

Correct as at 11th December 2013. It may be superseded at any time.

Extract taken: from NZTA Vehicle Portal > VIRMs > In-service certification (WoF and CoF) > Introduction > Inspection premises and equipment

5 Inspection premises and equipment

- The inspecting organisation must continue to comply with the applicable requirements in this section.
- The inspecting organisation must maintain their premises and equipment in a good state of repair at all times.
- The inspecting organisation must use any specified equipment when inspecting a vehicle, where practicable.
- Brake performance testing equipment must be calibrated at least every 12 months, or more frequently if required by the equipment manufacturer.

5.1 Premises specifications

5.1.1 Access, exit, radius and brake test area specifications

Dimensions

Specification	Vehicle class		
	LC, LD, TA	LE, MA, MB, MC, MD1, MD2, NA, TB	MD3, MD4, ME, NB, NC, TC, TD
Minimum width of access to and exit from the inspection area	2.4m	2.8m	3.0m
Minimum height of access to and exit from the inspection area	2.0m	2.6m (3.0m TSDA)	4.5m
Access to a level test strip	Level test strip only required		
Minimum level access in front of roller brake machine (where used)	2.0m	5.0m	19m
Minimum level exit from roller brake machine (where used)	2.0m	5.0m	19m
Minimum turning radius	5.0m	8.0m	1
Marked turning circle diameter	N/A	N/A	25m ²

¹ 700mm clearance on each side of the 12.5m radius swept path for a B-train.

² May be located within 5km of inspection premises.

Other requirements and considerations

- The ground must be even and level (the ground will be considered level when it can be demonstrated that all vehicle combinations will remain stationary with all brakes released).
- The ground must be constructed of a material that will remain firm in all weather conditions.
- The access to or from the brake roller machine may encroach upon the inspection area.
- Inspections must take place in the inspection area unless otherwise permitted by the NZTA.

5.1.2 Inspection area specifications

Minimum dimensions

Specification	Vehicle class		
	LC, LD, TA	LE, MA, MC, MD1, MD2, NA, TB	MD3, MD4, ME, NB, NC, TC, TD
Inspection area width	2.4 m	3.5m (TSDA 4.0m)	5.0m – see (c) below
Inspection area height	2.5 m	3.0 m	5.0 m
Inspection area length	3.0 m	6.0 m	23.0m – see (g) below

Other requirements and considerations:

- The inspection area must be situated within a building that has a roof, sides and doors made of permanent building materials.
- The inspection area must be clear of all structural and equipment intrusions apart from the vehicle hoist and roller brake machine.
- The inspection area width for vehicle classes MD3, MD4, ME, NB, NC, TC and TD may overlap any adjoining inspection area for the same vehicle class up to 1 m along its length.
- The inspection area floor must be smooth concrete or tar seal.
- The ground must be even and level. That is, all vehicle combinations must remain stationary with all brakes released.
- There must be sufficient suitable lighting in the inspection area.
- The minimum inspection area length for vehicle classes MD3, MD4, ME, NB, NC, TC, TD may be reduced to 16m for drive-through premises.
- The inspection area length must be increased by 3m where a light board is used for testing headlamp alignment.

5.1.3 Minimum underbody inspection area specifications

Available options		Vehicle class		
		LC, LD	LE, MA, MB, MC, MD1, MD2, NA, TB, TA	MD3, MD4, ME, NB, NC, TC, TD
At least one of the following as applicable				
Vehicle hoist		N/A	WoF/CoF	N/A
Inspection pit	Width	N/A	0.8–1.0m	0.8–1.0m
	Depth	N/A	1.3m	1.3m
	Length	N/A	4m	Side entry: 10m End entry: 15m

Other requirements and considerations

- The underbody inspection facility must be located and centrally aligned within the inspection area.
- The pit length is measured at the base of the pit and does not include any steps that may be located at the ends.
- There must be sufficient and suitable lighting provided for the underbody inspection.

5.1.4 Warrant of fitness equipment

A tick means that the equipment is to be available for inspecting the indicated class of vehicle.

