

## Raptor RP-1™ with Advanced Fork Test

### Overview

Kustom Signals has long recommended testing traffic RADAR with tuning forks at the beginning and end of each shift. The tuning fork test ties together the internal self-tests and patrol speed tests and completes the testing path. The tuning fork signal travels through the entire RADAR system signal path and the frequency of the tuning fork is accurate enough to verify the RADAR system's specified tolerance.

In recent years, there has been industry discussion whether the tuning fork test could be eliminated from daily test procedures. There are two issues with eliminating the tuning fork tests:

1. The Tuning fork test has been an accepted legal standard and case law recognized in many U.S. states dating back to 1966 with *State v. Tomanelli 1966 152 Conn 365, 216 A2d 625*.
2. The combination of the appropriate internal self-test and officer's comparison to the vehicle speedometer can be very effective in determining the general accuracy of the RADAR system. But this method may not test the RADAR to the specified accuracy of  $\pm 1$  MPH ( $\pm 1.6$  km/h), which has historically only been possible with a certified tuning fork.

### The Issues

The time spent each day conducting tuning fork tests can be extensive – especially in states and municipalities that require a fork test with each speeding citation! There is also the issue of whether or not the operators are consistently conducting fork tests and following manufacturers' recommendations and department policy. The last thing you want is a felony stop thrown out because an operator did not follow policy and conduct a fork test as recommended.

### The Raptor Advanced Fork Test Solution

The Raptor Advanced Fork Test conducts a comprehensive test on two antennas in less than 20 seconds, getting you on the road quickly. The Raptor RP-1 prompts the user to ring two fork frequencies

on both antennas, providing a clear pass/fail message and taking any subjectivity out of calculating the test results.

Optionally, the **Raptor RP-1** can require the operator to conduct a successful test before placing the RADAR system in service.



#### **Raptor Advanced Fork Test Low Fork Prompt**

When the mandatory test option is enabled, the operator is required to conduct one test each shift (by default). After the completion of a successful test, the operator may bypass the fork test prompt if the unit is powered off and on at any time during the shift.

### Conclusion

The Raptor RP-1 Advanced Fork Test procedure is a revolutionary new way to comprehensively and quickly test your RADAR system. Raise the bar and be certain that your officers are completing their recommended daily fork tests by implementing the mandatory option. You will be thankful that you did!