

ACTIA MULLER



Garage equipment



2009 • 2010



ACTIA MULLER



Worldwide Presence



ACTIA MULLER



Two big names combined to provide the best in garage and vehicle testing equipment.

MULLER^{BEM}



ACTIA[®]



In 2003, the ACTIA group – a partner of major automotive manufacturers for the design, diagnosis and production of on-board systems – acquired the MULLER BEM brand, a benchmark for garage equipment and vehicle testing since 1919.

ACTIA MULLER, born out of this merger, now offers a complete range of electronic diagnostics, garage equipment and vehicle test lanes.

ACTIA MULLER

**Our commitment to professionals in servicing,
repair and vehicle testing.**

Keeping ahead of the game

In 1953 MULLER BEM[®] created the brake tester bench, and in 1985 ACTIA[®] invented automotive diagnostics with the XR 25, the first electronic diagnostic tool. These examples, among numerous other innovations, bear witness to the pioneering spirit which drives the two brands and highlights their role in the aftermarket and vehicle inspection sectors.

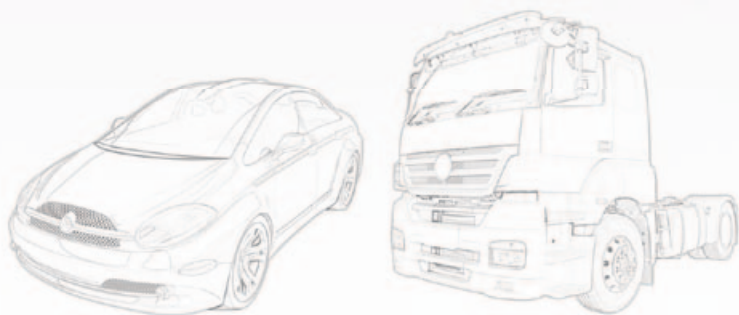
Backed by ACTIA Group's investments in R&D (15% of annual turnover), ACTIA MULLER knows how to stay ahead of the game. The multiplexed test lane, the shock absorber tester, new measuring heads for wheel alignment equipment, mobile vehicle testing stations or innovations in the field of multi-marque diagnostics are further developments that are changing the daily lives of our customers and are steering the aftermarket towards motorist advice and safety.

Guaranteeing high quality

Designed and developed in France, ACTIA MULLER products are manufactured in the group's production facilities. A certified environment, with high tech industrial equipment, these factories meet the very stringent requirements of the automotive and aeronautical sectors (another field of activity for the ACTIA Group).

Guaranteeing efficient local service

Quality service means proximity and fast response. ACTIA MULLER also provides medium sized companies deployed throughout the world to assist its customers. Therefore some forty agents and distributors, almost half of which are subsidiaries of the ACTIA Group, provide support and service for ACTIA MULLER equipment in 140 countries. If the major motor manufacturers, vehicle testing networks and players in the automotive aftermarket have placed their confidence in us, it's because for 90 years, we have been at their side listening to them.



Contents

Garage Equipment

Tyre & Wheel • (Light/Commercial Vehicles) _____ **05**

Wheel Aligners	06
Wheel Balancers	10
Tyre Changers	14
Expert Shock Absorber Tester	18

Multi-make diagnostics • (Light/Commercial vehicles) _____ **21**

Multi-Diag® for cars and vans	22
Multi-Diag® Trucks for truck, trailer, bus & coach	26

The Bilanmatic 8000 Mx pre-test lane _____ **30**

Lifting Equipment _____ **33**

Full platform Lifts	34
Short Platform Lifts	38

Emissions Testing • (Light/Commercial vehicles) _____ **41**

ACTIGAS	42
MULTIGAS	44

Air-conditioning • (Light/Commercial vehicles) _____ **46**

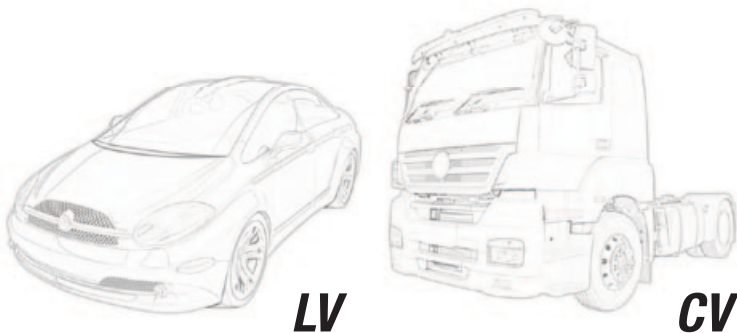
Headlamp Aligners • (Light/Commercial vehicles) _____ **48**

Tachograph Products _____ **50**

ACTIA MULLER



Tyre & Wheel



Wheel Aligners

The equipment in our range offers measurement of cars, vans and commercials (trucks, trailers, bus and coach) Our equipment can also be used to assess severely damaged vehicles and vehicles involved in accidents.



ACTIA MULLER strengths

Profitability

Using the unique program for 2-post lifts (patented by MULLER BEM) allows full wheel alignment as well as:

- occupying a minimal footprint in the tyre bay
- using an existing workstation not dedicated solely to wheel alignment
- full access to all vehicle components (during the adjustment phase)
- saving time: the wheel alignment unit moves to the vehicle
- better management of the flow of vehicles in the workshop

User-friendly and easy to use

With the new user interface which is simpler and more user-friendly, onscreen animations help the operator when positioning or adjusting the vehicle. Combining ergonomics and aesthetics, these animations guarantee better measurement..

graphical printout displays the faults observed on the vehicle to clearly justify work carried out..

All our models are equipped with high-tech CDD measuring heads.

Each head carries out 2 measurements by means of an integrated bidirectional camera equivalent to an 8 sensor system on the horizontal plane (patented by MULLER BEM). The wheel alignment arms of our units offer other high performance features:

- Keyboard allowing all operations to be carried out remotely
- Electronic display to view readings
- (spirit level, battery life)
- Bidirectional camera – battery life 10 hours (in use)
- Reinforced arm structure

Reliable

The 8 sensors of the 4 bidirectional cameras (patented by MULLER BEM) guarantee more accurate measurement. Moreover, the 8668 and 8678 models which have radio connectivity, are equipped with the new optoelectrical system (patented by MULLER BEM) to measure steering lock divergence at 20° and maximum steering lock without an electronic turntable.

Fast

The possibility of carrying out a simultaneous 4 wheel alignment saves time when measuring rim warp.

ACTIA MULLER equipment

Light Vehicle range

8658 entry level
ref. 8658-171P



8668 with radio connectivity
ref. 8668-171P



8678 for intensive use, with industrial PC
ref. 8678-20PR1



LTS the laser wheel aligner: simple,
fast and independent
ref. LTS903-C





ACTIA MULLER equipment

Commercial range



8678PL
ref. 8678-20PRPL

Industrial PC

Easy to use Windows®-based alignment software.

Measures maximum steering lock (without electronic roller bearing turnplates).



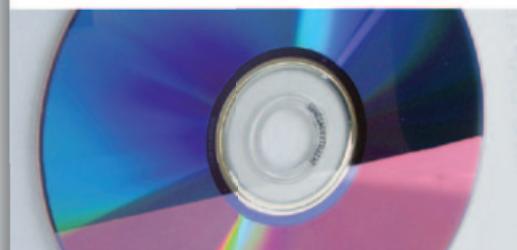
ACTIA MULLER equipment

Accessories and options

ref. 121690
Set of 4 25" extensions



ref. 8678 / 120310
Manufacturer database update



ref. 19750
Light vehicle roller bearing
turnplates



ref. 667
Compression bars



ref. 43900-TU-K2
Universal rim adapters



ref. 14432
Commercial roller bearing turnplates



Wheel Balancers

A complete, matching range adapted to your requirements. The new ACTIA MULLER range is designed to accurately balance all wheels with steel, aluminium and "Run Flat" rims (e.g. PAX Michelin, Goodyear, Pirelli etc.) on cars, 4x4's, commercial vehicles, motorcycles and scooters.



