

CarDAQ-Pro

Capabilities For

Remote Programming & OE Scan

Disclaimer: When using RAP2 & OE Scan, completely disconnect any aftermarket accessories including radios, alarms, sound systems, starters, etc. from the vehicle communication bus; failure to do so may cause programming failures and void our service guarantee. Please note that this program does not support programming used or salvage modules for most makes. Be sure to plug in RAP2 kit and turn tablet on 30 minutes prior to RAP2 session to ensure any available software updates are completed.



BMW

- 2002 and newer, all Emission module (ECM/TCM/PCM) updating & replacement
- 2002 and newer, all Body and Chassis module updating & replacement (See Below)
- J2534 module programming, updating, coding: \$125.00 USD each
- Module calibration check: \$40.00 USD each
- DoIP Module may require the following cable:

Opus P/N: RAP2-EURO/DoIP0 Kit



Opus P/N: BMW-CBL-Kit

BMW RAP Special Cable needs by Chassis

BMW Series 7-8 Jumper Adapter required

 3er
 E36, E46

 5er
 E34, E39

 7er
 E32, E38

 X
 E83-X3, E53-X5

 Mini
 R50, R52 & R53

E36-Z3, E85-Z4, E86-Z4 & E52-Z8

** DoIP Cable required for F25 Chassis (only)

Chassis	
F39	F39 No module programming or coding
G05, G07, G14, G15, G20	No module programming or coding.
	All Infotainment ECUs (SAT NAV / RADIO / AMPLIFIER / CD / DVD) Coding Only (Replacement
	Needs Coding). Module updating not possible. Replacement possible with stipulations.
	*** NOTE: After a hard drive-based head unit (CIC, NBT, etc.) replacement, an enabling
	code for the navigation system is needed along with the navigation software and we cannot
	provide it. DVD-Based Head units(CCC) need a voice-enabling code imported after replacement
All	of the head unit, we cannot provide it.
All	All Bluetooth/Telephone ECUs. Coding Only (Replacement Needs Coding. No module updating.)
All	CAS (Car Access System) Coding Only (Replacement Needs Coding. No module updating).
All	JBE (Junction Box Electronics) Coding Only (Replacement Needs Coding. No module updating).
All	FRM (Footwell Module) Coding Only (Replacement Needs Coding). (No module updating).
All	All Engine ECUs (MEV1722/MEVD1726). Updating only. No replacements
	MS45.1 Replacements only. No updating (Replacement needs programming).
E46, E83	*** NOTE: EGS and DSC should be disconnected before programming is performed.
	Sequential Manual Gearbox Module. No module updating. No Module Coding.
E6x Non Motorsport Cars	No replacements.
	MSV80 DME (Digital Motor Electronics) No updating. No replacements
E83, E85, E86, E9x	(Replacement needs programming).
All	Instrument Cluster Coding only Only (Replacement Needs Coding). No updating.
	FEM (Front Electronic Module) No existing module updates. Updating of replacement module as
All	long as existing module is able to communicate.
All	BDC (Body Domain Controller) Existing module updating only. No module replacements.
All	Instrument Cluster. Coding Only. No module updating or replacement.
All	Hybrid or Electric No Support
Some vehicles will need to be	be scanned using the OEM software to determine whether an update is available or not.
This process may take 15	5 – 20 minutes prior to the programming service.
 Some vehicles may take up 	to four (4) hours to complete programming.

