

NUMBER: Project#: 38005-010

REVISION: B

DATE: 05/04/05

SUBJECT: Velocity Test Procedure

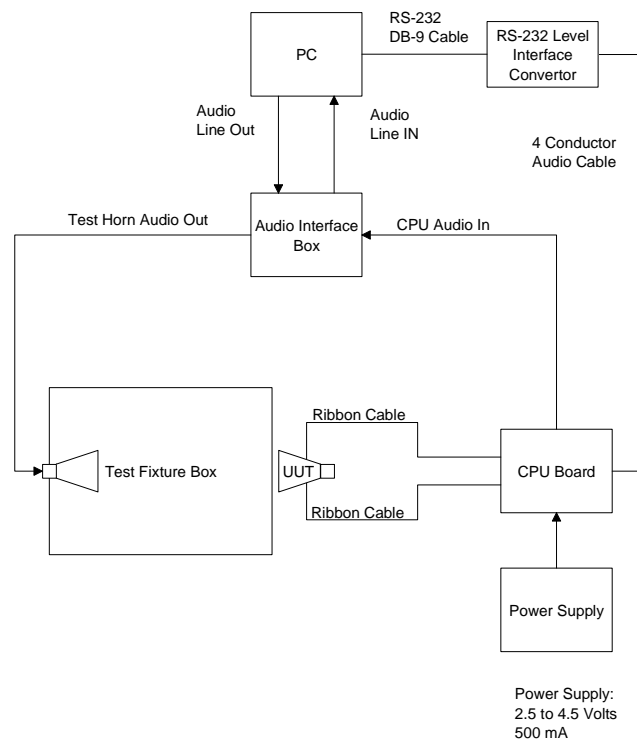
## 1.0 EQUIPMENT LIST

- PC with sound card
- Enclosure for test fixture.
- 2.5V ~ 4.5V, 0.5 amp power supply
- Velocity CPU board
- Audio interface box
- 2 ribbon cable (to connect CPU board to unit under test)
- RS-232 cable (to connect PC to CPU board)
- Radar Gun Tester software (Version 1.10)

## 2.0 TEST PROCEDURE

1) Set the test fixture up per the diagram below.

**Velocity Test Fixture System Diagram**



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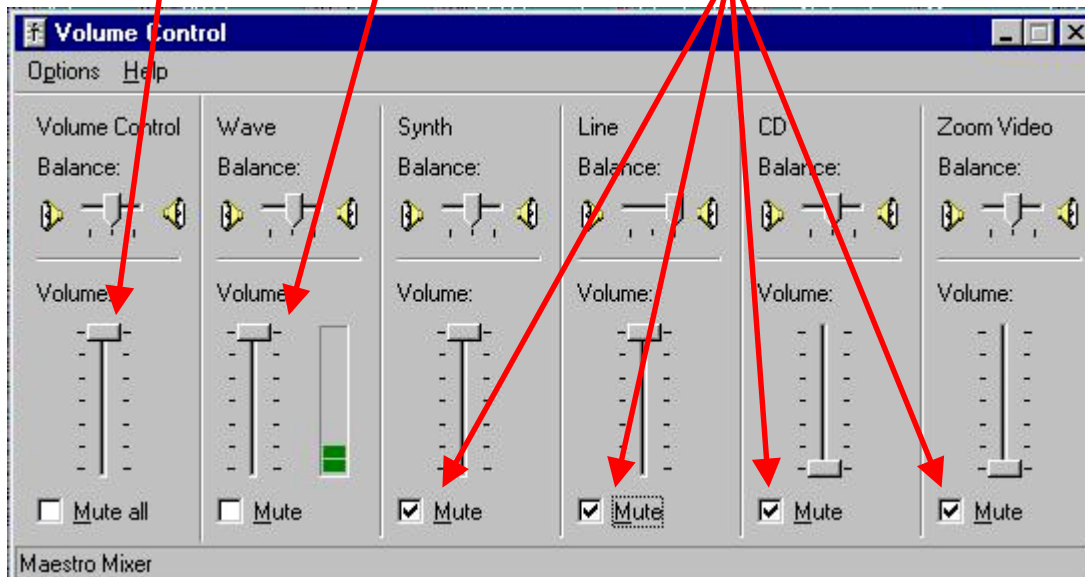
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2) Adjust “Volume Control” and “Wave” to maximum and make sure they are NOT muted.

MUTE ALL OTHER VOLUME CONTROLS.

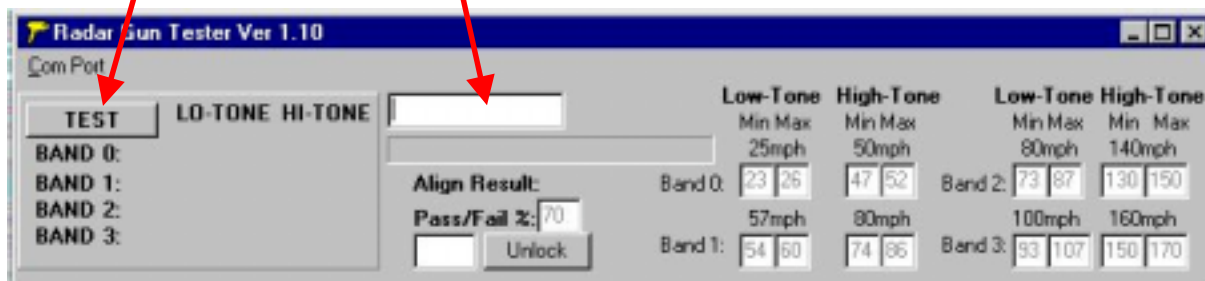


3) Start “HORN ATE” radar gun test software.

