

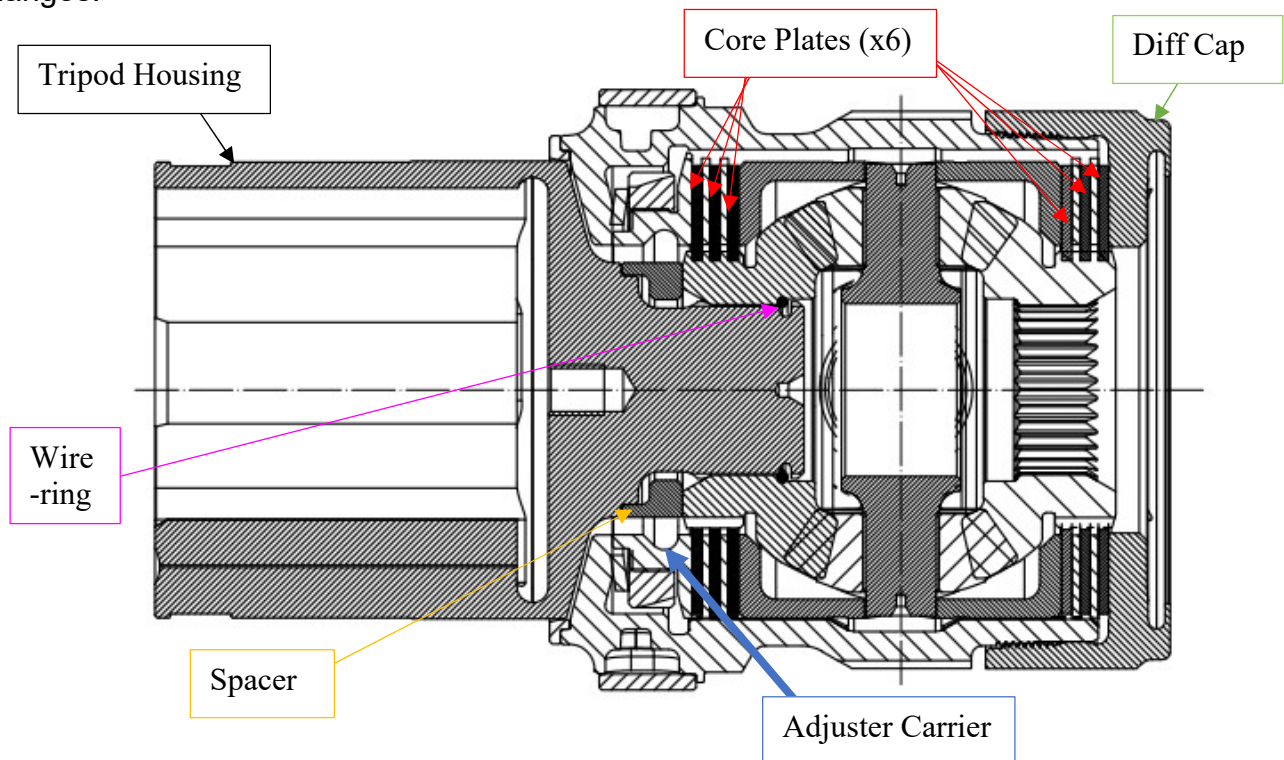
TECHNICAL MEMO

Product:	CFT-212-MK2 Diff – upgrading from CFT-212				
Reference No:	CFT-Memo-015				
To:	CUPRA				
Author:	JMB	Date:	09/05/2024	Issue no.	2

The CFT-212-MK2 differential has 2 main differences from its predecessor CFT-212.

- Upgraded Tripod Housing
- Introduction of Molybdenum core plates

It is possible to upgrade an existing CFT-212 differential to include both or either of these changes.