ACTIA MULLER strengths

Speed, Accuracy, Robustness

Configuration menu for a simple selection of available options

Several programs are available, depending on the rim type:

- Standard program for steel or aluminium rims
- Special programs for aluminium rims
- Program for selected plans
- Program for hidden weights
- Tyre fitting optimisation program

Fully automatic measuring cycle

Balancing accurate to 1 gram

Readings given in grams or ounces

Measurement in inches or millimetres

Self-diagnosis, self-testing, self-calibration

Automatic minimisation of residual static unbalance

ACTIA MULLER equipment

Light/commercial vehicle range

Serie 3600 entry-level

ref. 3608C4-KP

Optional hood: ref. CB-5658-KP



Serie 3700 for intensive use

ref. 3709C4-KP

Optional automatic wheel measurement kit: ref. CB-86SB35179



ACTIA MULLER equipment

Light/commercial vehicle range

Série 3800 total convenience

ref. 3809C4-KP

Optional automatic wheel measurement kit: ref. CB-86SB35179



*Series 3200 PL commercial balancer with lift system
for effortless and easy positioning of the wheel*

ref. 3208PL-KP

With mounting accessories



ACTIA MULLER equipment

Accessories and options



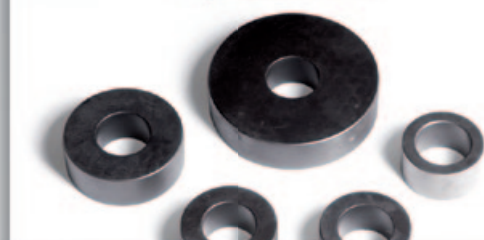
ref. CB40FF57321
Stepped cones for German rims

ref. CB41FF7317
PSA cones

ref. CB41FF77152
Renault spacers

ref. CB41FF67752
Universal motorcycle adapter kit

ref. CB41FF53853
Adapters with centring studs



Tyre Changers



The ACTIA MULLER range is focussed on reliability and performance. Our modular tyre changers are designed to add optional assistant arms to enable fitting or removal of very rigid or “Run Flat” tyres.



Automatic Tyre Changers

ref. 4886

The Tyre Changers 4886 is fitted with a pneumatic tilting column. Locking and retraction of the operating head to and from the rim are carried out simultaneously and automatically. Therefore, no readjustment is necessary when the operator is working on several identical tyres.

- Bidirectional rotation
- Pre-adjustment slide on the turntable
- Self-centring chuck
- Intuitive, step-by-step controls
- Reinforced bead breaker design
- Handy holder for accessories



Main specifications

	4886	4895
Clamping on inside of rim	12" - 23"	15" - 28"
Clamping on outside of rim	10" - 20"	13" - 24"
Maximum wheel width	406 mm (16")	406 mm (16")
Maximum wheel diameter	1040 mm (40")	1200 mm (47")
Bead breaker force	2,5 T	2,5 T
Operating pressure	8 - 10 bar	8 - 10 bar
Power supply	380 V 3-phase	380 V 3-phase
Motor power	0,75 kw	0,75 kw

Fully automatic Tyre Changers

ref. 4895-2

The Tyre Changers 4895 is fitted with a pneumatic tilting column suitable for changing tyres on car, and lightweight light commercial wheels. Designed for intensive use, this unit is particularly suitable for tyre specialists.

- Side pedal to control inflation
- Tubeless tyre inflation system



ACTIA MULLER equipment

Commercial range

Electro-hydraulic tyre changers for commercial agricultural and earthmoving vehicle/machinery tyres. The dimensions and modes of operation allow ultimate efficiency when working on a complete range of tyres.

Semi-automatic Tyre Changers 14"/24,5"
ref. 2650-912

Automatic Tyre Changers 12"/26"
ref. 2650-913

Automatic Tyre Changers 12"/42"
ref. 2650-914

Super-automatic Tyre Changers 14"/46"
ref. 2650-915



ACTIA MULLER equipment

Accessories and options

ref. ST886408
Set of 20 plastic jaw protectors

ref. ST886217
Set of 10 under-head plastic inserts

Assistant Arms 4320

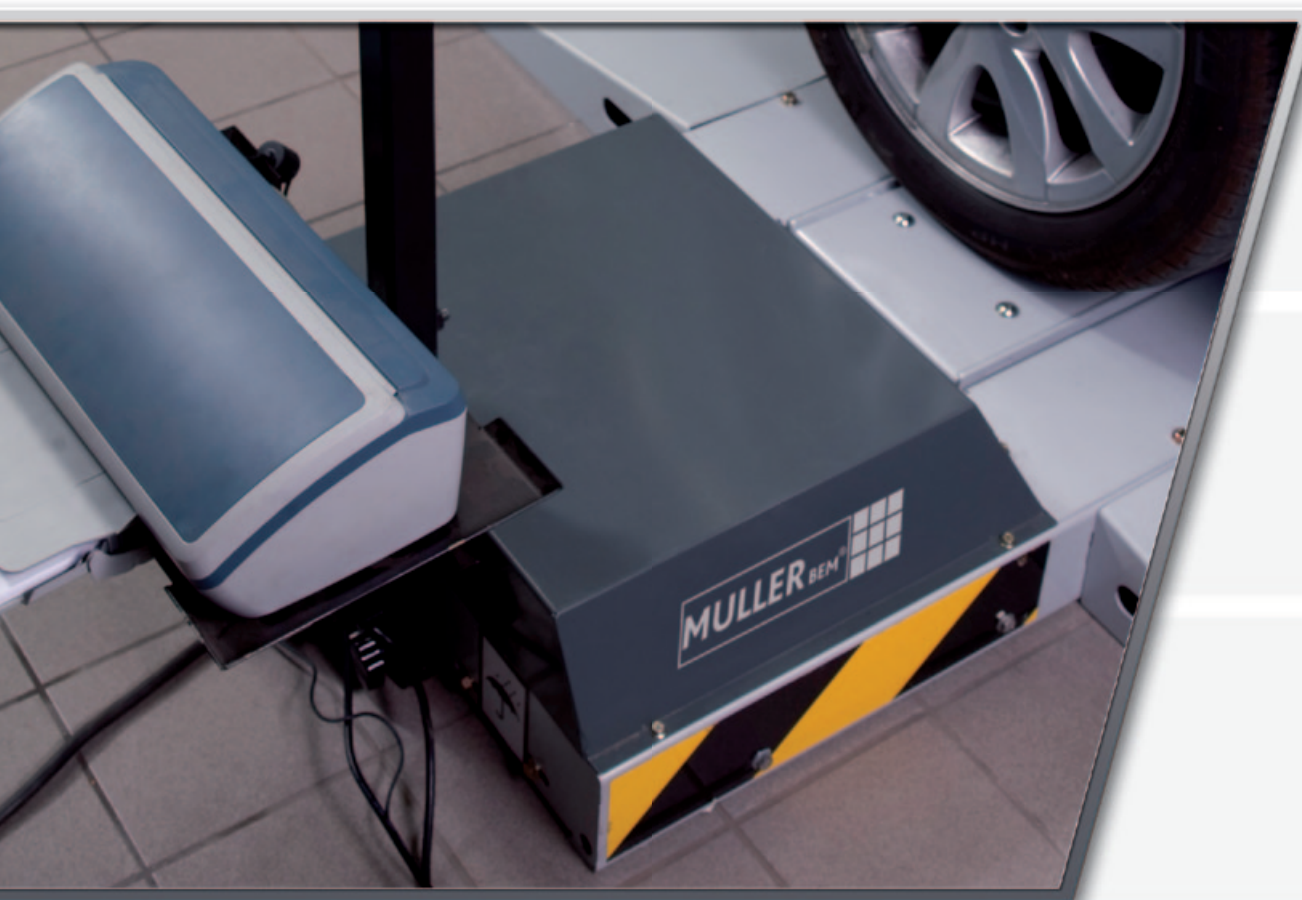
Assistant Arms :

- **4320** *Recommended for rigid and Run Flat tyres.*

Because the bead press is located near the operating head, it retains the tyre in the rim groove during its rotation and facilitates the insertion of the bead breaking lever.



