GLOBAL TECHNICAL REGULATION ON MOTORCYCLE BRAKE SYSTEMS

ISSUES REMAINING AFTER FINAL DRAFT (33-GTRBR-05) WAS SENT TO GRRF ON 2005-11-11

Prepared on 2005-12-23

Paragraph	Details of issue	IMMA'S comment and proposed solution
Throughout gtr	Japan propose that the terms "actuation", "activation", and "application" are harmonised.	IMMA partially agrees and proposes to carry out a review of the text and use the most appropriate term. For example, dictionary states that "actuate" means "to move to mechanical action".
2. Definition	Transport Canada proposes a new definition – <i>Wheel slip</i> - and suggests "the difference between the vehicle speed and the respective wheel speed".	IMMA agrees that this definition may be necessary but would like to see the appropriate definition from ISO used. To be provided.
2.5 CBS Definition	Japan requires the definition to apply to the "wheels" and not "axles". E.g where the brakes on all wheels are activated by the operation of a single control.	"Wheel" is used in R78 and IMMA proposes that the text is modified to read "wheels" throughout the definition.
2.11 Lightly loaded Definition	The definition currently states that the mass of the outriggers are included in 15 kg specified for test equipment. JAMA state that this is insufficient and require an extra allowance to cover the mass of the outriggers	
2.18 SSBS Definition	Japan are concerned that the definition does not specify the number of wheels or axles being braked.	IMMA agrees and thus proposes the following revised definition: 2.18 Split service braking system (SSBS) means a brake system, which activates the brakes on all wheels, consisting of two or more subsystems
3.1.10 Reservoirs	UK require the text to specify that the reservoir is "sealed" and "covered".	IMMA agrees and proposes that the following text be inserted into the GTR:shall: a. have a sealed, covered, separate reservoir for each brake system.
4.2.4 Brake temp. measurement	NHTSA wish removal of the sentence "Contracting parties may specify"	IMMA disagrees as the sentence makes it clear that either method of measurement may be used.
4.2.5 Burnishing procedure	NHTSA wish to remove the sentence "unless the manufacture supplies the vehicle for testing with the brakes already burnished."	IMMA disagrees because a note is required for ECE and so proposes this alternative text: "If the vehicle certification is based on type approval, the manufacture may supply the vehicle for testing with the brakes already burnished".

4.6.1	Text currently states "Test is not applicable to parking brakes"	IMMA agrees and proposes that the following text be inserted: "The test is not
Wet brake test	TC require that if the secondary brake is the parking brake, it must meet the	
	wet brake requirement.	
4.7.3.2	Japan requests that the following sentence is removed "Note that if the	IMMA disagrees. This note is included because some rear brakes could have a
Heat fade test	vehicle is unable to achieve the specified deceleration rate, these stops are	performance that does not meet the level required for the Heating procedure.
	carried out at the maximum achievable value"	The note is included in R78. However, the sentence should be moved up 2 lines
		in the text to follow "of the specified speed." for clarity.
4.9.3.1, 4.9.5.1		IMMA disagrees. The note is required because on some vehicles, the ABS may
4.9.6.1, 4.9.7.1	order to ensure that the ABS is fully cycling during the stop" because it is	not fully cycle even at maximum force levels. In this case, the ABS would not
ABS Stops on	too subjective.	be tested.
various surfaces		
4.9.3.2+4.9.4.2	At present, the gtr does not include a test to assess the ABS for stopping	IMMA agrees that a test is required and can accept most options. Internal
ABS Stops on high		discussions revealed 8 options and 2 of these have been forwarded to Transport
friction and low	US/TC self certification and also meets the European wish for a measure of	Canada for consideration and further discussion.
friction.	adhesion utilisation has not been agreed.	
4.9.3.2		IMMA generally agrees and proposes the following: "Wheel-lock, such as
ABS Stops on high		occurs at the moment of brake application, shall be allowed provided that the
friction	application shall be allowed provided that the stability of the vehicle is not	
	adversely affected.	Because this note is applicable to all ABS tests, it should be moved to 4.9.1
	Japan require the words in bold to be removed.	
	TC state that the words "periods" and "extreme" are too subjective.	
4.9.7.2	Regarding the sentence "After passing over the transition point between the	
Wheel lock check –	low and high friction surfaces, the vehicle deceleration shall increase".	changed.
low to high friction	NHTSA require values for deceleration and time to be added.	