Module/System Examples:

Digital Motor Electronics Junction Box Electronics Footwell Module Body Domain Controller Instrument Cluster Module Seguential Manual Gearbox Car Access System
Front Electronic Module

2



Chrysler/Jeep/Dodge/RAM/Plymouth

- •Hard-wired internet connection is REQUIRED.
 - If you need an Ethernet cable and a USB to Ethernet adapter, have your ProAssist Serial Number available and contact Opus IVS at (734) 222-5228.
- For all immobilizer security functions, the 4-digit security PIN is needed. Contact your local dealer for this code.
- All Models:
 - 1996 2003: ECM/PCM/TCM updating only. No module replacements.
 - 2008 and newer: All module updates and replacements.
- Pacifica/Viper
 - 1996 2006: ECM/PCM/TCM updating only. No module replacements.
 - 2007 and newer: All module updates and replacements.
- Caravan/Voyager/Town & Country/Liberty/PT Cruiser
 - 1996 2007: ECM/PCM/TCM updating only. No module replacements.
 - 2008 and newer: All module updates and replacements.
- 2500/3500/4500/5500
 - 1996 2009: ECM/PCM/TCM updating only. No module replacements.
 - NO support for 5.9L Cummins equipped vehicles.
- Sprinter Van: See Mercedes.
- Crossfire: See Mercedes.

Module/System Examples:

Powertrain Control Module	Occupant Restraint Control Module	Wireless Control Module
---------------------------	-----------------------------------	-------------------------

Transmission Control Module Wireless Ignition Node Radio Frequency Hub

- J2534 module programming, key programming and associated configuration, setup and security functions: \$125.00 USD per module. Plus \$30.00 USD FCA OE subscription fee.
- Module calibration check: \$40.00 USD. Plus \$10.00 USD FCA OE subscription fee.
- Note a \$45.00 USD per VIN fee will be charged for any security related modules that require a NASTIF SDRM registration. Customers that have their own NASTIF SDRM will not be required to pay the \$45.00 USD fee. Fiat based vehicles use a rolling code. The customers would need to go through the NASTF AIR process and we can generate the rolling code for an additional \$30.00 USD. We can also generate the static codes using the same process, should the customer wish to not get a code from the dealer.



Ford Motor Company

- 1996 and newer emission module updating & replacement for vehicles 1996 and newer
- Emissions module configuration as supported by Ford FMP on vehicles 1996 and newer
- Key programming up to model year 2013 vehicles
 - 2013 and newer: PATS and related PATS modules starting in MY 2013 require coded security access instead
 of the ten (10) minute timed security access. Membership to the NASTF SDRM is required.
- Vehicles 2003 and older: The old module must be installed and communicating at start of appointment
- Diesel FICM module replacement and programming
- No support for Low Cab Forward (LCF) vehicles.
- No modules updating or replacement on K-Line (Pin 7 on DLC), medium speed CAN bus (Pins 3 & 11 on DLC), or UBP bus (Pin 3 on DLC).

Module/System Examples:

Powertrain Control Module	Fuel Injection Control Module	Instrument Cluster

Transmission Control Module Restraint Control Module Passive Anti Theft System

- J2534 module programming, key programming and associated configuration, setup and security functions: \$125.00 USD per module Note for programming <u>used</u> modules: The \$125.00 USD module programming fee will apply.
- Module calibration check: \$40.00 USD each
- Security items & keys: NASTF credentials are required for vehicle 2013 and newer. There are 2 version of credentials:
- NASTF LSID/VSP credentials: If you already have your LSID/VSP we only need your ID number.
 - NASTF Air Program: There are temporary credentials with the NASTF Air program. The fee is \$45.
 - 2 keys may be required for security related module programming



General Motors

- 2001 and newer (some exceptions) updating & replacement
- 2001 and newer updating & security functions that are supported by the GM Service Programming System
- Global A & B platform vehicles do not support used or salvage modules

Module/System Examples:

Powertrain Control Module Body Control Module Human Machine Interface Module

Transmission Control Module Trailer Brake Control Module Theft Deterrent Module

- Module configuration, setup, and security functions for all modules supported by GM Tech2Win
- Module configuration, setup, and security functions for all modules supported by GM GDS2
- J2534 module programming, key programming and associated configuration, setup and security functions: \$125.00 USD each. Note for programming <u>used</u> modules: The \$125.00 USD module programming fee will apply, whether or not the programming attempt is successful.
- Module calibration check: \$40.00 USD each



