

Tachosoft Online Mileage Calculator User Guide



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Advantages of the online service www.TachosoftOnline.com

* Instant file generation - The website does the file data edit work for you

- * Continued updates, with new models added frequently
- * Upload file check confirmation Service will check the integrity of your BIN file (File size, data structure where possible)
- * Checked and Re-mastered algorithms for all models
- * Increased accuracy in calculation for models with low value correction
- * Supports complex and encrypted dashboard algorithms
- * Easy Registration and free e-mail support service

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TachosoftOnline.com Mileage Calculator - User Guide

Using www.TachosoftOnline.com for adjusting vehicle instrument cluster digital mileage values. This guide is intended to help guide you through the process of using TachosoftOnline.com and help to avoid common errors.

Introduction

The TachosoftOnline.com Mileage Calculator has been developed to focus on the programming of digital dash memory to enable the user to adjust to any desired KM/ Miles value. Tachosoft mileage calculator is aimed at those involved in electronic service and repair. Tachosoft mileage calculator is regarded as the best mileage correction software available due to its extensive coverage of vehicles, ease of use and affordability. Tachosoft mileage calculator is preferred by bench engineers and service centres alike, rather than its overpriced competition in the mileage correction market that often limit your usability and require annual updates. In the last few years, most advances in mileage correction were seen implemented on the Tachosoft platform weeks and months before our competitors, making Tachosoft mileage calculator not only the market leader and standard setter, but also the most often updated and supported mileage tool in the market! Tachosoft... a revolution in Specialised Automotive Electronics... Be part of the electronic programming revolution!

Who is it intended for

TachosoftOnline.com is an easy to use software solution suitable for Beginner to Professional, with the use of an EPROM programmer and soldering station. Tachosoft is aimed at those involved in automotive electronic service and repair, companies and/or individuals alike. In this day and age, vehicles are increasingly being fitted with computer modules by manufacturers to control everything from the engine fuel injection, back to simple functions like wind screen wipers. Don't be left in the past, be apart of the Tachosoft revolution in Specialised Automotive Electronics. Solutions for Immobilisers, Body control units, Engine Management Tuning, and much more..

Which type of vehicles

The Tachosoft platform supports vehicles from motorbikes, cars and commercial vehicles right through to plant and various ATV vehicles such as Skido's, Quads, etc. Currently at Tachosoft we are working hard to update our online service with support for Airbag Crash Data Resetting and Mileage Correction for digital dash. It is our intention to become the worlds no.1 resource in the next few years for all automotive / car data dump files , including but not limited to ECU Remapping and Chip Tuning MOD files, Stock ECU files, Virgin Files for all automotive modules / components including Body control modules, Immobiliser solutions and much more.

Why www.TachosoftOnline.com

TachosoftOnline.com is our newest service, it is updated daily with new additions which are available to registered users. The TachosoftOnline.com service is fast, effective and affordable, which includes a quick and simple registration process. The online service allows real-time resetting of Airbag Crash Data and Digital Mileage Correction, otherwise know as adjusting the Odometer. The Odometer is the vehicles mileage recorder that displays the distance a vehicle has covered during its service life. In some circumstances the mileage value can become a corrupt value, a corrupt value mileage value may be a value that has increased, decreased or become inconsistence, in some cases the values displayed may even disappear and the message 'error' may be displayed. TachosoftOnline.com Mileage Calculator has been designed to rebuild the code stored inside the digital dash instrument cluster EPROM where the mileage code is stored. This gives the ability to restore any given mileage value of choice to a vehicles digital dash instrument cluster.



Step.1 - Identify the instrument cluster make/model

The first step in the process, establish the make/model of the instrument cluster to be programmed. Check the Tachosoft listing of vehicle make and model to find the type of instrument cluster (digital dash) fitted to that vehicle.



Once you have correctly identified the digital dash part type, the Tachosoft listing will state the 'EPROM' memory where that instrument clusters mileage value (ODO) data is stored (Circled in below photo). This is the memory IC Microchip you need to remove in order to read/write program to adjust the stored mileage value.



Step.2 - Removing the Vehicles instrument cluster

Disconnect the vehicles battery before removing the vehicles instrument cluster. It is advisable to place some protective material clothes over surrounding dashboard plastics and finishes to prevent any scratches caused by tools used for removing the instrument cluster.