Expert shock absorber tester



A revolutionary test chassis to isolate and assess shock absorber wear.

Simple to use, the Expert Shock Absorber Tester carries out a complete test of the vehicle's shock absorbers in 3 minutes.

The Expert Shock Absorber Tester offers a real technological breakthrough by analysing the shock absorber's response to its variable resonance frequency. The result obtained is totally independent of tyre pressure and vehicle load.

In addition to its accuracy, the Expert Shock Absorber Tester has other advantages :

- Easy to install (no civil engineering work required)
- Simple to use
- Test results displayed quickly
- Reliability

More than 1 in 4 vehicles has worn shock absorbers. With the Expert Shock Absorber Tester you can increase your sales of shock absorbers by 25% (average recorded over a 3 month period with almost 400 customers in 2006).

ACTIA MULLER equipment

Light vehicle range

*Fixed surface mounted version with
premium console*

ref. 1004E020AFK

Installation without civil engineering works :

- Expert shock absorber tester secured to the floor
- Fixed premium console
- Industrial PC with 20" flat screen
- Printer

*Recessed version for flush fitting,
with premium console*

ref. 1004E021AMK

Includes :

- Expert shock absorber tester secured to the floor
- Fixed premium console
- Industrial PC with 20" flat screen
- Printer



Light vehicle range

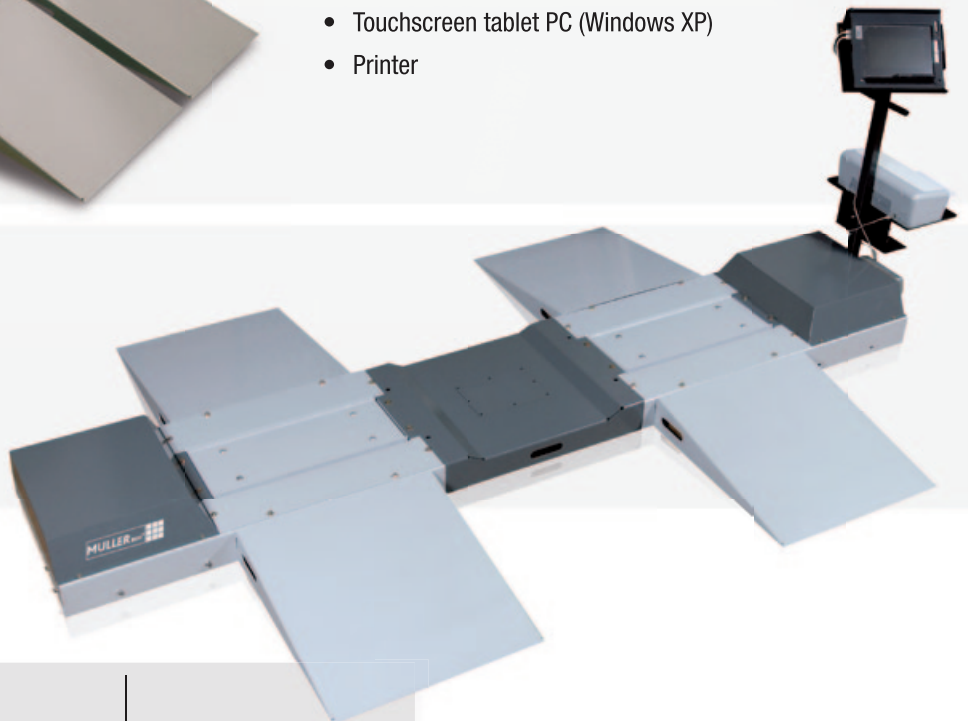
Mobile version with trailer ref. 1004E020AFM

Supplied with a trailer and mobility kit, this version is installed in less than 15 minutes.

It enables you to use the tester to boost shock absorber sales at multiple sales points.

Includes :

- Expert shock absorber tester
- Trailer with loading system
- Mobility kit for positioning the test chassis
- Touchscreen tablet PC (Windows XP)
- Printer

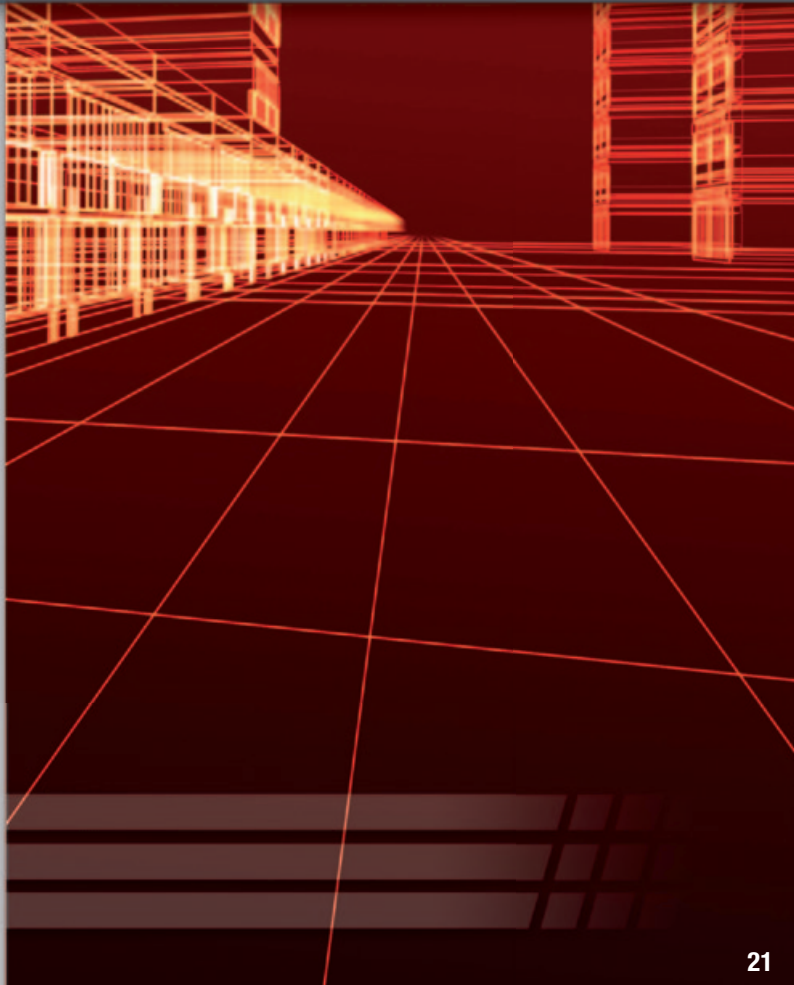
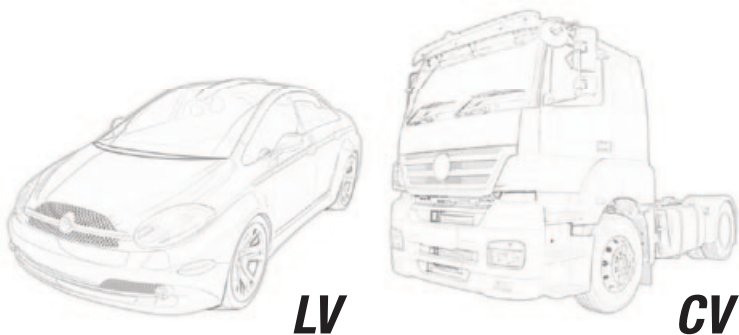