CFT-212-MK2 Differential

Upgrading the tripod housing

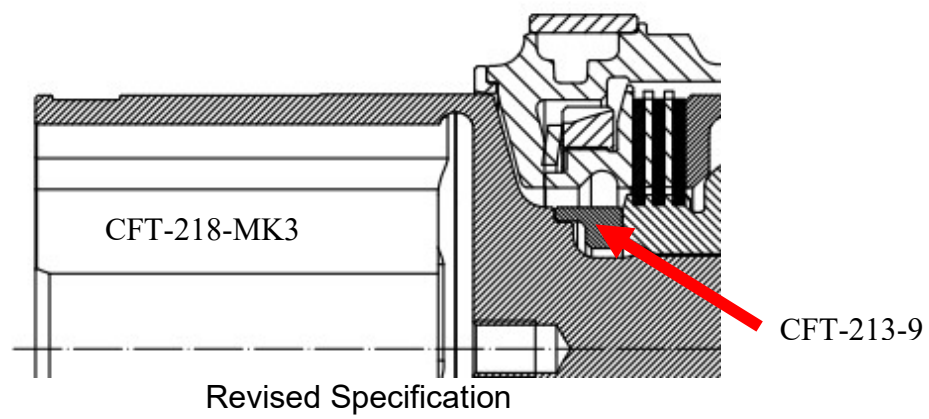
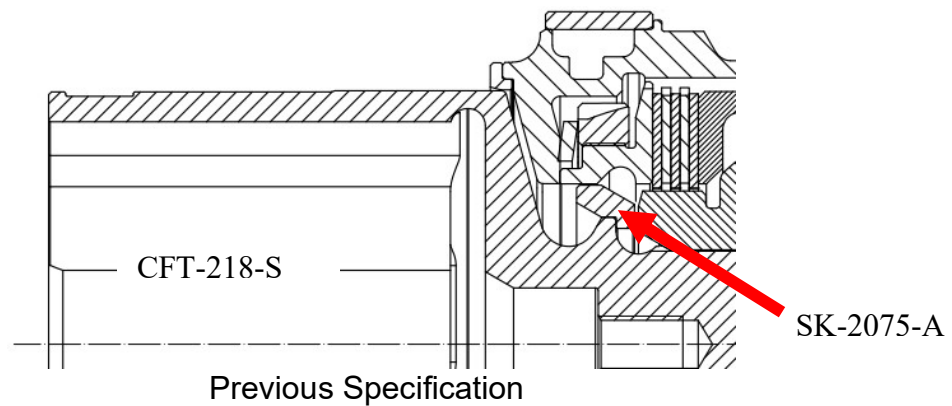
The upgraded tripod housing part number is CFT-218-MK3 and this replaces CFT-218-S. To upgrade, the spacer SK-2075-A needs to be replaced with CFT-213-9.

It is recommended that the wire-ring which retains the tripod housing into the differential is also replaced – part number CIR-052 (specification of this part has not changed)



Hewland Engineering Ltd
Waltham Road, White Waltham
Maidenhead, Berkshire
SL6 3LR, UK

+44 (0) 1628 827600
info@hewland.com
www.hewland.com



Switching core plates from PARCO to Molybdenum coated

Due to the additional thickness of the Molybdenum coating (across the 6 core plates), the overall differential internal cluster would increase in length if only the plates were changed. This would result in an issue with installation into the CFT gearbox, due to the additional length (as it would clash with the maincase oilway). To overcome this issue, when fitting the Moly plates, it is necessary to modify both the adjuster carrier and the diff end cap.



Previous specification (PARCO)
Part No. TPT-213-8
 Thickness = 1.6-1.7mm



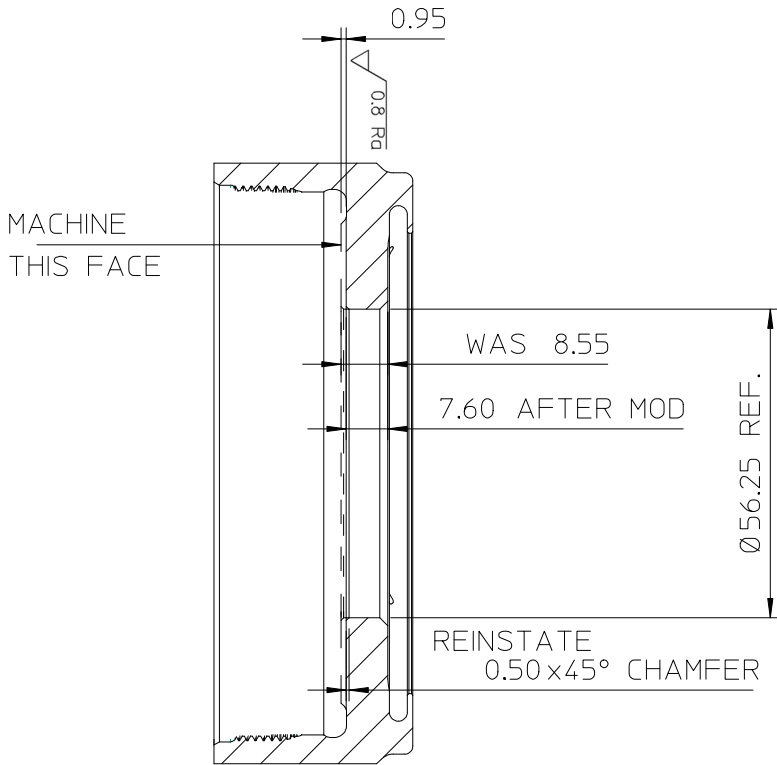
Revised Specification (MOLY)
Part No. TPT-213-8B
 Thickness = 1.95-2.0mm