Step.3 - Secondary Active Memory Modules

Some models may incorporate 'active memory' and these parts will require programming before you can re-fit the main instrument cluster back into the vehicle. Failure to program secondary active memories may result in the original mileage value being restored automatically to the vehicles instrument cluster when refitted and powered on.



Step.4 - Disassembly of the instrument cluster

Care should be taken when disassembling the instrument cluster. Gauge needles can be delicate and must be removed carefully. (Not all digital dash types require removal of Guage/ Needles) LCD Panels and ribbon connections to them can easily become damaged when disassembling an instrument cluster, be sure not to damage these parts as they are in some cases impossible to repair and will require a replacement LCD or ribbon cable fitted should it become damaged.







Step.5 - Obtaining the EPROM memory data

Locating the EPROM memory, for instrument panels fitted with a "serial EPROM" (See Fig.01) As a rule, a serial' EPROM will be fitted to the circuit board in close proximity to the main processor, either on the same side of the circuit board or the reverse side. The main processor will usually be the larger microchips fitted flat to the circuit board with legs on all 4 sides and a crystal/oscillator will also be fitted in close proximity. The Tachosoft service will state what EPROM type you are looking for, with this information you can quickly and easily identify the serial EPROM to remove it for reading/writing in an EPROM programmer.



Fig.01

Once you have correctly identified the EPROM memory and read the data with an EPROM programmer, save the file as a .BIN format file



Step.6 - Saving the instrument cluster data correctly

Read and save as both 16bit and 08bit format where an option to do so is presented by your programmer – usually for 93Cxx soic8 serial EPROM)



Step.7 - Uploading to Tachosoft Mileage Calculator

Log into your www.TachosoftOnline.com account with your registered Username and Password. If you do not currently have a registration username and password, you can get registration and credit point Top Up from website: www.Tachosoft-UK. com



Once you have logged into your Tachosoft account, you can select the Mileage Calculator Tab to display available vehicles and models.

Logged as	You have points on you	ur account. Home	Send points	Send log	Files table	Help	
TachoSoft /	Airbag Resetter 🛛 🔽 Ta	choSoft Mileage Ca	lculator	>			
Brands	Models	24c16 (Dash)	- 2009-2010 ve	Types			
Lexus Lifan Lincoln Lotus Maybach Maybach Marcedes Mercedes Mercedes Mercury MINI Mitsubishi Missan Ogeinobile Ogeinobile Ogeinobile Peugeot Pyrmouth Peugeot Pyrmouth Polonez Pontiac Porsche Proton Remailt Reisel	Kangoo Kangoo Laguna Latitude Logan Logan Maxity Ma	9326 9426 9366 - 2008 95160 (ABS) 95160 (ABS) 95160 (Zeah)	v 2 - 2003-200 2009 year v1 - 2009-2012 2 - 2009-2012 - 2010-2012 ye	s years years years ars			
	If your airbag ecu model is no	ot supported, we can help	with it. Feel free	to contact u	s on email.		

Select the vehicle make and model that relates to your digital dash BIN file, you can then upload your file to the website. The TachosoftOnline.com website has file-check features, that will (where available) check file size, data construction and identify byte swapping. It is advised to read in both 08bit and 16bit format where you have the option but upload 16bit BIN files to the TachosoftOnline.com website.

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TachoSoft A	irbag Resetter	TachoSo	ft Mileage C	alculator						
Brands	Мо	dels			Types					
Landwind Lexus Lifan Lincoln Lotus Maple Maserati Maybach Mazda Mercedes Mercury MINI Misubiabi	Filience Kangoo Koleos Laguna Latitude Logan Master Maxity Megane Modus Scenic Trafic Yel Satis		93c56 Visteo 93c56 - 2008 95160 (ABS) 95160 (ABS) 95160 (Dash) - 2009-2010 n v2 - 2003-200 3-2009 year v1 - 2009-2012 v2 - 2009-2012) - 2010-2012 y	ears 16 years 1 years 1 years ears					
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Step.8 – Change KM/Miles Value

Once your upload to TachosoftOnline.com has completed, the website will check your file and display the current KM/Miles value present in the BIN file data. You then have the option to enter a 'new' KM/Miles value. The TachosoftOnline.com website automatically updates your file data with your new desired KM/Miles value and presents you with a download file.