Technical specifications

Maximum axle load	2500 kg
Maximum frequency	25 hz
Minimum frequency	3 hz
Excitation amplitude	+/- 3mm
Phase measurement sensor	One per wheel
Force measurement sensor per stress gauge	
Integrated weighing	
Motor power	2x 2,2kw
Minimum drive through axle width	836mm
Maximum drive through axle width	2096mm
Chassis power supply	400V 3-phase – 50 Hz
Console power supply	230V single phase – 50 Hz
Footprint	3100 x 600 x 228 mm
4 access ramps	630 x 692 mm
Drive through height	120 mm



Multi-make Diagnostics



Multi-Diag®

for cars and vans

Over 10,000 garages have already chosen Multi-Diag®.

A multi-make diagnostic tool stamped ACTIA® is the guarantee of unique diagnostic know-how. Having developed the first electronic diagnostics in 1985, ACTIA® is in fact the partner of all the major vehicle manufacturers and their networks.



Multi-Diag® strengths

Multi-Diag® is with you every working day in all automotive service and repair operations.

For all major car makes you will have fast, very easy access to the diagnostic functions:

- Service light resetting
- Read / Erase fault codes
- Read parameters (graphical display)
- Actuator testing
- ECU configuration
- Coding (Injectors, Electronic valves etc.)
- Calibration and adaptive systems

All the tools in the Multi-Diag® range already meet Euro 5 requirements. Since its launch in 2003, Multi-Diag® is in fact the only multi-make tool to have "Full Euro 5" status.



Multi-Diag® : you are always one step ahead

Every year since its launch in 2003, Multi-Diag® has offered its subscribers major innovations for even simpler and more efficient diagnostics:

- Professional mode for "straight to the point" diagnostics: whatever the make and model, select an operation and Multi-Diag® does the rest: servicing, tyre and wheel, brakes, air-conditioning, emissions, body, equipment, engine.
- Expert mode for advanced ECU diagnostics, physical measurements and configuration.
- Express Diag function: an ACTIA® exclusive for complete vehicle diagnosis with a single click.
- Interactive links to the main technical documentation on the market.
- Printed diagnostic report detailing your work and justifying your charges to the customer.
- Automatic vehicle detection as soon as the OBD cable is connected. .



Multi-Diag®

for cars and vans



Bluetooth technology



Multi-Diag® master Ref. AC980042KP

A tough and extremely robust diagnostic platform designed for your garage.

A 12" colour touchscreen tablet PC with integrated DVD-ROM drive. Multi-Diag® master communicates via Bluetooth with its multi-protocol (notably Full Euro 5) vehicle communications interface, and has a WIFI module allowing connection to the wireless network in the garage. Multi-Diag® master is supplied with its accessories: 16-pin OBD cable and carry case.



Multi-Diag® mobile Ref. AC965020

A light, compact tablet PC.

An 8" colour touchscreen tablet PC with external DVD-ROM drive. Multi-Diag® mobile communicates via Bluetooth with its multi-protocol (notably Full Euro 5) vehicle communications interface, and via WIFI to the garage network. Multi-Diag® mobile is supplied with its accessories: 16-pin OBD cable and carry case.

Multi-Diag®

for cars and vans



Multi-Diag® access

Ref. AC980041

A communication kit for PC

A multi-protocol (notable Full Euro 5) communications interface for vehicle diagnostics with any PC*. The Multi-Diag® access communication kit is available in wired or Bluetooth versions and is supplied with a 16-pin OBD cable and carry case.

Commissioning option: ref. MESMULTIDIAG

*Minimum system requirement: Windows XP or Vista 32 bits - 256 MB RAM – 10 GB free HDD space – DVD drive – USB port – SVGA screen 800x600 minimum.



Annual Multi-Diag® subscription

«updates and services»

- Updates: an upgradeable tool, every year Multi-Diag® offers you 3 updates on DVDROM and intermediate internet updates to incorporate new vehicles, new functions and the latest ACTIA® innovations.
- Assistance: you benefit from the best ACTIA® diagnostic expertise via a telephone hotline and through remote access to your diagnostic tool.
- After-sales service: with Multi-Diag® you benefit from the quality of service provided by ACTIA® to the after-sales networks of the major automotive manufacturers, together, in particular, with an unlimited hardware warranty (standard replacement in 48 hours)*.

1 year's subscription for software and services

For Multi-Diag® master and mobile: ref. ABTMDM

For Multi-Diag® access: ref. ABTMDA

(must be added to your order for Multi-Diag® hardware in the first year, and renewable annually thereafter)



* warranty terms may vary from one country to another – contact your distributor for details

Multi-Diag® LV

Accessories and options

Technical documentation

The main technical documentation on the market can interface with your Multi-Diag® tool for direct access during diagnostic sessions. Ask your dealer for advice

ref. AC965400

Asian Kit: a specific kit (wired communications interface and a set of cables) to diagnose Asian makes: Daewoo, Daihatsu, Hyundai, Honda, Mitsubishi, Samsung, Suzuki etc. This kit benefits from specific updates.
Updates - Ref: AC981001

ref. AC964240

Multi-Diag® Scope physical measurement module: the advanced functions of multimeters and an oscilloscope for in-depth diagnostics.

ref. AC511145

Tyre valve forcet to configure electronic tyre valves.

ref. AC964093

Multi-Diag® master docking station to optimise the use of your tool and recharge the battery.

ref. AC911898

Cable kit to diagnose older vehicles not fitted with an OBD socket: Fiat, VAG, Renault, Opel, Seat, Skoda, PSA, Ford, BMW and Mercedes.

ref. AC931338KP

Dedicated, mobile and robust workstation complete with Multi-Diag® docking station.

