



**ULTIMATE9®**

**INTERNATIONAL**

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**EVC & evcX Product Catalogue  
& Application Guide**

June, 2022  
Edition 4.0.1

## HOW TO NAVIGATE THIS DOCUMENT

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## Edition 4.0.1 Updates

### New Applications

MAKE	MODEL	YEAR & VARIANT	EVC	evcX
HAVAL	JOLION	2020 - ON	EVC603	X603
HYUNDAI	SANTA FE	2007 - 2012 (Highlander - 2nd Gen)	EVC611L	X611
HYUNDAI	STARIA	2021 - ON	EVC607L	X607
JAGUAR	XF	2015 - ON (X260)	EVC622L	X622
JEEP	GRAND CHEROKEE	2021 - ON (WL)	EVC508L	X508
KIA	SPORTAGE	2021 - ON (NQ5)	EVC607L	X607
KIA	STONIC	2017 - ON	EVC607L	X607
MITSUBISHI	DELICA	2012 - 2019 (D5 - 5th Gen)	EVC303	X303
NISSAN	JUKE	2019 - ON (F16 - 2nd Gen)	EVC801	X801
PEUGEOT	208	2012 - ON	EVC333L	X333
SSANGYONG	KORANDO	2010 - 2019 (C200 - 3rd Gen)	EVC610	X610
SSANGYONG	KORANDO	2019 - ON (C300 - 3rd Gen)	EVC610	X610
SUBARU	LEGACY & OUTBACK	2007 - 2009 (4th Gen - BL/BP)	EVC551	X551
SUZUKI	JIMNY	2018 - ON (4th Gen)	EVC931L	X931
SUZUKI	SWIFT	2017 - ON (4th Gen)	EVC931	X931
SUZUKI	SWIFT SPORT	2017 - ON (4th Gen)	EVC931	X931
TOYOTA	RUKUS	2007 - 2015	EVC171	X171
VOLKSWAGEN	T-CROSS	2018 - ON (C11)	EVC201L	X201

## Updated Applications

MAKE	MODEL	YEAR & VARIANT	UPDATE
CITROEN	C4	2004 - 2010 (1st Gen)	Update SKU from '321' to '331'
HOLDEN	BARINA	2011 - 2018 (TM)	Updated year from 'ON' to 2018
HYUNDAI	SANTA FE	2007 - 2012 (2nd Gen)	Update SKU from '611' to '608'
JEEP	GLADIATOR	2019 - ON (JT)	Update Variant - (JT) New evcX SKU 'X510'
JEEP	GRAND CHEROKEE	2011 - 2021 (WK2)	Updated listing from 'ON' to 2021
JEEP	WRANGLER	2018 - ON (JL)	New evcX SKU 'X510'
KIA	FORTE	2014 - 2018 (2nd Gen)	Update SKU from '631' to '611'
KIA	SPORTAGE	2015 - 2021 (QL)	Update year range from '19' to '21'
MG	ZS	2018 - ON	Update year from '2019' to include '2018'
MITSUBISHI	EXPRESS	2020 - ON (X82)	Updated SKU from '303' to '802'
SUBARU	LEGACY & OUTBACK	2003 - 2007 (4th Gen - BL/BP)	Update year range from '09' to '07'
SUZUKI	IGNIS	2016 - ON	Update SKU from '910' to '931'
SUZUKI	MEHRAN	ALL MODELS	Update SKU from '910' to '931'
TOYOTA	COROLLA	2006 - 2013 (E140/E150)	Update SKU from '721' to '171'
TOYOTA	COROLLA	2012 - 2019 (E160)	New evcX SKU 'X173'
TOYOTA	CROWN	2012 - 2018 (S210)	New evcX SKU 'X173'
TOYOTA	FORTUNER	2015 - ON (AN150/AN160)	New evcX SKU 'X173'
TOYOTA	HIACE	2019 - ON (H300)	New evcX SKU 'X173'

## Updated Applications

MAKE	MODEL	YEAR & VARIANT	UPDATE
TOYOTA	HILUX	2015 - ON (8th Gen - N80)	New evcX SKU 'X173'
TOYOTA	HILUX	2015 - ON (Revo)	New evcX SKU 'X173'
TOYOTA	RAV4	2005 - 2016 (XA30)	New evcX SKU 'X173'
TOYOTA	YARIS	2013 - ON (XP150)	New evcX SKU 'X173'
VOLVO	S60	2019 - ON (3rd Gen)	Updated SKU from '632' to '612'



## INTRODUCTION

The Ultimate9 Product Catalogue and Application Guide is designed to give the salesperson and product fitter information about our range of products, including product features, installation instructions, model applications, FAQ's and warranty information.

The document is an interactive PDF, and most pages feature links that are accessible by clicking on the relevant wording. Page bookmarks are also included.

## ABOUT US



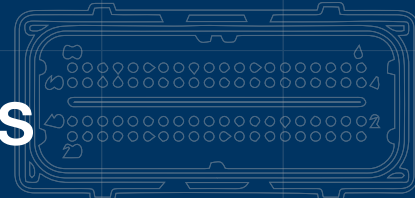
From humble beginnings as iDRIVE Australia, now evolving and diversifying as Ultimate9, we have always valued integrity over profit. Priding ourselves on honest claims, professionalism, the highest quality production standards, long term and extensive product support, valuing our customers and treating our dealer network like family. Since our creation we have lead the market in customer service, product development, future focused intuitive thinking and community engagement.

Our Aim is to provide the highest quality products, service, relationships and support for our customers and family of distributors. To maintain our high level of quality we ensure substantial care and attention is provided at each stage of the process from manufacturing to fitment.

Our Research and Development team is constantly working on improving and refining our products, ensuring everything is of the highest standard and guaranteed to perform. That is why the EVC Throttle Controller from Ultimate9 is backed by a 30-day money back guarantee and industry leading lifetime replacement warranty.

ACCELERATOR PEDAL POSITION (APP) SENSOR

PIN	PIN	WIRE COLOR	FUNCTION
A	C1 23	Purple	Sensor Ground
B	C1 49	Light Blue	Accelerator Pedal Position (APP) Sensor 1
C	C1 49	Van	Accelerator Pedal Position (APP) Sensor 2
D	C1 24	Orange	Sensor Ground
E	C1 70	Dark Blue	Accelerator Pedal Position (APP) Sensor 1 Signal
F	C1 50	White/Black	5V Voltage Reference



INFINITY C1 CO PIN

# THROTTLE CONTROLLERS

THROTTLE BODY

Today, modern engines still work on the same principles as their predecessors from over 100 years ago, however in the pursuit of power and, in more recent times, efficiency and emission control, what were once simple mechanical controls have now been replaced by modern computers and electronics. Gone are carburetors, throttle linkages or cables, ignition distributors and mechanical fuel pumps. These have been replaced with fuel injection, electronic throttles, crank angle sensors and high-pressure common rail fuel delivery systems.

Since the early 2000's, new vehicles have been manufactured with electronic throttle control pedals that pass their position information to the ECU (engine control unit) in the form of small voltage changes. The ECU then processes that information before opening the throttle and controlling ignition timing and fuel injection duration to give a driver the power increase they are asking for. Although this information passes quickly from driver input to engine reaction, and is far more efficient than cables or linkages, due to the need for emission controls and a "one setting suits most" design, this can often make the engine less responsive than desired and in the case of modern diesel vehicles, can produce a delayed reaction referred to as throttle lag.

There are many ways to improve the power of modern engines. Larger turbos, cold air intakes, free flowing exhausts, ECU upgrades and remaps to name a few. But what if you could increase the pedal response and unleash the power that already lurks within your standard engine without the costs of expensive modification?

Aftermarket throttle controllers do just that and are a cost-effective performance modification that can be fitted by the home DIY mechanic in as little as 5 minutes. Although a throttle controller does not affect the peak torque and power of an engine, they are capable of shortening the throttle response time, therefore reducing throttle lag while sharpening the throttle curve, effectively unleashing the engine's power lower in the rev range.

The following pages include Ultimate9's throttle controller models, each developed and tuned for individual vehicle makes and models including applications for on and off road as well as a range of UTV vehicles.

ACCELERATOR PEDAL POSITION (APP) SENSOR

THROTTLE BODY

# evcX

PREMIUM RANGE FOR CARS &  
4X4 VEHICLES



## evcX OVERVIEW

The evcX sees the addition of new features and functionality, allowing users to explore their vehicle's potential even further.

Bluetooth enabled, take control of the evcX through the new Ultimate9 TC app and enjoy the larger displays offered by mobile devices, whether picking from favourite settings or choosing different modes and sensitivity levels.

Its larger OLED (Organic Light Emitting Diode) display supports comprehensive on-screen information, incorporating a self-dimming feature that activates as it senses a change in ambient lighting.

With new mounting options available and dual USB-C plug ports, the driver interface offers users greater freedom in positioning and the ability to be removed from the vehicle, leaving the throttle controller in the last selected mode.

Remove the driver interface in combination with the new Lock mode and add another layer of security. Lock Mode will disable the throttles input and offer users more comfort in their car's safety.

### Standard features of the evcX include:

- **Ultimate9 mode** - Highest throttle response setting
- **Ultimate mode** - 9 levels of increased throttle response
- **Anti-Slip mode** - Reduced initial response for increased traction
- **Launch mode** - increased response with a more linear profile to reduce the chance of wheel spin
- **Economy mode** - for better fuel consumption and less throttle response
- **Factory mode** - Standard factory settings
- **Valet mode** - Reduced throttle response and RPM limited
- **Adapt mode** - Adapts to user throttle input
- **Lock-out mode** - Disables user interface and locks throttle
- **Bluetooth control** - via a iOS/Android compatible phone
- **Removable user interface** - Enhanced security for lock-out mode
- **Dual USB-C plug ports** - ease of installation and integration
- **An array of mounting options**
- **Easy carry storage satchel**
- **OLED display** - Displays mode and connection/lock-out status
- **Programmable to both automatic and manual transmissions**
- **30-day money-back guarantee**
- **Limited lifetime replacement warranty**
- **Certified to CE, FCC & RCM requirements**

### Ultimate9 Mode:

For maximum throttle enhancement, Ultimate9 mode instantly sets the pedal response to the highest setting.



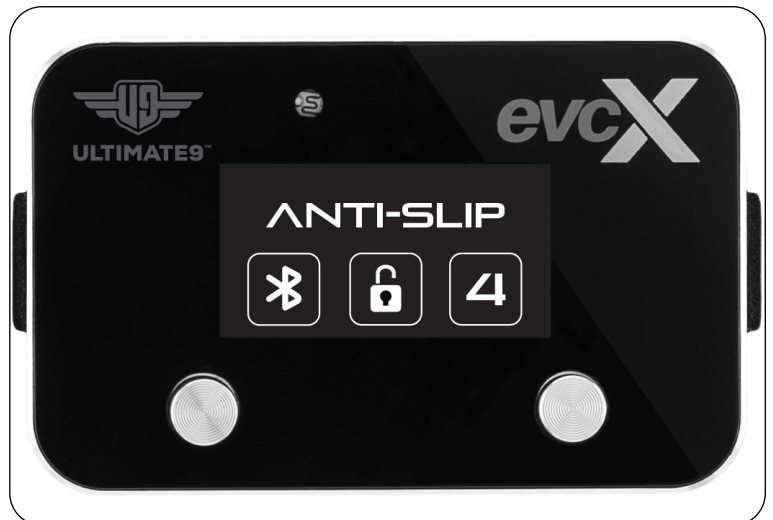
### Ultimate Mode:

Ultimate Mode sharpens your throttle response, the higher you go the more aggressive your throttle becomes. Also featuring 9 levels of adjustment for user refinement. Great for everyday driving, towing, overtaking, or highway driving.



### Anti-Slip Mode:

Anti-Slip Mode offers a subdued throttle response which is perfect for driving on slippery surfaces such as snow, ice and mud, giving more control with reduced chance of wheel-spin.



### Launch Mode:

Launch Mode sharpens your throttle response, the higher you go the more aggressive your throttle becomes. However the initial response is slightly modified in comparison to the Ultimate mode so as to reduce the likelihood of wheel spin, therefore increasing traction.



