

REFERENCE	BT_2013_FR20_13_UK
DATE	28th of May, 2013
SUBJECT	Clutch releaser ring piston repair
PART	Clutch releaser



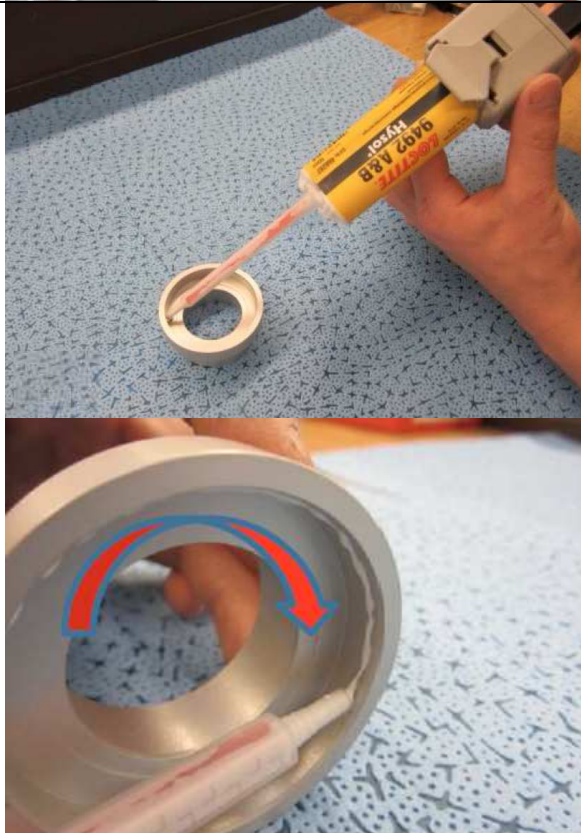
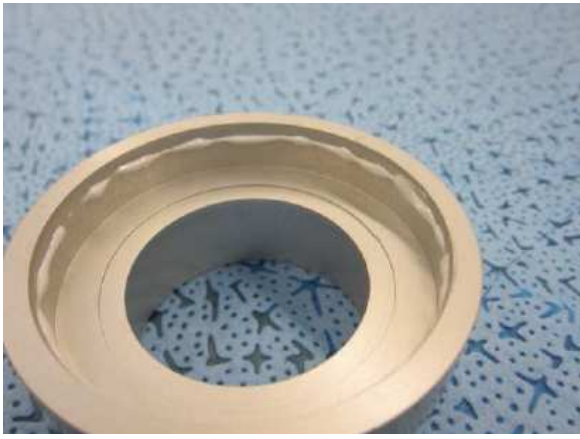
Clutch releaser ring piston repair

In some specific conditions, the bearing inserted in the ring piston can come loose when the gearbox, still warned, is removed. In those conditions, the genuine glue, used to maintain the bearing in its location, does not absorb the part heat deformation.

If the bearing comes off of its location, the ring piston assembly has to be serviced following the procedure below using specific epoxy adhesive glue: **Loctite Hysol 9492**



Loctite Hysol 9492

	<p>Composition of the ring piston assembly</p> <ol style="list-style-type: none"> 1. Bearing 2. Ring piston
	<p>Clean the parts with detergents</p> <p><i>Ultrasonic bath:</i> P3 – Galvaclean 20 <i>Washing time and temperature:</i> min.10min with 50°C</p> <p>In case you do not have an ultrasonic bath for cleaning the components, please use a cleaner with material compatibility to all units.</p> <p>Check the parts from damage and wear (visual check):</p> <p>In case the parts are too much worn, a repair is not longer practicable and you should replace the complete ring piston.</p>
	<p>After cleaning the parts, you should apply the Loctite Hysol 9492 adhesive at the outer diameter of the ring piston as shown on the photos.</p> <p>Please do not use too much of it to avoid a malfunction of the bearing.</p> 



After the adhesive has been applied, insert the bearing with care and press it down.



To grant a proper adhesive connection, it must be hardened with max. 120° for 10 minutes.

In order to guarantee a proper repair, we advise you to realize it at your workshop using an oven.

However, in case of necessity, the operation can be achieved directly at the track taking into account a hardening time of 75 minutes at 20°C after which the clutch can be used.

A Loctite Hysol 9492 glue stick is available in NEC, ALPS and Eurocup spare parts trucks.



Note: ZF Race Engineering has set a new bearing fitting method. The bearing is now crimped into the ring piston avoiding any losing inducing by the part deformation under heat.

The new clutch releaser and ring piston assemblies available from Renault Sport are updated with this improvement.