MiniTracker 3B™

Multi-mode reader with
Bluetooth® ***wireless technology***
User's Manual

FCC ID: IOL-125-AV1034-3B
Contains FCC ID: QOQBLE113

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

WARNING: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when used in a residential environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer will void the user's authority to operate this equipment.

Introduction

Congratulations on the purchase of your new AVID MiniTracker 3B™ Reader.This reader is capable of reading **AVID** and many other brands of electronic identification microchips using the **FECAVA**, **TROVAN** or **ISO FDX-B** protocols.

This reader is also capable of wirelessly sending the text of the microchip it reads a short distance to a smart phone, tablet, or computer that supports **Bluetooth**® wireless technology version 4.0 or above.

Instructions

1. Power Button

Turn the reader ON by sliding the lower right hand button forward on the face of the reader. When the reader is powered on, it will emit a double beep sound and the LCD will display **AVID UNIQUE NONE**, where UNIQUE is a 6-character alphanumeric identifier for Bluetooth, and NONE is the current display mode for Bluetooth.

- Modes include: NONE, ENTR, TAB, or OFF.
- To turn the reader OFF, slide the button back. (See Figure 1 right.)

2. Read Button

Press the upper right button (marked “READ”) on the reader to put the reader into the **LOOKING** mode. (See Figure 1 right.)

The LCD will display **LOOKING**. When a microchip is found, the reader will emit two beep tones and display the chip number on the LCD. If the Read button is released before finding a microchip, the message **NO ID FOUND** will display on the LCD.

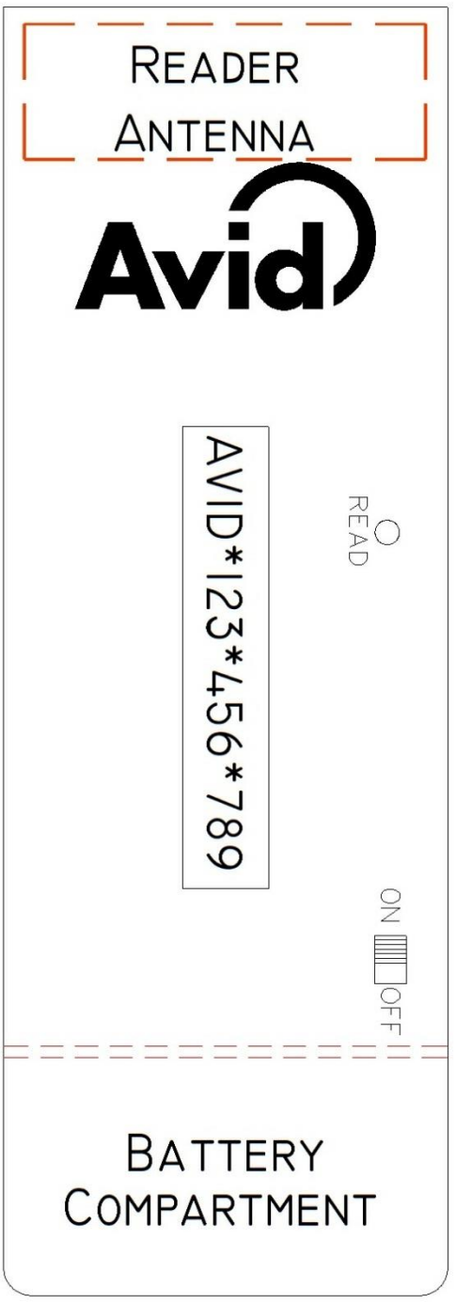

Figure 1

3. Reading

The reader antenna is located inside the reader at the top. The back of the reader has a label marked “READ HERE” which identifies the antenna area. While pressing down the Read button, scan in a circular pattern while moving toward the head starting from the middle of the back.

