

# Injectronics

## TECHNICAL BULLETIN

### BMW E85 Z4 2.0L ROADSTER – POWER STEERING #T0139

#### Customer Complaint:

The Injectronics technical assistance line have found that a pattern has been occurring with some issues regarding the BMW E85 Z4 2.0i Roadster, manufactured between 2003 and 2009.

#### Common Faults:

- Loss of power assisted steering
- No communication via scan tool / no fault code can be read
- No active steering return
- The EPS warning light will be constantly illuminated

#### Diagnosis:

If vehicle is presented with the EPS warning lamp continuously on and no scan tool communication with EPS module, repairers are advised to check for power supply and ground circuit to ensure that EPS system is getting the power feed. Basic pin configuration is provided in this image. If any of the power supplies are missing, then please check the circuit and relevant fuses. After confirming that the EPS system supply and ground circuit is OK and scan tool communication is still not possible then the EPS unit may have an internal fault.

If the EPS unit is only failing intermittently then gently tap the EPS module with back handle of a screwdriver which may assist in replicating the fault. This will also confirm there is an internal EPS module fault.



#### Connector A

RT Wire - Batt 12V  
BR wire - GND

#### Connector B

Pin 5 (GN/WS) - IGN Key ON 12V  
Pin 1 (GE/BR) - CAN BUS L  
Pin 4 (GN/WS) - CAN BUS H

#### Solution:

Injectronics can provide a prompt and cost effective repair service of customer's own EPS unit. To fully repair the EPS unit, Injectronics requires the EPS motor assembly only (please be aware to follow correct manufactures removal and assembly instructions when disconnecting the EPS unit from the steering column assembly).

**Repair Part number: EPSE85REP**