Icon looks like this:



4) Type the serial number in the box and then hit the “ENTER” key to start the test (or left-click on the “TEST” button).



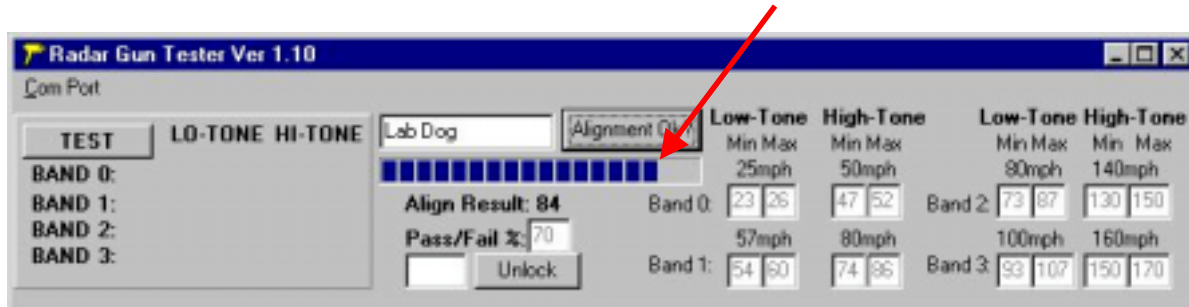
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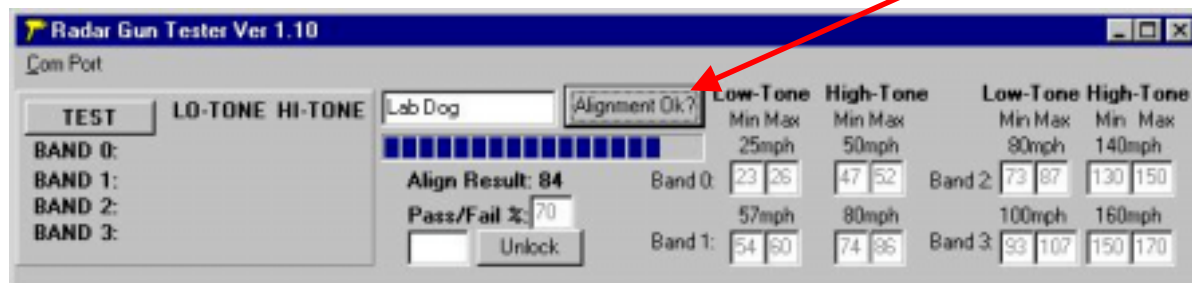
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- 5) The program will ask if alignment is OK. To align, adjust the verticle and horizontal alignment knobs to get the peak value shown on the “Result” graph.



- 6) After alignment is complete, hit the “ENTER” button or left-click on the “Alignment Ok?” button and the computer program will start testing the unit under test.



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- 7) Once the testing is complete a window will pop up indicating whether the unit under test PASSED or FAILED. You will also see the test results on the left side of the window. Left-click on "OK" to end test.

**Radar Gun Tester Ver 1.10**

Com Port: \_\_\_\_\_

TEST	LO-TONE	HI-TONE
BAND 0:	70	89
BAND 1:	88	71
BAND 2:	71	55
BAND 3:	72	56

Lab Dog

Align Result: 84

Pass/Fail %: 70

Unlock

Low-Tone High-Tone

Min	Max	Min	Max	Min	Max	Min	Max
25mph		50mph		80mph		140mph	
Band 0:	23	26	47	52	Band 2:	73	87
	57mph		80mph		Band 3:	93	107
Band 1:	54	60	74	86		150	170

**Error**

FAIL

OK

**Radar Gun Tester Ver 1.10**

Com Port: \_\_\_\_\_

TEST	LO-TONE	HI-TONE
BAND 0:	96	99
BAND 1:	99	99
BAND 2:	91	84
BAND 3:	97	89

Lab Queen

Align Result: 99

Pass/Fail %: 70

Unlock

Low-Tone High-Tone

Min	Max	Min	Max	Min	Max	Min	Max
25mph		50mph		80mph		140mph	
Band 0:	23	26	47	52	Band 2:	73	87
	57mph		80mph		Band 3:	93	107
Band 1:	54	60	74	86		150	170

**Information**

PASS

OK

## 3.0 DOCUMENT CONTROL

Authorized Approval: \_\_\_\_\_

Revision Notes:

B – 05/04/05 – Updated screen shots, added PC volume setting, and test fixture setup.

A – 02/18/05 - New document.