Honda/Acura

- 2007 and newer existing module updating only
- An **x** in the table below denotes the module is reprogrammable if an update is available:

Honda	2001	2002	2003	2004	2005	2006	2007 and Newer
Accord			×	×	×	×	
Accord Hybrid					*	*	
Civic	*	*	×	×	*	*	
Civic Hybrid			×	×	*	*	
CR-V		×	×	×	*	*	
Element			×	×	*	*	- All Modules
Fit							All Modules
Insight	*	*	×	×	*	*	
Odyssey					*	*	
Pilot					*	*	
Ridgeline							
S2000						*	

Acura	2001	2002	2003	2004	2005	2006	2007 and Newer
MDX			*	*	×	*	
RDX							A
RL					×	*	
RSX		×	×	×	×	*	- All Modules
TL				*	×	*	
TSX				*	×	*	

Module/System Examples:

Programable Module Fuel Injection (PGM-FI) Automatic Transmission

Supplemental Restraint System Anti-Lock Brake System

- J2534 module updating: \$125.00 USD each Plus \$45.00* OE subscription fee per VIN
- Module calibration check: \$40.00 USD each Plus \$45.00* OE subscription fee per VIN

*Subscription valid for 30 days per VIN. Fee only charged once during this 30-day period.



Hyundai

• 2005 and Newer: ECM/TCM Updates Only

• J2534 module updating: \$125.00 USD each

• Module calibration check: \$40.00 USD each

Hyundai Models Supported by RAP

Model	Year
Accent	2005 – 2018
Azera	2006 – 2019
Elantra	2005 – 2018
Entourage	2007 – 2009
Equus	2011 – 2016
Sante Fe	2005 – 2018
Sonata	2005 – 2018
Tiburon	2005 – 2008
Tuscon	2006 – 2018
Veloster	2012 – 2017
Verecruz	2007 – 2012
XG350	2005

Module/System Examples:

Powertrain Control Module

Transmission Control Module



Kia

• 2005 and Newer: ECM/TCM Updates Only

J2534 module updating: \$125.00 USD each
Module calibration check: \$40.00 USD each

Kia Models Supported by RAP

Model	Year		
Amanti	2007 – 2009		
Borrego	2009		
Cadenza	2014 – 2018		
Forte	2010 – 2018		
Forte5	2014 – 2018		
K900	2015 – 2017		
Niro	2017 – 2018		
Optima	2007 – 2018		
Rio	2006 – 2018		
Rondo	2007 – 2010		
Sedona	2005 – 2012		
	2014 – 2018		
Sorento	2007 – 2018		
Soul	2010 – 2018		
Spectra	2005 – 2009		
Sportage	2007 – 2018		
Stinger	2018		

Module/System Examples:

Powertrain Control Module

Transmission Control Module



Mercedes-Benz

- 2004 and newer engine and transmission & TCM updating and replacement programming*
 - *Old TCM must be available and communicating
- Excludes the CVT transmissions and the early 112/113 engines with engine control units ME2.8.
- Used and re-manufactured modules not permitted
- J2534 module programming & updating: \$125.00 USD each
- Module calibration check: \$40.00 USD each

Module/System Examples:

Motor Electronics Intelligent Shift Module

Conductor Plate

For Mercedes–Benz 722.9 programming:

- If the entire Valve body was replaced, the programming fee is \$125.00 USD
- If only the conductor plate was replaced—and if the original existing conductor plate is not available or does not communicate—a charge of \$100.00 USD will be billed for additional programming services.