Step.9 - Download and Reprogram the TachosoftOnline.com BIN File

Once you have entered your desired value into the Tachosoft website, you will be given a download link to get your new file! If for some reason your Internet browser freezes or the download link does not appear, you can easily access your file history of in/out files in the 'Files Table' option at the top of the Tachosoft page. (It is not advisable to click the 'Proceed' button more than once)

I achoSoft Unline Services (coverage: 4515 airbag types, 1400 dash types updated: 06.06.2013)							
Logged as You have points on your account. Home Send points Send log Files table Help Logout							
List of files you have worked with							
Created at	Dump	Brand name	Model name	Type name	In file	Out file	
17.04.13 13:51	A	Opel	Insignia	13578320 - 9s12XDP512	Original	Modified	
25.04.13 13:15	A	Ford	Focus	2M5T 14B056 DE Bosch 0 285 001 425 - 68HC912D60 Original Mod		Modified	
16.05.13 12:18	A	Audi	4F0 xxx xxx	4F0 xxx xxx 4F0 959 655 B Siemens 5WK43416 - 95160 Original Mod		Modified	
18.05.13 12:26	A	Peugeot	207	7 96 750 688 80 Bosch 0 285 010 828 - 95160		Modified	
30.05.13 12:40	A	Renault	Megane	605 49 05 00 Autoliv 8200 682 393 - 95160	Original	Modified	
03.06.13 11:52	A	vw	6Q0 хих хих	6Q0 909 605 AL VW71 - 95320	Original	Modified	
17.06.13 13:48	D	Renault	Megane	24c16 (Dash) - 2009-2010 years	Original	Modified	
			<<	< 1 2 3 > >>)7 results (page 3/3)		C.	

Step.10 - Refitting and testing

Before fully rebuilding an instrument cluster, partly assemble the instrument cluster for testing. Where gauge needles were removed, leaving these parts to be refitted last or loosely refitting for test.



Notes about MCU's Processors:

The procedure for reading and programming an EPROM contained within a processor differ to those for programming a serial EPROM. The type of Microchip that has its EPROM integral with the main processor and I/O controller is commonly known as an MCU (Micro Controller Unit) or termed 'micro-computer unit' because they function as a fully contained programmable computer unit with in-built memory and peripheral interface (Input/Output controller). In most cases when programming MCU devices, it is necessary to leave the MCU fitted on the application circuit board and simply connect the required wires from your programmer to read/write. These are usually the power Vpp, Vss and 2 or more functional lines such as RESET, IRQ, BACKGROUND etc. The reason for why it is not advisable to remove the MCU from the application board is because there are several components fitted to the circuit board that allows the mcu to correctly power up, these are (but not limited to) the oscillator crystal fitted external to the MCU in almost all cases, varied configuration of Vpp/Vss on other legs of the mcu, various high/low resistance states to configure basic modes of the MCU boot up and functionality. In short, removing the mcu and connecting only the wires required to read/write program it, will almost always fail to work at all, presenting problems at the power up stage of the MCU. Some programmers have special adaptors for MCU's to correctly power up and be programmed separately, but in most cases an MCU will be connected to and programmed on the application circuit board. To identify an MCU it is usually referenced to the microchips 'Mask ID' which follows the format of 1 number, 1 letter, 2 numbers, 1 letter. 'usually' I.E. 0J66D - For more information on mask ID's, please see section 'Identifying EPROMs and MCUs'



