

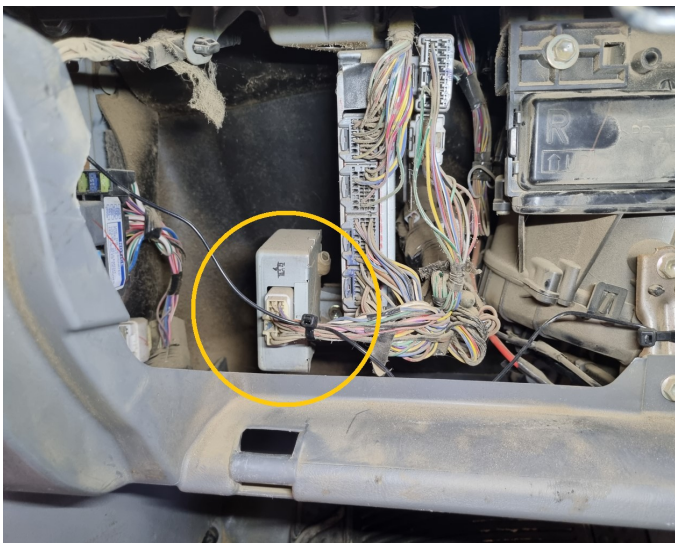


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TOYOTA 1KD-FTV TURBO DRIVER SIMULATOR 2005-2015 HILUX KUN26 + PRADO KDJ120

This module simulates the ECU interface to the external driver module, for the variable geometry / VNT turbo fitted to 2005 to 2015 Toyota Hilux KUN26 + Prado KDJ120 3.0L Diesel 1KD-FTV vehicles. It allows removal of the VNT turbo stepper motor and driver module when fitting a traditional wastegate style turbo – while keeping the ECU thinking the VNT is still fitted and everything is working correctly.

INSTALLATION



1. Locate and unplug factory turbo driver module (unclip glovebox, beside ECU on Hilux vehicles).
2. Using appropriate adaptor loom (10 or 12 pin), connect simulator module directly to factory connector.

NOTE: There are different versions of the factory driver module used depending on manufacture date of the vehicle (10 or 12 pin connector).

Hilux up to 07/2006 used a 10-pin blue label module.
Hilux from 08/2006 used a 12-pin orange label module.

TROUBLESHOOTING

Module Pinout

Black 12V #1	12V #3	Red VNTI Signal
Black 12V #2	White Earth	Orange VNTO Signal

The simulator module will automatically produce different signal types depending on which pin the black power wire is connected to.

12V #1 – Early 10 pin type

12V #2 – Late 12 pin type

12V #3 – Currently unused (for future expansion)

The simulator contains 3 troubleshooting LED's that can be found by opening the case:

Green	Power Indicator	
Yellow	VNT Signal Type	1 Flash for early 10 pin, 2 flashes for late 12 pin
Red	Error Indicator	Illuminates if signal from engine ECU is missing

Important Notes

- With this simulator fitted the factory VNT system will become inoperative. The engine will run poorly unless the VNT turbo is removed and replaced with a traditional wastegate turbo.
- The engine ECU will still require tuning. Some DTC's (eg. P1251 - Overboost Condition) can still be logged, the ECU will recognise that there is more boost present than it is commanding.