### Economy Mode:

Economy Mode subdues your throttle response below factory levels and features 9 levels of adjustment. The higher the setting, the more subdued your throttle response becomes. Great for off road, heavy traffic, or low-speed towing maneuvers.



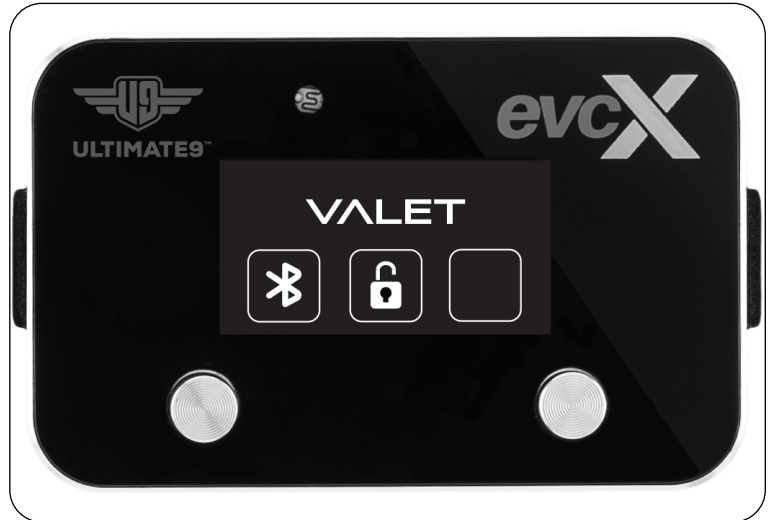
### Factory Mode:

Factory mode replicates your vehicles factory/OE throttle mapping.



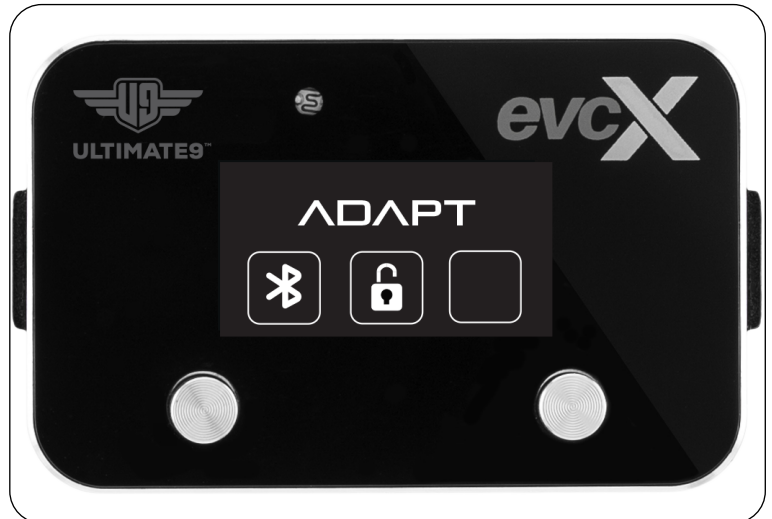
### Valet Mode:

Designed for parking, Valet mode reduces the throttle response whilst limiting the available throttle to provide approximately 50% RPM max.



### Adaptive Control Mode:

Adaptive Control Mode is a set and forget mode, using 9 tuning settings from Ultimate Mode to deliver the most appropriate throttle response depending on your current driving behaviour in real-time. For example, if you're in heavy traffic and only moving up 2-3 metres at a time, AC mode will select Ultimate Mode 1-2, when you start to accelerate it will increase your throttle response to Ultimate Mode 3-5, however if you see a gap in traffic and hit the go pedal all of a sudden, it will react in kind and deliver Ultimate Mode 6-9.





### Throttle Lock Mode:

Adding an extra level of security for not only the evcX but also the customer's vehicle. When Throttle Lock mode is engaged, the evcX blocks all throttle input from the accelerator pedal, the vehicle will start, however, no matter how hard you stomp on the pedal the vehicle simply will not rev, essentially disabling the vehicle and rendering it immobile. The evcX can also be removed from the vehicle altogether and stored in the provided easy-carry satchel, meaning you can place the evcX into Throttle Lock mode and remove the evcX from the vehicle, completely disabling the car's throttle.



### OPTIONAL MOUNT

#### Magnetic Ball Dash Mount:

Utilising a magnetic pad and adhesive metallic disc, the magnetic ball dash mount adheres to almost any surface so that the EVC driver interface can be placed in a convenient position and angled towards the driver.

Part No. EVC-DS  
Barcode: 787099448851



## INCLUDED

### Protective Pouch

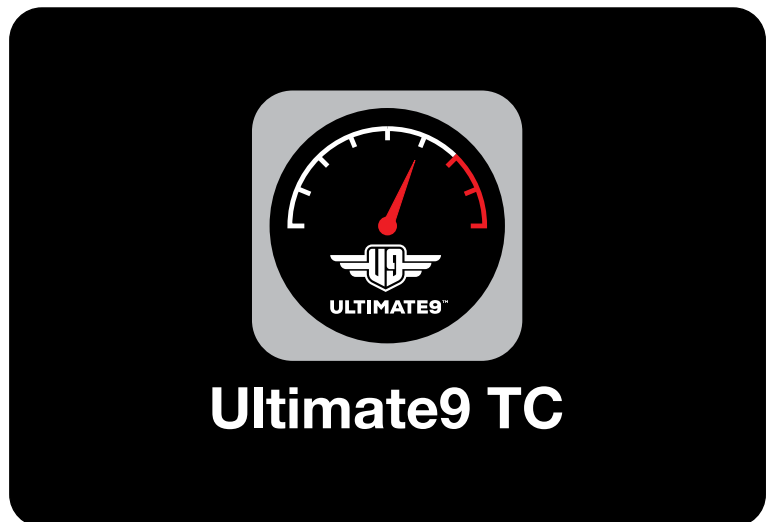
The evcX user interface can be easily removed from the magnetic mounting options and stored in the supplied pouch. If the evcX is placed in Lockout Mode prior to removal, the vehicle throttle is deactivated and the vehicle can not be driven, providing an extra level of theft prevention.

Note; Not available for individual purchase



### evcX App

The Ultimate9 TC App makes controlling the evcX simple via Bluetooth and a larger screen display. Downloadable for free from the Apple App Store or Google Play, the app has a number of customisable features to personalise it to suit the user preference.



## INSTRUCTIONS

For further information on how to install, pair, set, adjust & lock the evcX, please refer to the separate guides included with the evcX or links below.

[evcX - Ultimate9 TC App Guide](#)

[Ultimate9 - evcX Quick Start Guide](#)

# **EVC**

## **THROTTLE CONTROLLERS**

**RANGE FOR CARS & 4X4  
VEHICLES**



## **EVC OVERVIEW**

Featuring 4 driving modes and 20 tuning settings, adjust your throttle response to suit your specific needs. Easily installed in under 15 minutes, the EVC is the DIY mechanic's solution to throttle lag; customisable for any driving terrain or situation, whether you're on the highway or off the beaten track.

The EVC provides new points of reference for your vehicle's throttle mapping, modifying the torque request that is sent to the throttle tables in your vehicle's Engine Control Unit (ECU). As a result, the throttle is activated faster, ultimately reducing throttle lag and enhancing throttle response.

### **Standard features of the EVC include:**

- Ultimate mode - 9 levels of increased throttle response
- Economy mode - for better fuel consumption and less throttle response
- Automatic mode - Adapts to throttle input
- Factory mode - Standard factory settings
- Programmable to both automatic and manual transmissions
- 30-day money-back guarantee
- Limited lifetime replacement warranty

### **Options include:**

- Over 20 faceplate colours and designs
- Magnetic dash mount

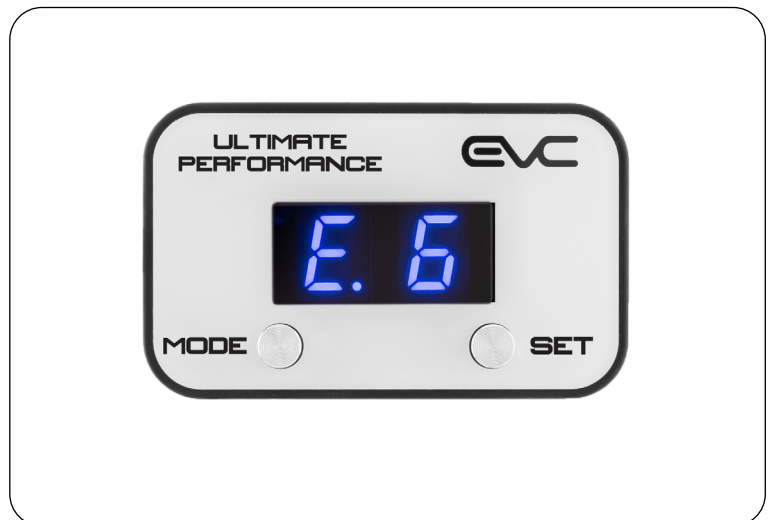
### Ultimate Mode:

Ultimate Mode sharpens your throttle response, the higher the setting, the more aggressive your throttle becomes. Featuring 9 levels of adjustment for user refinement, Ultimate mode is great for everyday driving, towing, overtaking, or highway driving.



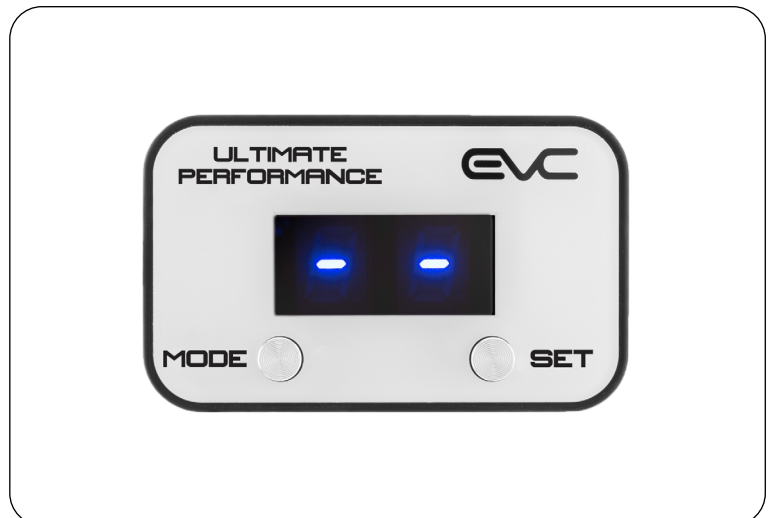
### Economy Mode:

Economy Mode subdues your throttle response below factory levels and features 9 levels of adjustment. The higher the setting, the more subdued your throttle response becomes. Great for off road, heavy traffic, or low-speed towing maneuvers.



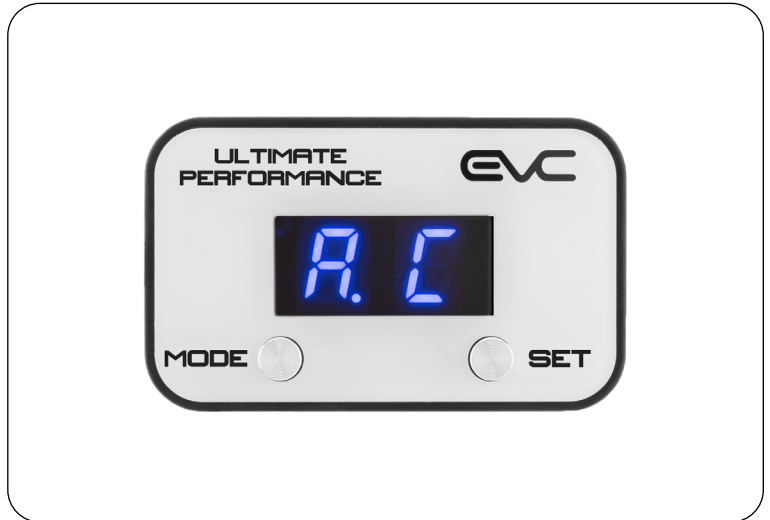
### Normal Mode:

Normal Mode replicates your vehicle's factory/OE throttle mapping.