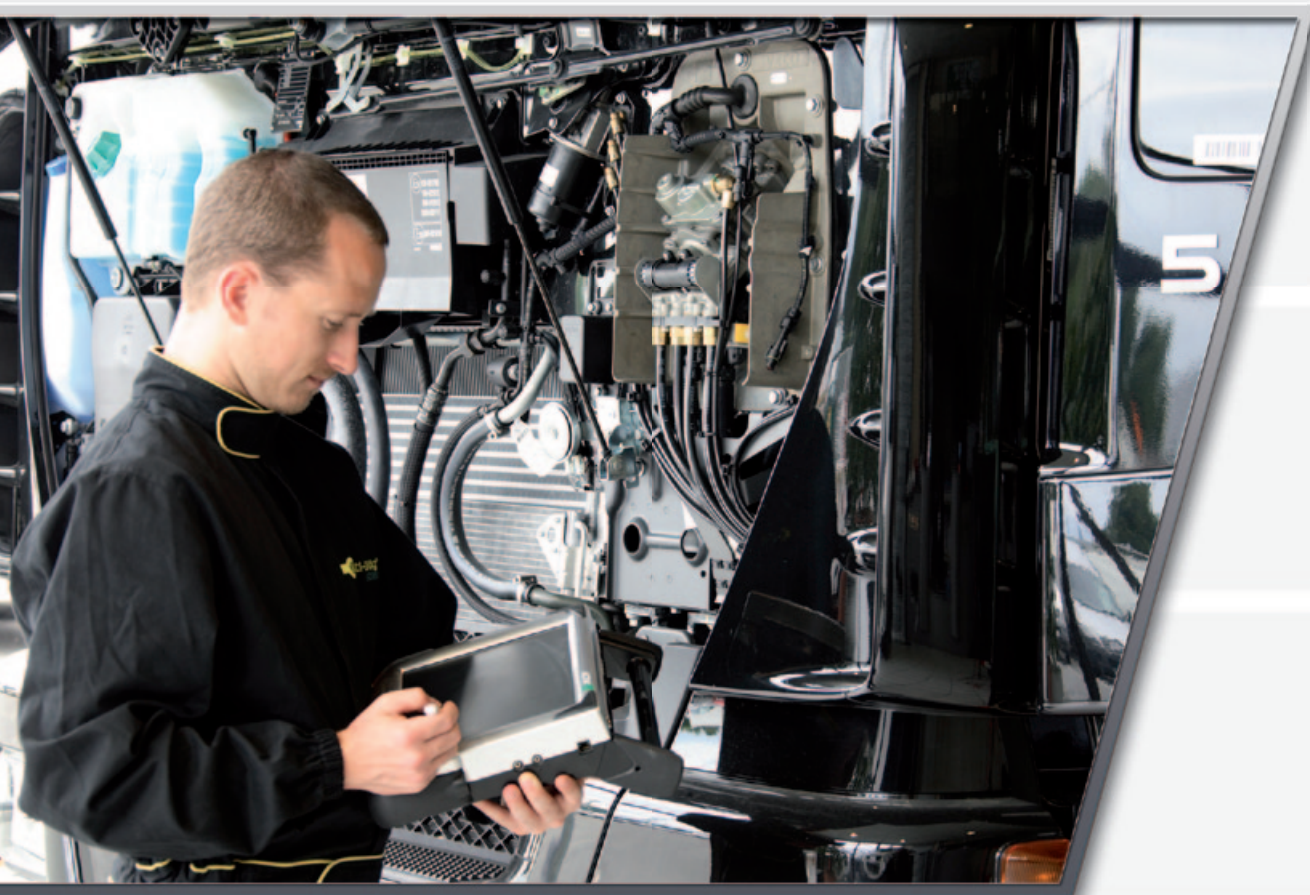


Multi-Diag[®]

for truck, trailer, bus & coach

ACTIA®'s double expertise

The Multi-Diag[®] Trucks range, launched by ACTIA[®] in 2008, benefits not only from ACTIA[®]'s know-how in vehicle diagnostics, but also from the experience of the group in dealing with major commercial and industrial vehicle manufacturers for whom ACTIA[®] develops on-board electronic systems.



The advantages of a high performance range

Complete diagnostic solutions

Multi-Diag[®] Trucks enables you to diagnose systems on all major truck, bus and coach makes, as well as electronic equipment on trailers: Mercedes, Iveco, Renault Trucks, Scania, Volvo, Man, Nissan, DAF, Askam, Avia, BMC, Ford, Freightliner, International, Kenworth, Mack, Peterbilt, Bova VDL, Setra, Volkswagen, ERF, Knorr-Bremse, Wabco, Haldex etc.

Complete functionality for your diagnostic work

Multi-Diag[®] Trucks incorporates the key service and repair functions: read/ erase faults, actuator testing, parameter reading, ECU configuration, calibration, resetting etc. on the main vehicle systems: injection, ABS, EBS, EDC, suspension, retarder, gearbox, brakes, central ECU, comfort systems, dashboard, airbag system, tyre valves, tachograph, air-conditioning, immobiliser, steering etc.

Simple to use

Multi-Diag[®] Trucks adopts a diagnostic approach that is both simple and intuitive, with guided diagnostic methods and procedures in particular.

Technical documentation integrated in the tool

Integrated in Multi-Diag[®] Trucks (not an optional extra), the technical documentation is not only accessible from the main menu but above all, interactively, from the different stages of a diagnostic procedure. This technical documentation contains technical vehicle data, wiring diagrams, components and repair procedures etc

A diagnostic solution designed for commercial workshop and roadside operations

Perfectly adapted to your professional environment, Multi-Diag[®] Trucks is a mobile diagnostic solution thanks to its Bluetooth communications. This mobility also allows you a high degree of operating freedom up to around 50 metres from the vehicle.

Multi-Diag®

for truck, trailer, bus & coach



Bluetooth technology



Multi-Diag® Trucks^{max} Ref. AC965610KP

The diagnostic solution for particularly demanding professional environments.

Extremely robust and hard-wearing, this 12" colour touchscreen tablet PC has an integrated DVD-ROM drive and communicates via Bluetooth with the vehicle through the communications interface, and has a WIFI module allowing connection to the wireless network in the garage. Multi-Diag® Trucks max is supplied with its accessories: 20 diagnostic cables specifically designed for trucks, trailers, bus and coach, and a carry case.

Multi-Diag® Trucks^{first} Ref. AC965611

A communication kit for PC

A communications interface for vehicle diagnostics with any PC*. The Multi-Diag® Trucks first communication kit is supplied with 20 diagnostic cables specifically designed for trucks, trailers, bus and coach, and a carry case.



*Minimum hardware requirement: Windows XP - 512 MB RAM – 10GB free HDD space – CD-ROM drive– USB port – SVGA screen 800x600 minimum.

Multi-Diag®

for truck, trailer, bus & coach

Annuel Multi-Diag® Trucks subscription *«updates and services»*



- Updates: an upgradeable tool, every year Multi-Diag® offers you 3-4 updates on CD-ROM to incorporate new vehicles, new functions and the latest ACTIA® innovations.
- Technical documentation: you benefit from a user license for the technical documentation accessible direct from your tool.
- Hotline: unlimited access to our technical assistance service.
- After-sales service: with Multi-Diag® Trucks you benefit from the quality of service provided by ACTIA® to the after-sales networks of the major automotive manufacturers, together, in particular, with an unlimited hardware warranty (standard replacement in 48 hours)*

1 year's subscription for software and services

For Multi-Diag® Trucks max : ref. ABTMDTM

For Multi-Diag® Trucks first : ref. ABTMDTF

(must be added to your order for Multi-Diag® Trucks hardware in the first year, and renewable annually thereafter)

* warranty terms may vary from one country to another – contact your distributor for details



Multi-Diag® for truck, trailer, bus & coach

Accessories and options

Supplementary cables

Extra bus cables:

- ref. AC911888 • **Volvo Bus with ECS**
- ref. AC911889 • **Volvo Bus with ABS**
- ref. AC911890 • **ZF Diagnostic Cable**

ref. AC964093

Multi-Diag® master docking station to optimise the use of your tool and recharge the battery.

ref. AC980041

Car and van kit: a specific kit (wired communications interface and a set of cables) to enhance your commercial diagnostic solution with the functions for cars and vans: Renault, Peugeot, Citroën, VW, Fiat, Mercedes, BMW, Toyota, Opel, Ford, Seat, Audi, etc.

This kit benefits from specific updates.

Updates - Ref. ABTMDA

ref. AC980041

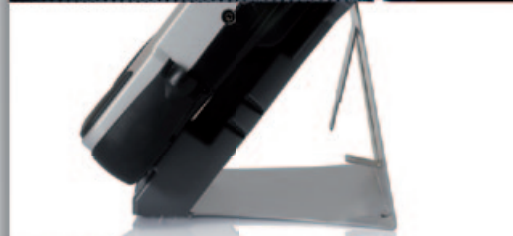
Van kit: a specific kit (wired communications interface and a set of cables) for diagnosing vans: Fiat, Peugeot, Citroën, Mercedes, Renault, Ford, VW, Iveco etc.

