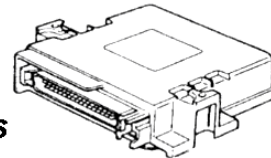


October 2010 Technical Newsletter

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Automotive
Electronic
Control
Systems



AECS
Training, Equipment and
Data for Automotive
Diagnostic Specialists

www.aecs.net

automechanika

Frankfurt 2010

AECS has attended the world's biggest automotive equipment show in the world, the Frankfurt (Germany) Automechanika 2010 and attended several diagnostic training seminars throughout Europe.

Just like you, we from AECS need to up skill regularly. New techniques and smart repair methods do not come to you, you have to chase and seek them out. There are very few developers in the world who are capable of truly making our work easier or more efficient. AECS actively seeks them out and learns from them, so we can add value to our training seminars and products.

We were also on the lookout for smart new products

and existing product improvements. By all means we found what we were looking for, and I am confident that you will soon notice changes in our training content and equipment line up.

Recession?

It was our general impression while travelling through Europe that the recession had hit hard but everybody can see the end of the gloom and is looking up. We can be proud that the recession has not hit us kiwis as hard. Many equipment manufacturers who were present at the Automechanika in previous years had gone belly up, only the healthy companies survived. We even saw empty booths in hall 8 (diagnostics) which is unheard of!



VTEQ brake tester manufacturers display site in Frankfurt Germany, they had some real world class innovative developments on show, which are soon available worldwide.

On the VTEQ site we were treated on beautiful world class wireless brake and suspension test technology. A revolutionary ABS test method is under development, as a direct result of the European commission

reacting on bad ABS systems. Faults which go undetected by the WoF process as the system's self diagnostic system is not checking the complete system's capability, just some electronic parts of the system.



Brainbee introduced a new line up of emission tester technology. This was not so much visible outwardly but all internal. They also launched a beautiful new touch screen wireless scan tool. There are some new developments with their injector test benches, with regards to injector calibration. We got trained up at the factory in Parma in servicing and using the new test equipment.

Brainbee diagnostics and emission test equipment site had their new products proudly displayed.

On the AERSERVICE site we were treated on the most amazing workshop emission extraction system which had a single fan with an automatic vacuum sensor controlled rotational speed. The fan was drawing from three separate coiled extractors. These extractors had (remote) powered rewind systems fitted. Beautiful!

They also had a mobile workstation extraction system on display, for welding booths or brake servicing in the workshop.

AERSERVICE had this amazingly quiet and energy efficient multi workstation emission extraction system on display



At the GMTO site we played with the new Common Rail Diesel return flow sensors and the "G" force sensor for dynamometer testing on the road. They also had on display aircon pressure sensors for aircon diagnostics and for creating system pressure graphs to look in great detail what a suspect compressor is doing.

GMTO was displaying their new range of ATS scope accessories and introduced the new look ATIS diagnostic software to the world



On the AVL site we were impressed by the amount of new innovations. They even won the price for most innovative company present on this world exposition



During factory training in Austria we got familiarised with the Hybrid test equipment operation on an electric Graz university race car.

Some of the new developments were 'Scout' software, which is an adaptive internet based diagnostic repair guide.

They also introduced a cylinder combustion pressure sensor, which records at high speed the combustion pressure in Petrol and Diesel engines while the engine is running.

The highly accurate and small sensors are fitted inside a sparkplug or a glow plug. I have never seen a tool like this before for normal commercial use, only for laboratory use, what a development! "Engine tuners and performance specialists, now you can make visible the effect of your work and you can work towards true maximum performance!"

AVL also introduced Special Hybrid tooling, an off shoot of what they developed for the VW/Audi group to enable VW technicians to work on the new Touareg hybrid.

AECS Training for 2010:

ECAC1

Electronic Controlled Air-conditioning 1
(Last chance to get up to speed with Air-con before the Christmas rush!)

CHRISTCHURCH

19th & 20th October

&

AUCKLAND

9th & 10th November

DMS1-3

Diesel Management Systems 1 – 3

(Denso common rail system is covered in great detail)

CHRISTCHURCH

21st & 22nd October

AED

Automotive Electronic Diagnostics

GREYMOOUTH

25th & 26th October

(On a **Public Holiday** for those who are too busy to be away from the workshop)

SCAN1

Scan Tool Diagnostics

(will provide you with an in depth information to get the most out of the scan tool)

AUCKLAND

11th & 12th November

EMS1-4

Hybrid Management Systems

(everything you need to know before safely working on these vehicles)

AUCKLAND

23rd & 24th November

DMS1-2

Diesel Management Systems 1-2

Bosch VP 44 system as used in for example late model Nissan, Holden, Ford, & MAN (Turbo) Diesels

AUCKLAND

24th & 25th November

See our website for more details or enrol online

www.aecs.net

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Also AVL has introduced new emission tester technology.

During a forum they spoke about how in Germany Emission testing is back being part of the WoF inspection procedure with verve, as the move towards only E-OBd testing (scan tool) had backfired and proved not accurate enough.

Specials

We visited also booths of other manufacturers like *Ecotechnics* (aircon equipment), *Launch* (Car and truck Scan tools), *Motorscan* (motorbike scan tools), *Autodata* (data base systems). We looked at the opposition booths, that were present, to see if our products

lines are still the best available.

We will be able to offer you some really sharp specials very soon as a result of these visits, as it is always easier to negotiate a price face to face when the factory owner is in an upbeat mood!

New products

We also have made contact with various manufacturers of equipment not available in NZ yet. Equipment which we see as very relevant for our market. AECS will introduce these new products to you as soon as they have landed.

Herbert

For **AECS Ltd:**
H.P. Leijen
(trainer/research)



ECK 760

Profit off our bulk buying!

We have a container on its way with this beautiful quality Italian made Air-con machine!

Fully automatic except oil injection!

The works, for a staggering:

\$ 5,690.- (+gst)

(Normally \$7,916 + gst)

RECOVERY → OIL DISCHARGE → VACUUM → GAS CHARGING

Aircon Season special!!



Covers almost all bikes on the NZ roads (and farms).

All adapters in stock

Affordable even for private bike owners.

MOTORSCAN MOTOR BIKE SCANTOOL

Be in time for the summer season!

- Diagnostics
- Fault codes
- Actuator testing
- Programming of keys

Summer Special \$4,099.- (+gst)

New Product!

TECNOMOTOR:
OBD 4Mb data recorder (30hrs)
For '99> cars and trucks (8 - 36V)
Plays back data graphs on PC.



Box contains:
OBD Recorder, USB lead,
CD rom with playback software.



**OBD connector
Special offer
\$319+gst**

Revolution in true performance tuning!

AVL combustion pressure sensor DPM 800.
Measure e.g. exactly when detonation starts, see peak pressure vs crank timing, determine mean effective pressure & much more.
For Diesel and Petrol.
Factory made customised glow/spark plugs.

AVL DITEST DPM 800





Phone Herbert for more info, its not in our catalogue yet. Ph:06 8749077