### Automatic Control Mode:

Automatic Control Mode is a set and forget mode, using 9 tuning settings from Ultimate Mode to deliver the most appropriate throttle response depending on your current driving behaviour in real-time. For example, if you're in heavy traffic and only moving up 2-3 metres at a time, AC mode will select Ultimate Mode 1-2, when you start to accelerate it will increase your throttle response to Ultimate Mode 3-5, however if you see a gap in traffic and hit the go pedal all of a sudden, it will react in kind and deliver Ultimate Mode 6-9.



### OPTIONAL MOUNT

#### Magnetic Ball Dash Mount:

Utilising a magnetic pad and adhesive metallic disc, the magnetic ball dash mount adheres to almost any surface so that the EVC driver interface can be placed in a convenient position and angled towards the driver.

Part No. EVC-DS  
Barcode: 787099448851



### INSTRUCTIONS

For further information on how to install, pair, set & adjust the EVC, please refer to the separate guide included with the EVC or link below.

[Ultimate9 - EVC Quick Start Guide](#)

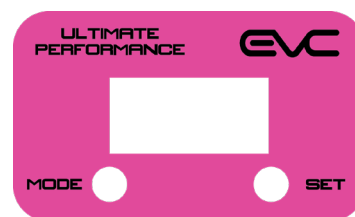
## CUSTOM FACEPLATES

With more than 20 custom faceplates in the the range, customers can now personalise their EVC Throttle Controller to compliment their vehicle colour or choose from a range of designs.

Our range is growing thanks to customer feedback. To help merchandise the full range of face plates, they are now individually packaged in clear plastic bags with header cards so you can hang them on shelves, gondolas, peg boards etc.



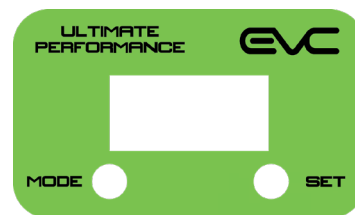
Black



Pink



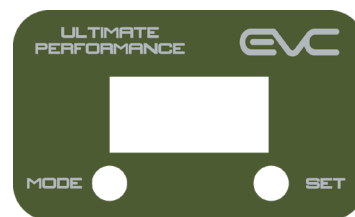
Charcoal



Light Green



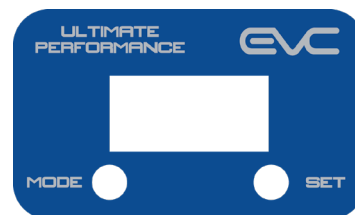
Orange



Jeep Green



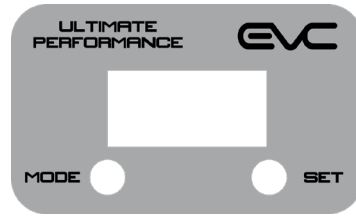
Purple



Blue



Red



Light Grey



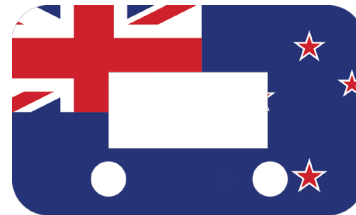
Sandy



US Grunge Flag



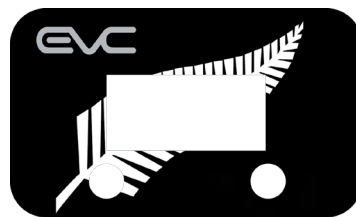
AUSCAM



NZ Flag



Snowcam



Silver Fern Flag

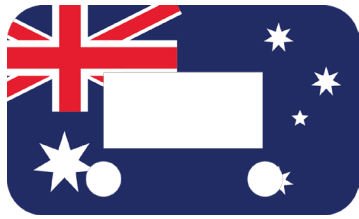


Jeep Star

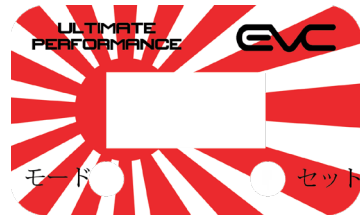


Eureka Flag





Aussie Flag



JDM Rising Sun

**FACEPLATE ORDERING DETAILS**

<b>Part Number</b>	<b>Description</b>	<b>Barcode</b>
CFBK	Black CFP	787099448455
CFCG	Charcoal CFP	787099448479
CFOR	Orange CFP	787099448493
CFPL	Purple CFP	787099448899
CFRE	Red CFP	787099448516
CFPI	Pink CFP	787099448509
CFGR	Light Green CFP	787099448486
CFJG	Jeep Green CFP	787099448905
CFBL	Blue CFP	787099448462
CFLG	Light Grey CFP	787099448882
CFSD	Sandy CFP	787099448448
CFAC	Auscam CFP	787099448417
CFSC	Snowcam CFP	787099448424
CFJS	Jeep Star CFP	787099448608
CFAU	Aussie Flag CFP	787099448868
CFUG	US Grunge Flag CFP	787099448929
CFNZ	NZ Flag CFP	787099448943
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## Alfa Romeo

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
147	2002 - 2010	X319	EVC319L
156	2002 - ON	X319	EVC319L
159	2006 - ON	X309	EVC309L
BRERA COUPE	2006 - ON	N/A	N/A
GIULIA	2016 - ON (952)	X309	EVC309L
GIULIETTA	2010 - ON	X309	EVC309L
GT	2005 - ON	X319	EVC319L
MITO	2008 - 2018	X309	EVC309L
SPIDER	2006 - ON	N/A	N/A
STELVIO	2017 - ON	X309	EVC309L

## Audi

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
A1	2010 - 2013	X152	EVC152
A1	2013 - ON	X201	EVC201L
A2	2000 - 2005	X152	EVC152
A3	1999 - 2004	X152	EVC152
A3	2004 - ON	X201	EVC201L
A4	2001 - 2006 (B6)	X152	EVC152
A4	2004 - 2009 (B7)	X152	EVC152
A4	2008 - 2016 (B8)	X201	EVC201L
A4	2017 - ON (B9)	X207	EVC207L
A5	2007 - 2016	X201	EVC201L
A5	2016 - ON (BW6)	X206	EVC206L
A6	2004 - 2011 (C6)	X202	EVC202
A6	2012 - 2018 (C7)	X201	EVC201L
A6	2018 - ON (C8)	X201	EVC201L
A7	2010 - 2017 (4G8)	X201	EVC201L
A8	2002 - 2010 (D3)	X201	EVC201L
A8	2010 - 2017 (D4)	X201	EVC201L
A8	2017 - ON (D5)	X252	EVC252
Q3	2011 - ON	X201	EVC201L
Q5	2008 - 2017 (B8)	X201	EVC201L
Q5	2018 - ON (B9)	X207	EVC207L
Q7	2007 - 2015 (1st Gen)	X252	EVC252
Q7	2015 - ON (2nd Gen)	X207	EVC207L
R8	2006 - ON	X201	EVC201L
RS 3	2011 - 2012	X201	EVC201L
RS 3	2015 - ON	X201	EVC201L
RS 4	2006 - 2008 (B7)	X201	EVC201L
RS 4	2012 - 2015 (B8)	X201	EVC201L
RS 4	2018 - ON (B9)	X207	EVC207L
RS 5	2012 - ON	X201	EVC201L

## Audi

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
RS 6	2008 - 2010 (C6)	X152	EVC152
RS 6	2013 - 2018 (C7)	X201	EVC201L
S3	2004 - 2013	X201	EVC201L
S3	2013 - ON	X201	EVC201L
S4	2001 - 2006 (B6)	X152	EVC152
S4	2004 - 2009 (B7)	X152	EVC152
S4	2008 - 2016 (B8)	X201	EVC201L
S4	2017 - ON (B9)	X207	EVC207L
S5	2007 - 2016	X201	EVC201L
S5	2016 - ON	X207	EVC207L
S8	2002 - 2010 (D3)	X201	EVC201L
S8	2010 - 2017 (D4)	X252	EVC252
S8	2017 - ON (D5)	X252	EVC252
SQ5	2013 - 2017	X201	EVC201L
SQ5	2018 - ON	X207	EVC207L
TT	1998 - 2006 (Mk1)	N/A	N/A
TT	2006 - 2014 (Mk2)	X201	EVC201L
TT	2014 - ON (Mk3)	X201	EVC201L

## BMW

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
All Models	2000 - ON	X401	EVC401

## Buick

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ENCLAVE	2008 - ON	X507	EVC507
ENCORE	2013 - ON	X507	EVC507
ENVISION	2016 - ON	X525	EVC525L
GL8	2000 - 2010 (1nd Gen)	X505	EVC505L
GL8	2011 - 2016 (2nd Gen)	X535	EVC535
GL8	2017 - ON (3rd Gen)	X535	EVC535
LA-CROSS	2005 - ON	X535	EVC535



## BYD

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
F3	2005 - ON	X504	EVC504
G5	2014 - ON	X504	EVC504
G6	2011 - 2013	X504	EVC504
M6	2010 - 2015	X504	EVC504
S7	2011 - 2017	X504	EVC504
SURUI	2016 - ON	X504	EVC504

## Cadillac

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ATS	2013 - 2019	X525	EVC525L
BLS	2005 - 2010	X505	EVC505L
CTS	2002 - 2013	X535	EVC535
CTS	2014 - 2019	X525	EVC525L
ESCALADE	2002 - 2006 (2nd Gen)	X538	EVC538L
ESCALADE	2007 - 2014 (3rd Gen)	X536	EVC536
ESCALADE	2015 - ON (4th Gen)	N/A	N/A
SLS	2006 - 2013	X535	EVC535
SRX SERIES		X712	EVC712
STS	2005 - 2011	X505	EVC505L
XT5	2017 - ON	X507	EVC507
XTS	2013 - 2019	X556	EVC556

## Changan

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ALSVIN		X903	EVC903
CS20		X611	EVC611L
CS35		X504	EVC504
CX30		X614	EVC614
EADO		X604	EVC604

## Chery

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
A1		X101	EVC171
A3		X101	EVC101
A5		X101	EVC101
ARRIZO 7		X101	EVC101
CROSS		X101	EVC101
E5		X101	EVC101
EASTAR		X704	EVC704
EASTAR	(MPV 2.0L)	X101	EVC101
KARRY		X101	EVC101
M5		X101	EVC101
QQ		X101	EVC101
RELY		X101	EVC101
RIICH		X101	EVC101

## Chevrolet

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
AVALANCHE	2007 - 2013	X536	EVC536
AVEO	2011 - 2018 (T300)	X525	EVC525L
CAMARO	2010 - 2015	X535	EVC535
CAMARO	2016 - ON	X535	EVC535
CAMARO	2018 - ON (Australian Models)	X525	EVC525L
CAPTIVA	2006 - 2018	X537	EVC537
CAPTIVA	2019 - ON	X537	EVC537
COLORADO	2012 - ON (2nd Gen)	X505	EVC505L
CORVETTE	2005 - 2013 (6th Gen - C6)	X535	EVC535
CORVETTE	2014 - 2019 (7th Gen - C7)	X525	EVC525L
CORVETTE	2019 - ON (8th Gen - C8)	X525	EVC525L
CRUZE	2008 - 2016	X505	EVC505L
CRUZE	2016 - ON	X507	EVC507
EPICA	2006 - 2013	X506	EVC506
EQUINOX	2005 - 2009 (1st Gen)	N/A	N/A
EQUINOX	2010 - 2017 (2nd Gen)	X507	EVC507
EQUINOX	2018 - ON (3rd Gen)	X507	EVC507
HHR	2006 - 2011	X505	EVC505L
MALIBU	2008 - 2012 (7th Gen)	X505	EVC505L
MALIBU	2012 - 2016 (8th Gen)	X525	EVC525L
MALIBU	2017 - ON (9th Gen)	X525	EVC525L
ORLANDO	2011 - 2018 (1st Gen)	X505	EVC505L
ORLANDO	2018 - ON (2nd Gen)	N/A	N/A
SAIL	2001 - 2009 (1st Gen)	X505	EVC505L
SAIL	2010 - 2014 (2nd Gen)	X505	EVC505L
SAIL	2015 - ON (3rd Gen)	X724	EVC724
SILVERADO	2007 - 2014 (2nd Gen)	X536	EVC536
SILVERADO	2014 - 2019 (3rd Gen)	X536	EVC536
SILVERADO	2019 - ON (4th Gen)	X525	EVC525L