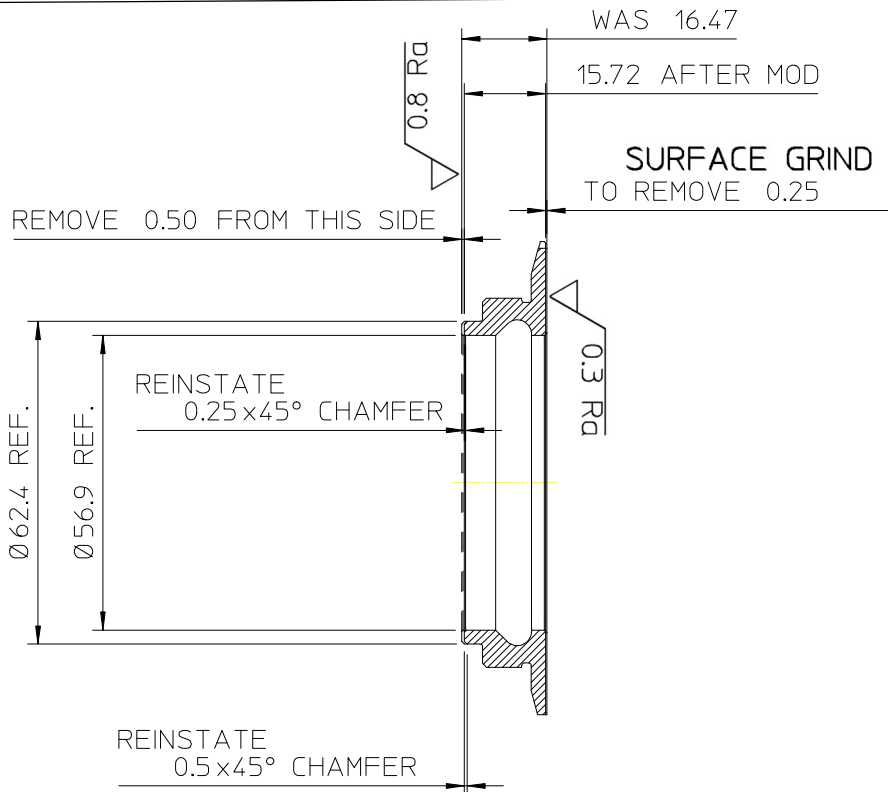
Hewland Engineering Ltd
 Waltham Road, White Waltham
 Maidenhead, Berkshire
 SL6 3LR, UK

+44 (0) 1628 827600
 info@hewland.com
 www.hewland.com

The following images outline how to modify the existing parts (all dimensions in mm):-