Equipment	Vehicle class			
	LC, LD	LE, MA, MB, MC, MD1, MD2, NA	TA, TB	NB, NC, TC, TD
Lamps				
Graduated light board (motorcycles only), or Commercial quality optical headlamp beam tester	✓	✓		✓
Vision				
Calibrated light transmission measuring device (optional)		✓		✓
Brakes				
Access to an NZTA-approved decelerometer, or an NZTA-approved roller brake machine		✓		✓
Air gauge (minimum 1000 kPa)				✓
Fittings that enable the air gauge to be attached to a duomatic coupling				✓
Stop watch				✓
Running gear				
a) Two-post vehicle hoist and industrial quality trolley jack	f only	f and any one of a–e	Any one of d–f	Any one of d–e, f optional
b) Four-post vehicle hoist with built-in jacking mechanism				
c) Four-post vehicle hoist and industrial quality trolley jack				
d) Inspection pit with in-pit jack				
e) Inspection pit and industrial quality trolley jack				
f) Industrial quality trolley jack and four axle stands				
Industrial quality hand-held inspection lamp	✓	✓	✓	✓

Steel test bar for steering and suspension		✓	✓	✓
Steel test bar for ball-race turntables				✓
Graduated tyre tread depth gauge	✓	✓	✓	✓
Vehicle dimensions				
3m measuring tape	✓	✓	✓	
25m measuring tape				✓
Tow connections				
40mm tow pin wear indicator gauge				✓
50mm tow pin wear indicator gauge				✓
40mm tow eye wear indicator gauge				✓
50mm tow eye wear indicator gauge				✓

5.1.5 Certificate of fitness equipment

Equipment	Vehicle class			
	LC, LD	LE, MA, MB, MC, MD1, MD2, NA	TA, TB	MD3, MD4, ME, NB, NC, TC, TD
Lamps				
Graduated light board (motorcycles only), or Commercial quality optical headlamp beam tester	✓	✓		✓
Vision				
Calibrated light transmission measuring device (optional)		✓		✓
Brakes				
Access to level test strip	✓			
NZTA-approved roller brake machine		✓		✓
Air gauge (minimum 1000 kPa)				✓
Fittings that enable the air gauge to be attached to a duomatic coupling				✓
Stop watch				✓
Running gear				
a) Two-post vehicle hoist		any one of a–e	any one of d or e	any one of d or e
b) Four-post vehicle hoist with built-in jacking mechanism				
c) Four-post vehicle hoist and industrial quality trolley jack				
d) Inspection pit with in-pit jack				
e) Inspection pit and industrial quality trolley jack				
f) Industrial quality trolley jack and four axle stands				

Industrial quality hand-held inspection lamp	✓	✓	✓	✓
Steel test bar for steering and suspension		✓	✓	✓
Steel test bar for ball-race turntables				✓
Graduated tyre tread depth gauge	✓	✓	✓	✓
Vehicle dimensions				
3m measuring tape	✓	✓	✓	
25m measuring tape				✓
Tow connections				
40mm tow pin wear indicator gauge				✓
50mm tow pin wear indicator gauge				✓
40mm tow eye wear indicator gauge				✓
50mm tow eye wear indicator gauge				✓
Taxi meters				
Test strip, or Calibrated rolling road		✓		
Meter seal kit		✓		
Stop watch		✓		

5.1.6 Compliance with statutory requirements

It is the inspecting organisation's responsibility to ensure that the inspection premises and equipment comply with:

- Occupational Safety and Health requirements, and
- any other relevant Acts, regulations, and local bylaws.

5.1.7 Approved brake test equipment (WoF)

Note The vehicle inspector must use an approved brake tester when carrying out the brake test. Should the tester break down, or a vehicle cannot reasonably be tested with that tester, the vehicle must be tested with another approved brake tester or undergo the brake distance test.

