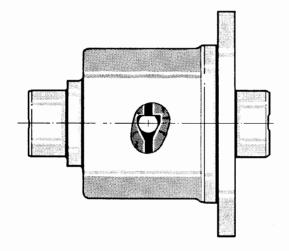
## Model Group **Technical Bulletin** 1991 911t 3 Part Identifier Number Subject: **ZF-Type Limited Slip Differential** 3940 9101

ATTENTION: Service Manager/Service Technician 1991 911 turbo **Models Affected:** 



Concern:

General Information:

Operation of the new ZF-type limited slip differential.

The new ZF-type limited slip differential is designed to provide different locking values for driving load and deceleration load. The ZF limited slip differentials formerly installed had a locking value of approximately 40% under driving load and deceleration load.

This new design features a locking value of 20% under driving load and up to 100% under deceleration load. The locking value under deceleration is generated as in the former version differential thrust pieces working against a pin, squeezing a clutch pack. The 20% locking value under driving load, however, is not dependent on torque input. This locking value is generated entirely by cup spring preload on the clutch packs. The 20% locking value is constant regardless of traction load.

It is important to note that the deceleration load locking mechanism is also active in reverse gear. For this reason some differential growl may be noticed on very sharp turns when backing the car. This noise is a normal function of the new differential design. No repair attempt should be made.