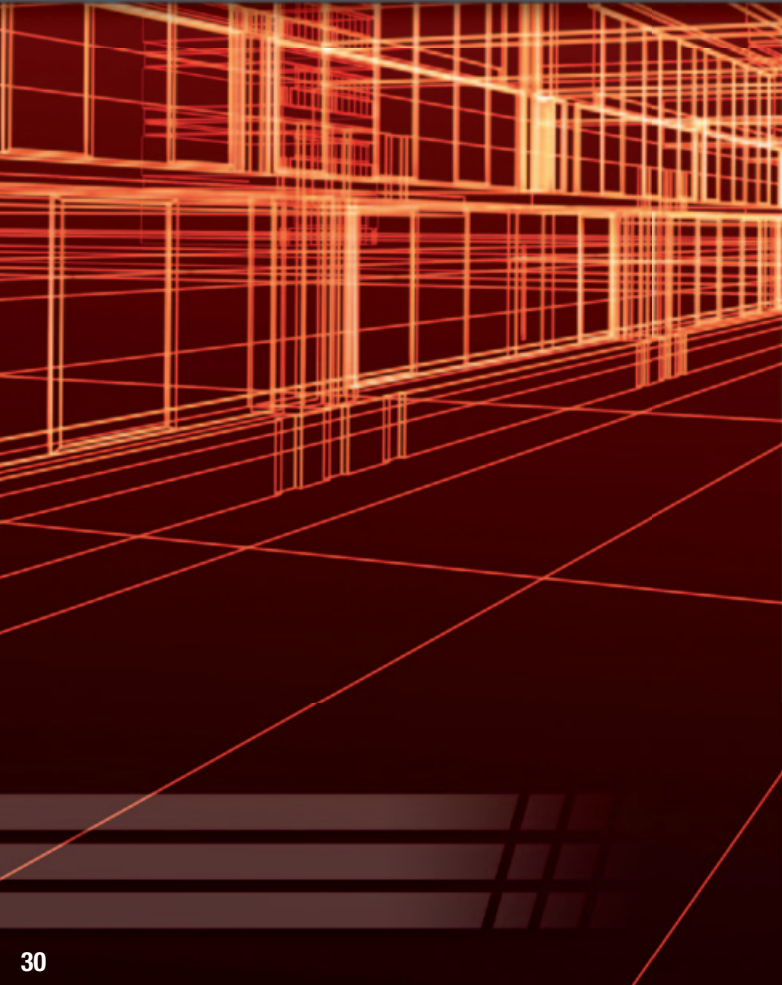
This kit benefits from specific updates.

Updates - Ref. ABTMDVU

ref. AC931338KP

Dedicated, mobile and robust workstation complete with Multi-Diag® docking station.





The
Bilanmatic
8 000 Mx
pre-test lane



LV

The 8 000 Mx multiplexed test lane for light vehicles enables you to conduct complete assessments to ensure your customers' safety. Completely modular, you can build your own test lane to your requirements (numerous options available).



ACTIA MULLER strengths

The Bilanmatic 8 000 Mx is the most advanced product on the market. Its combined technology has been developed to increase your productivity thanks to its multiplexed system. Our Mx system enables high performance and accurate operation of your test lane:

Remote Maintenance

For instantaneous remote assistance in operating your equipment.

Simplified electronics

Easier and faster maintenance and upgradability of your equipment. Thanks to standardised parts and simplified electronic wiring, the addition of equipment and adaptation to new vehicle testing standards (EOBD, Giegnel – Gieglan protocols) are achieved at minimum cost.

Fully digital system

Greater measurement accuracy and 100% reliable results.

High-tech design

A more attractive, modern workshop to welcome your customers.

Multi-station and multi-controller system

Test several vehicles simultaneously for maximum profitability of your station.



The 8 000 Mx test lane

ref. 8003Z031AAH

Brake tester

- Durable composite rollers
- Roller lock to assist vehicle exit
- Flush-mounted chassis
- CAN-bus communication technology

Suspension and shock absorber tester

Tests conforming to EUSAMA European regulations

Unique option: the “expert shock absorber tester” gives you a real technological advantage by analysing the response of the shock absorber to its variable resonance frequency. The result obtained is totally independent of tyre pressure and vehicle load. In addition to its accuracy, the expert shock absorber tester is easy to use, reliable and fast.

Side slip tester, option ref. 52100

- Results in m/km
- Pressure release plate
- Pressure sensor to detect vehicle presence
- Preliminary test before alignment

ACTIA MULLER



Lifting equipment



LV

Full Platform Lifts

ACTIA MULLER offers a complete range of lift platforms and jacking beams designed for intensive use and dedicated to the inspection and repair of cars and light commercial vehicles. The 794 (4.2T) and 795 (5T) series are specially designed to meet the requirements of all users. The options and accessories available allow total flexibility, whatever your application.



ACTIA MULLER strengths

Profitability

- Range developed for intensive use
- Optimisation of workspace

Reliability

- On-site installation and maintenance by our team of ACTIA MULLER engineers
- Lift platforms fitted with articulated pivots with self-lubricating rings which do not require maintenance

Safety

- Mechanical, hydraulic and electrical support devices to provide total safety during use (according to the European regulations)
- Tested under extreme conditions
- No mechanical connection between platforms
- Electrical installation with low voltage control circuit (24 volts)
- Reduced speed of movement during start up and final lowering phases

Performance

- Capacity of 4.2T and 5T
- On each descent the level of the platforms is perfectly controlled by a patented alignment device
- Hydraulic synchronisation of lifting and lowering
- Lifting time: 50s (average according to model). Available in rapid version for flush mounted models (25s)
- All our products are available in flush or surface-mounted versions
- Auxiliary wheel-free lift platform (optional)
- Axle play detector (optional)
- Roller bearing turnplates for wheel alignment (optional)

ACTIA MULLER equipment

Série 794 (4,2T)

- Surface-mounted ref. 794
- Flush-mounted ref. 794-E

Série 795 (5T)

- Surface-mounted ref. 795
- Flush-mounted ref. 795-E





ACTIA MULLER equipment

A range of options

Lifts with flat platforms

- **794 series**

Wide lift platforms and supporting structure designed to offer maximum rigidity and stability during operation.

- **795 series**

5.1m platform for optimum lifting of large light commercial vehicles (e.g. long wheelbase vans).

Flush-mounted lift platforms

- Optimisation of work space
- Free and fast access
- Profitability of work space
- Minimal footprint

Auxiliary wheel-free lift integrated in the platforms

Flush fitting.

The auxiliary wheel-free lift platform allows improved access to the underside of the vehicle to carry out operations requiring the wheels to be free (e.g. tyre changing, brake and suspension work).

Lift platforms for wheel alignment

- Platforms for full wheel alignment, with cut-outs for turnplates and axle play detectors
- Retractable front stop to facilitate wheel alignment
- Cut-outs for roller bearing turnplates adapted to receive most roller bearing turnplates.
In-fill plates for fitting to the platform are optionally available.
- Rear sliding plates with pneumatic locking with multi-directional movement

Lift platforms with axle play detectors

Version with integrated electro hydraulic axle play detectors. The equipment exerts a combined alternating transversal/longitudinal force on the wheels, and consequently on the steering and suspension mechanisms. This allows visual inspection of any faults (clearance of the ball joints, bushes, shock absorber components, etc.).

ACTIA MULLER equipment

Accessories

794 / 795 series

Pads for under-body jacking, (set of 4)

H : 20 mm H : 40 mm H : 120 mm H : 200 mm

ref. SR650A3

In-fill plates for roller bearing turnplates (pack of 6)

ref. 795-903

Jacking beams for 795 Capacity 3T.