Manufacturer	Models	Gazette notice details
Anzen	BS52FL Roller brake testing machine	26 October 1989, No 189, p 5299
Autoteknik	Portable truck brake testing machine Model No BM20200	30 January 1997, No 8, p 190
	Model No BM8010 (with or without the facility to test the brakes on dedicated 4WD vehicles)	2 May 1996, No 41, p 1182
	BMX200 Roller brake testing machine	12 November 1998, No 184, p 4350
	BMX010 Turbo roller brake testing machine	14 January 1999, No 246, p 65
	Model BM17200	10 August 2000, No 89, p 2184
Auto Test Products	AutoStop Mini 1.0 AutoStop Maxi 6.2 and 6.2x AutoStop HVBM	5 December 2000, No 164, p 4262
	AutoStop Micro Plus AutoStop Mini Plus	3 March 2011, No 23, p 623
Banzai	BBT51S Roller brake testing machine	26 August 1989, No 189, p 5299
Bear	450, 451, 452, 4510 and 4511	7 March 1957, No 20, p 449
BM Autoteknik	BM17200	1 August 2000, No 89, p 2184
	BM7010	31 October 2000, No 150, p 3866
	BM30200 (upgraded Crypton EB30)	5 December 2000, No 164, p 4262
	BM63200 (upgraded Crypton 630)	12 March 2002, No 28, p 626
	BM3010, BM9010, BM12200	30 March 2001, No 37, p 830
	14200 series	17 April 2008, No 73, p 2055
	BM4010	14 December 2006, No 172, p 5032
Bowmonk	Brake Check Model 801	25 May 2006, No

		46, p 1232
Bowmonk	Brake Check Model 803	25 May 2006, No 46, p 1232
Bowmonk	Model MkIII Dynamometer	25 August 1960, No 54, p 1281
CEMB	DCA 3 Roller brake testing machine	10 June 1999, No 67, p 1549
	DCA5-FN3	25 June 2009, No. 94, p 2117
Circuitlink	Brake Check	22 May 2003, No 53, p 1380
	Brake-Testa Model BT1	25 May 1995, No 50, p 1282
Crypton	Crypton Bradbury E10 dynamic brake tester	16 March 1967, No 16, p 384
	Crypton Models 630 and 660 Roller brake testing machine	26 October 1989, No 189, p 5299
	Crypton 690A brake tester	14 August 2003, No 101, p 2689
Hammar	Dynometer 54	21 March 1968, No 15, p 474
Hartridge	MkII Brake tester	3 September 1970, No 53, p 1574
Hoffman Werkstatt	Brekon 131-3 Brekon 131-4 and 4S Safeline Pro testing lanes that include one of the following: Brekon 130-3 Brekon 130-4 and 4S Safeline Truck testing lanes that include brake testing devices suitable for 10, 13, 16 or 18 t axle load at a test speed of 2.6, 2.8, 5.2, or 5.6 km/h	25 September 2001, No 135, p 3469
	Brekon 141-3 and 141-4	9 November 2006, No. 132, p 3837
HPA	Models 2302, 2303, and 2313-MK Roller brake testing machine	22 March 1973, No 23, p 524
	Model 5023 Roller brake testing machine	29 June 1995, No 64, p 1733
	Model LX5004.138.009 Roller brake testing machine	21 March 1996, No 28, p 867
Hunter	B400 Plate Brake Tester	19 September 1991, No 140, p

