

Driver & Vehicle Standards Agency

Title	Heavy Goods Vehicles (HGV) AND Passenger service Vehicles (PSV) – RBT Spec retrospective changes		
Equipment purpose	Roller Brake Tester for HGV & PSV		
Author	DVSA Vehicle Testing & Roadworthiness		
Contact details	VTR@dvsa.gov.uk		
	Vehicle Testing & Roadworthiness		
	Driver and Vehicle Standards Agency		
	Berkeley House		
	Croydon Street		
	Bristol BS5 0DA		
Issue date	01/08/2022		
Revision history			

This document contains the software changes that are required for all machines retrospectively from the release of the RBT spec version

Important - These changes must be read in conjunction with the new full specification V5

RBT	Page	Summary
Specification	Number	Canina y
Section	Number	
	1	All broke officiency measurements within this area
Important	1	All brake efficiency measurements within this spec should be rounded DOWN to the whole number
note, top of document		whereas imbalance / ovality values should be
uocument		rounded UP to the next whole number. (Not using
		standard mathematics formulas/ formatting)
2.a.6	5	The display must include the system that is currently
	Ũ	being tested i.e., Axle number,
		service/secondary/park, N/S, O/S
2.a.9	5	On screen warning when ovality and bind limits
	•	have been breached, depending upon what is being
		tested (see ovality & bind sections)
2.a.10	5	Indicate individually for each roller set where a
		wheel lock occurs
2.3	7	(Complete section) Centralising vehicles on the
		RBT – Table added for mandatory and optional.
2.3	7	(Complete Section) Drive out assist added
3	8	The CCS must indicate:
		an overview of the systems to be checked e.g.,
		locations of park brakes, split system. The ability to
		amend this will be required before commencing
		the test as some brake codes may not accurately
		reflect the vehicle/trailer being tested.
		Tonoot the vehicle/trailer being toolog.
		Most likely park brake positions
3.c	9	Mentions and links to New Print out template added
4	9	(Complete Section) Calibration to ISO standard
9.Annex 1	14	(Complete Section) New menu added and what is
		optional and mandatory – retest option removed
9. Annex 1	15	Paragraph added for data audit
Annex 8	29	Split routine table added to allow for automatic
		calculation of secondary alternative where there is
	0.4	no split routine within the DTP fields
Annex 11	34	Added character "F" in the table for the end digit of
A 19 19 19 14 5	20	the DTP number being 8
Annex 15	38	Clarification for PSV DTP numbering, where
		character D & E were contradicted

Annex 16	41	Secondary brake and Optional systems (complete section for CCS calculation of secondary alternative on service brake split) Parking brake applied test - tyre damage avoidance added Transmission brake – on screen messages added as well as overrule procedure for one lock out of two
Annex 17 Bind	44	The CCS will warn the operator during the test, where measured bind is greater than 4% by means of an on-screen warning. The final report will show the bind in KGs and as a percentage.
Annex 17 Imbalance	45	Imbalance to be assessed on secondary as well as service (HGV & PSV only)
Annex 17 Time Lag	45	Time lag removed
Annex 17 Ovality	46	Complete section, Ovality test band of 25% to 35% on screen If the 70% threshold is breached during the test, then the CCS will display an on-screen warning
Annex 17 Advisories	46	 will show the following: a) Imbalance - where the resulting figure is between 25 and 30% b) Ovality - where the resulting figure is between 65 and 70% c) Bind - where the resulting figure is between 3% and 4% of the presented (measured) axle weight d) Low effort - where the resulting figure
		is between 5% and 10% of the

		presented (measured) axle weight per wheel
Annex 17 Hydraulic fall off	47	Test band of 25% to 35% added for rear axles
Annex 17 Locked wheels	48	(text added) The exception to this would be transmission park brake, if it is recorded that one wheel locks, then by virtue of that system the other side will also lock. If this scenario occurs, which is most likely when a wheel lifts off the load sensing bar, then it will deemed to have passed.
Annex 18 Brake performance calculations – Trailer	49	(Complete section) added in post 1 st Jan 2012 centre drawbar trailer calculations
Annex 18	50	Applied test tyre protection added
Annex 18 ULTAST	52	Note added - Any power raised roller beds must be disabled for ULTAST Free loaded retest removed
Annex 19 PSV Brake force calculations	54	(Complete Section) Secondary brake section to include automatic secondary alternative calculations added
Annex 19 Park brake	55	Tyre protection added for applied park brake test
Annex 19 Transmission Brake	55	Section added (same as HGV) for when PSVs have a transmission park brake
Annex 19 Related Aspects	56	Secondary imbalance added to the table
Annex 19 Hydraulic fall off	58	Complete section added to take into account second axle hydraulic brake fall off and %age band for testing
Annex 22	60	(Complete Section) New printout template with description
Annex 22	66	Add RBT serial number to required information to be printed
Annex 23	66	Voluntary test will now only be full test

Annex 24	67	Updated table
Annex 26	71	Flow charts improved along with Free Loaded retest removed
Appendix 1 Brake test Printout layout	75	New printout template