## Chevrolet

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
SONIC	2012 - ON (2nd Gen)	X525	EVC525L
SPARK	2005 - 2009 (2nd Gen)	N/A	N/A
SPARK	2009 - 2015 (3rd Gen)	X525	EVC525L
SPARK	2016 - ON (4th Gen)	X525	EVC525L
SUBURBAN	2007 - 2014 (10th Gen)	X536	EVC536
SUBURBAN	2015 - ON (11th Gen)	X536	EVC536
TAHOE	2007 - 2014	X536	EVC536
TAHOE	2015 - ON	X536	EVC536
TORNADO	2011 - ON (2nd Gen)	X505	EVC505L
TRAILBLAZER	2012 - ON (2nd Gen)	X505	EVC505L
TRAX	2013 - ON	X525	EVC525L

## Chrysler

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
200	2011 - 2014 (1st Gen)	N/A	N/A
200	2015 - 2017 (2nd Gen)	X505	EVC505L
300C	2006 - 2010 (1st Gen)	X302	EVC302L
300C	2011 - ON (2nd Gen)	X302	EVC302L
CROSSFIRE	2004 - 2008	X451	EVC451
GRAND VOYAGER	2008 - 2016	X124AN	EVC124AN

## Citroen

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
C1	2005 - 2014 (1st Gen)	X331	EVC331
C1	2014 - ON (2nd Gen)	N/A	N/A
C2	2003 - 2005	X321	EVC321
C2	2006 - 2009	X331	EVC331
C3	2002 - 2009 (1st Gen)	X321	EVC321
C3	2009 - 2016 (2nd Gen)	X331	EVC331
C3	2016 - ON (3rd Gen)	X333	EVC333L
C4	2004 - 2010 (1st Gen)	X331	EVC331
C4	2010 - 2018 (2nd Gen)	X303	EVC303
C5	2000 - 2008 (1st Gen)	X321	EVC321
C5	2008 - 2017 (2nd Gen)	X333	EVC333L
C6	2005 - 2015 (1st Gen)	X321	EVC321
C6	2016 - ON (2nd Gen)	X333	EVC333L
C8	2002 - 2014 (2nd Gen)	X331	EVC331
DISPATCH	2007 - 2016 (2nd Gen)	X331	EVC331
DISPATCH	2016 - ON (3rd Gen)	N/A	N/A
DS3	2009 - ON	X333	EVC333L
DS4	2010 - 2018	X333	EVC333L
DS5	2011 - 2018	X333	EVC333L
DS6	2014 - ON	X333	EVC333L
JUMPER	2006 - 2014	X319	EVC319L
JUMPER	2015 - ON	X309	EVC309L
JUMPY	2007 - 2016 (2nd Gen)	X331	EVC331
JUMPY	2016 - ON (3rd Gen)	N/A	N/A
NEMO	2007 - ON	X319	EVC319L
SPACE TOURER	2016 - ON	N/A	N/A
XSARA	1997 - 2006	X321	EVC321
XSARA PICASSO	2000 - 2010	X321	EVC321



## Dacia

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
DUSTER	2009 - ON	X801	EVC801
LOGAN	2004 - ON	X801	EVC801
SANDERO	2007 - ON	X801	EVC801

## Daihatsu

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
HIJET TRUCK	2014 - ON (S500 / S510)	X171	EVC171
TERRIOS	2006 - 2016 (J200 / F700)	X171	EVC171
TERRIOS	2017 - ON (F800)	X171	EVC171

## Dodge

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
AVENGER	2007 - 2014	X304	EVC304
CALIBER	2007 - 2012	X304	EVC304
CHALLENGER	2009 - ON (3rd Gen)	X302	EVC302L
CHARGER	2007 - 2010 (6th Gen - LX)	X302	EVC302L
CHARGER	2011 - ON (7th Gen - LD)	X302	EVC302L
DURANGO	2011 - ON (3rd Gen)	X302	EVC302L
JOURNEY	2009 - ON	X304	EVC304
MAGNUM	2005 - 2008 (LX)	X304	EVC304
NITRO	2007 - 2012	X302	EVC302L
RAM	2002 - 2009 (3rd Gen)	N/A	N/A
RAM 1500	2010 - 2018 (4th Gen - DS)	X302	EVC302L
RAM 1500	2019 - ON (5th Gen - DT)	X508	EVC508L
RAM 2500	2010 - 2018 (4th Gen - DJ)	X302	EVC302L
RAM 2500	2019 - ON (5th Gen - DJ2/D2)	X508	EVC508L
RAM 3500	2010 - 2018 (4th Gen - DJ)	X302	EVC302L
RAM 3500	2019 - ON (5th Gen - DJ2/D2)	X508	EVC508L
VIPER	2008 - 2010 (4th Gen)	N/A	N/A
VIPER	2013 - 2017 (5th Gen)	N/A	N/A

## Dongfeng

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
FENGSHENG		X803	EVC803
FENGSHENG H30		X806	EVC806
JOYEAR		X806	EVC806
LUSGEN		X807	EVC807
SUCCE		X806	EVC806

## Fiat

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
500	2007 - 2014	X310A	EVC310A
500	2014 - 2019	X309	EVC309L
595	2020 - ON	X310A	EVC310A
ABARTH 500	2007 - 2014	X310A	EVC310A
CROMA	2005 - 2010	X319	EVC319L
DUCATO	2006 - ON (3rd Gen)	X309	EVC309L
FIORINO	2007 - ON	X319	EVC319L
FREEMONT	2009 - ON	X304	EVC304
GRANDE PUNTO	2005 - 2009	X319	EVC319L
IDEA	2003 - 2016	X505	EVC505L
LINEA	2007 - 2018	X319	EVC319L
PALIO	2011 - 2017 (2nd Gen)	X319	EVC319L
PERLA	2006 - 2007	X319	EVC319L
PUNTO	1999 - 2010 (2nd Gen)	X319	EVC319L
PUNTO	2005 - 2018 (3rd Gen)	X505	EVC505L
SCUDO	2007 - 2008	X331	EVC331
SIENA	2012 - ON (2nd Gen)	X319	EVC319L
STILO	2001 - 2010	X319	EVC319L
STRADA	2013 - ON	X319	EVC319L
ULYSSE	2002 - 2014	X331	EVC331

## Ford

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
BRONCO	2021 - ON (6th Gen)	X622	EVC622L
C-MAX	2011 - ON (2nd Gen)	X622	EVC622L
ECOSPORT	2004 - 2012 (1st Gen)	X602	EVC602L
ECOSPORT	2013 - ON (2nd Gen)	X602	EVC602L
EDGE	2015 - ON (2nd Gen)	X622	EVC622L
ESCAPE	2008 - 2012 (2nd Gen)	X606	EVC606
ESCAPE	2013 - ON (3rd Gen)	X622	EVC622L
ESCORT	2015 - ON	X622	EVC622L
EVEREST	2009 - 2015 (2nd Gen)	X652	EVC652L
EVEREST	2015 - ON (3rd Gen)	X622	EVC622L
EXPLORER	2011 - 2019 (5th Gen)	X622	EVC622L
F-150	2009 - 2014 (12th Gen - P415)	X622	EVC622L
F-150	2015 - 2020 (13th Gen - P552)	X622	EVC622L
F-150	2021 - ON (14th Gen P702)	X622	EVC622L
F-150 RAPTOR	2017 - 2020 (2nd Gen - P552)	X622LW	EVC622LW
F-150 RAPTOR	2021 - ON (3rd Gen - P702)	X622LW	EVC622LW
F-150 SVT RAPTOR	2010 - 2014 (1st Gen - P415)	X622LW	EVC622LW
F-250	2008 - 2010 (2nd Gen - P356)	N/A	N/A
F-250	2011 - 2016 (3rd Gen - P473)	X622	EVC622L
F-250	2017 - ON (4th Gen - P558)	X622	EVC622L
F-350	2008 - 2010 (2nd Gen - P356)	N/A	N/A
F-350	2011 - 2016 (3rd Gen - P473)	X622	EVC622L
F-350	2017 - ON (4th Gen - P558)	X622	EVC622L
FALCON	2008 - 2014 (FG)	X152	EVC152
FALCON	2014 - 2016 (FG-X)	X152	EVC152
FOCUS	2011 - 2018 (3rd Gen)	X622	EVC622L
FOCUS	2018 - ON (4th Gen)	X622	EVC622L
FUSION	2013 - ON (2nd Gen)	X622	EVC622L
KUGA	2012 - ON (2nd Gen)	X622	EVC622L
MONDEO	2014 - ON (4th Gen)	X622	EVC622L

## Ford

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
MUSTANG	2011 - 2014 (5th Gen)	X622	EVC622L
MUSTANG	2015 - ON (6th Gen)	X622	EVC622L
PUMA	2019 - ON	X622	EVC622L
RANGER	2006 - 2009 (PJ)	X652	EVC652L
RANGER	2009 - 2011 (PK)	X652	EVC652L
RANGER	2011 - 2015 (PX)	X622	EVC622L
RANGER	2015 - 2018 (PX2)	X622	EVC622L
RANGER	2018 - ON (PX3)	X622	EVC622L
RANGER	2018 - ON (Raptor)	X622	EVC622L
S-MAX	2015 - ON (2nd Gen)	X622	EVC622L
TERRITORY	2004 - 2011 (SY)	N/A	N/A
TERRITORY	2011 - ON (SZ)	X152	EVC152
TRANSIT	2013 - ON (4th Gen)	X622	EVC622L

## Foton

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
TUNLAND	2012 - ON	X619B	EVC619B



## Genesis

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
G70	2017 - ON	X607	EVC607L
G80	2016 - ON	X607	EVC607L
G90	2015 - ON	X607	EVC607L
GV80	2020 - ON	X607	EVC607L

## GMC

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ACADIA	2007 - 2017 (1st Gen)	X535	EVC535
ACADIA	2017 - ON (2nd Gen)	X507	EVC507
SIERRA	2007 - 2014 (2nd Gen)	X536	EVC536
SIERRA	2014 - 2018 (3rd Gen)	X536	EVC536
SIERRA	2019 - ON (4th Gen)	X525	EVC525L
TERRAIN	2010 - 2017 (1st Gen)	X535	EVC535
TERRAIN	2017 - ON (2nd Gen)	N/A	N/A
YUKON	2007 - 2014	X536	EVC536
YUKON	2015 - ON	X536	EVC536

## Great Wall

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
CANNON	2020 - ON	X603	EVC603
H2	2014 - ON	X603	EVC603
H3	2006 - 2012	X806	EVC806
H5	2009 - ON	X806	EVC806
H6	2011 - 2017	X603	EVC603
H6	2017 - ON	X603	EVC603
H8	2013 - 2018	X603	EVC603
H9	2014 - ON	X603	EVC603
STEED	2006 - ON	X806	EVC806
V-200	2006 - ON (Diesel)	X806	EVC806
V-240	2006 - ON	N/A	N/A
WINGLE	2006 - ON	X806	EVC806
X-200	2006 - 2012 (Diesel)	X806	EVC806
X-240	2006 - 2012	N/A	N/A

## Haval

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
H2	2014 - ON	X603	EVC603
H3	2006 - 2012	X806	EVC806
H5	2009 - ON	X806	EVC806
H6	2011 - 2017	X603	EVC603
H6	2017 - ON	X603	EVC603
H8	2013 - 2018	X603	EVC603
H9	2014 - ON	X603	EVC603
JOLION	2020 - ON	X603	EVC603

## Hino

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
300 SERIES	2011 - ON (2nd Gen)	X161	EVC161L