Jacking beams for special vehicles (4x4's), essentially for wheel-free lifting all-terrain (4x4) vehicles and vehicles with narrower jacking points.

ref. SR650A2

Lighting kit integrated in the platforms



Short Platform Scissor Lifts (wheel free)

The 777 range

3 ton electro hydraulic double scissor lift.



ACTIA MULLER strengths

Performance

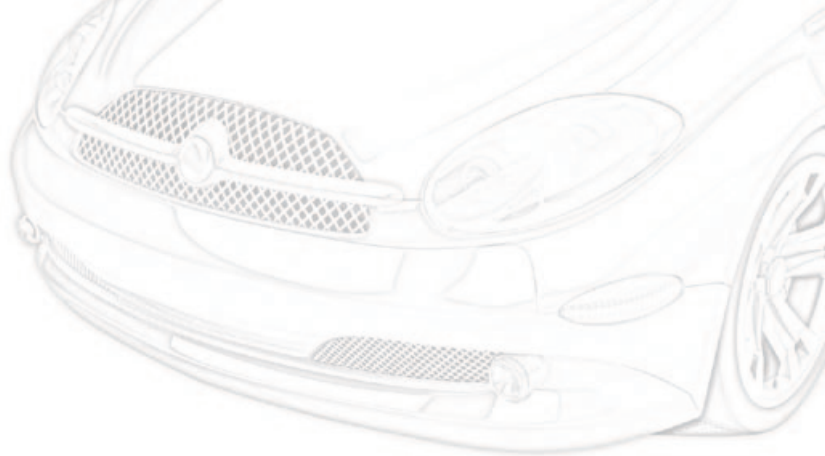
- 3 ton capacity
- Hydraulic motion synchronisation with automatic control mechanism
- All the shafts are fitted with self-lubricating rings and lubricators
- The 777 range combines robustness with the reliability required for intensive use.
- PCB fitted with universal electromechanical components

Safety

- Mechanical, hydraulic and optical safety devices conforming to European regulations, CE and EN 1493, for total safety during use
- Acoustic warning device for the final lowering phase

Profitability

- Work space optimisation
- Access in both directions
- No mechanical connection between the platforms (no obstruction, maximum functionality)



777 Low profile surface mounted double scissor lift

The 777 low profile surface mounted model is easily and quickly installed without any civil engineering works. It is an ideal alternative to recessed installations

- Only 110mm profile when in the down position, vehicle access is easier for fast positioning
- Small footprint, thereby optimising your workshop space.
- Access in both directions
- Double jack and double hydraulic circuit:
 - Optimised synchronisation
 - Double hydraulic safety system
- The access ramps can be used as platform extensions enabling you to extend the jacking points for long wheelbase vehicles
- - Control by photoelectric cell (optical safety):
 - Synchronisation of levels
 - Stop in case of any obstacles



777E recessed double scissor lift for flush fitting

The simplicity and robustness required for intensive use!

The recessed 777E model enables optimised workshop space.

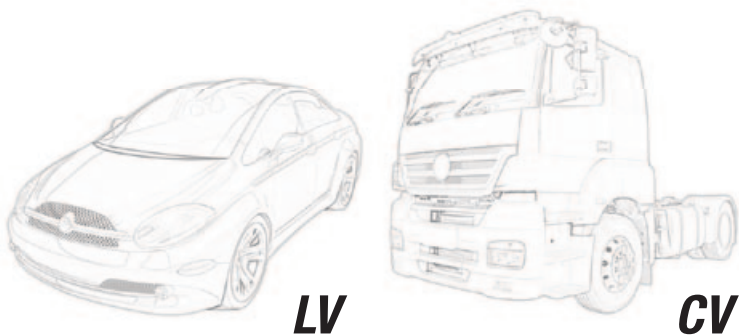
The floor area is completely flat when the lift is in the down position.

- Over-sized jacks combining reliability and the safety required for intensive use
- Lift platform specially developed for intensive use
- Technology combining simplicity with robustness
- Control by photoelectric cell (optical safety):
 - Synchronisation of levels
 - Stop in case of any obstacles
- Platforms fitted with extensions enabling you to reach the jacking point of long wheelbase vehicles





Emissions Testing



ACTIGAS

Emissions station with opacimeter ACTIGAS Combo



The ACTIGAS Combi emissions station is designed for the measurement of petrol and diesel engine emissions.

The station contains:

- Mobile workstation
- AT505 gas analyser, for petrol engines
- AT605 opacimeter with sensor, for diesel engines
- Petrol and diesel emissions probes
- Speed and oil temperature measuring module
- Remote control
- Oil temperature sensor

Technical specifications

Carbon monoxide (CO)	0 to 10 % vol.	res. 0.01
Carbon dioxide (CO ₂)	0 to 20 % vol.	res. 0.1
Unburnt hydrocarbons HC (hex)	-12 to 2000 ppm vol.	res. 1
	2001 to 9000 ppm vol.	res. 10
Oxygen (O ₂)	0 to 4 % vol.	res. 0.01
	4 to 21 % vol.	res. 0.1
Corrected carbon monoxide (CO _{co})	0 to 10 % vol.	res. 0.01
NO _x (optional)	0 to 5000 ppm vol.	res. 1
Lambda ratio	0.500 to 2.000	res. 0,001

ACTIA MULLER equipment

Light/commercial vehicle range



The opacimeter

Measures the opacity of diesel engine emissions. The unit takes measurements both at idle and during acceleration. During an acceleration test the unit records engine RPM, peak fume opacity and acceleration time.

Technical characteristics

Absorption coefficient (k)	0 to ∞ m ⁻¹	res. 0,01
Opacity (N)	0 to 100 %	res. 0,1
Duration of acceleration	0 to 99,99 s	res. 0,1
Speed	400 to 2000 min ⁻¹ 2001 to 9990 min ⁻¹	res. 10
Oil temperature	0 to 150 °C	res. 1
Dimensions	235 x 380 x 90 mm	
Weight	4,5 kg	

Mobile workstations

The ACTIGAS range offers a choice of two workstations: A light, mobile station, and an "expert" station.

These workstations incorporate a PC and all the peripheral equipment:

The computer – PC BOX (industrial PC):

- Celeron M 1 GHz processor
- 512MB RAM
- 80GB HDD
- DVD-ROM/CD-RW drive
- 19" LCD TFT monitor (illuminated LED)
- Connections: 4 x RS232, 4 x USB, LAN, VGA

A4 monochrome printer:

- Printout of official emission reports
- Printout of measurement information

Also included:

- Keyboard and mouse
- Infrared remote control



MULTIGAS



MULTIGAS is an upgradeable tool for petrol and diesel emissions testing. It conforms to European standards and makes use of technology that provides considerable possibilities for upgrade. The integration of new standards or applications is a simple matter of inserting a new memory card.

A Class 0 gas analyser, MULTIGAS is the most technically advanced in terms of anti-pollution measurement and performance. The software is designed for rapid measurement and testing, whilst being easy to use, allowing the technician to move easily from one test to the next.