CFT-214 DIFF CAP → becomes CFT-214-A after modification

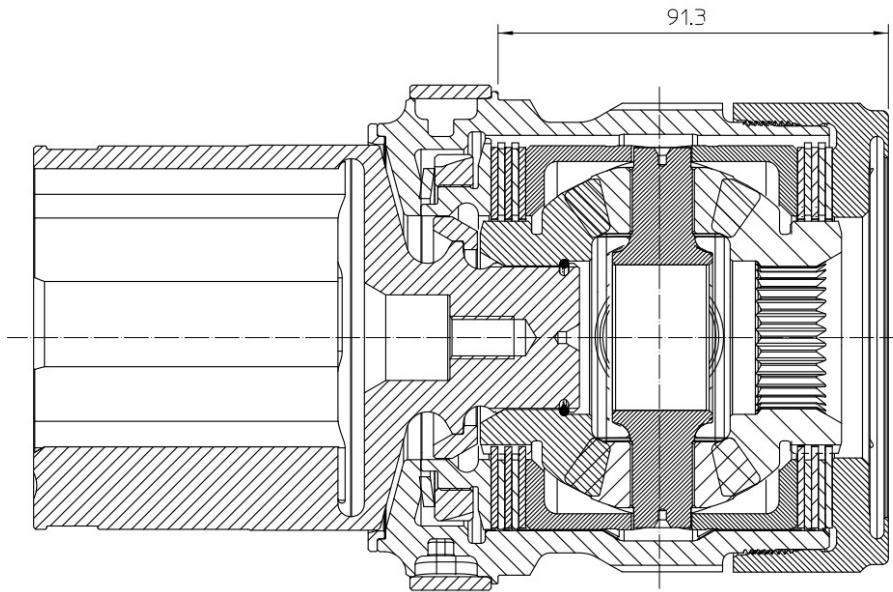


Hewland Engineering Ltd
Waltham Road, White Waltham
Maidenhead, Berkshire
SL6 3LR, UK

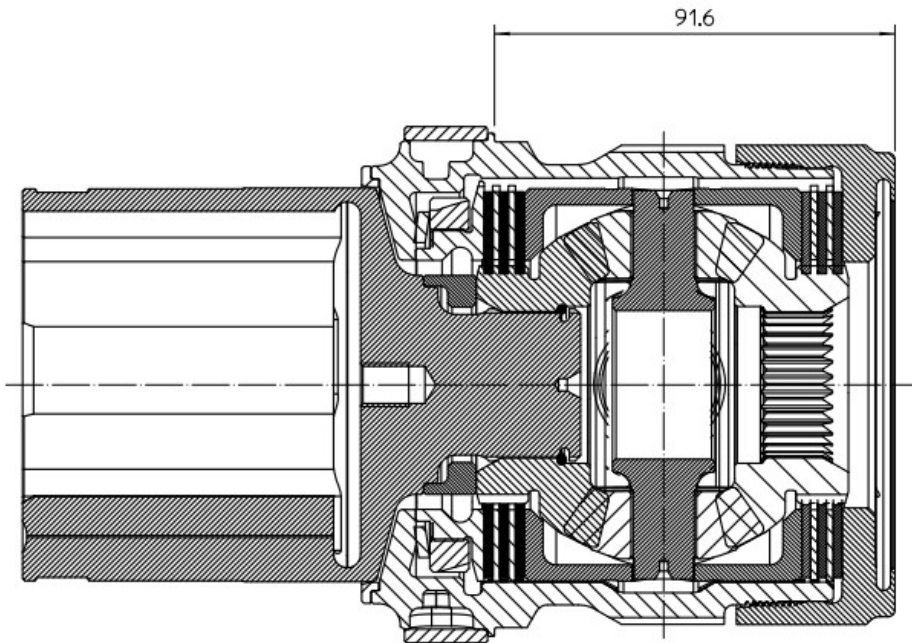
+44 (0) 1628 827600
info@hewland.com
www.hewland.com

EGTA-213-5 ADJUSTER CARRIER → becomes EGTA-213-5A after modification

Hewland have given these modified parts a new designation (-A suffix). Customers wishing to upgrade any existing CFT-212 units to run with the Moly plates (part number TPT-213-8B) will need to undertake the modifications shown, or alternatively they can order the revised parts CFT-214-A and EGTA-213-5A from Hewland.



Previous Specification (CFT-212)