## Holden

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ASTRA	1998 - 2005 (TS)	X505	EVC505L
ASTRA	2004 - 2009 (AH)	X505	EVC505L
ASTRA	2015 - 2016 (PJ)	X505	EVC505L
ASTRA	2016 - ON (BK/BL)	X507	EVC507
BARINA	2005 - 2011 (TK)	N/A	N/A
BARINA	2011 - 2018 (TM)	X525	EVC525L
CAPTIVA	2007 - 2018	X537	EVC537
COLORADO	2008 - 2011 (RC - Diesel)	X668	EVC668
COLORADO	2008 - 2011 (RC - V6 Petrol)	X703	EVC703L
COLORADO	2012 - ON (RG)	X505	EVC505L
COLORADO 7	2012 - 2016	X505	EVC505L
COMMODORE	2004 - 2007 (VZ - V6 Petrol)	X703	EVC703L
COMMODORE	2006 - 2013 (VE)	X505	EVC505L
COMMODORE	2013 - 2017 (VF)	X525	EVC525L
COMMODORE	2018 - ON (ZB)	X525	EVC525L
CRUZE	2008 - 2016 (1st Gen)	X505	EVC505L
CRUZE	2017 - ON	X507	EVC507
CRUZE	2017 - ON (2nd Gen)	X537	EVC537
MALIBU	2008 - 2012 (7th Gen)	X505	EVC505L
MALIBU	2012 - 2016 (8th Gen)	X505	EVC505L
RODEO	2007 - 2008 (RA7 - Diesel)	X668	EVC668
RODEO	2007 - 2008 (RA7 - V6 Petrol)	X703	EVC703L
STATESMAN	2006 - 2013 (WM)	X505	EVC505L
STATESMAN	2013 - 2017 (WN)	X525	EVC525L
TIGRA	2002 - 2009	X505	EVC505L
TRAIL BLAZER	2016 - ON	X505	EVC505L

## Honda

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ACCORD	2007 - 2012 (8th Gen)	X701	EVC701
ACCORD	2010 - 2015 (Crosstour)	X701	EVC701
ACCORD	2013 - 2018 (9th Gen)	X112	EVC112
ACCORD	2018 - ON (10th Gen)	X112	EVC112
ADVANCIER	2016 - ON (2nd Gen)	X112	EVC112
CITY	2003 - 2008 (4th Gen)	X711	EVC711
CITY	2008 - 2014 (5th Gen)	X711	EVC711
CITY	2014 - ON (6th Gen)	X112	EVC112
CIVIC	2006 - 2011 (8th Gen)	X701	EVC701
CIVIC	2012 - 2016 (9th Gen)	X711	EVC711
CIVIC	2016 - ON (10th Gen)	X112	EVC112
CRV	2007 - 2011 (3rd Gen)	X701	EVC701
CRV	2012 - 2016 (4th Gen)	X112	EVC112
CRV	2017 - ON (5th Gen)	X112	EVC112
CR-Z	2010 - 2016	X711	EVC711
FIT	2001 - 2008 (1st Gen)	X711	EVC711
FIT	2007 - 2014 (2nd Gen)	X711	EVC711
FIT	2014 - ON (3rd Gen)	X112	EVC112
FREED	2008 - ON	X711	EVC711
HR-V	2013 - ON (RU - 2nd Gen)	X112	EVC112
JADE	2013 - ON	X711	EVC711
JAZZ	2001 - 2008 (1st Gen)	X711	EVC711
JAZZ	2007 - 2014 (2nd Gen)	X711	EVC711
JAZZ	2014 - ON (3rd Gen)	X112	EVC112
ODYSSEY	2008 - 2013 (RB3 - RB4)	X701	EVC701
ODYSSEY	2013 - ON (RC1 - RC2)	X112	EVC112
STREAM	2006 - 2014	X701	EVC701
UR-V	2016 - ON	X112	EVC112
VEZEL	2013 - ON	X115	EVC115

## Hummer

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
H2	2003 - 2010	N/A	N/A
H3	2006 - 2010	N/A	N/A



## Hyundai

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ACCENT	2005 - 2010 (MC)	N/A	N/A
ACCENT	2011 - ON (RB)	X611	EVC611L
AVANTE	2011 - 2015 (Elantra)	X611	EVC611L
AVANTE	2016 - ON (Elantra)	N/A	N/A
AZERA	2012 - 2017 (Granduer)	X608	EVC608
CRETA	2015 - ON	N/A	N/A
ELANTRA	2007 - 2010	X608	EVC608
ELANTRA	2011 - 2015	X611	EVC611L
ELANTRA	2016 - ON	N/A	N/A
ENTOURAGE	2006 - 2009	X610	EVC610
EQUUS	2009 - 2016	X191	EVC191
GENESIS	2009 - 2014	X191	EVC191
GENESIS	2015 - 2016	X607	EVC607L
GENESIS	2016 - ON	X607	EVC607L
GETZ	2006 - 2009	N/A	N/A
H1	2007 - ON	X610	EVC610
i20	2008 - 2014 (PB)	N/A	N/A
i20	2015 - ON (GB)	N/A	N/A
i30	2007 - 2012 (FD)	X610	EVC610
i30	2012 - 2017 (GD)	X611	EVC611L
i30	2017 - ON (PD)	X607	EVC607L
i40	2011 - ON	X608	EVC608
i45	2010 - 2014 (YF)	X611	EVC611L
iLOAD	2007 - ON (Diesel)	X610	EVC610
iMAX	2007 - ON (Diesel)	X610	EVC610
IONIQ	2016 - ON	N/A	N/A
IX25	2015 - ON	X628	EVC628
IX35	2010 - 2015	X608	EVC608
KONA	2017 - ON	X607	EVC607L
PALISADE	2020 - ON	X607	EVC607L

## Hyundai

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
SANTA FE	2007 - 2012 (2nd Gen)	X608	EVC608
SANTA FE	2007 - 2012 (Highlander - 2nd Gen)	X611	EVC611L
SANTA FE	2013 - 2015	X610	EVC610
SANTA FE	2015 - 2018	X611	EVC611L
SANTA FE	2015 - 2018 (Highlander)	X610	EVC610
SANTA FE	2018 - ON (TM - 4th Gen)	X607	EVC607L
SONATA	2005 - 2009 (NF)	N/A	N/A
SONATA	2010 - 2014 (YF)	X608	EVC608
SONATA	2015 - 2019 (LF)	X607	EVC607L
TUCSON	2004 - 2009 (JM)	X608	EVC608
TUCSON	2009 - 2015 (LM)	X608	EVC608
TUCSON	2015 - 2019 (TL)	X607	EVC607L
TUCSON	2020 - ON (NX4)	X607	EVC607L
VELOSTER	2011 - 2018	X611	EVC611L
VELOSTER	2019 - ON	N/A	N/A
VENUE	2020 - ON	X607	EVC607L
VERACRUZ	2007 - 2012	X608	EVC608
VERNA	2011 - ON	X609	EVC609L
STARIA	2021 - ON	X607	EVC607L

## Infiniti

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
FX30D	2010 - ON	X316	EVC316L
FX35/45	2003 - 2008 (S50)	X316	EVC316L
FX35/50	2009 - ON (S51)	X316	EVC316L
G25/35/37	2007 - 2015 (V36)	X316	EVC316L
G35	2002 - 2007 (V35)	X316	EVC316L
M25/37/56	2010 - ON (Y51)	X316	EVC316L
M30D	2010 - 2014	X316	EVC316L
M35/45	2006 - 2010 (Y50)	X316	EVC316L
Q40/50/60	2014 - 2015 (V36)	X316	EVC316L
Q50/60	2014 - ON (V37)	X316	EVC316L
Q70	2013 - ON (Y51)	X316	EVC316L
Q70L	2015 - ON (LWB)	X316	EVC316L
QX56	2004 - 2013	X316	EVC316L
QX70	2013 - ON (S51)	X316	EVC316L
QX80	2014 - ON	N/A	N/A

## Isuzu

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
D-MAX	2004 - 2011 (1st Gen)	X668	EVC668
D-MAX	2012 - 2019 (2nd Gen)	X171	EVC171
D-MAX	2020 - ON (3rd Gen)	X171	EVC171
MU-X	2012 - 2019 (1st Gen)	X171	EVC171
MU-X	2020 - ON (2nd Gen)	X171	EVC171

## Jaguar

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
XE	2015 - ON	X622	EVC622L
XF	2007 - 2015 (X250)	X192	EVC192
XF	2015 - ON (X260)	X622	EVC622L
XJ	2003 - 2007 (X350)	X192	EVC192
XJ	2007 - 2009 (X358)	X192	EVC192
XJ	2010 - ON (X351)	X192	EVC192

## Jeep

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
CHEROKEE	2008 - 2012 (KK)	X124AN	EVC124AN
CHEROKEE	2014 - ON (KL)	X309	EVC309L
COMMANDER	2005 - 2010	X124AN	EVC124AN
COMPASS	2006 - 2016	X304	EVC304
COMPASS	2017 - ON	X508	EVC508L
GLADIATOR	2019 - ON (JT)	X510	EVC508L
GRAND CHEROKEE	2004 - 2010 (WK)	N/A	N/A
GRAND CHEROKEE	2011 - 2021 (WK2)	X124AN	EVC124AN
GRAND CHEROKEE	2021 - ON (WL)	X508	EVC508L
PATRIOT	2007 - 2017	X304	EVC304
RENEGADE	2014 - ON	X508	EVC508L
WRANGLER	2007 - 04/2018 (JK)	X124AN	EVC124AN
WRANGLER	2018 - ON (JL)	X510	EVC508L

## JMC

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
LANDWIND	2012 - ON (X5)	X714	EVC714
LANDWIND	2012 - ON (X8)	X614	EVC614
VIGUS	2012 - ON	X603	EVC603
YUHU	2012 - ON	X603	EVC603

## Kia

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
CADENZA	2009 - 2016 (1st Gen)	X503	EVC503
CADENZA	2016 - ON (2nd Gen)	X503	EVC503
CARENS	2006 - ON (2nd Gen)	X609	EVC609L
CARENS	2013 - ON (3rd Gen)	X609	EVC609L
CARNIVAL	2006 - 2014 (2nd Gen)	X610	EVC610
CARNIVAL	2015 - ON (3rd Gen)	X611	EVC611L
CEED	(3rd Gen)	N/A	N/A
CEED	2006 - 2012 (1st Gen)	X503	EVC503
CEED	2012 - 2018 (2nd Gen - JD)	X611	EVC611L
CERATO	2004 - 2009 (1st Gen)	X610	EVC610
CERATO	2009 - 2013 (2nd Gen)	X611	EVC611L
CERATO	2013 - 2018 (3rd Gen)	X611	EVC611L
CERATO	2019 - ON (4th Gen)	X607	EVC607L
FORTE	2009 - 2013 (1st Gen)	N/A	N/A
FORTE	2014 - 2018 (2nd Gen)	X611	EVC611L
FORTE	2019 - ON (3rd Gen)	N/A	N/A
GRAND CARNIVALE	2005 - 2014 (2nd Gen)	X610	EVC610
GRAND CARNIVALE	2015 - ON (3rd Gen)	X611	EVC611L
K4	2014 - ON	X610	EVC610
OPTIMA	2005 - 2010 (2nd Gen)	N/A	N/A
OPTIMA	2010 - 2015 (3rd Gen)	X503	EVC503
OPTIMA	2015 - 2020 (4th Gen)	X607	EVC607L
PICANTO	2004 - 2011 (SA)	N/A	N/A
PICANTO	2011 - 2017 (TA)	N/A	N/A
PICANTO	2017 - ON (JA)	X607	EVC607L
PROCEED GT	2013 - 2018	X611	EVC611L
RIO	2005 - 2011 (JB)	X503	EVC503
RIO	2011 - 2017 (UB)	X611	EVC611L
RIO	2017 - ON (YB)	X607	EVC607L
SORENTO	2002 - 2009 (1st Gen)	X806	EVC806