Identifying EPROMS

Mask	EEPROM / MCU	Mask	EEPROM / MCU
B22AN	93C06	B58239	2/C512
B34AB	24C02	B58243	CJ87BC6QG
B42AB	93C06	B58252	24C02
B43AB	24C02	B58253	24C02
B46AJ	24C02	B58256	24C01
B49AJ	24C02	B58258	24C02
B52AP	24C02	B58275	27C1024
B54AH	24C02	B58293	27C512
B81AB	93S66	B58323	93C46
B56022	27C128	B58331	28F010
B57324	2732A	B58334	28C64
B57325	27C32	B58335	AT28C64B
B57347	27C64	B58380	24C02
B57423	27C256	B58381	AM28F512
B57477	27C64	B58399	AM29F010
B57519	27C64	B58400	87C510
B57546	27C010	B58424	27C512
B57604	27C256	B58517	27C020
B57605	27256	B58530	-27 C 010
B57607	27C128	B58533	27C4096
B57610	27C128	B58539	27C256
B57618	87C257	B58541	27C512
B57618	87C64	B58542	27C512
B57625	2764A	B58543	27C512
B57654	27C256	B58544	27C1001
B57684	27C256	B58545	87C257
B57696	27C256	B58546	87C510
B57701	27C256	B58547	27C010
B57764	87C257	B58548	TMS27PC210
B57764	87C64	B58550	27C512
B57769	MC68HC05SR3	B58601	AM29F200B
B57771	27C256	B58608	93C66
B57808	27C256	B58639	87C510
B57922	87C257	B58647	87C257
B57960	27C256	B58718	27C512
B57995	TMS27C256	B58755	AM29F200
B58014	27C256	B58768	AM29F400AB
B58038	27C256	B58791	AM29F200AB
B58094	27C510	B58813	93C56
B58098	27C512	B58838	27C256
B58126	27C010	B58911	TMS27C010A
B58127	27C512	B9411	AM27C256
B58150	87C257		
B58157	27C512		
B58185	87C257		
B58196	93C46		
B58213	93C06		
B58214	270256		
B58234	270256		
B58225	870257		
00200	010201		

*A20T MC68HC705S3 *A38P MC68HC11A8 *A46E MC68705R3CS *A49N MC68HC11A8 *A75H MC68HC811A2 *B16B MC68HC805C4 *B19C MC68HC811E2 *B35F MC68HC11A0 *B36T MC68HC805B6 *B46E MC68HC11A8 *B60R MC68HC11E9 *B65H MC68HC11A8 *B76T MC68HC11A8 *B77M MC68HC11F1 *B83T MC68HC05B8 *B84N MC68HC11A1 *B84T MC68HC11A1 *B91T MC68HC05B6 *B95T MC68HC11A8 *B96D MC68HC11A8 *B96T MC68HC05C8 *C10C MC68HC05M4 *C11W MC68HC11A1 *C12R MC68882FN20A *C15J MC68HC11F1 *C13W MC68HC11L6 *C14H MC68HC05B6 *C16J MC68HC811E2 *C16W MC68HC705C8 *C17F MC68HC11D3 *C25T MC68HC05E1 *C27B MC68HC11E1 *C27T MC68HC05P8 *C28M MC68HC11G5FN1 *C28W MC68HC05P9 *C35N MC68HC05B16 *C40H MC68HC05J1 *C45A XC68HC711D3 *C46A MC68HC811A8 *C47M MC68HC711E9 *C61A MC68HC05P* *C75G SOIC28 *C83W MC68HC11E9 *C85W XC68HC711L6 *C90T MC68HC05P8 *C91F MC68HC11E1 *C92K MC68HC05C12A *C93W MC68HC711K4 *C94R MC68HC11F1 *C95K MC68HC05E0

*C96K MC68HC11E9 *C96N MC68HC11A1,A8 *C99K MC68HC05B4 *D10J MC68HC705B5 *D12A MC68B09EP *D15G MC68HC05F1 *D17E MC68HC05T3 *D18E MC68HC05P4 *D20J MC68HC05B16 *D25A MC68HC05P4 *D26E MC68HC11A1 *D28J MC68HC705B16 *D28N MC68HC05E6 *D28T MC68HC705F6B *D32N MC68HC05E1 *D33J MC68HC705B16 *D35E MC68HC11E9 *D37R MC68HC05C12A *D40J MC68HC705B32 *D40J MC68HC705X32 *D41V XC68HC705BE12 *D43F MC68HC11K4 *D43R MC68HC711E20 *D45R MC68HC11ED0 *D46J MC68HC11EA9 *D47J MC68HC11EA9 *D48A MC68HC05H2 *D48J MC68HC11PH8 *D51D MC68HC05P8 *D53J MC68HC05X32 *D54E MC68HC705P9 *D54J MC68HC05B8 *D56G MC68HC705P6A *D58J MC68HC11PA8 *D58N MC68HC11K1 *D59J MC68HC705B32 *D59J MC68HC705X32 *D60J MC68HC05B16 *D61N XC68HC711KA4 *D62C MC68030FE20B *D62J MC68HC05X16 *D64J MC68HC11P2 11PH8 *D67F MC68HC711K4 *D68C MC68HC705C5 *D69F PC68HC711N4 *D69J MC68HC05X32 *D73W MC68HC705G10 *D82R MC68HC11E9 *D84M MC68HC05H2 *D85F MC86HC711D3

