

# Technical Bulletin

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## Product Focus –Idle Speed Control Valve (Stepper Motor) ADC47430 Mitsubishi FTO 2.0 & Galant 2.5 V6 models

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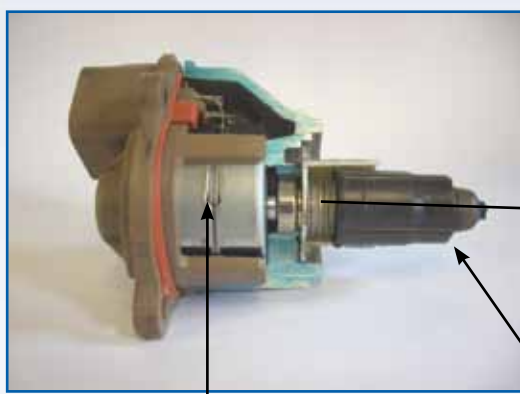


It is our experience that the Idle Speed Control Valve (Stepper Motor) commonly fails on the Imported Mitsubishi FTO 2.0 and UK Galant 2.5 V6 models.

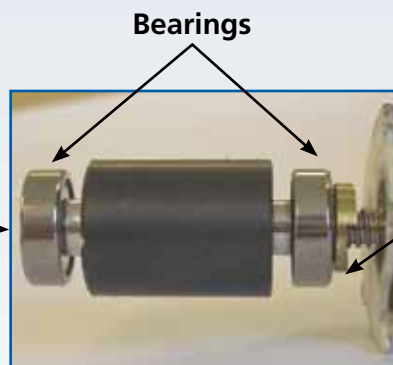
Symptoms will include stalling, 'hunting' or erratic idle speeds (especially from cold). These symptoms may be intermittent in the early stages of failure, but it is highly likely that the problem will become worse or fail completely.

The unit is mounted in the throttle body assembly, and will require the air box cover and ducting to be removed to gain access. Please note that the original 'O' ring should be re-used or replaced when removing the valve (not supplied with new unit). It may be possible to confirm diagnosis without the Mitsubishi harness tool by removing and cleaning the valve (may temporarily remedy problem), or by checking the Stepper Value on the live data function of a diagnostic scanner. The value should be approximately 50-70 under normal operation; however a unit tested by Blue Print with a known fault displayed 114.

This particular valve operates in a similar way to an electric motor, but allows the plastic valve seat to be moved in or out incrementally (in steps) using signal pulses to adjust the idle speed.



Motor field windings



Bearings

One-way 'snail' cam on a threaded shaft allows 'one turn' increments

Plastic seat assembly (Mounted on a threaded Spindle)

We strongly recommend that the valve seat in the throttle body assembly be checked for excessive carbon deposits when replacing the idle speed control valve. Removing the throttle assembly from the vehicle to gain better access best does this.

**Disclaimer :** Any technical tips are produced in good faith. Blue Print, always recommend that vehicle maintenance and diagnostics are only carried out by suitably experienced people using appropriate tools in a safe manner within a workshop environment. Blue Print, and their customers cannot be held responsible for the correctness of, or misinterpretation of the above technical tips. Images shown are for illustrative purposes only and may not be representative of the products or vehicles described.



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