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# Vetronix Tech 2 User Guide

**SJ Ball**



## **Vetronix Tech 2 User Guide:**

*OBD II Repair Strategies* Mandy Concepcion, 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 Concepcion 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

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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

## **Fundamentals of Automotive Technology**

Vangelder, 2017-02-24 Revised edition of Fundamentals of automotive maintenance and light repair Kirk T VanGelder 2015

Automotive Vehicle Strategies and ECM Modes ,

### **Automotive Scan Tool PID Diagnostics** Mandy

Concepcion, 2011-10-06 Automotive Scan Tool PID Diagnostics Diagnostics Strategies of Modern Automotive Systems By Mandy Concepcion In this section the different techniques of scan tool parameter PID analysis will be exposed Techniques involving PID analysis are quickly catching on due to their speed and accuracy By properly analyzing the different scanner PIDs the technician can arrive at the source of the problem much faster and accurately These procedures give rise to the new term driver seat diagnostics since most of the preliminary diagnostic work is done through the scanner However these techniques will in no way replace the final manual tests that are a part of every diagnostic path They are simply geared to point the technician in the right direction Table of Contents INTRODUCTION Introduction to scan tool diagnostics and the relevance of using PIDs or scanner parameter to perform the first leg of all diagnostics Theory of Operation Behind the Different PIDs Describes CARB the difference between generic and enhanced PIDs the FTP OBD II Generic PIDs PID calculated and actual values calculated data relationships base injection timing ECM value substitution OBD I II General PID analysis erasing code or not recording analyzing and pinpoint tests separating PIDs into groups Fuel Delivery Fault Detection fuel delivery issues intake air temp sensor BARO sensor Engine LOAD RPM PID Short Term Fuel Trims Long Term Fuel Trims 60% of check engine light issues block learn integrators Example 1 injector fault Example 2 intake gasket issues fuel status ignition timing MAP MAF TPS O2 sensor IAC Closed Throttle injector pulse width voltage power injector duty cycle fuel trim cell Test 1 Determining an engine's fuel Consumption rich lean operation duty cycle to fuel trim relationship O2 sensor to fuel trim relation FT and vacuum leaks ignition timing and idle control test conclusion Test 2 Misfire Detection Strategy EGR Ignition and Mechanical misfires misfires and OBD2 scanner misfire detection a time saver OBD2 40 and 80 cycle misfire ignition injector and EGR density misfire coil on plug misfires and O2 sensor lean O2 Secondary misfire O2 sensor injector misfires leaky injector EGR and the MAP Type A B C misfires test conclusion Test 3 Air Fuel Ratio Faults air fuel imbalance MAF and post O2 sensors open closed loop fuel enable HC CO relation to AF issues test conclusion Test 4 BARO MAP MAF PID analysis MAP valve timing faults ECM behavior fuel delivery or duty cycle test volumetric efficiency test conclusion Test 5 Clogged exhaust clogged catalytic converter detection TPS MAF and converters idle and WOT or wide open throttle values vacuum readings MAP to WOT charts analysis engine and MAP vacuum test conclusion Test 6 EGR Fault Detection EGR and MAP values ECM reaction to EGR issues EGR temp sensor DPFE sensor EGR and O2 MAP and lift position sensor EGR and engine pre loading EGR and the ECM erroneous high LOAD issues test conclusion Test 7 O2 Sensor Heater O2 heaters and why tough to check O2 heater issues O2 heater effect on signal output O2 heater bias voltage engine off and O2 changing value test conclusion Test 8 Resetting Fuel Trims resetting injection pulse corrections long term and