*D85F MC86HC711D3 *D86B MC68HC705J2 *D99H MC68HC711P2 *E11P MC68HC16Z2 *E20T MC68HC705C4A *E20Y MC68HC705P6CP *E22B MC68HC11E20 *E25B MC68HC05P3 *E28B MC68HC11E9 old 4E28B MC68HCP11E1 *E30A MC68HC05K1 *E31A MC68HC05K0 *E31M MC68HC705K1 *E32B MC68HC05C8 *E32A MC68HC705P6 *E36F MC68HC05C8 *E38B MC68HC05J3 *E40A MC68HC705C5 *E41C PC68HC916Y1 *E50H MC68HC05B6 E50W MC68HC711E9 *E53M MC68HC711P2 *E54F MC68HC16Z1 *E57S MC68HC11KA4 *E59B MC68HC11KA4 *E61H MC68HC11F1 *E61R MC68HC705C8 *E61W MC68HC705F8 *E62H MC68HC11K4 *E62W MC68HC16Z1 *E69W MC68HC16Z1 *E74J MC68HC11P2 *F74H MC68HC11A1FN *E75J MC68HC11K4 *E75N MC68HC05C8A *E78C MC68HC05J1A *E79R MC68HC705C4A *E82K MC68HC11E20 *E87J MC68HC11F1 *E88N MC68HC711KA2 *E98K MC68HC705P6 *F10V MC68HC05B6 *F10W MC68HC705SR3 *F11N MC68HC11L6 *F12A MC68HC05J1A *F15H MC68HC05B4 *F17V MC68HC11F1B4 *F19C MC68EC030CFE25C *F21S MC68HC705MC4 *F23H MC68HC05P4A

*F28B MC68HC05E6 *F29K MC68HC11MA8 *F33P PC68HC16V1 *F36W MC68HC11E9 *F37E MC68HC11F1 *F41F MC68HC05L28 *F41J MC68HC05L28 *F44T MC68HC705J1A *F47V MC68HC705P3 *F49K MC68HC705C8A *F52E MC68HC11E32 *F52W MC68HC05P18 (28 pins) *F53E MC68HC11KG4 *F56K MC68HC705B16 *F60M MC68HC11KA4 *F62A MC68HC05C8 *F62J MC68HC05B16 *F63J MC68HC705C9A *F67V MC68HC16Z1 *F68K MC68HC912D60 *F71L MC68HC05C8 or 705C8 *F73K MC68HC912D60 *F73T MC68HC16Z1 *F74B MC68HC05X4 0F74K MC68376 *F75B MC68HC705P3 *F80B MC68HC705P6 *F82B MC68HC05E6 (SO28) *F82W MC68HC705V8 *F88B MC68HC705X4 *F92J MC68HCP11A1 *F96J MC68HC11E9 *F97.J MC68HC11F9 *F98Y MC68HC708AS48 *G10V MC68HC(7)11P2 *G11D MC68HC16Z2 *G23V MC68HC08AZ32 *G26C MC68HC16Z3/ *G28F MC68HC05B16 *G32V MC68HC11KG4 *G33P MC68HC705P6ACP *G35N MC68HC05B16 *G39Y MC68HC08AS20 *G40G MC68HC805K3 *G41V MC68HC705B32 *G44P MC68HC705BC16 *G47V MC68HC705X32 *G49V MC68HC08AZ32 *G53F MC68HC05J1A *G54K MC68HC05TB

