If activity is present on the squelch input, the ID is held until activity ceases. The ID-2B then keys and holds the transmitter carrier as necessary. A final ID is sent within 15 minutes of the last squelch break. The next time the 15 minute interval expires, no ID occurs but the ID-2B "arms" itself such that an ID will occur after the next squelch closing. Until then it remains dormant.

If "ID over voice inhibit" is not required, or desired, jumper trace JP1 can be removed.

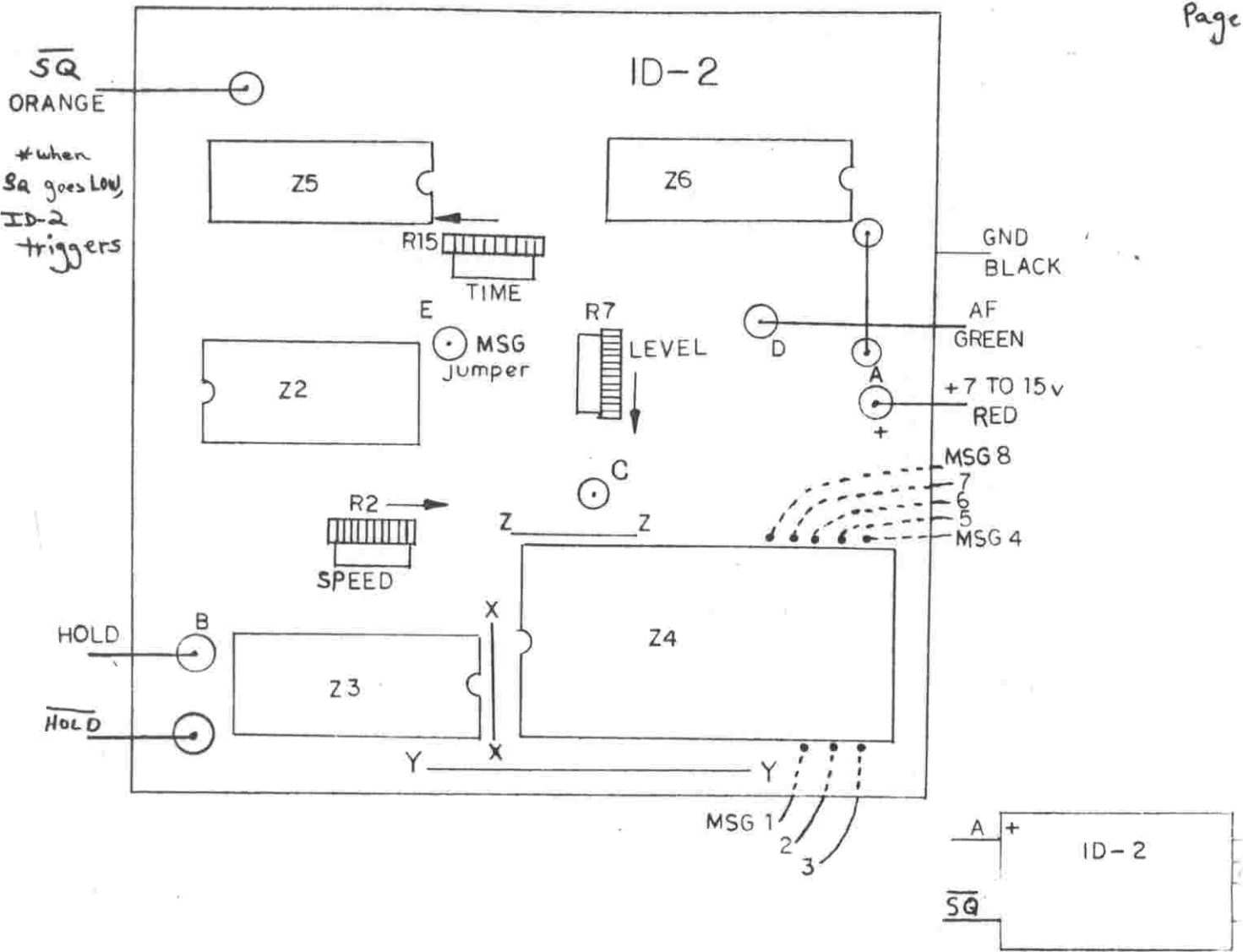
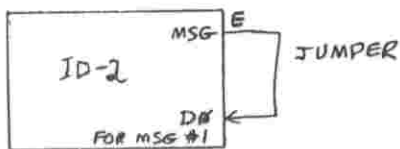
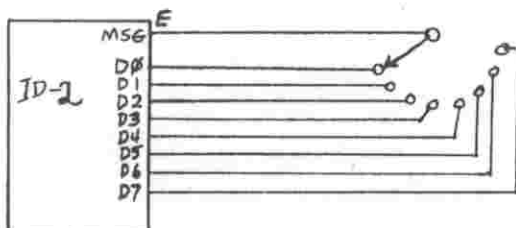


