

Rav4 Ecm Fix Manual

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in the early part of the 21st century we find our lives intertwined with a maze of technological wonders from cell phones to personal computers no human being today can escape it automobiles are no exception to this rule with the ever changing

emission laws of today the one constant in the automotive industry is that things always change and will continue to do so obd ii was designed from the beginning to do so as well late model vehicle systems are much more demanding in both the amount of technology they possess and in the knowledge necessary to repair them this work was designed to just that a step by step diagnostic approach to obd ii systems it is also written with the state inspections in mind this is in direct response to the increasing adoption of obd ii inspections by most states throughout the country obd ii repair don't have to be difficult or cumbersome and knowledge is the key to successful obd ii diagnostics and repair about the author mandy conception has worked in the automotive field for over 21 years he holds a degree in applied electronics engineering as well as an ase master l1 certification for the past 16 years he has been exclusively involved in the diagnosis of all the different electronic systems found in today's vehicles it is here where he draws extensive practical knowledge from his experience and hopes to convey it in his books mandy also designs and builds his own diagnostic equipment dvd videos and repair software edition 4 0 table of contents copyright 2004 2011 all rights reserved table of contents section 1 basics of obd ii what is obd ii why do we need it the federal test procedure ftp technical aspects of obd ii ff monitors pending current codes the drive cycle re setting monitors etc the data link connector diagnostic trouble code implementation resetting monitors what are freeze frames and how are they useful in diagnostics a word about misfires do i need an oem scanner or can i get by with an aftermarket scan tool generic vs enhanced what's the difference why do you need to pull out both codes the vehicle failed obd ii state inspection but is passing a 5 gas emissions test why is it resetting fuel trims it's not the same procedure for every system the diagnostic executive or task manager what is it bi directional control capabilities are revolutionizing the diagnostic process diagnosing evap leaks it doesn't have to be complicated section 2 base lining the system includes retrieving ff codes monitor status freeze frames information gathering monitor status flag code setting criteria how and why was the code set freeze frame and code setting criteria comparison dividing the diagnostic process into systems and using the codes to detect system faults first rule of diagnostics know the system you're working on system by system outlook which monitors are incomplete the need to prove each system without having to run a drive cycle by using the scanner saving time money general idle pid snap shot section 3 introduction obd 2 generic pid list obd i and obd ii and general pid analysis fuel delivery fault detection test 1 test 2 test 3 test 4 test 5 running the monitors in your mind using the scanner section 4 putting it all together principles of diagnostics basic scope testing and bi directional control no start general diagnostics the correct decision making process to a sound repair don't assume anything or get caught in a particular mind set taking all the facts into account

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