

# Injectronics

## TECHNICAL BULLETIN

### FORD RANGER / MAZDA BT50

#T0148

**Make:** Ford / Mazda

**Model:** Ranger / BT50

**Subject:** Intermittent no start fault

The Ford Ranger / Mazda BT50 is a very common vehicle in Australia and New Zealand with over 300 thousand on the road. IM Group's customers have come across a common fault with these vehicles being an intermittent no start issue.

**The vehicles in question include:**

- Ford Ranger PJ series 2007-2009, WE-C (3.0L) WL-C (2.5L)
- Ford Ranger PK series 2009-2011, WE-C (3.0L) WL-C (2.5L)
- Mazda BT50 UN J97M 2006-2011, WE-C (3.0L) FL-C (2.5L)

**Common faults:**

The vehicles starter motor will crank but the engine will not start, there will be no check engine light or glow light operation in the instrument cluster intermittently. The ignition key may have to be cycled multiple times until the check engine and glow lights in instrument cluster illuminate. Once the check engine & glow lights illuminate the engine will start.

- BAP sensor / MAP sensor performance code
- No injector outputs
- No communication between the ECM and scan tool
- Immobiliser issues

**IM Group can provide the following solutions:**

- A repair of the customer's own unit
- Supply a fully programmed exchange unit (customer must provide the original unit)
- Supply an ECM in a virgin (new) state. Ford factory scan tool, IDS or FMP programming will be required
- Supply a cloned ECM, matched to the immobiliser if the vehicle is immobilised
- Immobiliser key programming or programming immobiliser to ECM as required

**Immobiliser system:**

The part numbers on the ECM's does not determine if the unit is immobilised or not. A unit with the same part number can be either immobilised or non-immobilised. Immobilised vehicles have an antenna coil imbedded in the black plastic trim ring around the ignition key barrel and a separate immobiliser module located above the ECM.

**Part numbers include:**

- 0 281 012 704
- 0 281 012 875
- 0 281 013 055
- 0 281 016 312
- 0 281 016 316
- 0 281 019 357

