

## Mitsubishi Magna / Verada Complete Remote – KF386

The very popular complete remote to suit the Mitsubishi Magna TH, TJ, TL, TW and Mitsubishi Verada KH, KJ, KL, KW is now available. The unit has a completely re-engineered circuit board, designed by our in house R&D department. This unit is no longer available as a genuine product from Mitsubishi but is available at your local MAP stockist.



**MAP**  
mechatronics auto parts



\*KF386



**C640GEN**  
Ignition Coil - GEN OEM

Alfa / Fiat / Jeep



**DP103GEN**  
DPF Sensor - GEN OEM

Audi / Skoda / Volkswagen



**DP106GEN**  
DPF Sensor - GEN OEM

BMW / Mini



**AM62172GEN**  
Air meter - GEN OEM

Mitsubishi ASX, Lancer, Outlander, Triton



**GE482**  
Fuel pump module

Ford Mondeo MA, MB, MC



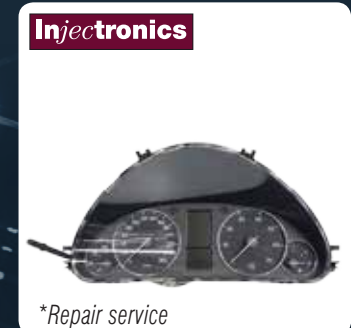
**ABSVW60XREP**  
ABS Module

Volkswagen Beetle, Bora, Golf, Polo



**CLI9112REP**  
Climate control

Porsche 911, 930



**DAS203REP**  
Dash instrument cluster

Mercedes Benz W203

# IMnews

JUST A SAMPLE OF OUR  
CONTINUALLY INCREASING  
RANGE OF GENUINE OEM AND  
AFTERMARKET AUTOMOTIVE  
ELECTRONIC COMPONENTS.



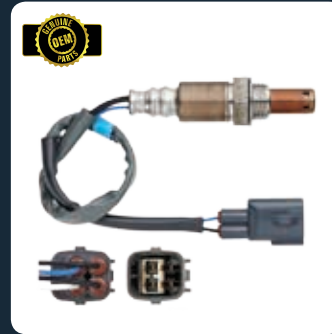
**OX411GEN**  
Oxygen sensor - GEN OEM

Subaru Forester, Liberty, Outback, SVX



**OX424GEN**  
Oxygen sensor - GEN OEM

Subaru Forester, Impreza, Legacy, Liberty, Outback



**OX430GEN**  
Oxygen sensor - GEN OEM

Toyota Corolla, Hilux, Landcruiser, Prius



**OX433GEN**  
Oxygen sensor - GEN OEM

Suzuki Grand Vitara, SX4



**OX846GEN**  
Oxygen sensor - GEN OEM

Honda Civic, CRV



**OX880GEN**  
Oxygen sensor - GEN OEM

Suzuki Grand Vitara



**GE328GEN**  
Fuel pump module - GEN OEM

Mazda 6 GG, GY



**GE341GEN**  
Fuel pump module - GEN OEM

Ford Focus LS, LT, LV



**GE349GEN**  
Fuel pump - GEN OEM

Toyota Highlander / Kluger



**GE350GEN**  
Fuel pump - GEN OEM

Toyota Prius / Yaris



**GE351GEN**  
Fuel pump - GEN OEM

Toyota Yaris NCP130R, NCP131R



**GE361GEN**  
Fuel pump - GEN OEM

Toyota Aurion GSV50R

THE TRULY INDEPENDENT LEADER IN ENGINE  
MANAGEMENT AND MECHATRONIC PRODUCTS

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**IM Group**  
innovative mechatronics



**TB249GEN**  
**Throttle body - GEN OEM**

Mazda CX-7, Mazda 3, Mazda 6



**TM102GEN**  
**Turbo control module - GEN OEM**

Toyota Hiace, Regius Ace



**Injlectronics**

*\*Repair service*

**ABS B053REP**  
**ABS Module**

Audi A4 / Ford Cougar



**Injlectronics**

*\*Repair service*

**ABS VW25REP**  
**ABS Module**

Volkswagen Caravelle, Touareg,  
Transporter



**GOSS**

**GE486**  
**Fuel pump module**

Mini Cooper S R53



**GOSS**

**GE478**  
**Fuel pump module**

Mazda RX-8 FE



**GOSS**

**GE490**  
**Fuel pump module**

BMW E65



**Injlectronics**

*\*Repair service*

**ECMEJ20REP**  
**Electronic control module**

Subaru Impreza GC, GF



**Injlectronics**

*\*Repair service*

**ECM3VZREP**  
**Electronic control module**

Holden Apollo / Lexus



**Injlectronics**

*\*Repair service*

**ECMRAV2REP**  
**Electronic control module**

Toyota Rav4 2003-2006



**MAP**  
mechatronics auto parts

**KF252**  
**Remote button**

Mazda CX7, CX9, Atenza, Demio,  
Mazda 2/6



**MAP**  
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**KF253**  
**Remote button**

Mazda 6, AtenzaVW

**THE TRULY INDEPENDENT LEADER IN ENGINE  
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# TECHNICAL BULLETIN

## FORD RANGER / MAZDA BT50 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
- 0 281 016 312
- 0 281 012 875
- 0 281 016 316
- 0 281 013 055
- 0 281 019 357

Visit [www.injectronics.com.au](http://www.injectronics.com.au) for more information or to book in a repair and to locate your nearest reseller.



\*Repair service