Delphi | hartridge

THE COMPLETE MDEG SOLUTION

HARTRIDGE & DELPHI HAVE YOU COVERED!

Delphi has launched an **authorised repair programme** for its **MDEG pumps**. **Hartridge** has the **bench upgrade** that lets you test them before, and after the repair. Put the two together, and you've got yourself a **brand-new revenue stream** for your workshop. Here's what you need to know...

A NEW SERVICE OPPORTUNITY FOR 400,000 VEHICLES

More than **400,000 Euro 6 commercial vehicles** on the road are fitted with **Delphi MDEG pumps**. Up to this point, there was only one option for your customer when they had a worn **DFP5 pump**: buy a complete unit replacement.

Delphi's new repair programme adds a second. You can now **test**, **repair**, and **return** these **pumps** to **service in-house**.

Delphi and **Hartridge** may be different brands, but they share a common goal: **delivering quality repairs**. As part of **PHINIA**, a **global OE supplier of fuel injection systems**, **Delphi's repair programmes** and **Hartridge's testing solutions** are developed to complement one another, giving workshops greater confidence in both the parts they fit and the way they are tested.

THE DELPHI MDEG REPAIR PROGRAMME

The programme covers **DFP5 pumps** used in **Euro 6 F2R common rail systems**. These pumps operate at **2,400 bar** and manage **precise fuelling** inside **5.1** and **7.7 litre** truck engines. That's serious hardware.

Repairing a pump and returning it to the road is both a **sustainable** and **serviceable solution**. Your customer **saves money**, and **less hardware** goes to waste. Revenue that used to walk out the door as a parts sale now turns into **billable workshop hours**.

YOUR BENCH NEEDS MORE BAR

With the **AVM2-PC Upgrade Kit**, existing **AVM2-PC** users can increase test pressure to **3,000 bar**, enabling accurate testing of the latest **Euro 6 common rail pumps** while protecting their original investment. Better still, the upgrade is **fully reverse compatible**, allowing continued testing of **legacy Delphi CR pumps** and operation in **all-makes** mode, so workshops can support a wider range of applications from a single bench and **maximise their return on investment**.

The **AVM2-PC** has been the **market-leading bench** for over **20 years**, and the new upgrade kit brings it right up to **Euro 6** spec. It covers **Delphi MDEG (F2R) pumps**, with **F2E** and **F2P** currently in development, plus **Denso HP5**, **HP6**, and **HP7**.

More application kits are in development, as well, and the kit is compatible with all your existing **AVM2-PC** applications. Let's take a look at what's in the kit...

HB435 GUARD ENCLOSURE

The **new guard** replaces the **HB378** and **HB422 CR** base kits, and it's certified to **3,000 bar**. You get:

- Safety interlocks that cut the drive if a door opens
- A larger working area with hinged side doors for easy access
- All doors removable, plus a removable front panel
- Permanent installation, so there's no pulling the guard off to fit a cam box or other accessories

NEW PUMP CONTROLLER

The new controller replaces the **AE31** and was developed for **Delphi** and **Denso Euro 6** requirements. **PWM valve control** jumps from 12V to **24V**, which unlocks the **Euro 6 peak and hold test**. You also get a **new pump position sensor** input, an **extra flowmeter input**, **valve control**, and **continuous line monitoring**.

Hartridge has also engineered in capacity for future applications:

- F2 pumping injectors
- Closed-loop supply control
- Extra response time and load cell inputs
- A scaled output signal

NEW APC

The **new APC** replaces the **HB401** for **authorised Euro 6 common rail pump** work. Inside, you'll find **3,000 bar** certified components and controls, an uprated **cooling circuit**, an uprated **flow control valve**, and a built-in **low-range flowmeter** for return flow.

Its **next-generation hydraulics** deliver better **pressure stability** during testing, so when a number comes up on-screen, you can trust it.

NEW WASTE CONTAINER

Tired of waste oil collecting in the bed of your machine? The **new container** routes it into its own separate tank instead, and a low level warning tells you when it's time to empty it.

MAGMAH TOUCH SOFTWARE

magmah Touch replaces **magmah Plus**. It comes loaded with **onboard diagnostics** and **monitoring**, **real-time dynamic values**, **faster data acquisition**, **smoother operation**, and **advanced user test plan** creation.

It works with **all-makes pumps** and **inline** or **rotary** testing.

It's also **backwards compatible** with every existing **common rail pump** application, both in **all-makes mode (magmah Touch)** and **Delphi authorised mode (IRIS)**.

In short, every application you've bought over the years will still work after the upgrade.

TRAINING

Whether you're installing the kit or carrying out your first pump rebuild, **training** is available to support you.

Our **training** is primarily offered at **Hartridge** in **Buckingham, UK**. For information on available courses, training options and upcoming dates, please **contact your local Hartridge distributor**.

INNOVATION YOU CAN DEPEND ON

Hundreds of thousands of **Euro 6 vehicles** need serviceable solutions. They need them now, and for many years to come. **Delphi's MDEG programme** equips your workshop with an in-house repair option. Add to that the **Hartridge upgrade kit**, and you've got everything you need.

If you're keen to learn more about what's possible with Hartridge x Delphi, chat with your local Hartridge distributor about the upgrade kit today.

www.hartridge.com

