



### 3.2. Test site

- The measurement is made behind the motorcycle at a certain angle to the side of the exhaust. If there are 2 exhaust pipes, the side with the air inlet is chosen. In case of full symmetry either side can be used.
- The surface shall preferably be dry gravel.
- The distance from the motorcycle to sound reflecting buildings and the like shall be at least 10 meters.
- The motorcycle shall be held either by the rider/operator or fixed, in the upright position.
- The driver/operator shall stand beside the motorcycle, on the side of the motorcycle opposite to where the microphone is positioned.

### 3.3. Geometry (see picture)

- The microphone is placed at a height of 1.35 m (+/- 2 cm) directly above point A on the ground.
- Point A is situated at a distance of 2 m from point B (+/- 2cm), measured horizontally from the point where the rear wheel touches the ground. The line from point A to point B forms an angle of 45° to the longitudinal axis of the motorcycle.
- In the horizontal plane, the microphone shall be directed at point B, where the rear wheel touches the ground. In the vertical plane, the microphone itself shall be oriented horizontally ( $\pm 45^\circ$ ).

### 3.4. How to operate the engine before and during the test

- The engine and exhaust system shall be warmed up before the sound test.
- The mapping of the engine shall be the same as during practices and races.
- The motorcycle/engine shall be running in the neutral gear position.
- During the sound measurement, the engine shall be brought from idle to maximum engine speed (max RPM) by a sudden opening of the throttle (within 1 second), and back to idle by a sudden release of the throttle.