## Kia

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
SORENTO	2010 - 2014 (2nd Gen)	X611	EVC611L
SORENTO	2015 - 2020 (3rd Gen)	X607	EVC607L
SORENTO	2018 - 2020 GT	X611	EVC611L
SOUL	2009 - 2013 (1st Gen)	N/A	N/A
SOUL	2014 - ON (2nd Gen)	X502	EVC502
SOUL	2020 - ON (3rd Gen)	X502	EVC502
SPORTAGE	2005 - 2010 (JE/KM)	X503	EVC503
SPORTAGE	2010 - 2015 (SL)	X503	EVC503
SPORTAGE	2015 - 2021 (QL)	X607	EVC607L
SPORTAGE	2021 - ON (NQ5)	X607	EVC607L
STINGER	2017 - ON	X607	EVC607L
STONIC	2017 - ON	X607	EVC607L

## Lancia

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
DELTA	2008 - 2014 (3rd Gen)	X319	EVC319L
MUSA	2004 - 2012	X319	EVC319L
PHEDRA	2002 - 2014	X331	EVC331

## Land Rover

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
DEFENDER	2020 - ON (L663)	X622	EVC622L
DISCOVERY 3	2004 - 2009 (2nd Gen - LR3)	X553	EVC553
DISCOVERY 4	2009 - 2016 (2nd Gen - LR4)	X552	EVC552
DISCOVERY 5	2017 - ON (3rd Gen - L462)	X622	EVC622L
DISCOVERY SPORT	2014 - 2019 (1st Gen)	X622	EVC622L
DISCOVERY SPORT	2019 - ON (2nd Gen)	X622	EVC622L
EVOQUE	2011 - 2013	N/A	N/A
EVOQUE	2014 - ON	X622	EVC622L
FREELANDER	1997 - 2006	N/A	N/A
FREELANDER	2006 - 2014 (2)	X193	EVC193L
RANGE ROVER	2002 - 2012 (3rd Gen)	N/A	N/A
RANGE ROVER	2010 - 2012 (3rd Gen - 4.4L Diesel)	X401	EVC401
RANGE ROVER	2012 - ON (4th Gen)	N/A	N/A
RANGE ROVER SPORT	2005 - 2013 (1st Gen)	X192	EVC192
RANGE ROVER SPORT	2013 - 2015 (2nd Gen)	X192	EVC192
RANGE ROVER SPORT	2015 - ON (3rd Gen)	X622	EVC622L
RANGE ROVER VELAR	2017 - ON (L560)	X622	EVC622L

## LDV

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
D90	2017 - ON	X723	EVC723
DELIVER 9	2019 - ON (V90)	X731	EVC731
G10	2014 - ON	X252	EVC252
T60	2017 - ON	X723	EVC723
V80	2014 - ON	X252	EVC252

## Lexus

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ES240	2006 - 2009	X171	EVC171
ES250	2012 - ON	X171	EVC171
ES300H	2012 - ON	X171	EVC171
ES350	2012 - ON	X171	EVC171
GS	2005 - 2011 (S190)	X161	EVC161L
GS	2011 - ON (L10)	X171	EVC171
GS250	2011 - ON (4th Gen)	X171	EVC171
GS300	2005 - 2011 (GRS190)	X161	EVC161L
GS350	2005 - 2011 (GRS191)	X161	EVC161L
GS350	2011 - ON (GRL10)	X171	EVC171
GS430	2005 - 2011 (UZS190)	X161	EVC161L
GS430	2011 - ON	X171	EVC171
GS450H	2007 - 2011	X161	EVC161L
GS460	2008 - 2011	X161	EVC161L
GX400	2012 - ON	X171	EVC171
GX460	2010 - ON	X171	EVC171
GX470	2003 - 2009	X161	EVC161L
IS220	2005 - ON	X171	EVC171
IS250	2006 - ON	X171	EVC171
IS300	2006 - ON	X171	EVC171
IS350	2005 - ON	X171	EVC171
LM	2019 - ON	X171	EVC171
LS430	2001 - 2006	X721	EVC721
LS460	2007 - ON	X171	EVC171
LX570	2008 - ON	X171	EVC171
NX SERIES	2012 - ON	X171	EVC171
RC350	2014 - ON	X171	EVC171
RX	2003 - 2008 (XU30)	N/A	N/A
RX	2008 - 2015 (AL10)	X171	EVC171
RX	2015 - ON (AL20)	X171	EVC171

## Lexus

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
RX200T	2015 - 2017	X171	EVC171
RX270	2012 - ON	X171	EVC171
RX300	2018 - ON	X171	EVC171
RX330	2004 - 2006	X161	EVC161L
RX350	2004 - 2009	X161	EVC161L
RX350	2010 - ON	X171	EVC171
RX400H	2005 - 2009	X161	EVC161L
RX450H	2010 - ON	X171	EVC171
SC430	2001 - 2010	X721	EVC721

## Lotus

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ELISE	2010 - ON (Series 3)	X505	EVC505L

## Mahindra

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ALTURAS G4	2017 - ON	X610	EVC610
Pik Up	2006 - ON	X319	EVC319L
SCORPIO	2006 - ON	X319	EVC319L
XUV500	2011 - ON	X319	EVC319L



## Maxus

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
D90	2017 - ON	X723	EVC723
DELIVER 9	2019 - ON (V90)	X731	EVC731
G10	2014 - ON	X252	EVC252
T60	2017 - ON	X723	EVC723
V80	2014 - ON	X252	EVC252

## Maybach

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
57	2002 - 2012 (W240)	X451	EVC451
62	2002 - 2012 (V240)	X451	EVC451
57S	2005 - 2012 (W240)	X451	EVC451
62S	2006 - 2012 (V240)	X451	EVC451

## Mazda

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
2	2002 - 2007 (DY)	X601	EVC601L
2	2007 - 2014 (DE)	X606	EVC606
2	2014 - ON (DJ)	N/A	N/A
3	2003 - 2009 (BK)	X602	EVC602L
3	2010 - 2013 (BL - SP25/MPS)	X602	EVC602L
3	2010 - 2013 (BL)	X612	EVC612
3	2013 - 2018 (BM/BN)	X632	EVC632
3	2019 - ON (BP)	X632	EVC632
6	2007 - 2012 (GH)	X702	EVC702
6	2012 - 2016 (GJ)	X632	EVC632
6	2016 - ON (GL)	X632	EVC632
BIANTE	2008 - 2012	X612	EVC612
BIANTE	2013 - 2018 (Sky Active)	X622	EVC622L
BT-50	2006 - 2011 (J97M)	X652	EVC652L
BT-50	2011 - 2019 (UP/UR)	X622	EVC622L
BT-50	2020 - ON (TF)	X171	EVC171
CX-3	2015 - ON	X632	EVC632
CX-30	2019 - ON	X632	EVC632
CX-5	2012 - 2017 (KE)	X632	EVC632
CX-5	2017 - ON (KF)	X632	EVC632
CX-7	2006 - 2012	X606	EVC606
CX-8	2017 - ON	X632	EVC632
CX-9	2006 - 2015 (TB)	X702	EVC702
CX-9	2016 - ON (TC)	X632	EVC632
MPV	2006 - 2016 (LY)	N/A	N/A
MX-5	2005 - 2015 (NC)	X601	EVC601L
MX-5	2015 - 2018 (ND)	X632	EVC632
MX-5	2020 - ON (NE)	X632	EVC632
RX-8	2002 - 2008	X601	EVC601L
RX-8	2008 - 2012	X601	EVC601L

## Mercedes-Benz

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
A180	2012 - 2018 (W176)	X452	EVC452L
A180	2019 - ON (W177)	X463	EVC463
A200	2020 - ON (W177)	X463	EVC463
A250 AMG	2018 - ON (W177)	X463	EVC463
A35 AMG	2019 - ON (W177)	X463	EVC463
A45 AMG	2020 - ON (W177)	X463	EVC463
A-CLASS	2004 - 2011 (W169)	X451	EVC451
A-CLASS	2012 - 2018 (W176)	X452	EVC452L
A-CLASS	2018 - ON (W177)	X463	EVC463
B-CLASS	2005 - 2011 (W245)	X451	EVC451
B-CLASS	2011 - 2018 (W246)	X452	EVC452L
B-CLASS	2018 - ON (W247)	X452	EVC452L
C-CLASS	2000 - 2007 (W203)	X451	EVC451
C-CLASS	2007 - 2014 (W204)	X452	EVC452L
C-CLASS	2014 - ON (W205)	X452	EVC452L
CLA / CLA-45 AMG	2013 - 2019 (1st Gen)	X452	EVC452L
CLA / CLA-45 AMG	2019 - ON (2nd Gen)	X452	EVC452L
CL-CLASS	2000 - 2006 (C215)	X451	EVC451
CL-CLASS	2007 - 2014 (C216)	X451	EVC451
CLK-CLASS	2002 - 2009 (A209/C209)	X451	EVC451
CLK-CLASS	2010 - 2017 (A207/C207)	X452	EVC452L
CLS-CLASS	2004 - 2010 (W219)	X451	EVC451
CLS-CLASS	2010 - 2018 (W218)	X452	EVC452L
CLS-CLASS	2018 - ON (C257)	X452	EVC452L
E-CLASS	2003 - 2009 (W211)	X451	EVC451
E-CLASS	2009 - 2016 (W212)	X452	EVC452L
E-CLASS	2016 - ON (W213/E200)	X452	EVC452L
G-CLASS	2018 - ON (W463)	X452	EVC452L
GLA / GLA-45 AMG	2014 - ON (1st Gen)	X452	EVC452L
GLB-CLASS	2019 - ON (X247)	X463	EVC463

## Mercedes-Benz

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
GL-CLASS	2006 - 2012 (X164)	X451	EVC451
GLK-CLASS	2009 - 2015 (X204)	X452	EVC452L
GLS-CLASS	2013 - ON (X166)	X452	EVC452L
M-CLASS	2000 - 2005 (W163)	X451	EVC451
M-CLASS	2005 - 2011 (W164)	X451	EVC451
M-CLASS	2011 - 2018 (W166)	X452	EVC452L
M-CLASS	2019 - ON (W167)	N/A	N/A
R-CLASS	2006 - 2013 (W251)	X451	EVC451
S-CLASS	1998 - 2005 (W220)	X451	EVC451
S-CLASS	2006 - 2013 (W221)	X451	EVC451
S-CLASS	2014 - ON (W222)	X452	EVC452L
SL-CLASS	2001 - 2011 (R230)	X451	EVC451
SL-CLASS	2012 - ON (R231)	X452	EVC452L
SLK-CLASS	2000 - 2004 (R170)	X451	EVC451
SLK-CLASS	2005 - 2010 (R171)	X451	EVC451
SLK-CLASS	2011 - 2019 (R172)	X452	EVC452L
SLR MCLAREN	2003 - 2010 (C199)	X451	EVC451
SLS-	2011 - 2015 (C197)	X452	EVC452L
SPRINTER	2006 - 2018 (906 - NCV3)	X452	EVC452L
SPRINTER	2019 - ON (907/910 - VS30)	X452	EVC452L
VITO/VIANO	2003 - 2014 (W639)	X452	EVC452L
VITO/VIANO	2015 - ON (W447)	X452	EVC452L
X-CLASS	2018 - ON	X804	EVC804L

## MG

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
3	2011 - ON (2nd Gen)	X715	EVC715
5	2012 - ON	X611	EVC611L
6	2010 - 2017 (1st Gen)	X703	EVC703L
6	2017 - ON (2nd Gen)	X715	EVC715
GS	2019 - ON	X715	EVC715
HS	2019 - ON	N/A	N/A
ZS	2018 - ON	X715	EVC715

## Mini

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
All Models	2000 - ON	X401	EVC401

