

# Blue Print Info

## Clutch Release Bearing

**Application references:** ADN13309, ADN130141, ADN130253

**Applications:** Nissan Navara D22, NP300, D22S

Before fitting any new clutch components, inspect the clutch fork for corrosion, wear or damage and inspect the guide tube for pitting, scoring, wear and for any remains of the old bearing, replacing any non-serviceable parts as necessary. Check that the new bearing moves freely on the guide tube.

When replacing the clutch release bearing, care must be taken to ensure that it's fitted correctly. It is possible to inadvertently fit the bearing 180 degrees out and in doing so severely restrict the pivoting action of the bearing on the clutch fork. If fitted incorrectly, bearing failure is inevitable and damage will occur to the guide tube, which is part of the gearbox front cover.

This guide tube from a Nissan D22 (Fig.1) shows scoring and damage caused by an incorrectly installed clutch release bearing.

Fig.1



### Correct installation:

It's important to note the position of the release bearing retainers on the clutch fork. In the correct position like this, the bearing can pivot on the fork as it travels along the guide tube.



### Incorrect installation:

In this position the bearing cannot pivot on the fork and as a result the release bearing will drag against the guide tube causing premature wear, damage to the guide tube and will eventually lead to clutch failure.

Application of a lithium-based grease to the guide tube, clutch fork pivot point and release bearing retainers is important for its long term operation, but over lubrication must be avoided to prevent contamination of the friction surfaces.

**Incorrectly fitted clutch components will invalidate the warranty.**

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