



South Carolina Criminal Justice Academy



Road Proficiency Field Testing Forms

Revised 05-2004(9-06)

South Carolina Criminal Justice Academy

Police Traffic Speed-Measuring Device Operator Road Proficiency Testing Booklet

Instructions:

The Speed-Measuring Device Instructor should administer the road proficiency portion of the Basic Police Traffic Speed Measurement Operator course to the Speed-Measurement operator trainee/student within the prescribed two (2) to six (6) weeks from the conclusion date of the classroom portion of the course as set forth in the SCCJA Policy and Procedures (General Training Requirements). The instructor should evaluate the Speed-Measurement device being used for operational condition. In the event the instrument fails either internal or external tests or has missing parts, the condition should be noted and no road test performed with that instrument.

On page two (2) there is a demonstrated process for calculating the average error rating for the student's visual speed estimates. On page three (3) there is an evaluation section for the standard front antenna RADAR devices. If this is the case, the instructor will only need to complete this section. For the RADAR instruments designed with Same/Opposite Direction, Digital Signal Processing, Time/Distance, or Dual antenna capabilities, the instructor should complete the appropriate sections. In the event the student advises the instructor that these available functions will not be applied for enforcement purposes, the instructor can omit those applications, but must note clearly in the instructor comments area this fact. Lidar speed-measuring device proficiency testing is included on page 10 of this form.

If the student fails to demonstrate acceptable levels of performance with the visual speed estimates, the instructor should document the deficiencies in the comments section and re-schedule the student for further practice and testing. Upon completion of the road proficiency testing, all completed forms should be forwarded to Darwin Ramsey, SC Criminal Justice Academy, 5400 Broad River Road, Columbia, SC 29212-3540. This must occur by the conclusion of the sixth week of the course.

**Speed-Measuring Device
Road Proficiency Test Form**

Student Name: _____ SS#: _____
 Student Agency: _____ Cty: _____
 Test Date: _____ Test Location: _____
 Traffic Volume: _____ Years of Radar/Lidar Experience: _____

RADARLidar Type (circle one or more):

<u>Applied Concepts, Inc.</u>	<u>Decatur Electronics</u>	<u>Kustom Signals, Inc</u>	
Stalker (Sta. Ka)	Genesis I (X)	Eagle (K)	Trooper (K)
Stalker (Mov Ka)	Genesis I (K)	Eagle (Ka)	HR – 12 (K)
Stalker (Dual Ka)	Genesis GHS (K)	Falcon (K)	Pro-1000DS (K)
Stalker (Dual SL)	Genesis II (Ka)	Hawk (K)	KR-10SP (X)
Stalker (DSR)	Genesis – VP	Pro-1000 (K)	KR-10SP (K)
Stalker (ATR)	Genesis – VP Directional	Talon (Ka)	ProLaser III – Lidar (Kustom Signals, Inc.)
Stalker (Basic)	Stalker – Lidar (Applied Concepts, Inc.)	Marksman 20/20 – Lidar (Laser Technologies, inc.)	Ultralyte 100/100– Lidar (Laser Technologies, inc.)
<u>MPH Industries Inc</u>	Speedlaser – Lidar (Laser Atlanta, LLC)	Ultralyte 200/200-Lidar	Ultralyte LR B & Compact
Bee-36A (K)	K-55 (X)	Speedgun (K)	Python Series II FS (K) (Ka)
Bee-36A (X)	Python (K)	Z–15	Bee III
Bee-36 (Ka)	Python (Ka)	Z–25	Python Series II (X, K, Ka)
K-55 (K)	Z-35		

Other RADAR Type: _____
 RADAR Model Serial No.#: _____
 RADAR Condition: _____

Highlighted units are currently on the IACP Consumer Product List (CPL). The units are also currently in production as of April 2004.

Proper RADAR Set-Up; ABCs (Check One):

	<u>Acceptable</u>	<u>Unacceptable</u>
Antenna(s):	_____	_____
Box:	_____	_____
Current:	_____	_____

Proper RADAR Testing Procedure (Check One):

	<u>Acceptable</u>	<u>Unacceptable</u>
Internal Test:	_____	_____
Tuning Fork(s):	_____	_____
Moving:	_____	_____
Stationary:	_____	_____

Road Proficiency Visual Estimate Test Scoring:

Stationary				Moving			
Target Vehicle	Est.	Actual	Error MPH	Target Vehicle	Est.	Actual	Error MPH
1	40	45	5	1	45	45	-
2	45	45	-	2	42	45	3
3	43	45	2	3	50	45	5
4	42	45	3	4	46	45	1
5	45	45	-	5	47	45	2
6	42	45	3	6	45	45	-
7	44	45	1	7	45	45	-
8	45	45	-	8	41	45	4
9	40	45	5	9	45	45	-
10	45	45	-	10	45	45	-

Avg. Error MPH Stationary: 1.9 Avg. Error MPH Moving: 1.5

Avg. Error MPH Overall: 1.7

Simply add the error totals for each side and divide by ten. This is done for each mode separately. Then add both stationary and moving error totals and divide by 20. The student must not exceed 3.0 overall or it is considered unsatisfactory.

