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## Amendment 3 Fourth Edition Speedmeter Handbook

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26<sup>th</sup> February 2010

The following is added before section 4 page 9 with effect from 12<sup>th</sup> February 2010

### **3.19 External Aspect Verification**

Verification of the aspect displayed on each variable speed limit sign on a gantry operating with an enforcement device by automatic recognition of the displayed aspect from an external aspect verification image.

### **3.20 External Aspect Verification Image**

A digital image showing all variable speed limit signs on a gantry operating with an enforcement device used for external aspect verification and recorded with the evidence of a speed offence.

With effect from the 12<sup>th</sup> February 2010 section 5.1.2 on page 10 shall be amended to the following.

- 5.1.2** Every image of the offence shall show, in addition to the speeding vehicle, in the following order: the date in day month, and year, and the time in hours, minutes and seconds. In the case of a video recording made in an unattended operation, it shall also include a frame count from the beginning of the recording (see 5.7.3.2). When inductive loop sensors are used, the lane number shall also be included. The indication of the time to the nearest minute is acceptable. If operated with a variable speed limit sign and an enforceable speed limit has been set, the time elapsed since it was set, in hours, minutes and seconds, and direct evidence of the speed limit displayed shall also be shown. If external aspect verification is used then as the direct evidence of the speed limit displayed, an additional external verification image shall be recorded and shall show in addition to the date in day month, and year, and the time in hours, minutes and seconds, the recognised speed limit enforced. A code representing the location of the measurement shall also be shown. This data shall be imprinted on the image or images at the time of the speed measurement. If digital images are used, the data shall be recorded with the image or images at the time of the offence as part of the same offence record. Only complete offence records shall be displayed or output.

With effect from the 12<sup>th</sup> February 2010 section 5.9.3 on page 13 shall be amended to the following.

- 5.9.3** Whenever the speed limit is changed, a single photograph shall be taken which will show the date in day, month and year and the time in hours, minutes and seconds when the display changed, the new speed limit set and the location code. When external aspect verification is used an

additional external verification image shall be recorded and shall show the date in day, month, and year, and the time in hours, minutes and seconds when the displayed changed and the recognised new speed limit set and the location code.

The following is added before section 8 page 18 with effect from 12<sup>th</sup> February 2010

### **7.13 External Aspect Verification**

While the visibility of the variable speed limit signs is greater than 300m, if used, external aspect verification shall always correctly recognise the number of variable message signs with in the external verification image. For every sign it shall correctly recognise the aspect displayed, including when a blank aspect is displayed or recognise when it is unable to do so. Whenever it is unable to recognise the aspect displayed on every sign, enforcement shall be disabled.

With effect from the 12<sup>th</sup> February 2010 section 8.7.1 on page 24 shall be amended to the following.

**8.7.1** When using a variable speed limit sign with in built aspect verification or a simulator of the sign connected to the speedmeter, the following fault conditions shall be simulated while a speed measurement of 90 mph is simulated:

- i failure of any bulb used to illuminate any part of the speed limit aspect;  
and
- ii power up of any extra bulb or bulbs used to illuminate other speed limit aspects and not used in the correct display.

No enforcement shall occur while these fault conditions are simulated.

The following is added before section 8.8 page 25 with effect from 12<sup>th</sup> February 2010

**8.7.2** When using a variable speed limit sign connected to the speedmeter and external aspect verification, the following fault condition shall be simulated while a speed measurement of 90mph is simulated:

- i failure of any single display element by masking that element

No enforcement shall occur while this fault condition is simulated