		2992
	B404 Plate Brake Tester	22 August 1991, No 126, p 2727
Intertech	Model No HH650 EV	7 March 1996, No 23, p 735
Kismet	Model Nos KBT 300, 301 and 302	22 March 1973, No 23, p 524
MAHA	MAHA PP2 Platform brake tester (digital and analogue)	6 October 1988, No 170, p 3973
	MAHA Platform brake tester Model Junior-Check 2P	14 September 1995, No 99, p 3102
	MAHA Platform brake tester MPP 2240	9 June 2011, No 81, p1909
	MAHA Roller brake testing machine Model IW 2 Series	24 February 1994, No 16, p 914
	MAHA Roller brake testing machine Model IW 4	21 March 1996, No 28, p 867
	MAHA Roller brake tester Model IW 7 Mobile	15 June 2006, No 52, p 1430
	MAHA Roller brake tester Model MBT 2100	17 December 2009, No 188, p4524
	MBT 5250 and MBT 4250 Eurosystem (was Model IW 4)	17 October 2013, No 143, p 3914
Muller BEM	Billanmatic series 45200, 43300, 44800, 44700 Note the model number may also include B, 2V, B-2V Billanmatic series 7300, 7500, 7700, 8600, 10000	5 December 2000, No 164, p 4262
Nepean	Model Barbie 14104 Vehicle inspection trailer	11 June 1998, No 79, p 1760
Nissalco	Model IM2581 Roller brake tester	3 December 1981, No 145, p 3661
	Model M2581 Super-Combi Tester	24 June 1999, No 75, p 1696
PlateTronic	Models Pitstop 2P, Pitstop 4P Platebrake tester	9 April 2009, No 48, p 1177
Shenzhen Cosber Industrial Co Ltd	Model Cosber KZD-3 series of roller brake testing machines	25 September 2008, No 143, p 3901
Simaret	Models Simaret BrakeSafe, Simaret 3000, Simaret F	12 November 1998,

		No 184, p 4350
Tapley	Tapley portable brake tester	7 March 1957, No 20, p 449
Tecalemit	Model No DE 5000 CU Roller brake testing machine	22 February 1996, No 15, p 508
Tiangle	Brake testing instruments Commercial Vehicle Model and Standard Model (Ref. DBT2)	5 May 1966, No 25, p 737
Vane	Vane Bowmonk dynamometer	16 March 1967, No 16, p 384
Vehicle Inspection Systems Pty Ltd	VIS-Check, VIS-TF-RL and VIS-VE-RL	4 March 2010, No 25, p 580
Vericom	Model VC2000 and VC2000PC brake testing computers	26 October 1995, No 122, p 3775
	Model VC3000	27 March 2003, No 30, p 847
Vipac	Model VBT101 brake-tester	23 June 1994, No 62, p 2089, or 25 May 1995, No 50, p 1282
VTEQ S.L. (Spain) (previously BCN)	VTEQ 3080	14 August 2003, No 101, p 2689
	VTEQ 2080	17 February 2004, No 17, p 372
	VTEQ 6000 (analogue) VTEQ 7000 (digital)	9 November 2006, No. 132, p 3837
Weaver	WY-25, WY-30, WY-40S, WY-55, WY-60, WY-70S, WY-75 and WY-76	7 March 1957, No 20, p 449

5.1.8 Approved brake test equipment (CoF)

Note A decelerometer from the WoF list under 5.1.7 may be used only under special circumstances, such as the roller brake machine breaking down unexpectedly, or being presented with a vehicle that cannot be reasonably tested on the roller brake machine. Refer to Heavy vehicle brake testing protocol for detailed requirements.

Manufacturer	Models	Gazette notice details
Autoteknik	Portable truck brake testing machine Model No BM 20200	30 January 1997, No 8, p 190
	Model BM 17200	10 August 2000, No 89, p 2184
BM Autotechnik	BM17200	1 August 2000, No 89, p 2184
	BM12200	30 March 2001, No 37, p 830
MAHA	MAHA Roller brake testing machine Model IW 4	21 March 1996, No 28, p 867
	MAHA Roller brake tester Model IW 7 Mobile	15 June 2006, No 52, p 1430
	MBT 5250 and MBT 4250 Eurosystem (was Model IW 4)	17 October 2013, No 143, p 3914
Nepean	Model Barbie 14104 Vehicle inspection trailer	11 June 1998, No 79, p 1760
Simaret	Models Simaret BrakeSafe, Simaret 3000, Simaret F	12 November 1998, No 184, p 4350
Tiangle	Brake testing instrument Commercial Vehicle Model	5 May 1966, No 25, p 737
Vehicle Inspection Systems Pty Ltd	VIS-Check, VIS-TF-RL and VIS-VE-RL	4 March 2010, No 25, p 580
Vericom	Model VC2000 and VC2000PC Brake testing computers	26 October 1995, No 122, p 3775
	Model VC3000	27 March 2003, No 30, p 847
VTEQ S.L. (Spain)	VTEQ 7000 (digital)	November 2006, No 132, p3837