3G56P MC68HC705BD7P *G58C MC68HC705JP7 *G58F MC68HC705J1A *G58T MC68HC705JJ7 or JP7 *G59F MC68HC711E20 *G62K MC68HC708AS48 *G63P MC68HC705J1A *G64R MC68HC805P18 *G72G MC68HC05E6 *G78M MC68HC705V12 *G96A MC68HC705B32 *G96Y MC68HC705V12 *H14A MC68HC708AS48 *H19S MC68HC711E20 *H24A MC68HC11A8 *H24M MC68HC05V12 *H27B MC68HC11KS2 *H30R MC68HC711PH8 *H32S MC68HC705JB4 *H42K MC68HC705C8A H42D MC68HC05V12 *H44H MC68HC805P18 *H48T MC68CM16Z1 *H50F MC68HC812AV4 *H50W MC68HC711E9 H51A MC68HC705E6 *H52A MC68HC05X32 *H52P MC68HC705V12 *H54K MC68HC11FL0PU1 *H54T MC68HC12BE32 *H55B MC68HC705BD9 *H55F MC68HC805K3 *H55W MC68HC912DG128. DA128 *H56A MC68HC08AZ32 *H57A MC68HC05H12 *H62A MC68HC908AS60 or AZ60 8H62A MC68HC708AZ60 *H62P MC68HC908AT32 *H70H MC68HC705SJ7 or JJ7 or JP7 or SP7 *H72J MC68HC705C8A *H73K MC68HC812AV4 *H74Y MC68HC08AZ60A *H75A MC68HC705P6 *H77A MC68HC705C9A *H86A MC68HC711KG2 *H86X MC68HC(7)11KG2 *H89E MC68HC11E20 *H91F MC68HC912B32 *H94K MC68HC08AS20 *H95B MC68HC(7)11K4

*H96J MC68HC05JJ6 *H96P MC68HC711KS8 *H98X MC68HC11KS8 *J15G MC68HC912BC32 *J20X MC68HC908GP32 *J26H MC68HC08AS20 *J26R MC68HC08AS20 *J27F MC68HC08AS32 *J34P MC68HC12BE32 *J35D MC68HC08AZ60 *J37F MC68HC908MR24 *J38M MC68HC12BE32 *J41C MC68HC05SU3A *J43E MC68HC705V12 *J43H MC68HC705V12 *J53W MC68HRC705JP7 *J54E MC68HC912B32 *J54W MC68HRC705JP7 *J61D MC68HC908AS60 *J64Y MC68HC912B32 *J66D MC68HC08AZ32 *J66H MC68HC705J1A *J73R MC68HC705C8A *J74J MC68HC908AZ60 *J74Y MC68HC908AS60 *J79Y MC68HC908BD48 *J88Y MC68HC908JK3 *K00J MC68HC908RK2 *K00W MC68HC11K4 *K02S MC68HC05P4A *K03B MC68HC705C9A *K05W MC68HC711D3 *K07B MC68HC705P6 *K07E MC68HC11KS2 *K08B MC68HC705C8A *K08S MC68HC908GP32 *K08W MC68HC711KS2 *K11N MC68HC908LD64 *K13J MC68HC12D60 *K17X MC68HC908GP32CFB *K20C MC68HC705B32 *K20R MC68HC05PV8A *K25E MC68HC912BC32 *K29E MC68HC912BD32 *K31D MC68HC912DG128A *K36N MC9S12DP256 *K38K M68HC912D60 *K39K MC68HC908SR12 *K45D MC68HC908KX8, KX2 *K45H MC68HC908JB8

*K50E MC68HC912DG128 *K54X MC68HC711K4 *K56G MC68HC908AB32 *K59D MC68HC08JB8 or MC68HC711K4 *K59H PC527283MFU *K71F MC68HC908AS60 (PLCC52) *K75F MC68HC912D60 *K76A MC68HC12DA128 *K78X MC9S12H256 *K79X MC9S12DP256/A256 *K81H MC68HC711E9 *K82H MC68HC11E20 *K85K MC68HC908AZ60A/AS60A *K85V MC68HC908AZ60A *K91D MC68HC912DG128 *K92R MC68HC908GP32CFB *L00M MC9S12DP512 *L01Y MSE9S12DT256 *L02H M68HC912D60 *L02M MC68HC08AZ48A *L05H M68HC912DT128 *L06H MC68HC908SR12 *L07H MC68HC908AB32 0L08M MSE9S12E128 *L09H MC68HC908KX8/KX2 *L09S MSE9S12C128 *L11Y MSE9S08GB60A *L15P MSE9S12E128 *L15Y MC9S12XDP512V2 *L16X MSE9S08AW60 *L16Y MSE9S12HZ256 *L19E MC68HC908JL3 *I 19S MSE9S12NE64 *L24K MSE9S12T64 *L24N MSE9S12UF32 *L26M MC68HC912D60 1L27M 68HC912DG128 *L28M MC68HC12D60 *I 31K MC68HC08JI 3F *L31R MSE9S08GB60 *L31V MC68HC908AS60A/AZ60A *L32X MC68HC08AZ32A 0L33R MSE9S08RG60 *L35K MC68HC08 *L35X MC68HC08JL3E *L36W MC68HC908JL3E *L39J MC68HC908JL8 *L40K MC9S12DG128/DT128 0L40V MSE9S12XDP512 *L40X MC68HC08AZ60A

