

HK1400 Upgrade & CAT C3500 Testing

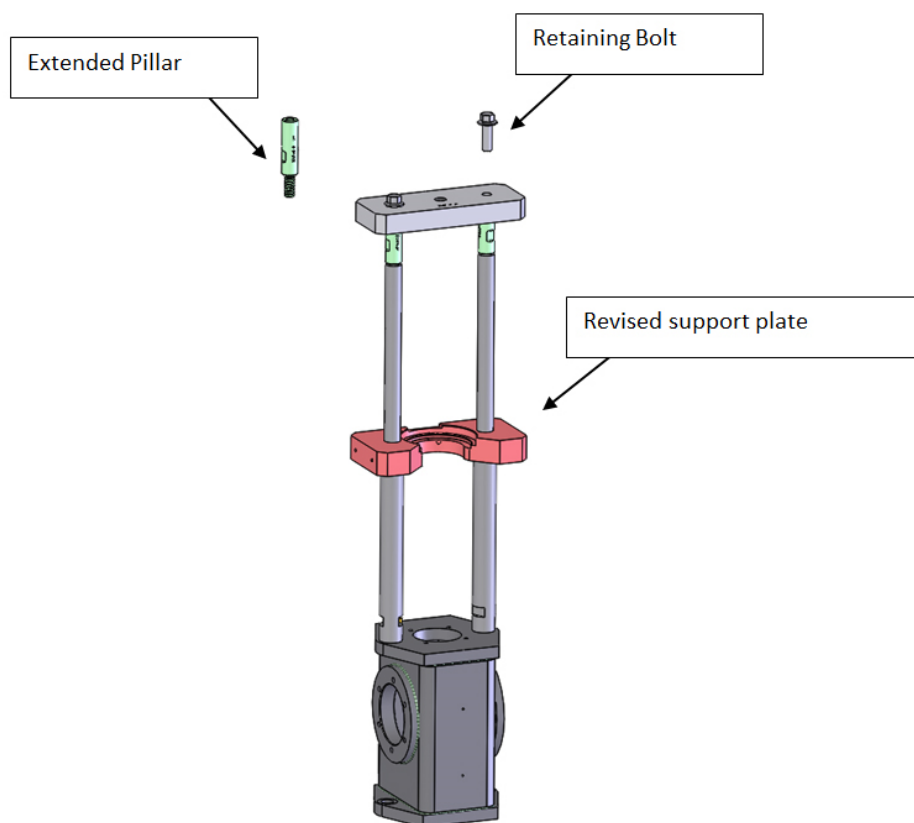
Hartridge is pleased to announce the release of an exciting product development that extends The HK1400's ability to support a wider range of Unit Injectors.

This is achieved by lengthening the pillar height of the cambox and revising the support plate to enable larger injectors to be catered for.

The kit is easily fitted retrospectively to enable workshops to test heavier duty applications, e.g. CAT3500 EUI. Fitting instructions are included via document [9748480](#).

HS408 - HK1400 HD upgrade Kit:

All parts required to upgrade the cambox, to allow the fitment of the new larger injector application kits, are included in kit number: HS408. The illustration below demonstrates only the essential components for the upgrade.



Packing list for HS408

Part No.	Description	Qty.
A242A011	Front Cover Sub Assembly	1
NTA4124*	Cambox Spacer	1
NTA4418	Support Pillar Extension Rod	2
NTA4415*	Injector Support Plate Insert	1
NTA4414	Injector Support Plate	1
NTA4407*	EUP Clamp Plate	1
8756010	Loctite 638 10ml	1
9748480	Fitting Instructions	1

**These parts are not permanently fitted to the cambox but are required for specific EUI/EUP applications once the cambox has been upgraded. Full details are available in the updated [TIB 450/35: EUI Applications Matrix](#) and [TIB 450/36 EUP Applications Matrix](#).*

This upgrade has been fully endurance tested to ensure durability of the HK1400 cam box is maintained. By fitting this kit, the cambox will be permanently modified to standard “B” which enables a greater range of Unit Injectors to be tested.

All HK1400 application TIBs have now been amended to differentiate between Mod standard A & Mod standard B variants.

New Application

At the same time, a new application has been released

- Caterpillar C3500 (EUI800)

Basic testplan templates are available to download from the Hartridge Software Portal.



[Software Portal](#)

Tooling

The following parts are required to test CAT3500 on the HK1400 cambox, an updated Hartridge HK1400 selection tool is available on the Hartridge Distributor Portal.

Item	Material Description	Qty	Status
HS408	HK1400 HD Upgrade Kit	1	New
A242A114	Heavy Duty Cam CAM 1.5MM Offset	1	Existing part
NTA4441	Nosepiece Transducer Assembly	1	New
NTA4447	Fuel Sleeve Assembly CAT3500 EUI	1	New
AE66/5	EUI/EUP Driver Cable - Delphi/Caterpillar	1	Existing part
A242A143	Preload adjuster EUP	1	New
NTA4410	Yoke Assembly CAT3500 EUI	1	New
NTA4423	Locking setting piece CAT3500	1	New
9700235	O Ring RM0276-24 P5	1	New
9551008	Dowty Washer 1/8BSP 3/8	2	New
<u>TIB450/42</u>	Fitting Instructions	1	New

Please refer to [TIB 450/35](#) for the full list of tooling parts required to test this new application and all HK1400 applications. There is also a dedicated TIB for this application, [TIB450/42](#)

Prices

Item	Material Description	List Price 2017
HS408	HK1400 HD Upgrade Kit	£630.90
A242A114	Heavy Duty Cam CAM 1.5MM Offset	£635.61
NTA4441	Nosepiece Transducer Assembly	£304.58
NTA4447	Fuel Sleeve Assembly CAT3500 EUI	£208.27
AE66/5	EUI/EUP Driver Cable - Delphi/Caterpillar	£152.34
A242A143	Preload adjuster EUP	£ 92.14
NTA4410	Yoke Assembly CAT3500 EUI	£156.85
NTA4423	Locking setting piece CAT3500	£ 52.74
9700235	O Ring RM0276-24 P5	£ 1.95
9551008	Dowty Washer 1/8BSP 3/8	£ 2.37



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