

Latest MBE ECU & 9MD Software Update Release Notes (also includes Easimap 6 PC updates)

Release No	Update Change	Date
9A-Release-f912	<ol style="list-style-type: none"> 1. Correction in order of operation to pulse setup for VANOS style CAM 1 output on 9A9. 2. Update to TP-VX-2.0-K4 EGas calibration. 3. Added I3 60-2 Engine Codes 4. Added Boost target compensation for EGT. 5. EGas target not met timers not reset at Start-up if sweep test is not performed. 6. Added Boost target compensation for Turbo Speed. 7. EGT limits for Anti-Lag. 8. Anti-Lag can adjust EGas by selectable amount. 9. Added Variables for Easimap to show Boost sector selection process 10. Added Anti-Lag Boost Target and Open Loop Maps 11. Added Anti-Lag Pedal Conditions 12. Added Anti-Lag Time Condition 13. Option To Enable Anti-Lag with Launch 14. User Enable/Disable for Anti-Lag Boost Maps, to maintain backwards compatibility. 15. Up and Downshift pins have voltage threshold. 16. Option for User Program of all HP fuel pump settings 17. Added New Wheel speed input CAN message (CANID 4B0) 18. Added Vehicle CAN message module with Mazda information. 19. Feature added that now prevents idle control exit until pedal results in higher EGas target. 20. Added option for EGas to only learn max end stop. 21. Improvement to Fuel Pump start (same as all 60-2 trigger wheels). 22. Improved Tooth calculation for first crank tooth on 24-1 and 24-2 23. Fuel Timing as Constant Stop option. 24. 24-1 90deg V8 engine codes. 25. Faster Sync When using Magic tooth - as we can trust the input. 26. Improvements to fuel pump timer - key on map option introduced. 	22Jun23
9A-Release-f540	<ol style="list-style-type: none"> 1. Added Trigger Wheel 30-2 I4 with Upper Injectors 2. Added Trigger Wheel 12+1 I4 with Upper Injectors 3. 'Engine Speed' Realtime panel now shows Red background if Crank Sensor/Trigger Wheel Error/Wiring /Engine Speed are Not Valid 	02Nov20
9A-Release-f531	<ol style="list-style-type: none"> 1. Added Pedal Sensor - 3M51-9M836-AH - with PWM input Pin A036 (MAP 2), 9A9 BOM Spec 1.1094 ONLY, 2. Added EGas Throttle - 4M5G-EC LF15 3. Added EGas Throttle - SBD TP-DURA-2.0L-K3, TP-VX-2.0-K4 – AT Power Motor 	09Oct20
9A-Release-f521	<ol style="list-style-type: none"> 1. VSC (Visual Safety Car) CODE 60 Limiter added, Basic Limiter + Road Speed & EGas limits options. 2. Opel ABS CAN inputs Added 	18Sep20
9A-Release-f493	<ol style="list-style-type: none"> 1. Bug fix for the Engine Torque Calculation. It now limits when you are at the injector duty cycle in the Chipfile. 2. Bug fix for TPS2 Fault, would not Disabled in Faults when EGas was Disabled 	07Aug20
Easimap R76	<ol style="list-style-type: none"> 1. To help cope with ever changing Windows 10 2. Improved profile control for advanced users. 	05Jun20
9A-Release-f491	<ol style="list-style-type: none"> 1. Added 36-1 90deg V6. 2. If all Dash Data is ZEROS then flagged as fault and treated as 5V. 	05Jun20