*** Mercedes programming capability has been changing, please call to see if service is available for your chassis & module ***



Nissan/Infiniti

- Updated TCM Support!
 - CVT Transmissions 1, 2, 2(Turbo), 7 & 8 (** New **) are now can be updated and replaced.
- 2004 and newer powertrain (ECM/TCM) module updating
- 2005 and newer powertrain (ECM/TCM) module replacement
- 2005 and newer rear-wheel drive (RWD) valve body programming
- 2017 and Earlier: Please call to see if we can program non-power-train modules, capabilities are growing. (** New **)
- 2018 Current: All module programming (** New **)
- J2534 module updating, programming & RWD valve body: \$125.00 USD each
- Module calibration check: \$40.00 USD each



Toyota/Lexus/Scion

2001 and newer

- New module programming. Used and re-manufactured modules not permitted at this time
- Existing module updates

Module/System Examples:

Engine Control Module Electronic Transmission Module

Traction Control Module Main Body Control Module

- J2534 module updating, programming & RWD valve body: \$125.00 USD each
- Module calibration check: \$40.00 USD each



2004 and newer vehicle module programming

Capabilities by Year - Model - Module:

Powertrain Control Module Body Control Module Human Machine Interface Module

Transmission Control Module Trailer Brake Control Module Theft Deterrent Module

- J2534 module programming, key programming and associated configuration, setup and security functions: \$125.00 USD each. Programming vehicle modules is \$125.00 USD module programming fee will apply, whether or not the programming attempt is successful.
- Calibration files charged extra: Most Module & Key programing s/w is under \$100.
- The following Notes may require the use of the following adapters:

Note 1: Volvo P/N: 95133060



Note:2: Opus P/N: RAP2-EURO/DoIP0Kit



Year	Make	Model	Requirements	Actual Name	Module
2004			None	Audio Module	AUD
	Volvo	C70	None	Accessory USB Unit	AUU
	Volvo	S40	None	Brake Control Module	BCM
	Volvo	V40	None	Bluetooth Phone Module	BPM
2005			None	Climate Control Module	CCM
	Volvo	C70	None	Driver's Door Module	DDM
	Volvo	S40	None	Differential Control Module	DEM
	Volvo	S60	None	Driver's information Module (cluster)	DIM
	Volvo	S60 R	None	Engine Control Module	ECM
	Volvo	S80	None	Electrical Throttle Module	ETM
	Volvo	V50	None	High Level Display Front	HLDF
	Volvo	V70	None	Integrated Audio Module	IAM
	Volvo	V70 R	None	Infotainment Cntrol module	ICM/IHU
	Volvo	XC70	None	Multimedia Module	MMM
	Volvo	XC90	None	Park Assistance Module	PAM
2006			Note 4	Park Brake Moudule	PBM
	Volvo	C30	None	Passenger Door Module	PDM
	Volvo	C70	None	Power operated Tailgate Module	POT
	Volvo	S40	None	Power Steering Control Module	PSCM
	Volvo	S60	None	Power seat Module	PSM
	Volvo	S60 R	None	Remote Digital Audio Receiver	RDAR
	Volvo	S80	None	Steering Angle Sensor Module	SAS
	Volvo	V50	None	Steering Coulm Lock	SCL
	Volvo	V70	None	Steering Wheel Module	SWM
	Volvo	V70 R	None	Starter Control Module	SCU
	Volvo	XC70	None	Supplemental Restraint System Module	SRS
·	Volvo	XC90	None	Subwoofer Module	SUB

Note 1	If the module is an ICM/IHU then the part number #9513060 is needed.
Note 2	SPA Platform Requires DOIP Cable/RAP/DriveCrash/CD4 Euro Cable for DrivePro. No Part USB drive needed
Note 3	Non-SPA but is DOIP Requires DOIP Cable. No Part USB drive needed
Note 4	Non-DOIP, Does Not require USB flash Do not need DOIP.



