

Going deeper to solve the problem - Non Cranking 2009 Ford Focus 1.6 16V

After a long period of non use, this 2009 Ford Focus refused to crank over. The initial diagnosis scan revealed the PAT system had a fault logged - Transceiver Signal Not Received.

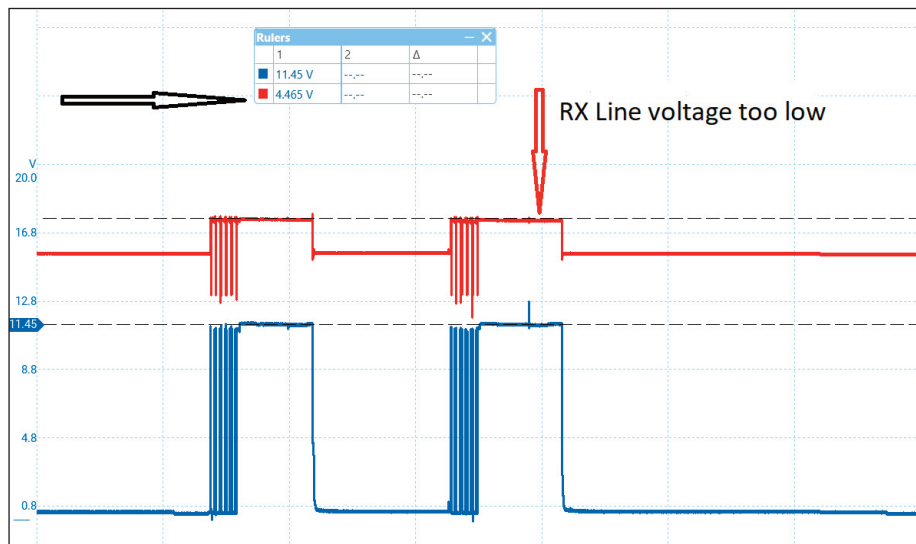
Not having access to a scope or the relevant wiring data, the technician replaced the transceiver module around the ignition barrel. This had no effect on the problem. Then they had a local key cutting company test the key to verify the transponder was present in the key. All proved ok.

Then a new technician was given the job, to scope the signals power and ground connections to the transceiver. After calling the help line for the wiring diagram, the signals were taken and we compared them to known good examples.

This proved a signal issue with the RX line voltage being lower than expected. The usual voltage of 11.45v on both TX and RX lines.

The wiring to the Hybrid Cluster was checked and found to be good after load testing the circuit.

The technician decided to open up the cluster to investigate, as he had time to learn from this problem. With our help line assistance,



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After resoldering the connection and refitting the cluster, the issue was resolved and the Focus.

It was due to the fact that the Covid 19

lockdown had slowed business that the garage actually had the time to dig deeper into the fault, rather than send the component away for repair, and learn a little bit along the way. Sometimes it helps to step back, slow down and take the time to learn something new.