	<ul style="list-style-type: none"> 3. Added BMW Pedal 4. Added Speed based Limit to boost map selection. Or use speed to select boost map. 	
9MDa0061	9MD Updates	23May20
9A-Release-f450	EGas Driver Diagnostics now protected from interrupts.	28Nov19
9A-Release-f431	<ul style="list-style-type: none"> 1. Disable Option for Road Speed EGas limit maps added. 2. Incoming CAN option for Selection from CAN1 or CAN2 Bus (9A9 and 9A6) 3. Inverted CAN Input channels option added. 4. 9A4/8 PWM Water Pump, pin Vectoring Bug occurred in Version f351 2019-06-05 5. Reverse light Output option. 	20Sep19
9A-Release-f386	<ul style="list-style-type: none"> 1. Calculated Wheelspeed forced to zero if clutch fully pressed and Front Wheelspeeds at zero, to allow Launch to Enabled when Driven Wheels set to Calculated. 2. Improvement to arm timer for Launch activation 3. Added Optional Afterstart EGas Target Map. 4. Bug Fix, EGas Launch limits now correctly applied for 2 Stage Launch. 5. Bug Fix, Powershift Enable Flags not properly set with strain shift trigger input. 6. Improved OBD2 Comms. 	25Jul19
9A-Release-f361	<ul style="list-style-type: none"> 1. Individual Cylinder ignition offsets 2. Bug fix to PWM Water Pump Test Output Function in 9A4/8. 	17Jun19
9A-Release-f341	<ul style="list-style-type: none"> 1. Improved Gear shift strategy for Paddle shift control on MBE9A9 & 9A6 ECU 2. Improved Neutral finding on Gearboxes with half gear type Neutral position. 3. 5VA faults generated if outside limits. 4. 5VA faults disable starter grant. 5. Increase Max Wait time for chip file download before fault timeout for earlier 9A4/9A8/9A9 processors 6. Added Option for Afterstart Target Idle Speed. 7. New 24-2 V2 twin coil output engine codes. 8. New Added LS2 Throttle Calibration 9. Bug Fix to Blat fuel setup Crank speed reading. 	05Jun19
9MDa0060-Release	Updated software so 9MD display can reboot processor if a momentary or intermittent loss in power supply happens (e.g. faulty wiring or ignition switch on vehicle).	02Apr19
Easimap R71	<ul style="list-style-type: none"> 1. New sample maps have been added for the 9A4, 9A8 & 9A9 ECUs, which can be used as a base map. These maps are designed for 9A-Release-f251 software onwards. 2. Additional Real Time Pages have been added that can be opened and accessed by all users. 3. All .ec2 files for software releases that have been released by SBD are also added into R71. 4. Bug fix for Windows 10 that overcomes graph display issues, when large amounts of data have been logged within Easimap 6. 	18Sep18
9A-Release-f251	<ul style="list-style-type: none"> 1. EGAS Rest Point Options added either Limp home or Minimum Position. 2. New 18-1 Trigger wheel option added for 90 Degree V8 3. New 60-2 V6 with Upper & lower injectors 4. Over Run fuel Cut off Option added. 5. Clio 4 EGAS throttle added. 6. BMW Vanos Cam Parking on Key on improved. 7. Park Wastegate Feature for EGAS driven Wastegate. 8. Added Adaptive knock map limit. 9. Added Adaptive Knock Afterstart and gearshift delays. 	12Sep18