## Mitsubishi

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
380	2005 - 2008	N/A	N/A
ASX	2010 - ON	X303	EVC303
CHALLENGER	2008 - 2016 (PB)	X301	EVC301L
COLT	2002 - 2013	X301	EVC301L
ECLIPSE CROSS	2017 - ON	X303	EVC303
EXPRESS	2020 - ON (X82)	X801	EVC801
GALANT	2004 - 2012 (9th Gen)	X303	EVC303
GRANDIS	2003 - 2011	X303	EVC303
L200	2005 - 2014	X301	EVC301L
LANCER	2007 - 2017 (7th Gen)	X303	EVC303
LANCER	2017 - ON (8th Gen)	X303	EVC303
LANCER EVOLUTION	2007 - 2017 (EVO-X)	X303	EVC303
MAGNA	2004 - 2005	X806	EVC806
MIRAGE	2012 - 2016 (ES)	X313	EVC313L
MIRAGE	2017 - ON (ES Face Lift)	X313	EVC313L
MONTERO	2006 - ON	X301	EVC301L
OUTLANDER	2006 - 2013 (2nd Gen)	X303	EVC303
OUTLANDER	2013 - 2021 (3rd Gen)	X303	EVC303
OUTLANDER	2021 - ON (4th Gen)	X802	EVC802
PAJERO	2006 - ON (V80)	X301	EVC301L
PAJERO SPORT	2008 - 2016 (PB)	X301	EVC301L
PAJERO SPORT	2015 - ON	X313	EVC313L
RVR	2010 - ON	X303	EVC303
SHOGUN	2006 - ON	X301	EVC301L
STRADA	2007 - 2015	X301	EVC301L
STRADA	2015 - ON	X313	EVC313L
TRITON	2005 - 2010 (ML)	X301	EVC301L
TRITON	2010 - 2015 (MN)	X301	EVC301L
TRITON	2015 - 2019 (MQ)	X313	EVC313L



## Mitsubishi

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
TRITON	2019 - ON (MR)	X313	EVC313L
XPANDER	2017 - ON	X313	EVC313L
DELICA	2012 - 2019 (D5 - 5th Gen)	X303	EVC303

## Nissan

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
MARCH	2001 - 2010 (K12)	X801	EVC801
MARCH	2010 - 2017 (K13)	X801	EVC801
MARCH	2017 - ON (K14)	X801	EVC801
350Z	2003 - 2008 (Z33)	X326	EVC326
370Z	2009 - ON (Z34)	X316	EVC316L
ALMERA	2000 - 2006 (N16)	X801	EVC801
ALMERA	2011 - ON (N17)	X801	EVC801
ALMERA	2019 - ON (N18)	X801	EVC801
ALTIMA	2001 - 2006 (L31)	N/A	N/A
ALTIMA	2006 - 2012 (L32A)	X802	EVC802
ALTIMA	2012 - 2018 (L33)	X802	EVC802
ALTIMA	2019 - ON (L34)	X802	EVC802
DUALIS	2006 - 2013 (J10)	X802	EVC802
ELGRAND	2002 - 2010 (E51)	X326	EVC326
ELGRAND	2010 - ON (E52)	N/A	N/A
FRONTIER	2004 - ON (2nd Gen)	X804	EVC804L
GENISS	2006 - 2013 (L10)	X801	EVC801
GENISS	2013 - 2019 (L11)	X801	EVC801
GT-R	2007 - ON (R35)	X812	EVC812
LANNIA	2015 - ON (U15)	X801	EVC801
LATIO	2012 - 2019	X801	EVC801
LIVINA	2006 - 2013 (L10)	X801	EVC801
LIVINA	2013 - 2019 (L11)	X801	EVC801
LIVINA	2019 - ON (2nd Gen ND - MITS)	X313	EVC313L
MAXIMA	2000 - 2003 (A33B)	X326	EVC326
MAXIMA	2003 - 2008 (A34)	N/A	N/A
MAXIMA	2008 - 2014 (A35)	N/A	N/A
MAXIMA	2015 - ON (A36)	X802	EVC802
MICRA	2001 - 2010 (K12)	X801	EVC801

## Nissan

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
MICRA	2010 - 2017 (K13)	X801	EVC801
MICRA	2017 - ON (K14)	X801	EVC801
MURANO	2002 - 2007 (Z50)	X326	EVC326
MURANO	2009 - 2014 (Z51)	X802	EVC802
MURANO	2015 - ON (Z52)	X802	EVC802
NAVARA	2005 - ON (D40)	X804	EVC804L
NAVARA	2008 - ON (D22 - 2.5L CRD)	X326	EVC326
NAVARA	2014 - ON (D23 / NP300)	X804	EVC804L
NOTE	2004 - 2013 (E11)	X801	EVC801
NOTE	2013 - 2019 (E12)	X801	EVC801
NP300	2014 - ON	X804	EVC804L
NV200	2010 - ON	X801	EVC801
PATHFINDER	2005 - 2012 (R51)	X804	EVC804L
PATHFINDER	2013 - ON (R52)	X801	EVC801
PATROL	2007 - ON (Y61 - 3.0L CRD/GU)	X802	EVC802
PATROL	2010 - 2019 (Y62 - ST-L / TI)	X804	EVC804L
PATROL	2010 - 2019 (Y62 - TI-L / W-Adaptive Cruise)	N/A	N/A
PATROL	2019 - ON (Y62 - Series 5)	X804	EVC804L
PRARIE	1998 - 2004 (M12)	X801	EVC801
PULSAR	2013 - 2017 (B17)	X801	EVC801
PULSAR	2013 - ON (C13)	X801	EVC801
PULSAR	2014 - ON (C14)	X801	EVC801
QASHQAI	2006 - 2013 (J10)	X802	EVC802
QASHQAI	2013 - ON (J11)	X802	EVC802
SENTRA	2000 - 2006 (B15)	X801	EVC801
SENTRA	2007 - 2012 (B16)	X802	EVC802
SENTRA	2013 - ON (B17)	X803	EVC803
SKYLINE	2001 - 2007 (V35)	X326	EVC326
SKYLINE	2006 - 2014 (V36)	X316	EVC316L

## Nissan

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
SKYLINE	2014 - ON (HV37)	N/A	N/A
SUNNY	2000 - 2005 (N16)	X801	EVC801
SUNNY	2011 - ON (N17)	X801	EVC801
SYLPHY	2000 - 2012 (G10/N16)	X802	EVC802
SYLPHY	2005 - ON (G11)	X802	EVC802
SYLPHY	2012 - ON (B17)	N/A	N/A
SYLPHY	2019 - ON (B18)	N/A	N/A
TEANA	2003 - 2008 (J31)	X804	EVC804L
TEANA	2008 - 2013 (J32)	X802	EVC802
TEANA	2013 - ON (L33)	N/A	N/A
TIIDA	2004 - 2012 (C11)	X801	EVC801
TIIDA	2011 - ON (C12)	X801	EVC801
TIIDA	2015 - ON (C13)	X801	EVC801
TITAN	2003 - 2015 (A60)	X553	EVC553
TITAN	2016 - ON (A61)	X804	EVC804L
TITAN XD	2016 - ON (A61)	X804	EVC804L
URVAN	2001 - 2012 (E25)	X801	EVC801
URVAN	2012 - ON (NV350)	N/A	N/A
VERSA	2006 - 2012	X801	EVC801
VERSA NOTE	2013 - 2019 (E12)	X801	EVC801
X - TRAIL	2000 - 2007 (T30)	X326	EVC326
X - TRAIL	2007 - 2013 (T31)	X802	EVC802
X - TRAIL	2013 - ON (T32)	X802	EVC802
XTERRA	2005 - 2015 (N50)	X804	EVC804L
JUKE	2019 - ON (F16 - 2nd Gen)	X801	EVC801

## Opel Vauxhall

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
AGILA	2000 - 2007 (A)	X505	EVC505L
AGILA	2007 - 2014 (B)	X505	EVC505L
ANTARA	2006 - ON	X537	EVC537
ASTRA	2000 - 2004 (G)	X505	EVC505L
ASTRA	2004 - 2009 (H)	X505	EVC505L
ASTRA	2009 - 2015 (J)	X505	EVC505L
ASTRA	2015 - ON (K)	X507	EVC507
CORSA	2000 - 2006 (C)	X505	EVC505L
CORSA	2006 - 2014 (D)	X505	EVC505L
CORSA	2014 - ON (E)	X505	EVC505L
GT	2007 - 2010	N/A	N/A
INSIGNIA	2008 - 2017 (1st Gen)	X505	EVC505L
INSIGNIA	2017 - ON (2nd Gen)	X505	EVC505L
MERIVA	2003 - 2010 (A)	X505	EVC505L
MERIVA	2010 - 2017 (B)	X505	EVC505L
SIGNUM	2003 - 2008	X505	EVC505L
TIGRA	2004 - 2009 (B)	X505	EVC505L
VECTRA	2002 - 2008 (C)	X505	EVC505L
VIVARO	2007 - 2016 (Mk 2)	X331	EVC331
VIVARO	2016 - ON (Mk 3)	N/A	N/A
ZAFIRA	2005 - 2014 (B)	X505	EVC505L
ZAFIRA	2011 - ON (C)	X505	EVC505L

## Peugeot

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
107	2005 - 2014	X331	EVC331
206	2003 - 2006	X321	EVC321
206	2007 - 2008	X331	EVC331
206	2009 - 2013 (+)	X333	EVC333L
207	2006 - 2008	X331	EVC331
207	2009 - ON	X333	EVC333L
208	2012 - 2018 (A9 - 1st Gen)	X333	EVC333L
208	2012 - ON	X333	EVC333L
208	2019 - ON (P21 - 2nd Gen)	X333	EVC333L
307	2003 - 2006	X321	EVC321
307	2006 - 2008	X331	EVC331
308	2007 - 2008	X331	EVC331
308	2009 - ON	X333	EVC333L
407	2004 - 2007	X321	EVC321
407	2008 - ON	X303	EVC303
408	2010 - 2014 (1st Gen)	X333	EVC333L
408	2014 - ON (2nd Gen)	X333	EVC333L
508	2010 - ON	X333	EVC333L
607	2000 - 2010	X333	EVC333L
807	2002 - 2014 (2nd Gen)	X331	EVC331
3008	2008 - ON	X333	EVC333L
5008	2009 - ON	X333	EVC333L
BIPPER	2007 - ON (3rd Gen)	X319	EVC319L
BOXER	2007 - ON (3rd Gen)	X319	EVC319L
EXPERT	2007 - 2016 (2nd Gen - Mk2)	X331	EVC331
EXPERT	2016 - ON (3rd Gen - Mk3)	N/A	N/A
RCZ	2009 - 2015	X333	EVC333L
TRAVELLER	2007 - 2016 (2nd Gen)	X331	EVC331
TRAVELLER	2016 - ON (3rd Gen)	N/A	N/A

## Porsche

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
911 CARRERA	2000 - 2005 (996)	N/A	N/A
911 CARRERA	2005 - ON (997)	X201	EVC201L
911 GT3	2007 - ON (gT3-2)	X201	EVC201L
911 TURBO	2001 - 2005 (996T)	X201	EVC201L
911 TURBO	2007 - ON (997T)	X201	EVC201L
BOXSTER	2000 - 2004 (986)	X201	EVC201L
BOXSTER	2005 - ON (987)	X201	EVC201L
BOXSTER	2012 - 2016 (981)	X201	EVC201L
BOXSTER	2016 - ON (982)	X201	EVC201L
CARRERA GT	2004 - 2006	X201	EVC201L
CAYENNE	2003 - 2010 (1st Gen)	X204	EVC204
CAYENNE	2011 - 2017 (2nd Gen)	X204	EVC204
CAYMAN	2006 - ON (987c)	X201	EVC201L
CAYMAN	2012 - 2016 (981)	X201	EVC201L
CAYMAN	2016 - ON (982)	X201	EVC201L
MACAN	2014 - ON	X201	EVC201L
PANAMERA	2009 - ON (970)	X201	EVC201L
PARRAMELA		X201	EVC201L