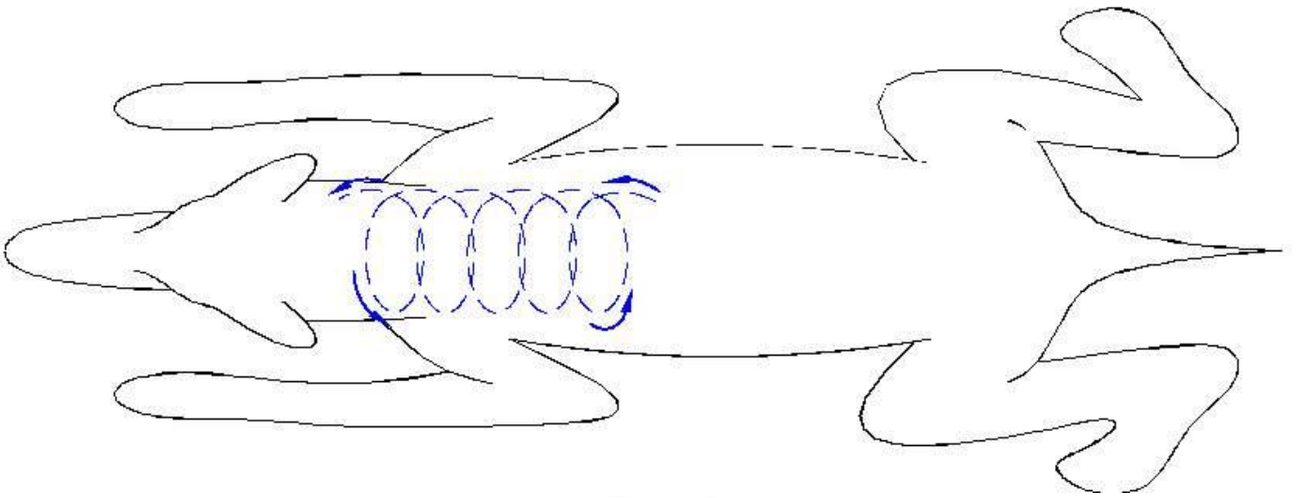

Figure 2

The reason for this scanning pattern is that chip orientation plays a major role in the optimum performance of the reader and reading distances. In Figure 3, below, CHIP(S) A, in a parallel orientation to the antenna, will achieve its maximum reading distance towards the center of the antenna or in parallel to either end of the antenna. CHIP(S) B, in the perpendicular orientation to the antenna, will achieve its maximum read distance towards the outside edges of the antenna. It is therefore recommended to move the antenna in a circular motion so that at some point you are energizing the chip with a greater magnetic field making it easier to find the microchip.

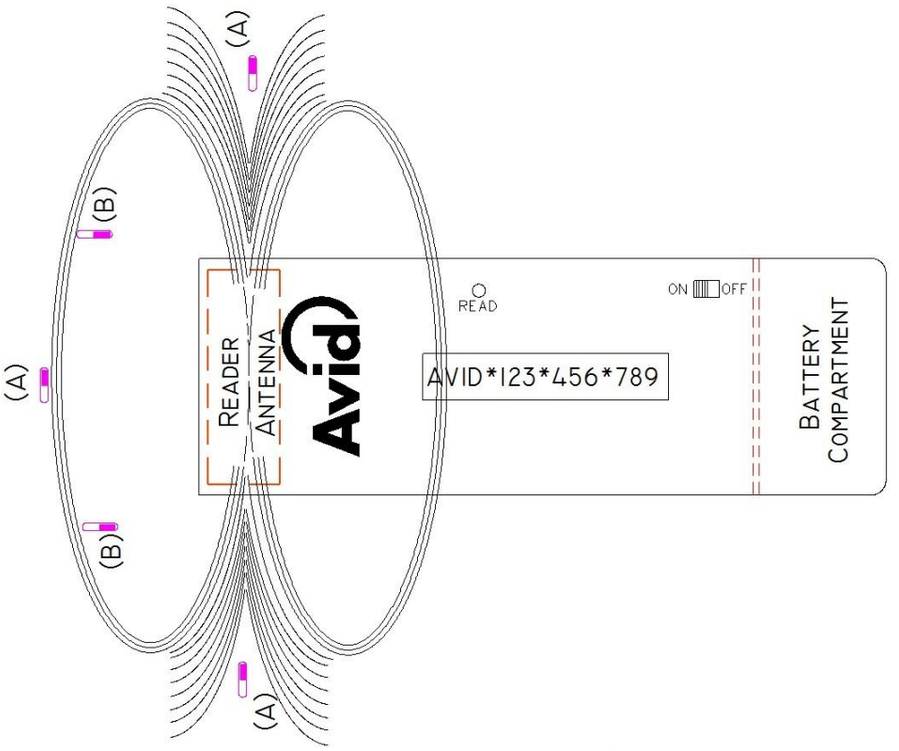

Figure 3

4. Battery

The reader is powered by one 9 volt battery. An alkaline battery is recommended for a longer battery life. The battery is located in the battery compartment on the lower backside of the reader. To replace the battery, slide the cover straight off. To secure it, slide the cover back to its original position making sure the wires are securely inside the compartment.

WARNING: FOLLOW BATTERY INSTRUCTIONS FOR DISPOSAL.

5. Operating the reader near metal

Metal objects (especially ferrous metals) absorb electromagnetic fields. Operating the reader antenna or placing the chip too close to metal objects can severely limit the range of operation of the system. If you are experiencing reduced operating range of your system, check for metal tabletops, doors, etc. in proximity (a few inches) to any part of the chip/reader environment.

