

# MATCO TOOLS



# ProAssist & RAPASSIST

## RAP Capabilities & Cost

**Disclaimer:** When using **ProAssist RAP**, 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 Device kit and turn tablet on 30 minutes prior to Programming 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 (Few Exceptions Below)
- J2534 module programming, updating, coding: **\$125.00 USD each**
- Module calibration check: **\$40.00 USD each**

Chassis	
F39	F39 No module programming or coding
G05, G07, G14, G15, G20	No module programming or coding.
All	All Infotainment ECUs (SAT NAV / RADIO / AMPLIFIER / CD / DVD) Coding Only (Replacement Needs Coding). Module updating not possible. Replacement possible with stipulations. <b>*** 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 of the head unit, we cannot provide it.</b>
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
E46, E83	MS45.1 Replacements only. No updating (Replacement needs programming). <b>*** NOTE: EGS and DSC should be disconnected before programming is performed.</b>
E6x Non Motorsport Cars	Sequential Manual Gearbox Module. No module updating. No Module Coding. No replacements.
E83, E85, E86, E9x	MSV80 DME (Digital Motor Electronics) No updating. No replacements (Replacement needs programming).
All	Instrument Cluster Coding only (Replacement Needs Coding). No updating.
All	FEM (Front Electronic Module) No existing module updates. Updating of replacement module as 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
<ul style="list-style-type: none"> <li>• Some vehicles will need to be scanned using the OEM software to determine whether an update is available or not. This process may take 15 – 20 minutes prior to the programming service.</li> <li>• Some vehicles may take up to four (4) hours to complete programming.</li> </ul>	

### Module/System Examples:

Digital Motor Electronics  
Junction Box Electronics  
Footwell Module

Body Domain Controller  
Instrument Cluster Module  
Sequential Manual Gearbox

Car Access System  
Front Electronic Module

## 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:

<b>Powertrain Control Module</b>	<b>Occupant Restraint Control Module</b>	<b>Wireless Control Module</b>
<b>Transmission Control Module</b>	<b>Wireless Ignition Node</b>	<b>Radio Frequency Hub</b>

- **J2534 module programming, key programming and associated configuration, setup and security functions: \$125.00 USD per module. Plus \$65.00 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 NASTIF 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 used modules: The \$125.00 USD module programming fee will apply.**
- Module calibration check: **\$40.00 USD each**
- **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.**
- **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 used 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 ✖ 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			✖	✖	✖	✖	All Modules
Accord Hybrid					✖	✖	
Civic	✖	✖	✖	✖	✖	✖	
Civic Hybrid			✖	✖	✖	✖	
CR-V		✖	✖	✖	✖	✖	
Element			✖	✖	✖	✖	
Fit							
Insight	✖	✖	✖	✖	✖	✖	
Odyssey					✖	✖	
Pilot					✖	✖	
Ridgeline							
S2000						✖	

Acura	2001	2002	2003	2004	2005	2006	2007 and Newer
MDX			✖	✖	✖	✖	All Modules
RDX							
RL					✖	✖	
RSX		✖	✖	✖	✖	✖	
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

<b>Model</b>	<b>Year</b>
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

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

## Nissan/Infiniti

- Updated TCM Support!
  - **RE0F08B (JF009E)** CVT1 module updating and replacement
  - **RE0F10A (JF011E)** CVT2 module updating and replacement
  - **RE0F10B (JF011E)** CVT2 (**Turbo**) module updating and replacement
  - **RE0F09B (JF010E)** CVT3 module updating and replacement
  - **RE0F11A (JF015E)** CVT7 module updating and replacement
  - **RE0F10 (JF011)** CVT8 module **updating only**
- 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
- Nissan Valve Body/Transmission Programming:
  - Due to the time required for these services, scheduling this service must be done prior to 3:30pm EST.
  - **Call to schedule earlier in the day to ensure same-day service!**

### Module/System Examples:

#### Powertrain Control Module

#### Transmission Control Module

- 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**

## Volvo

- 2004 and newer vehicle module programming

Module/System by Year / Subsystem / 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: **Calibration cost varies by module - call for pricing**

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.

## Volvo

- 2004 and newer vehicle module programming

Module/System by Year / Subsystem / Module:

2007			Note 4	Transmission Control Module	TCM
	Volvo	C30	None	Closing Velocity Module	CVM
	Volvo	C70	None	Headlamp Control Module	HCM
	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 Electric Module	REM
	Volvo	V70 R	None	Suspension Module	SUM
	Volvo	XC70	None		
	Volvo	XC90	None		
2008					
	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		

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## Volvo

- 2004 and newer vehicle module programming

Module/System by Year / Subsystem / Module:

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		

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## Volvo

- 2004 and newer vehicle module programming

Module/System by Year / Subsystem / Module:

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		

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## Volvo

- 2004 and newer vehicle module programming

Module/System by Year / Subsystem / Module:

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		

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