9A-Release-f170	<ol style="list-style-type: none"> 1. Added 36-2 Trigger wheel. 2. Option to disable Preset EGas Dither values and use programmable ones 3. Option to measure wheelspeed over a programmable number of teeth (for trigger wheels with lots of teeth). 	19Jun18
9A-Release-f150	<ol style="list-style-type: none"> 1. 9A6 & 9A9 Adaptive Knock strategy Added 2. Ignition State option now added to 9A4 & 9A8 Programable Pins. 3. Filter for Launch Traction voltage relaxed from 0.02V range to 0.04V range - Time still at 25ms. 4. 9A6 DI ECU added user programable Open Loop HP Fuel Pump Map. 5. 9A6 DI ECU HP Fuel Pressure Compensation map changed to 32 site map 	03May18
9A-Release-f120	<ol style="list-style-type: none"> 1. Added Egas throttles SBD TP52-Judd-EV - Jenvey Motor. 2. Added Egas Mk2 SBD throttles with Jenvey motor - dither effectiveness also changed. 3. Adaptive Knock Control. 9A9 & 9A6 4. Fuel Cut Options for Powershift. 5. Turbo Depression strategy to reduce boost if Turbo depression becomes great 6. Civic Type R motor driven wastegate Control. 	10Apr18
9A-Release-be961	<ol style="list-style-type: none"> 1. Hella 6PV 008 567-00 or Hella 6PV 008 567-06" pedal calibration added 2. Improved Fault Detection for 9A# ECUs 3. Refinement of 3 Selectable Boost Control maps 4. Improved PID Boost Control. 5. Added 24-2 76 deg V8 TPS and MAP engine codes. 6. Added 36-1 175 deg ITC V6 TPS and MAP engine codes. 7. 2.3L EcoBoost Fuel Pump setup. 8. Injector setup table and added 2.3l EcoBoost Injector setup option. 9. Improved Traction Control Option with Torque Compensation to Driven Wheelspeeds (Tyre deformation) Added 	5Jan18
9MDa0052	MBE9MD Re-request CAN data from ECU after break in connection	11Sep17
9A-Release-be923	<ol style="list-style-type: none"> 1. Improved 9A6 GDI Diagnostics 2. CAN1 Bus auto reinitialising after break in connection. 3. Pit Lane Speed limiter Bug fix. 	11Sep17
9A-Release-be912	<ol style="list-style-type: none"> 1. Programmable hard to soft cut difference for speed controlled pit lane limiter. 2. Added FoMoCo Throttle Body EcoBoost 2.3L EGas Calibration. 3. Added New Hella Pedal sensor calibration. 4. Enable/Disable Option for Turbo Intake Boost/Baro Compensation. Turbo Intake boost Compensation no longer disabled with sensor faults - to allow use of defaults to go safe. 	9May17
9A-Release-be900	<ol style="list-style-type: none"> 1. G Sensor load Limits and Default added. 2. Oil Temp Voltage Limits and Default added. 3. Turbo Intake Pressure added with target boost compensation. 4. Direct injection High Pressure Fuel Pump On point now from 2D map vs Crankspeed. 	4May17
Easimap R67	<ol style="list-style-type: none"> 1. Updates that help you cope with the ever-changing Windows operating system. 2. New features, it allows us and MBE to send out packaged files which will include software and a map, which can be installed by the user in one operation. 3. Ready for the new 9MD display and allows the user quick change between the ECU and display, simply by clicking on the device ID and then switching from CAN 1 between CAN 3. 	10Apr17
9MDa0041	New MBE9MD Display software	10Apr17
9A-Release-be893	TEVES VW/Audi CAN ABS input changed to TEVES MK60E5 Motorsport.	4Apr17
9A-Release-be890	Improved injector/wiring fault diagnostics	21Mar17
9A-Release-be871	1. Soft Rev limiter transmitted over MBE CAN for Auto shift light setting on	15Feb17

	<p>MBE9MD Display.</p> <p>2. Precision Boost Control gains added.</p> <p>3. Port Injectors option added to MBE9A6 DI ECU.</p> <p>4. Option for Starter system to work irrespective of the gearbox state.</p>	
9A-Release-be862	Revised Oil temp setup for MBE9A6 DI ECU	12Oct16
9A-Release-be840	Has up to 8 selectable Max EGAS maps against engine speed	16Sept16
9A-Release-be820	Improved strategies for nitrous oxide control with revised options for increased fuel quantity delivery with lower and upper injector options (ECU model dependent).	2Aug16
9A-Release-be800	Improved control functions for the MBE9A9 internal Logger. New options and conditions for Enabling, Starting and Stopping the Logger.	25Jul16
9A-Release-be790	Low Oil and Fuel pressure warnings timer added, allows user the option to delay warnings being triggered after engine start.	04Jul16
9A-Release-be783	New EGAS/Electronic Throttle Controlled Sweep test option	28Jun16
9A-Release-be760	MBE9A9, VNT, Turbo Variable Geometry Control added.	03May16
9A-Release-be750	Coolant temp based EGAS Cranking map Added. Cranking EGAS target now decays after engine start. Maximum EGAS Position with Pit Lane Speed Limiter Active.	19Apr16
9A-Release-be740	EGAS calibration added for Hayabusa Gen 1 Throttle bodies with Jenvey Motor unit, for Daytuner	14Apr16
9A-Release-be730	<ol style="list-style-type: none"> 1. TEVES Production Car ABS Source Add 2. User Setup option for ABS source 3. Traction Warning Lamp Output 	09Apr16
9A-Release-be710	<ol style="list-style-type: none"> 1. New EGAS vs. Road Speed Maps for Advanced Traction Control. 2. Software Upgrade to allow Downshifts when Pit Lane Speed limiter is active on Paddle shift setup 	09Mar16
9A-Release-be700	32-1 trigger wheels added	15Feb16
9A-Release-be691	Wheel speed calculation improvement	01Feb16

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