Homologations :

- OIML class 0, DM 628/96 MCTC-NET, AU-OBd (Germany), MOT (United Kingdom),
- PCT-Gosstandart of Russia, BRML (Romania), France (NFR 10-019), Poland, Austria

Options :

- Self-diagnosis + EOBD
- Oscilloscope
- NOx cell
- Opacimeter – enabling both petrol and diesel emissions testing

MULTIGAS • ref. 898MB/KP3

Technical specifications

Carbon monoxide (CO)	0 to 15,000 % vol.	res. 0,001
Carbon dioxide (CO2)	0 to 20,00 % vol.	res. 0,01
Unburnt hydrocarbons (HC)	0 to 30 000 ppm vol.	res. 1
Oxygen (O2)	0 to 25,00 % vol.	res. 0,01
NOx (optional)	0 to 5 000 ppm vol.	res. 1
Lambda ratio	0,5 to 2,000	res. 0,001
Engine temperature	0 to 200°C	res. 1°C
Engine rev counter		
Low voltage connection	0 to 10 000 trs/min	res. 10
Secondary induction (optional)	0 to 20 000 trs/min	res. 10
Measurement of ambient conditions	temperature (°C) atmospheric pressure (hPa) hygrometric degree (%)	
Automatic barometric compensation	from 750 hPa to 1 060 hPa	
Sampling pump flow rate	approx. 10 l/m	
Automatic tightness test		
Continuous and automatic gas discharge		
Response time	<10 sec. // Length of sensor 3 m	
Warm up time	Max. 30 seconds	
Electrical and automatic zeroing		

Combined with the opacimeter, MULTIGAS also measures the opacity of diesel emissions.
ref. 898MBG0/KP3



Opacimeter • ref. 898LIGHTMB/KP3

Technical specifications

Measurement range	0 to 99,9 %	res. 0,1
Opacity	0 to 9,99 km-1	res. 0,01
Measurement of exhaust fume temperature	0 to 600°C	res. 1°C
Automatic zeroing and warm up time	Automatique	
Warm up time	Max. 5 mn	
Calibration	Automatic	
Power supply	12-0-12 Volts AC	
Dimensions	470 x 230 x 220 mm	
Weight	6 kg	

ACTIA MULLER

The fully automatic 6720 Station has been designed for intensive use and is equipped with a very accurate database. It meets the requirements of all professionals engaged in the maintenance and expert assessment of air-conditioning systems.



Air-conditioning
station for
***light and
commercial
vehicles***



CV



LV



Technical specifications

- Manual mode
- Semi-automatic mode
- Automatic mode
- Manual recovery
- Automatic recovery
- Automatic oil recovery
- Manual recovery
- Automatic recycling
- Automatic draining
- Automatic leak detection
- Manual oil injection
- Automatic oil injection
- Liquid tracer injection tank
- Automatic charging
- Flushing kit (optional)
- Manufacturer database
- Light vehicle database
- M A J program / BDD by key
- Pressure gauges (diameter) : 80mm
- Tank capacity: 20kg
- Compressor: 500gr/min
- Superventilated condenser
- Thermal printer
- LCD screen
- Automatic discharge of non-condensable gases
- Dehydrating filter: 710cc
- Vacuum pump: 180 l/min
- Optional commercial vehicle kit (pipes + bottles)

Accessories

- Commercial vehicle kit • ref. AC31262HDKP
- Leak detection case • ref. RA16352EU
- Electronic leak detectors • ref. TIF-ZX1
- Laser sighting thermometer • ref. 203003-4

ACTIA MULLER strengths

Light vehicle manufacturer database, integrating gas quantities to be used and the oil circuit content per vehicle type.

- Large capacity tank for fast, quality operation
- Safe operation
- For all light and commercial vehicles
- Environmental protection: coolant leak control
- Ease of use, the interface guides the user step by step

Main functions:

- Fully automatic, semi-automatic and manual modes
- Automatic recovery and recycling of the coolant
- Residual pressure detection after 1st recovery with self-starting
- Ventilated condenser for fast recovery
- Automatic separation and recovery of the oil
- Automatic leakage detection during the vacuum phase
- Automatic refilling of the coolant (electronic balance)
- High and Low Pressure Gauge (80 mm in diameter) class 1
- Backlit LCD display with control keyboard with simplified symbols
- Conformity to CE/PED TUV PSA
- Simple touch function
- Large capacity dehydrating filter, 710 cc
- Automatic maintenance programme



ACTIA MULLER



Headlamp ***Aligners***



CV



LV



764-5CT

The 764-5CT is fitted with a CCD camera whose image sensors are analysed by the integrated software.

It consists of a cylindrical column with assisted measurement head positioning, a combined mirror/laser alignment solution and automatic centring on the optical axis.

Its interface is very user-friendly and its large LCD display, with integrated network control procedure, makes it easier to read off the results. The headlamp aligner transmits the results obtained to the PC workstation via Wifi or Bluetooth using GiegNet and/or GiegLan protocols.

664-6CT

The 664-6CT uses a photodiode measuring system. It can be mounted on wheels or on rails, and the measurement head is positioned on a cylindrical aluminium column.

Accurate alignment of the unit to the vehicle headlamp assembly is achieved either by means of a mirror or a laser beam. Its ergonomic control box, which can be rotated according to the position of the operator, is extremely easy to use.

The operator, guided by the headlamp aligner display, measures the height from the bottom of the reflector, thus determining the tolerance range of acceptable inclination on the vehicle. The headlamp aligner then transmits the results to the PC workstation Wifi or Bluetooth using GiegNet and/or GiegLan protocols.

At the present time ACTIA MULLER is the only automotive equipment supplier to offer a range of headlamp aligners dedicated to vehicle test stations and adapted to their present and future needs.



ACTIA MULLER

ACTIA®, a leading specialist in on-board systems, designed and developed SmarTach®, the first digital tachograph to be certified compliant with the European Directive 1360/2002 in 2004.

Being involved in the workgroups that support the development of European regulations on digital tachographs, ACTIA® is able to anticipate innovations in this new equipment. This foresight means that ACTIA® can allow transport professionals to benefit from the latest technological developments with one goal: to facilitate the use of tachographs.



digital ***tachograph***



CV

SmarTach®, solutions for everyone

A real partner to transport professionals, ACTIA® assists the manufacturers, fleet managers, approved centres and drivers in the use of this new equipment.

ACTIA® therefore offers a complete range of solutions covering the entire operating cycle of the tachograph and its data: speed sensors, calibration bays and tools, thermal paper rolls, remote data download equipment, archiving and analysis software, training etc.



SmarTach® Reader
The pocket driver's card reader

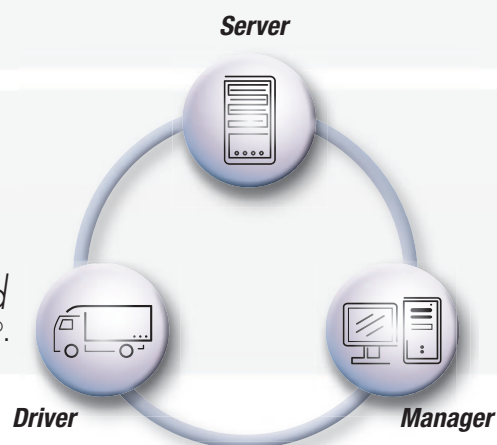


SmarTach® Software
For data analysis and storage



SmarTach® Tester
The universal test and calibration tool for the tachograph

SmarTach® remote Download
The "remote download" function of the SmarTach®.



SmarTach® D-Box
"All in one" tool for downloading tachograph and smartcard data.



SmarTach®
digital tachograph



ACTIA MULLER



ACTIA MULLER

5 rue de la Taye
28110-LUCE
FRANCE
Tél.: +33 2 37 33 34 00
Fax: +33 2 37 33 42 36

www.actiamuller.com
www.actia.com

Photo credits:
Hervé Piraud
Aktis
Arnaud Lombard
Julien Marpault

This document relates to the whole ACTIA MULLER range. The range and terms may vary in different countries. ACTIA MULLER reserves the right to modify the specification of products and services advertised without prior notice, without being required to update this document. If, despite the care taken in producing this catalogue, you find an error, do not hesitate to contact us. The photos in this document are not contractually binding.