FIG. 3. MESSAGE SELECTION:

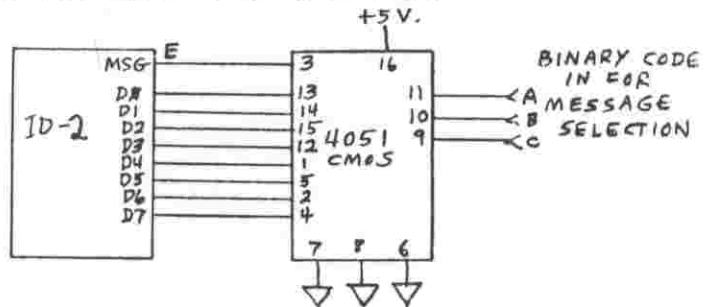
1. SINGLE MESSAGE:



2. MANUAL SWITCH



3. ELECTRONIC SWITCHING.



C	B	A	MSG #
0	0	0	1
0	0	1	2
0	1	0	3
0	1	1	4
1	0	0	5
1	0	1	6
1	1	0	7
1	1	1	8

(0 = 0V, 1 = +5V.)

CONNECTOR PINOUT

- 1 /SQ
- 2 PWR
- 3 GND
- 4 MID
- 5 AF
- 6 /HOLD
- 7 HOLD
- 8 SEL 0
- 9 SEL 1
- 10 SEL 2

ADJUSTMENTS & OPTIONS

Speed - R2 - Factory set to approximately 20 WPM.

Interval timer - R15 - Factory set to approximately 15 minutes.

Audio level - R7 - Adjust appropriately.

