

# Injectronics

## TECHNICAL BULLETIN

### MERC BENZ SENSOTRONIC BRAKE CONTROL

#T0137

The Sensotronic Brake Control (SBC) system is fitted to many Mercedes-Benz vehicles ranging from 2001-2011. This includes W211 E-Class and R230 SL Class.

This type of Electro-hydraulic brake system provides the brakes with a brake fluid supply from the hydraulic high-pressure reservoir, which is sufficient for several braking events. A piston pump driven by an electric motor supplies a controlled brake fluid pressure between 140 and 180 Bar in the gas diaphragm reservoir (Accumulator).

There are many of advantages of this system which include:

- Improved metering of required brake pressure – each wheel can be precisely controlled
- Improved Brake Assist function – monitors release of accelerator pedal • Maximum pressure available immediately – pre-filling of system (overcomes play)
- No pedal vibration during ABS operation – eliminates driver distraction during critical moments
- Dry braking function – via rain sensing wipers

Mercedes-Benz set a cycle limit or lifespan to the SBC Hydraulic pump fitted to W211 and R230 series vehicles. The SBC / ABS module counts braking cycles and after approx 300,000 cycles, an error message appears. This has been set as a precaution to allow the vehicle's owner to have their SBC control unit repaired or replaced before complete failure. Some companies only reset the counter which is completely unsafe! When your vehicle's SBC pump motor fails you will lose all braking or have reduced braking power and lose all power assist. This also means only the Front Brake Calipers operate under Emergency operation.

Some of the error messages displayed in the vehicles instrument cluster are:

- STOP VEHICLE
- REDUCED BRAKING POWER – VISIT WORKSHOP
- Brake defective, STOP VEHICLE!
- SBC Control module failure
- Logs Fault code C249F "Operating time of component A713 is exceeded" or "Service threshold reached"

Injectronics will fully rebuild your vehicles SBC / ABS Hydraulic Pump Motor and reset C249F fault code. Injectronics also supply a Brand-New Bosch Accumulator with the repair. This must be fitted upon return of repaired unit following correct workshop procedure.

Injectronics also carry a number of complete replacement units if the customer's fault is not listed and their unit is unrepairable. Visit [Injectronics.com.au](http://Injectronics.com.au) and search ABSRESETREP for more info