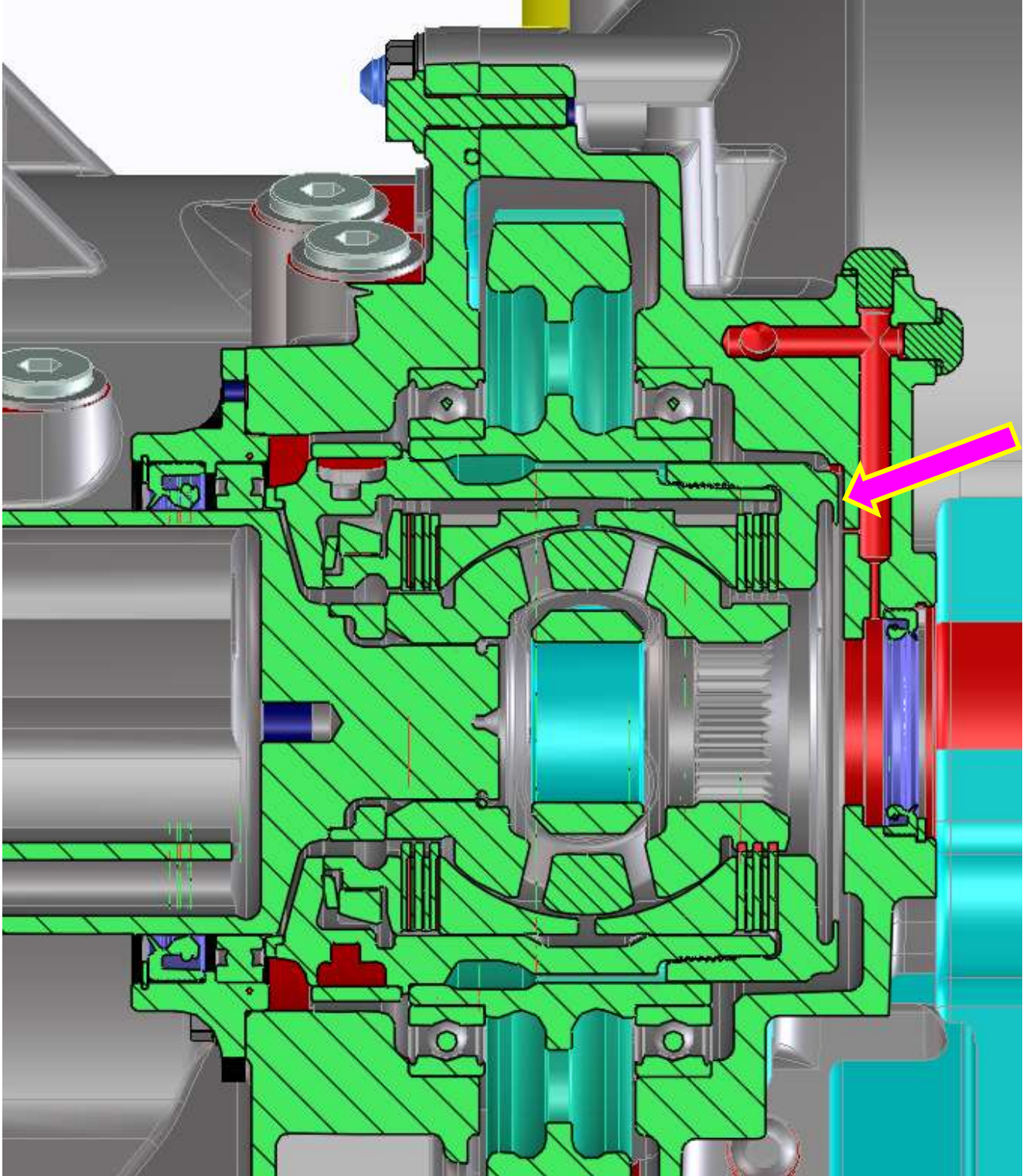
Latest specification (CFT-212-MK2)



Hewland Engineering Ltd
Waltham Road, White Waltham
Maidenhead, Berkshire
SL6 3LR, UK