ID over voice inhibit (default) - JP1 - cut trace to disable

Beacon mode - Ground pin 1 and cut trace at JP1

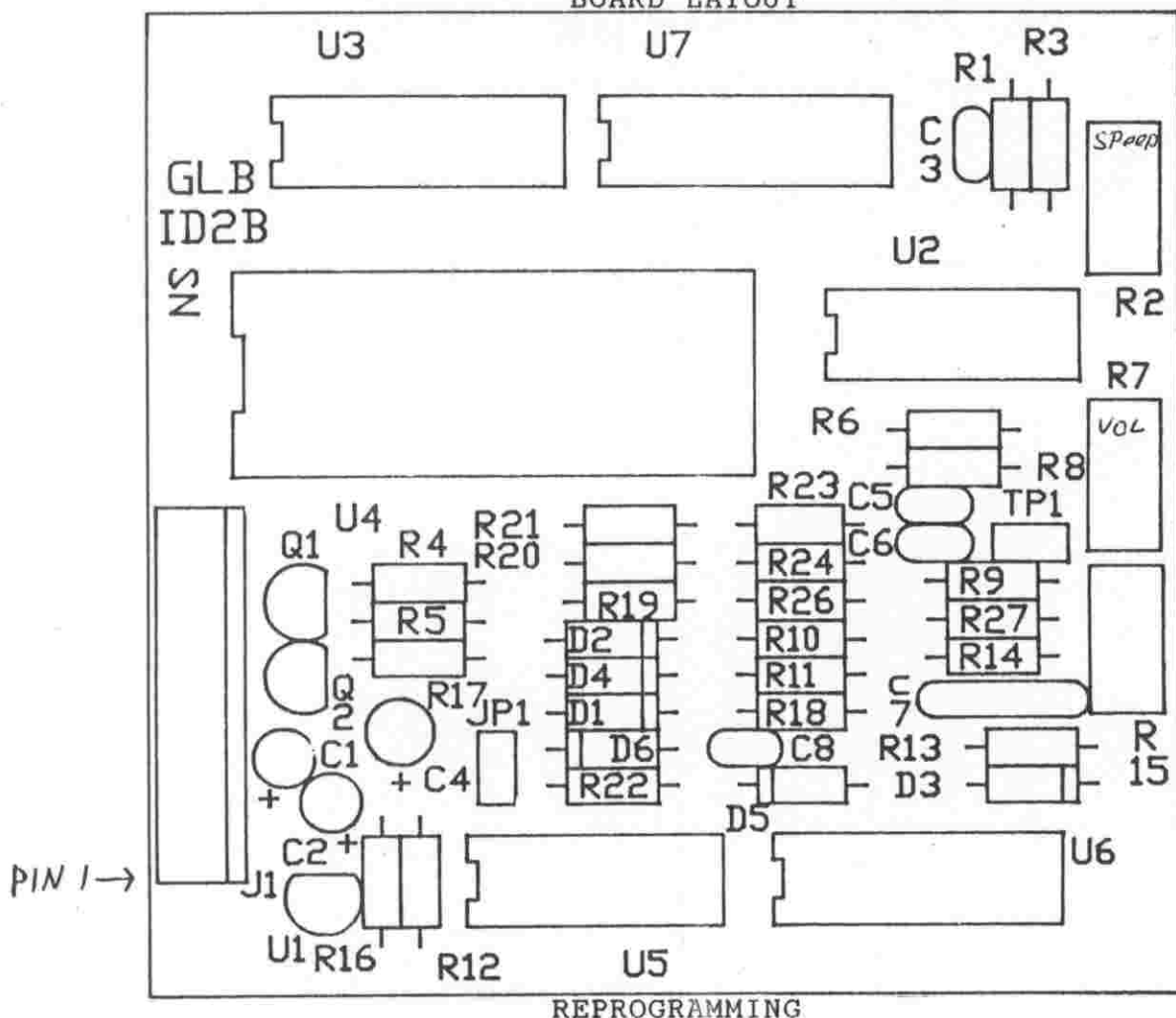
Low power option - CMOS EPROM with pc board modification

MESSAGE SELECTION

There are 8 message channels in the memory chip. Each message is available to the audio generator by programming SEL 0,1,2 according to the chart below. Note: 1 = +5 volts 0 = 0 volts

	PIN 10 SEL2	PIN 9 SEL1	PIN 8 SEL0	
msg 1	0	0	0	(default)
msg 2	0	0	1	
msg 3	0	1	0	
msg 4	0	1	1	
msg 5	1	0	0	
msg 6	1	0	1	
msg 7	1	1	0	
msg 8	1	1	1	

