

Turbo

T3 / T4 models

Application

All not bolted T3 / T4 bearing housings

Garrett[®]

by Honeywell

PERFORMANCE

Official EMEA Distributor

Why use 360° thrust bearings

For high boost applications the design and quality of the thrust bearing and thrust collar are of utmost importance.

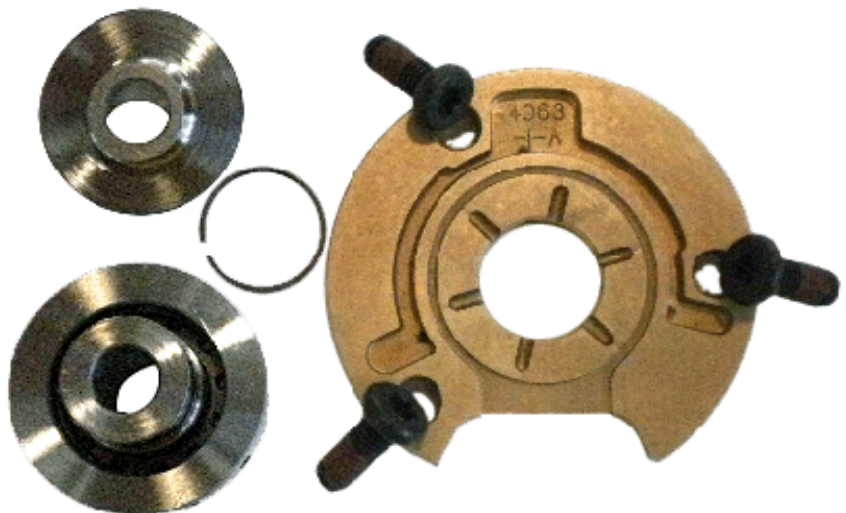
The thrust bearing is put under heavy strain when high boost pressures are used, in particular with large size compressor wheels or extreme performance applications. Then it requires maximum load carrying capability.

Many manufacturers of conventional turbochargers use a 270° degrees thrust bearing and a one piece thrust collar-oil slinger combination.

Experience in practice has learned, that this 270° degree design is less suitable for high boost application and high thrust loads.

Reason why Garrett[®] sells modified 360° degrees thrust bearings plus thrust collars for racing and high boost applications, as an upgrade for conventional builds of turbochargers that still used the 270° degree thrust design.

The advantages of a 360° degree thrust bearing include a full circle of lubrication, improved orifices to lubricate the thrust collar, instead of the smaller ones for the 270° degree unit and an updated pad strategy to better disperse oil where it is needed.



Garrett 360° kits for T3 / T4 applications

709518-0001 360° kit to T3/T4 applications consists of:

- 3 x 400810-0410 Screw
- 1 x 403818-0009 Piston ring (compressor side)
- 1 x 444388-0002 Thrust spacer
- 1 x 445133-0001 Thrust bearing
- 1 x 445436-0002 Thrust collar

707495-0001 360° kit plus bearing housing to T3/T4 applications consists of:

- 1 x 400424-0000 O ring (bearing housing)
- 4 x 400568-0000 Retainer ring (bearing housing)
- 2 x 410249-0001 Journal bearing
- 3 x 400810-0410 Screw
- 1 x 403818-0009 Piston ring (compressor side)
- 1 x 444388-0002 Thrust spacer
- 1 x 445133-0001 Thrust bearing
- 1 x 445436-0002 Thrust collar
- 1 x Bearing housing (no watercooled)

707495-0002 360° kit plus bearing housing (wc) to T3/T4 applications consists of:

- 1 x 400424-0000 O ring (bearing housing)
- 4 x 400568-0000 Retainer ring (bearing housing)
- 2 x 410249-0001 Journal bearing
- 3 x 400810-0410 Screw
- 1 x 403818-0009 Piston ring (compressor side)
- 1 x 444388-0002 Thrust spacer
- 1 x 445133-0001 Thrust bearing
- 1 x 445436-0002 Thrust collar
- 1 x 445362-0003 Bearing housing (watercooled 16mm)