2004 and newer vehicle module programming

Year	Make	Model	Requirements	Actual Name	Module
2007			Note 4	Transmission Control Module	TCM
	Volvo	C30	None	Closing Velocity Module	CVM
	Volvo	C70	None	Headlamp Control Module	НСМ
	Volvo	S40	None	Trailer Module	TRM
	Volvo	S60	None	Park Assistance Camera	PAC
	Volvo	S60 R	None	Keyless Vehicle Module	KVM
	Volvo	S80	None	Upper Electronic module	UEM
	Volvo	V50	None	Forward Sensing Module	FSM
	Volvo	V70	None	Rear Electrnic Module	REM
	Volvo	V70 R	None	Suspension Module	SUM
	Volvo	XC70	None		
	Volvo	XC90	None		
2008	000				
	Volvo	C30	Note 1		
	Volvo	C70	Note 1		
	Volvo	S40	Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	V50	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 1		
2009					
	Volvo	C30	Note 1		
	Volvo	C70	Note 1		
	Volvo	S40	Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	V50	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 1		
2010					
	Volvo	C30	Note 1		
	Volvo	C70	Note 1		
	Volvo	S40	Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	V50	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 1		

Note 1	If the module is an ICM/IHU then the part number #9513060 is needed.
Note 2	SPA Platform Requires DOIP Cable/RAP/DriveCrash/CD4 Euro Cable for DrivePro. No Part USB drive needed
Note 3	Non-SPA but is DOIP Requires DOIP Cable. No Part USB drive needed
Note 4	Non-DOIP, Does Not require USB flash Do not need DOIP.



• 2004 and newer vehicle module programming

Year	Make	Model	Requirements	Actual Name	Module
2011					
	Volvo	C30	Note 1		
	Volvo	C70	Note 1		
	Volvo	S40	Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	V50	Note 1		
	Volvo	V60	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 1		
2012			Note 1		
	Volvo	C30	Note 1		
	Volvo	C70	Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	V60	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 1		
2013			Note 1		
	Volvo	C30	Note 1		
	Volvo	C70	Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	V60	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 1		
2014			Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	V60	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 1		

Note 1	If the module is an ICM/IHU then the part number #9513060 is needed.		
Note 2	SPA Platform Requires DOIP Cable/RAP/DriveCrash/CD4 Euro Cable for DrivePro. No Part USB drive needed		
Note 3	Non-SPA but is DOIP Requires DOIP Cable. No Part USB drive needed		
Note 4	Non-DOIP, Does Not require USB flash Do not need DOIP.		



Volvo
2004 and newer vehicle module programming

Year	Make	Model	Requirements	Actual Name	Module
2015			Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	V60	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
2016			Note 1		
	Volvo	S60	Note 1		
	Volvo	S80	Note 1		
	Volvo	S90	Note 2		
	Volvo	V60	Note 1		
	Volvo	V70	Note 1		
	Volvo	XC40	Note 2		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 2		
2017			Note 1		
	Volvo	S60	Note 1		
	Volvo	S90	Note 2		
	Volvo	V60	Note 1		
	Volvo	V90	Note 2		
	Volvo	XC40	Note 3		
	Volvo	XC60	Note 1		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 2		
2018			Note 1		
	Volvo	S60	Note 1		
	Volvo	S90	Note 2		
	Volvo	V60	Note 1		
	Volvo	V90	Note 2		
	Volvo	XC40	Note 3		
	Volvo	XC60	Note 2		
	Volvo	XC70	Note 1		
	Volvo	XC90	Note 2		

Note 1	If the module is an ICM/IHU then the part number #9513060 is needed.		
Note 2	SPA Platform Requires DOIP Cable/RAP/DriveCrash/CD4 Euro Cable for DrivePro. No Part USB drive needed		
Note 3	Non-SPA but is DOIP Requires DOIP Cable. No Part USB drive needed		
Note 4	Non-DOIP, Does Not require USB flash Do not need DOIP.		



