



FAG

Service Info



Differences between wheel bearing designs

Repair Insert Unit (RIU) and Insert Unit (IU)

FAG is the leading manufacturer of wheel bearings in the commercial vehicle segment. Depending on the vehicle manufacturer's requirements and specifications, FAG develops specially tailored wheel bearings in different designs.

Of these designs, the Insert Unit (IU) is one of the most commonly used in mass production. However, an Insert Unit does not remain lubricated or sealed for its entire life, making it more susceptible to assembly and fitment errors.

To combat this, Schaeffler Automotive Aftermarket has developed the "Repair Insert Unit" (RIU).



A Repair Insert Unit pack usually contains:
Inboard bearing, outboard bearing, retaining ring, assembly tool, O-ring and ABS ring as required



An insert unit pack will usually include:
2 outer rings, 2 inner rings with cages and rolling elements, retaining ring, grease, seals, O-ring and ABS ring as required

The design of the RIU means that the outer rings are wider than those on the IU, which can lead to confusion in the workshop. However, the Repair Insert Unit (RIU) and the Insert Unit (IU) are completely interchangeable.

The RIU remains lubricated for its entire life, and comprises a pre-assembled unit with built-in rotary shaft seals.

In comparison, the rotary shaft seals on the IU must be fitted to the wheel hub in an additional operation.

Important: The two halves of the wheel bearing in the Repair Insert Unit (RIU) must not be disassembled!

Please observe the vehicle manufacturer specifications!

You want more? We can help!

Phone: +44 (0) 1432 264 264*

Fax: +44 (0) 1432 375 760

hfd-info@schaeffler.com

www.schaeffler-aftermarket.co.uk

* Calls from within the UK 08457 001100



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