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sources of leaks cranking values test conclusion     *How to Find an Automotive Repair Shop* ,     *Estrategias de Sistemas Automotrices OBD-II* Mandy Concepcion,2011-05-11 En la primera parte del siglo 21 nosotros encontramos nuestras vidas entrelazadas con un laberinto de maravillas tecnologicas De los tel fonos celulares a las computadoras personales ning n ser humano puede escapar Los autom viles no son ninguna excepci n a esta regla Con las leyes de emisi nes cambiantes de hoy una constante en la industria automotor es que las cosas siempre cambian y continuar n haci ndolo OBD II fue dise ado desde el principio para esto Los sistemas del veh culo de hoy son mucho m s exigentes en ambos la cantidad de tecnolog a en ellos y en el conocimiento necesario para repararlos Este libro se dise teniendo en cuenta un plano de diagn stico lento o paso a paso en OBD II Tambi n es escrito con las Inspecciones Estatales en la mente Esto es en respuesta directa a la adopci n creciente de OBD II en inspecciones por la mayor a de los Estados a lo largo del pa s OBD II no tiene que ser dif cil o embarazoso y el conocimiento es la llave al xito en su diagn sticos y reparaci n Tabla de Contenido Secci n 1 Los elementos esenciales de OBD II Que es OBD II 2 Por qu nosotros lo necesitamos El Procedimiento de la Prueba Federal FTP 2 El aspecto t cnico de OBD II FF los monitores Pendiente los C digos Actuales El Ciclo del Paseo Re poniendo a los monitores el etc 6 Codigos de diagnostico y datos PID 8 La aplicacion de PIDs y codigos FUEL TRIMS y su analisis 9 Monitores 14 Que es el marco helado de datos y c mo son tiles en diagn sticos 15 Hay necesidad de un esc ner del OEM o puedo yo sobrevivir con un scanner generico examinacion del escaner 15 Gen rico contra Fabricante Cu l es la diferencia por qu usted necesita ambos c digos 16 El vehiculo fallo la prueba OBD II de Inspecci n pero est pasando la 5 prueba de emisiones de gas Por qu es esto 17 Los FUEL TRIMS No es el mismo procedimiento para cada sistema 17 18 El Diagn stico Ejecutivo o Gerente de la Tarea Qu es 19 Las capacidades del mando bi direccionales est n revolucionando el proceso de diagn stico 19 Los escapes de EVAP No tiene que ser complicado 20 Secci n 2 Cogiendo datos de base en el sistema incluye recuperando FF los c digos el estado del monitor 2 Informaci n de Marcos Congelados o FREEZE FRAMES 4 Supervisando los estados del monitor 5 Criterio de Escena de c digo C mo y por qu el c digo se pone en memoria 7 El Marco de datos congelado y Criterio de Escena de C digo Comparaci n 9 Dividiendo el proceso de diagn stico en los sistemas y usando los c digos para descubrir las faltas del sistema 10 Primera regla de diagnostico es conocer el sistema en que usted est trabajando 11 La perspectiva del Sistema 11 Qu monitores est n Incompletos La necesidad de demostrar cada sistema sin tener que ejecutar un ciclo de paseo o viaje usando el esc ner salvando tiempo el dinero 16 El grabado de PID en baja general 13 Secci n 3 Casos y Estudio de estos INTRODUCCI N 2 Listado en OBD 2 de PID Gen ricos 3 OBD I y OBD II y el an lisis de PID general 4 DESCUBRIMIENTO DE FALTA DE ENTREGA DE GASOLINA 4 PRUEBA 1 8 PRUEBE 2 9 PRUEBE 3 13 PRUEBE 4 14 EJECUTANDO A LOS MONITORES EN SU MENTE USANDO EL SCANNER 16 Seccion 4 Reuni ndolo Todo Los principios de diagn sticos 2 Alcance

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7 Accionadores Automotrices y Sistemas EVAP Mandy Concepcion,2011-05-13 Esta secci n da una explicaci n profunda de los muchos accionadores y solenoides que componen un autom vil moderno En este articulo expondremos la teor a de operaci n de estos componentes y tambi n los procedimientos de prueba Esto har el diagnostico de estos sistemas mucho mas f cil Adicionalmente la operaci n de sistemas de emisiones tambi n ser expuesta Sea paciente y t mese su tiempo en absorber este material Disfruten y tenga un aprendizaje ameno Prueba de Accionadores Automotrices y Sistemas EVAP Estrategias de Diagnostico de Sistemas de Autom viles Modernos Seccion 2 Tabla de Contenidos Bomba deteccion de salidero 2 2 Estrategia de pruebas del inyector 2 6 Alternadores GM y prueba de estos 2 13 Valvula de Control de Velocidad Baja del Motor 2 16 Sistema EGR de Re introduccion de Gases 2 21 Diagnostico de Sistema EVAP 2 27

**Sensores Automotrices y Analisis de Ondas** Mandy Concepcion,2011-06-11 En esta secci n se explicara a profundidad el funcionamiento de los sensores de au tom viles modernos Como en la mayor a de los casos en este libro se le dar una atenci n especial a la aplicaci n practica de diagnostico A la ves procedimientos dados aqu ser n acompa ados de la teor a necesaria para su entendimiento Los nombres de los sensores ser n acompa ados por su traducci n al Ingles en par nte sis Se le sugiere al lector referirse al Video DVD complementario de esta serie Disfruten Secci n 1 Tabla de Contenido Sensor de Oxigeno O2 Sensor 1 2 Sensor de posici n del acelerador APP 1 6 Sensor de rbol de levas y cig e al CAM CRK 1 10 Sensor de temperatura del motor ECT 1 18 Sensor de temperatura del aire IAT 1 22 Sensor de detonaci n Knock Sensor 1 24 Sensor de admisi n de aire MAF 1 27 Sensor de vaci del m ltiple de entrada MAP 1 32 Sensor de posici n de la v lvula mariposa TPS 1 37 Sensor de velocidad del veh culo VSS 1 42 Sensor de presi n del aire condicionado A C P S 1 47 Sensor de presi n de combustible FRP 1 49 Sensor de flojo de la v lvula de purgar gases PFS 1 51 Sensor de raci n de aire combustible AFR 1 52 NOTAS 1 62

**Fortune** Henry R. Luce,1998-11 *Pest Control* ,2004 *F&S Index United States Annual* ,1999 Automotive Engineering International ,1999 Motor Industry Management ,2000-02 **Thomas Register of American Manufacturers and Thomas Register Catalog File** ,1997 Vols for 1970 71 includes manufacturers catalogs **Phase 2 User's Guide** P. C. Lockemann,W. Dale Knutsen,1967 *Tech 2 Familiarization* General Motors Corporation,1998 **GRG 2 user's guide** L. S. Lasdon,A. D. Warren,1978 **User's guide** Boeing Computer Services Company. Energy Technology Applications Division,1979 GAMBIT 2, User's Guide ,2001 **Keynote 2** Apple Computer, Inc,2005

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