HEADLAMP BEAM TESTERS (HBT's)

FOR ALL CLASSES OF VEHICLE

Applicant Details:

Name:	. . . . .	Tel:	. . . . .
Company:	. . . . .	Fax:	. . . . .
Address:	. . . . .	Email:	.....
	. . . . .	Manufacturer:	
	. . . . .		. . . . .
	. . . . .	Model:	. . . . .

Inspection Details:

Location:	. . . . .	Date:	. . . . .
	. . . . .	VI File Ref:	
	. . . . .		. . . . .
	. . . . .	Version of	
Assessor:	. . . . .	Spec used:	. . . . .

---

1. TECHNICAL REQUIREMENTS

	(A)	Does the HBT have an optical collimating lens assembly?	Yes/No
	(B)	Is the HBT robustly constructed as outlined in the specification?	Yes/No
	(C)	Is it safe to use?	Yes/No
1.1	Rails		
	(A)	Is the HBT fully rail mounted on robust rails?	Yes/No
	(B)	Do rails have the capability of being adjusted for level?	Yes/No
	(C)	Do rails allow for the specified length of traverse? *(See lengths detailed in the Specification)*	Yes/No
	(D)	Do rails allow vehicles to drive over without distortion? *(See weights detailed in the Specification)*	Yes/No
1.2	Lens Assembly		
	(A)	Is optical head adjustable in the height range 500 mm to 1500 mm?	Yes/No
	(B)	Means available to temporarily lock height adjustment?	Yes/No
	(C)	Does the HBT sit on the rails with no detectable rock?	Yes/No
	(D)	Is whole HBT unit stable when lens assembly is at maximum height?	Yes/No
	(E)	Is accurate means of longitudinal alignment (yaw) available?	Yes/No
	(F)	Means available to temporarily lock longitudinal alignment?	Yes/No

(G) Is accurate means of vertical alignment (pitch) available? Yes/No

(H) Is means of locking vertical alignment possible only with tools? Yes/No

(I) Is the unit's lens-assembly capable of accurately focusing all current types of headlights, including clear-lens and gas discharge methods of projection? Yes/No

(J) The HBT includes an eye level mirror arrangement, incorporating two parallel lines, or a laser that enables the HBT to be accurately aligned with the longitudinal axis of the vehicle. Yes/No

Note: A 'gun sight' alignment referencing the side of the vehicle is not acceptable.

1.3 Aiming Screen

(A) Is screen positively located and adjustable only with tools? Yes/No

(B) Is aiming screen suitably marked and coloured? *(Note revised requirements)* Yes/No

(C) Are screen markings accurately positioned? Yes/No

(D) Are screen markings durable and waterproof? Yes/No

(E) Is screen marked clearly with manufacturer's logo? Yes/No

(F) If photoelectric cells are included on the screen do they impair visual assessment? Yes/No

(G) Focal length of lens and bandwidth calculations provided? Yes/No

2. CALIBRATION

(A) Is a complete set of calibration equipment available? Yes/No

(B) Is accuracy of the calibration equipment traceable? Yes/No

(C) Is calibration procedure acceptable? Yes/No

3. OPERATING INSTRUCTIONS

(A) Written in English? Yes/No

(B) Detail the sequence of operation of the HBT? Yes/No

(C) Detail the function of each control? Yes/No

(D) Detail how to interpret the results? Yes/No

(E) Make reference to the procedure in the MOT Inspection Manual? Yes/No

(F) State operating tolerance for distance between HBT lens and headlamp lens? Yes/No

(G) Detail the method of calibration? Yes/No

(H) Detail the operating procedure for testing gas discharge and clear lens headlamps? Yes/No

4. IDENTIFICATION

(A) Is HBT durably marked with make, model & serial number? Yes/No
(The marking should be on the exterior)

Note: It would be useful to ask if the applicant if they intend to market the identical HBT using another name or model number.

5. ASSESSMENT REQUIREMENTS

The following items should have been supplied:

(A)	Detailed specification of HBT (Inc focal length)?	Yes/No
(B)	Fully dimensioned assembly drawings of HBT and rails?	Yes/No
(C)	Two copies of the User Manual / Operating Instructions?	Yes/No
(D)	A sample of the aiming screen? *(This will be returned)*	Yes/No
(E)	A copy of the calibration equipment certification?	Yes/No

---

The above HBT is / is not recommended for acceptance.

The above HBT is recommended for acceptance pending action on:

Item number(s) .....

Additional remarks:

Signed ..... Date ..... HBT for ATL