• 2004 and newer vehicle module programming

Year	Make	Model	Requirements	Actual Name	Module
2019			***************************************		
	Volvo	S60	Note 2		
	Volvo	S90	Note 2		
	Volvo	V60	Note 2		
	Volvo	V90	Note 2		
	Volvo	XC40	Note 3		
	Volvo	XC60	Note 2		
	Volvo	XC90	Note 2		
2020					
	Volvo	S60	Note 2		
	Volvo	S90	Note 2		
	Volvo	V60	Note 2		
	Volvo	V90	Note 2		
	Volvo	XC40	Note 2		
	Volvo	XC60	Note 2		
	Volvo	XC90	Note 2		
2021					
	Volvo	S60	Note 2		
	Volvo	S90	Note 2		
	Volvo	V60	Note 2		
	Volvo	V90	Note 2		
	Volvo	XC40	Note 2		
	Volvo	XC40 Electric	Note 2		
	Volvo	XC60	Note 2		
	Volvo	XC90	Note 2		
2022					
	Volvo	S60	Note 2		
	Volvo	S90	Note 2		
	Volvo	V60	Note 2		
	Volvo	V90	Note 2		
	Volvo	XC40	Note 2		
	Volvo	XC60	Note 2		
	Volvo	XC90	Note 2		

Note 1	If the module is an ICM/IHU then the part number #9513060 is needed.		
Note 2	SPA Platform Requires DOIP Cable/RAP/DriveCrash/CD4 Euro Cable for DrivePro. No Part USB drive needed		
Note 3	Non-SPA but is DOIP Requires DOIP Cable. No Part USB drive needed		
Note 4	Non-DOIP, Does Not require USB flash Do not need DOIP.		



Brand	OE Scan	Notes
Acura	2006 - 2023	
Alfa Romeo	2016 - 2023	
Audi	2008 - 2023	
BMW	2008 - 2023	
Buick	2005 - 2023 ^G	Early MY vehicle may have longer scan times
Cadillac	2005 - 2023 ^G	Early MY vehicle may have longer scan times
Chevrolet	2005 - 2023	
Chrysler	2005 - 2023 ^s	Some 05-08MY vehilcles may not be suported
Dodge	2005 - 2023 ^s	Some 05-08MY vehilcles may not be suported
Fiat	2013 - 2023	
Ford	2005 - 2023	
GMC	2005 - 2023 ^G	Early MY vehicle may have longer scan times
Honda	2006 - 2023 ^H	
Hummer	2005 - 2009 ^G	Early MY vehicle may have longer scan times
Hyundai	2008 - 2023	
Infinity	2008 - 2023	
Jaguar	2008 - 2017 ^D	
Jeep	2005 - 2023 ^s	Some 05-08MY vehilcles may not be suported
Kia	2008 - 2023	
Land Rover	2008 - 2017 ^D	2017 Rand Rover, Range Rover Sport & Discovery may not be supported
Lexus	2001 - 2023	
Lincoln	2005 - 2023	
Mazda	2005 - 2023	
Mercedes-Benz	2008 - 2018	
Mercury	2005 - 2011	
Mini	2008 - 2023	
Mitsubushi	Coming soon!	
Nissan	2008 - 2023 ^N	GTR models not supported
Pontiac	2005 - 2010 ^G	Early MY vehicle may have longer scan times
RAM	2010 - 2023	
Saturn	2005 - 2010 ^G	Early MY vehicle may have longer scan times
Scion	2004 - 2017	
Smart	2008 - 2018	
Sprinter (MB)	2008 - 2018	
Subaru	2008 - 2023	
Tesla	Coming soon! 2001 - 2023 T	Company della a struma attal
Toyota		Supra models not supported
Volvo	1999 - 2023 ^D	
VW	2008 - 2023	
Wagoneer	2022 - 2023	



Remote Scan Pricing

Vehicle Make	OE Scan Price		
Domestic & Asian	\$ 50.00*		
European	\$ 100.00**		
* Additional license fees are required for the following OE Scans:			
Vehicle Make	Additional Cost		
FCA / Stellantis	\$ 30 (per vin/month)		
Honda / Acura	\$ 45 (per vin/month)		
** European pricing applies to:			
Audi, BMW, JLR, Mercedes, Mini, VW & Volvo			