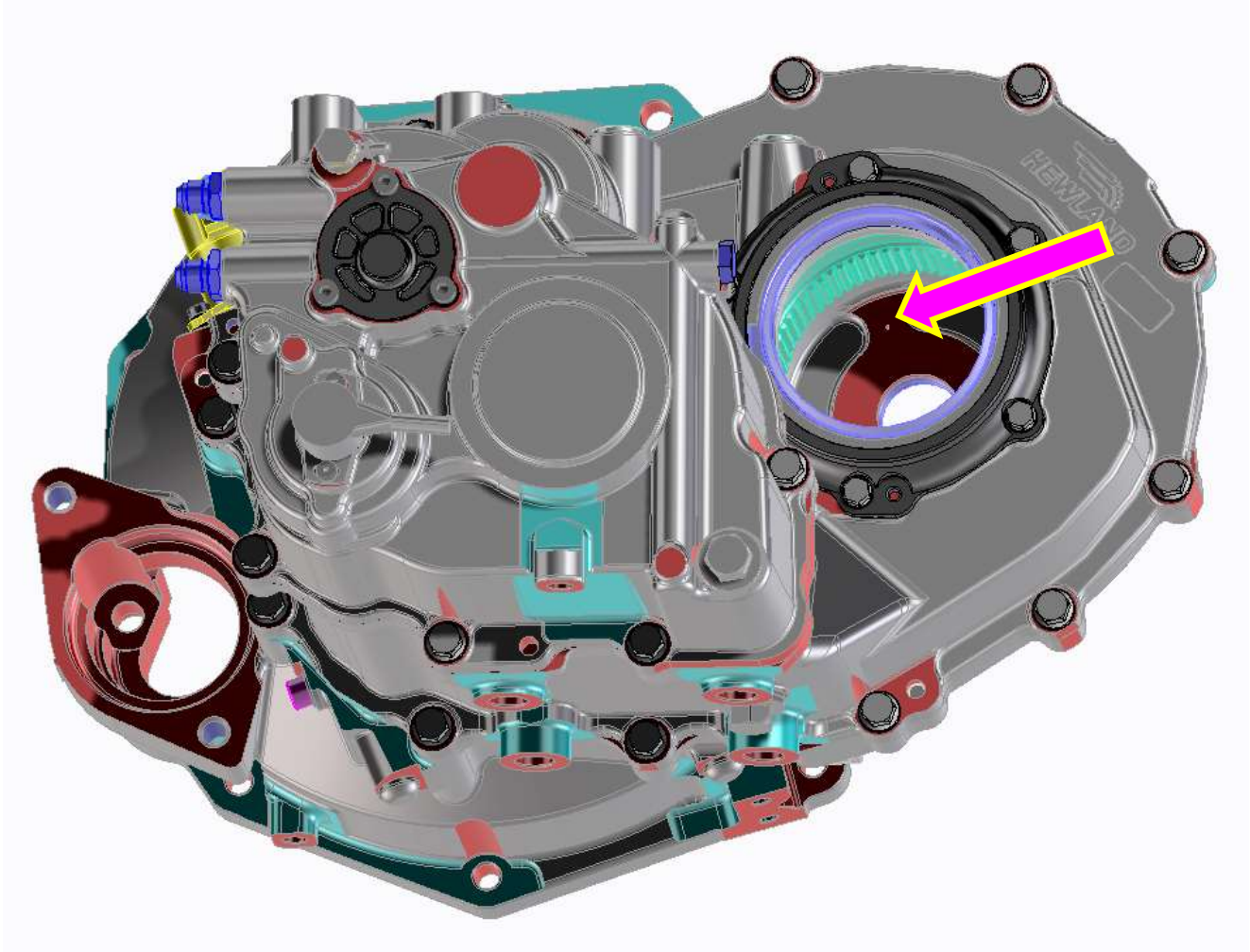
+44 (0) 1628 827600
info@hewland.com
www.hewland.com

It should be noted that even with the modifications to the carrier & diff cap, the overall length of the CFT-212-MK2 differential assembly is approx. 0.3mm longer than the previous unit. Due to this, when fitting the MK2 differential, it is important that customers check the clearance in the area shown below:-



Hewland Engineering Ltd
Waltham Road, White Waltham
Maidenhead, Berkshire
SL6 3LR, UK

+44 (0) 1628 827600
info@hewland.com
www.hewland.com



If the diff cap contacts the casing in this area, it may be necessary to dress a clearance into the maincase (by using a Dremel or similar tool). No more than 0.75mm should be removed due to the proximity of the oil drilling in the casing

Note:-

Gearboxes built by Hewland to CFT-200-004 “2024 CUPRA specification” will be installed with latest CFT-212-MK2 differentials and will already have the revised adjuster carrier and end caps fitted. The clearance between the differential and maincase will have been checked.

The contents of this document are confidential, not for public disclosure and are proprietary to Hewland Engineering Limited ('the Company'). No reproduction or copying of its contents are permitted. This document is for discussion purposes only and is therefore subject to change and amendment. The final contract between the Company and the client for whom this document has been prepared exclusively governs the provision of, and liability for, the information contained herein. The provision of this document does not imply any obligation on the part of the Company to update the contents thereof or to proceed with any particular aspect of the proposal, and the Company makes no warranty, implied or otherwise, as to the fitness for purpose of the contents herein. No partnership or joint venture is implied or formed by the provision of this document.



Hewland Engineering Ltd
Waltham Road, White Waltham
Maidenhead, Berkshire
SL6 3LR, UK

+44 (0) 1628 827600
info@hewland.com
www.hewland.com