0L42M MSE9S12T64 1L43M MC68HC912B32 0L43P MSE9S12D64/DG64 0L43X MSE9S12E256 *L45J MC9S12C32 *I 47P MC908AP32 0L47P MSE908AP64 2L47P MSE908AP64 3L47P MSE908AP64 4L47P MSE908AP64A *L51J M68HC912D60 *L51W MC68HC908SB12 *L52H MC68HC08AZ32A *L53J MC68HC908GR8 *L54J MC68HC908MR32 or 16 *L59X MC68HC908AB32 1L59W MC9S12DT128 *L61N MC68HC08JL8 *L69J MC68HC908QT1-4 or QY1-4 *L69Y MC68HC08JL8 2L71Y MSE9S08RE16 0L72A MC68HC08AB16A 5L74N MSE9S12KG128 *L77N MC68HC908JL3E/JK3E/JK1E 0L78P MSE9S08RE16 0L80R MSE9S12B128 0L85D MSE9S12DT128 *L86C MSE9S12T64 *L86D MSE9S12D64/DG64/DJ64/A64/D32/A32 3L87X MSE9S08QB8 *L85D MC9S12A128 or DTB128 *L86D MC9S12D64 *L87J MC68HC908AZ60A or AS60A 2L87X MSE908QB8 *L91N MC9S12DP256B/DT256 0L94R MSE9S12DT128 *L96S MC68HC908GP32CFB 0M11F MSE9S08RG60 0M15D MSE9S08QD4 0M20A MSE9S08RG60 1M21A MSE9S08RE16 0M25D MSE908AP64 1M25D MSE908AP64A 2M25D MSE908AP64 1M34C MSE9S12C32 0M42E MSE9S12XDG128 0M45H MSE90S08RE16 *M62B MSE908QB8 0M65G MSE9S12B128 0M66G MSE9S12C128

0M89C MSE9S12DG64 2M70C MSE9S08GT16A 0M75B MSE9S08AW60 1M75B MSE9S08AW60 3M75B MSE908EY16A 5M75B MSE908EY16A 5M75B MSE9S08AW60 0M77B MSE9S08QG8 1M77B MSE908QG8 3M77B MSE9S08QG8 0M89C MSE9S12D64

Special Notes:

Active Memory = An Auto-Updating copy of the vehicles mileage stored remotely (Usually in the Body Control Module, BSI, UCH, BCM)

BINARY = Also known as 'BIN' is the File Format we use. (It is also industry standard, your programmer 'WILL' support saving read data as .BIN)

DUMP = Data content retrieved (read) from an I.C. EPROM Memory

EEPROM = Electrically Erasable Programmable Read Only Memory

HEX = Viewer data seen in the programmer data editor

MCU = Microcontroller or Micro Computer Unit (an I.C. integrating a Computer Processor, Memory and a Peripheral Input/output device in a single I.C. package)

ODO = Vehicle Odometer recorder (Mileage recorder/display)

SHADOW MEMORY = Where a NON-Auto-Updating Copy of the Mileage is stored in a different module of the vehicle (Usually Body Control Module)

PACKAGE = The encapsulation of the microchip into its production packaging/ casing

DIL-8 = Dual In-Line I.C. with 8 legs, each each side. (Serial EEPROM)

SOIC8 = Small Outline I.C. with 8 legs, 4 each side. (SERIAL EEPROM)

QFP64 = Quad Flat Package with 64 legs, 16 legs per side. (MCU)



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by Mark Deeley Author and Managing Director Tachosoft UK Limited