VISUAL Estimate Tests

Front Antenna Only:

Stationary				Moving			
Target Vehicle	Est.	Actual	Error MPH	Target Vehicle	Est.	Actual	Error MPH
1				1			
2				2			
3				3			
4				4			
5				5			
6				6			
7				7			
8				8			
9				9			
10				10			

Avg. Error MPH Stationary: _____ Avg. Error MPH Moving: _____

Avg. Error MPH Overall: _____

Instructor(s) Comments: _____

Instructor(s) Signature: _____ Date: _____

Student Signature: _____ Date: _____

**Dual Antenna/Same Direction/Digital Signal/Time-Distance
RADAR Instrument Familiarity**

This section is provided for the purpose of testing the student who proposes to operate a RADAR instrument that has one or more of the above listed functions:

	<u>Acceptable</u>	<u>Unacceptable</u>
Box (Counter) Functions:		
1. Stopwatch/Range Select Switch (Explain proper use of the stopwatch):	_____	_____
2. Distance Switch (Explain use of the thumb wheels in the stop watch mode):	_____	_____
3. Slower indicator (Explain when to utilize "slower mode"):	_____	_____
4. Antenna Direction indicators (Explain function):	_____	_____
5. Display Target Speed (Explain D.T.S. only/Display Time in seconds):	_____	_____

Remote Control Functions:

1. Front/Rear Switch (Explain use of the rocker switch):	_____	_____
2. Faster/Slower Button (Explain use of the button):	_____	_____

Dual Antenna/Same Direction/Digital Signal/Time-Distance RADAR Instrument Familiarity

This section is provided for the purpose of testing the student who proposes to operate a RADAR instrument that has one or more of the above listed functions:

	<u>Acceptable</u>	<u>Unacceptable</u>
1. Target Verification Window (Explain target verification speeding up and/or slowing down):	_____	_____
2. Lock-Release / Start-Stop (Explain function):	_____	_____

Instructor(s) Comments: _____

Visual Estimates Tests (Same Direction)

Rear Antenna:

Stationary				Moving			
Target Vehicle	Est.	Actual	Error MPH	Target Vehicle	Est.	Actual	Error MPH
1				1			
2				2			
3				3			
4				4			
5				5			

Avg. Error MPH Stationary: _____ **Avg. Error MPH Moving:** _____

Avg. Error MPH Overall: _____

Instructor(s) Comments: _____

Rear Antenna: (Opposite Direction)

Stationary				Moving			
Target Vehicle	Est.	Actual	Error MPH	Target Vehicle	Est.	Actual	Error MPH
1				1			
2				2			
3				3			
4				4			
5				5			

Avg. Error MPH Stationary: _____ **Avg. Error MPH Moving:** _____

Avg. Error MPH Overall: _____

Instructor(s) Comments: _____

Front Antenna: (Same Direction)

Target Vehicle	Est.	Actual	Error MPH
1			
2			
3			
4			
5			

Avg. Error MPH: _____

Instructor(s) Comments: _____

Average Speed Calculations for the Stopwatch Function:

Stopwatch Set-up (check one):

	<u>Acceptable</u>	<u>Unacceptable</u>
1. Stopwatch Test:	_____	_____
2. Enter proper distance:	_____	_____
3. Familiarity with Time/Distance Distance Principles:	_____	_____

Calculations:

Target Vehicle	Distance	Time	Average Speed	Actual Speed	Error MPH
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

Avg. Error: _____

Instructor(s) Comments: _____

Instructor(s) Signature: _____ Date: _____

Student Signature: _____ Date: _____

D S P – Fastest Mode:

Stationary				Moving			
Target Vehicle	Est.	Actual	Error MPH	Target Vehicle	Est.	Actual	Error MPH
1				1			
2				2			
3				3			
4				4			
5				5			
6				6			
7				7			
8				8			
9				9			
10				10			

Avg. Error MPH Stationary: _____ **Avg. Error MPH Moving:** _____

Avg. Error MPH Overall: _____

Instructor(s) Comments: _____

Instructor(s) Signature: _____ **Date:** _____

Student Signature: _____ **Date:** _____

Lidar Field Proficiency Testing

Site Selection	Officer Safety	Operation Safety
Not Acceptable	Not Acceptable	Not Acceptable
Pass	Pass	Pass
Re-Test	Re-Test	Re-Test

Conducts Internal Accuracy Checks	Demonstrates Proper Sight Alignment	Demonstrates Valid Range Accuracy	Articulates Tracking History of Target Vehicle
Not Acceptable	Not Acceptable	Not Acceptable	Not Acceptable
Pass	Pass	Pass	Pass
Re-Test	Re-Test	Re-Test	Re-Test

Instructor's Comments: _____

Instructor'(s) Signature: _____	Date: _____
Student's Signature: _____	Date: _____

Lidar Visual Estimates

Target Vehicle	Visual Estimate	Actual Speed	Error MPH +/-
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Instructor Comments: _____

Instructor(s) Signature: _____	Date: _____
Student's Signature: _____	Date: _____

NOTE: A Student failing to meet field proficiency testing standards, should be re-scheduled for further practice sessions. If after a third failed attempt at meeting standard, the student should be recycled through the classroom portion of the Speed-Measuring Device Operator Training course. The Academy Program Director should be notified of student recycles.