BOARD LAYOUT



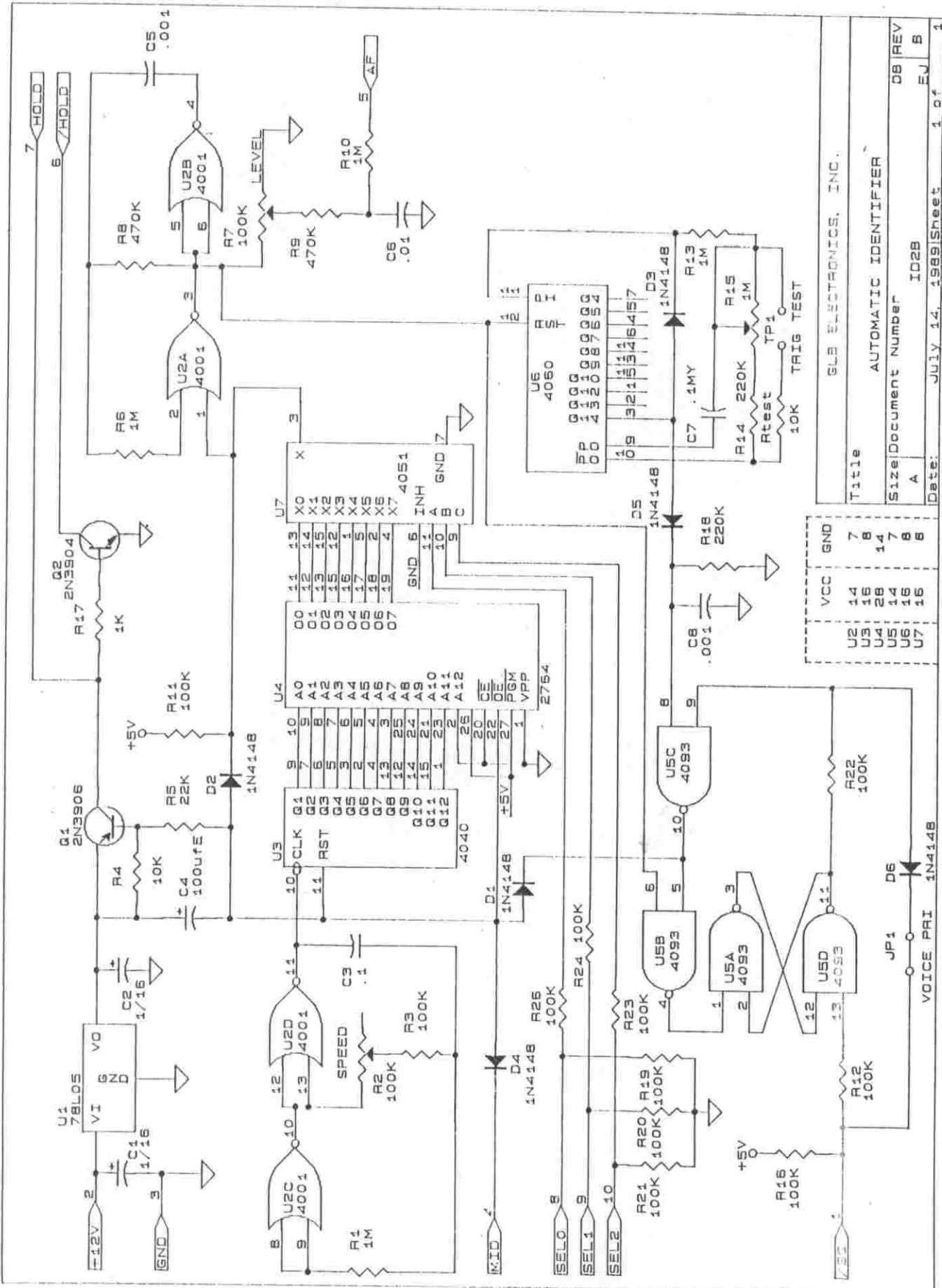
GLB offers a reprogramming service. The memory chip is socketed for ease of replacement. Simply call or write GLB to order a replacement EPROM.

If you prefer to program the ID memory, use the following format:

Message start: 0 hex for 2716, 2732; 800 hex for 2764.

Each data line from the chip is used as a message. Data line 0 is message 1, data line 1 is message 2, etc. When a memory bit is set to 0 the tone goes on; a CW message is built up by setting a bit low for a dit or 3 bits in a row (at successive address locations) low for a dah. When bits are set to 1 (the erased condition of ROM), no tone is present. One bit separates dits and dahs within a character and three bits separate characters. Six bits separate words.

The message terminates when no 0s are detected for a second or more. Be sure to start each message with 2 spaces (six 1's) for a starting pause.



Title		SLB ELECTRONICS, INC.	
Size		AUTOMATIC IDENTIFIER	
Document Number	1028	REV	B
Date:	JULY 14, 1989	Sheet	1 of 1

VCC	GND
U2	7
U3	8
U4	14
U5	14
U6	8
U7	8

VOICE PRI 1N4148