6. Bluetooth wireless technology

This reader can wirelessly send the text of the microchip it reads directly to a Bluetooth enabled device version 4.0 and above.

In Bluetooth nomenclature, that smart phone, tablet, or computer is a central device, and the Avid reader is a peripheral.

No special software or driver is required on the central device. Central devices that have had Bluetooth added by using an additional card or USB dongle may need a driver for that board or dongle, but there is nothing additional required to support the Avid reader.

Using the Bluetooth feature

Once the reader is connected and paired with your central device, put the cursor on the central device screen where you want the microchip number typed in. Read the microchip with the reader.

The microchip number will appear on the central device as though the number had been typed in from a U.S. English keyboard.

If the central device's soft keyboard isn't present, turn the reader off, and the cursor should reappear, allowing you to use the soft keyboard.

Powerup message

When the reader is turned on it will display “Avid UNIQUE NONE”. UNIQUE represents six alphanumeric characters identifying each reader. In the central device's list of Bluetooth peripherals, the reader will show up as “Avid UNIQUE”.

Changing modes

The reader comes with a special credit-card sized electronic tag that when read by the reader, will change the mode and display the new mode on the LCD. Reading the tag will cycle through the list of available modes.

“NONE” will be the current mode of operation for the Bluetooth feature.
The reader won't pair or connect when it is in OFF mode.
To get to the mode you want to use, you need to cycle through the “OFF” mode. You will then need to pair the reader with the central device again.

NONE – types microchip number in central device, nothing else
ENTR – types microchip number in central device, followed by an Enter key
TAB – types microchip number in central device, followed by a Tab key
OFF – Clears any previous pairings, and doesn't allow the Bluetooth module to advertise.

Connecting

If the reader is not in “Off” mode it should connect within a few seconds of being in range and turned on. If the reader is not already paired with the central device you may have to make the central device do a scan to look for new peripherals before you see the Avid reader in the peripherals list.

Pairing Overview

The reader must be paired with the central device you'll be using before it can transfer microchip data. Pairing involves the central device and the reader exchanging some information, so they can recognize each other in the future. Unless you unpair by going into or through “Off” mode, or have the central device unpair from the reader, pairing only needs to be done once.
Pairing is done from the central device, and the exact details will depend on the device, and the operating system it uses.

Bluetooth works by peripherals “advertising” their name and availability. The central device scans to find what peripherals are present. Turning Bluetooth off and back on again on the central device will usually start this scan, or the settings page may have a button to cause it to scan.

Advertising mode

Some Bluetooth peripherals use a button to put the peripheral into advertising mode, and the instructions for pairing that came with your Bluetooth-capable central device may mention this. The Avid reader doesn't use a button to put it in advertising mode. Unless it is in “Off” mode, the reader starts advertising as soon as it is turned on.

It will advertise as “Avid UNIQUE”, where UNIQUE is the same string of characters on the reader's LCD powerup message.

Once your reader is paired with the device, it will show up on the central device's list of Bluetooth peripherals whether the reader is connected or not.

Pairing

Go to the Bluetooth settings on the central device where there is a list of detected Bluetooth peripherals. The reader should show up in the list as Avid UNIQUE, where UNIQUE is the six characters displayed on the LCD when the reader was turned on.
If the reader ids not on the list:

- Turn off Bluetooth.
- Turn on the reader
- Turn the Bluetooth back on, and wait for the central device to “discover” the reader.
- Select the reader, and the central device should ask if it is okay to pair with the reader. Allow the reader to pair.

Bluetooth devices on the list that are paired and connected are usually shown in slightly different way than those that aren't. Once a reader is paired with a device, it will show up in the central device's list of Bluetooth peripherals whether the reader is on and present or not. If the reader is off and you turn it on, it will connect with the central device in a few seconds.

Keyboard Translation Software warning

If the central device uses software that remaps keys from the keyboard, the characters typed by the reader may not be correct.

7. Warranty and Service

The Avid MiniTracker 3B™ Reader is warranted against defects in material and workmanship, under normal use and service, for a period of 1 year from the date of purchase from AVID. This warranty will not apply if repairs, parts or adjustments are required due to accident, neglect, or damage during transportation, or causes other than ordinary use. AVID's sole responsibility under this warranty shall be, at AVID's option, to either repair or replace any product, which fails during the warranty period. In no event shall AVID be liable for any indirect or consequential damages or loss of profits.

A **Return Material Authorization (RMA)** number must be issued before a unit is returned to AVID for service.

Contact AVID for a **RMA** number or other service questions. +1(951) 371-7505 Ext 3.

For Information:

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