## Renault

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
CAPTUR	2013 - ON	X801	EVC801
CLIO	2005 - 2012 (III)	X801	EVC801
CLIO	2012 - 2019 (IV)	X801	EVC801
CLIO	2019 - ON (V)	X801	EVC801
ESPACE	2004 - 2014 (IV)	X801	EVC801
ESPACE	2015 - ON (V)	X801	EVC801
KOLEOS	2007 - 2016 (1st Gen)	X801	EVC801
KOLEOS	2016 - ON (2nd Gen)	X801	EVC801
LAGUNA	2001 - 2007 (II)	X801	EVC801
LAGUNA	2007 - 2015 (III)	X801	EVC801
MEGANE	2002 - 2009 (II)	X801	EVC801
MEGANE	2010 - 2016 (III)	X801	EVC801
MEGANE	2016 - ON (IV)	X801	EVC801
SCENIC	2003 - 2009 (II)	X801	EVC801
SCENIC	2009 - 2016 (III)	X801	EVC801
SCENIC	2016 - ON (IV)	X801	EVC801
TALISMAN	2015 - ON	X801	EVC801
TRAFIC	2020 - ON	X801	EVC801



## Saab

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
All Models	2005 - 2010	X505	EVC505L

## Scion

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
FR-S	2013 - 2016	X211	EVC211L
iA	2013 - ON	X171	EVC171
iM	2012 - ON	X171	EVC171
iQ	2012 - 2015	X171	EVC171
tC	2005 - 2016	X171	EVC171
xD	2008 - 2014	X171	EVC171

## Seat

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ALHAMBRA	2000 - 2010 (1st Gen - Typ 7M)	X152	EVC152
ALHAMBRA	2010 - ON (2nd Gen - Typ 7N)	X201	EVC201L
ALTEA	2004 - 2015	X201	EVC201L
CORDOBA	2002 - 2009 (2nd Gen - Typ 6L)	X152	EVC152
EXEO	2008 - 2013	X152	EVC152
IBIZA	2002 - 2008 (3rd Gen - Typ 6L)	X152	EVC152
IBIZA	2008 - 2017 (4th Gen - Typ 6J)	X152	EVC152
IBIZA	2017 - ON (5th Gen)	N/A	N/A
LEON	1998 - 2005 (1st Gen - Typ 1M)	X152	EVC152
LEON	2005 - 2012 (2nd Gen - Typ 1P)	X201	EVC201L
LEON	2012 - ON (3rd Gen - Typ 5F)	X201	EVC201L
TOLEDO	1998 - 2004 (2nd Gen - Typ 1M)	X152	EVC152
TOLEDO	2004 - 2009 (3rd Gen - Typ 5P)	X201	EVC201L
TOLEDO	2012 - 2018 (4th Gen - Typ NH)	X201	EVC201L

## Skoda

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
FABIA	1999 - 2007 (1st Gen - Typ 6Y)	X152	EVC152
FABIA	2007 - 2014 (2nd Gen - Typ 5J)	X152	EVC152
FABIA	2015 - ON (3rd Gen - Typ NJ)	X201	EVC201L
KAROQ	2017 - ON	X201	EVC201L
KODIAQ	2016 - ON	X201	EVC201L
OCTAVIA	2000 - 2010 (1st Gen - Typ 1U)	X152	EVC152
OCTAVIA	2004 - 2013 (2nd Gen - Typ 1Z)	X201	EVC201L
OCTAVIA	2013 - ON (3rd Gen - Typ 5E)	X201	EVC201L
RAPID	2011 - ON (Spaceback)	X201	EVC201L
RAPID	2012 - ON	X201	EVC201L
SUPERB	2001 - 2008 (B5 - Typ 3U)	X152	EVC152
SUPERB	2008 - 2015 (B6 - Typ 3T)	X201	EVC201L
SUPERB	2015 - ON (B8 - Typ 3V)	X201	EVC201L
YETI	2009 - 2017	X201	EVC201L

## SsangYong

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
MUSSO	2018 - ON (Q200)	X610	EVC610
REXTON	2017 - ON (Y400)	X610	EVC610
RHINO	2018 - ON (Q200)	X610	EVC610
TIVOLI	2019 - ON	X610	EVC610
KORANDO	2010 - 2019 (C200 - 3rd Gen)	X610	EVC610
KORANDO	2019 - ON (C300 - 3rd Gen)	X610	EVC610

## Subaru

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
BRZ	2012 - ON	X211	EVC211L
FORESTER	2002 - 2005 (SG - Series 1)	X501	EVC501L
FORESTER	2005 - 2008 (SG - Series 2)	X551	EVC551
FORESTER	2008 - 2013 (SH)	X551	EVC551
FORESTER	2013 - 2018 (SJ)	X551	EVC551
FORESTER	2019 - ON (SK)	X551	EVC551
IMPREZA	2007 - 2014 (3rd Gen - GE/GV/GH/GR)	X551	EVC551
IMPREZA	2011 - 2016 (4th Gen - GJ/GP/VA)	X551	EVC551
IMPREZA	2016 - ON (5th Gen - GK/GT)	X551	EVC551
LEGACY & OUTBACK	2009 - 2014 (5th Gen - BM/BR)	X551	EVC551
LEGACY & OUTBACK	2014 - 2019 (6th Gen - BN/BS)	X551	EVC551
LEGACY & OUTBACK	2020 - ON (7th Gen - BW/BT)	X551	EVC551
LEGACY & OUTBACK	2003 - 2007 (4th Gen - BL/BP)	X501	EVC501L
LEGACY & OUTBACK	2007 - 2009 (4th Gen - BL/BP)	X551	EVC551
LEVORG	2014 - 2020 (VM)	X551	EVC551
LEVORG	2020 - ON (VN)	X551	EVC551
LIBERTY	2003 - 2009 (4th Gen - BL/BP)	X501	EVC501L
LIBERTY	2009 - 2014 (5th Gen - BM/BR)	X551	EVC551
LIBERTY	2014 - 2019 (6th Gen - BN/BS)	X551	EVC551
LIBERTY	2020 - ON (7th Gen - BW/BT)	X551	EVC551
OUTBACK SPORT	2007 - 2011 (3rd Gen)	X551	EVC551
R1	2005 - 2010	X161	EVC161L
R2	2005 - 2010	X161	EVC161L
SCION FR-S	2012 - 2016	X211	EVC211L
WRX	2007 - 2014 (3rd Gen)	X551	EVC551
WRX	2011 - 2016 (4th Gen)	X551	EVC551
WRX	2016 - ON (5th Gen)	X551	EVC551
XV	2012 - ON	X551	EVC551
XV	2012 - ON (Crosstrek)	X551	EVC551

## Suzuki

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
ALIVIO	2014 - ON	X901	EVC901L
CIAZ	2014 - ON	X901	EVC901L
EQUATOR	2004 - ON	X804	EVC804L
GRAND VITARA	2005 - 2017 (2nd Gen)	X901	EVC901L
GRAND VITARA	2015 - ON (3rd Gen)	X901	EVC901L
IGNIS	2000 - 2008	N/A	N/A
IGNIS	2016 - ON	X931	EVC931
JIMNY	2013 - 2017	N/A	N/A
JIMNY	2018 - ON (4th Gen)	X931	EVC931L
KIZASHI	2009 - 2016	X912	EVC912L
LIANA	2001 - 2007	X905	EVC905
MEHRAN		X931	EVC931
SOLIO	2012 - 2017 (5th Gen)	X901	EVC901L
SOLIO	2017 - ON (6th Gen)	X901	EVC901L
SWIFT	2004 - 2010 (2nd Gen)	X901	EVC901L
SWIFT	2010 - 2017 (3rd Gen)	X901	EVC901L
SWIFT	2017 - ON (4th Gen)	X931	EVC931
SWIFT SPORT	2004 - 2010 (2nd Gen)	X161	EVC161L
SWIFT SPORT	2010 - 2017 (3rd Gen)	X901	EVC901L
SWIFT SPORT	2017 - ON (4th Gen)	X931	EVC931
SX4	2006 - 2014 (1st Gen)	X901	EVC901L
SX4	2013 - ON (2nd Gen)	X901	EVC901L
VITARA	2005 - 2017 (3rd Gen)	X901	EVC901L
VITARA	2015 - ON (4th Gen)	X901	EVC901L

## Tata

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
TL SPRINT	2007 - ON	X319	EVC319L
XENON	2007 - ON (2nd Gen)	X319	EVC319L



## Toyota

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
4RUNNER	2003 - 2009 (N210)	X161	EVC161L
4RUNNER	2009 - ON (N280)	X171	EVC171
86	2012 - ON	X211	EVC211L
ALPHARD	2002 - 2008 (AH10 - 1st Gen)	N/A	N/A
ALPHARD	2008 - 2015 (AH20 - 2nd Gen)	X171	EVC171
ALPHARD	2015 - ON (AH30 - 3rd Gen)	X171	EVC171
ALTIS	2006 - ON	X171	EVC171
AURION	2006 - 2012 (XV40)	X173	EVC171
AURION	2012 - 2019 (XV50)	X173	EVC173L
AURIS	2006 - 2012 (E150)	X171	EVC171
AURIS	2012 - 2018 (E180)	X171	EVC171
AURIS	2018 - ON (E210)	X171	EVC171
AVENSIS	2009 - 2018 (T250)	X171	EVC171
AXIO	2006 - 2013 (E140)	X171	EVC171
AXIO	2012 - 2019 (E160)	X171	EVC171
AYGO	2005 - 2014 (AB10)	X331	EVC331
AYGO	2014 - ON (AB40)	N/A	N/A
BELTA	2006 - 2016	X171	EVC171
BLADE	2006 - 2012 (E150)	X171	EVC171
CAMRY	2001 - 2006 (XV30)	X721	EVC721
CAMRY	2006 - 2012 (XV40)	X171	EVC171
CAMRY	2012 - 2019 (XV50)	X171	EVC171
CAMRY	2017 - ON (XV70)	X171	EVC171
C-HR	2018 - ON	X171	EVC171
COROLLA	2006 - 2013 (E140/E150)	X171	EVC171
COROLLA	2012 - 2019 (E160)	X173	EVC171
COROLLA	2013 - 2019 (E170/E180)	X171	EVC171
COROLLA	2018 - ON (E210)	X171	EVC171
CROWN	2003 - 2008 (S180)	X161	EVC161L
CROWN	2008 - 2012 (S200)	X171	EVC171

## Toyota

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
CROWN	2012 - 2018 (S210)	X173	EVC171
CROWN	2018 - ON (S220)	X171	EVC171
ESTIMA	2006 - ON (XR50)	X171	EVC171
FIELDER	2006 - 2013 (E140)	X171	EVC171
FIELDER	2012 - 2019 (E160)	X171	EVC171
FJ CRUISER	2006 - ON	X161	EVC161L
FORTUNER	2004 - 2015 (AN50/AN60)	X161	EVC161L
FORTUNER	2015 - ON (AN150/AN160)	X173	EVC171
FR-S	2012 - ON	X211	EVC211L
FT86	2012 - ON	X211	EVC211L
GT86	2012 - ON	X211	EVC211L
HARRIER	2013 - ON	X171	EVC171
HIACE	2004 - 2019 (H200)	X161	EVC161L
HIACE	2019 - ON (H300)	X173	EVC171
HIGHLANDER	2007 - 2013 (2nd Gen - XU40)	X171	EVC171
HIGHLANDER	2013 - 2019 (3rd Gen - XU50)	X171	EVC171
HIGHLANDER	2019 - ON (4th Gen - XU70)	X171	EVC171
HILUX	2001 - 2005 (6th Gen)	N/A	N/A
HILUX	2004 - 2015 (7th Gen - N70)	X161	EVC161L
HILUX	2004 - 2015 (Vigo)	X161	EVC161L
HILUX	2015 - ON (8th Gen - N80)	X173	EVC171
HILUX	2015 - ON (Revo)	X173	EVC171
INNOVA	2004 - 2015 (AN40)	X161	EVC161L
INNOVA	2015 - ON (AN140)	X171	EVC171
IST	2007 - 2016 (XP110)	X171	EVC171
KLUGER	2000 - 2007 (1st Gen - XU20)	X161	EVC161L
KLUGER	2007 - 2013 (2nd Gen - XU40)	X171	EVC171
KLUGER	2013 - 2019 (3rd Gen - XU50)	X171	EVC171
KLUGER	2019 - ON (4th Gen - XU70)	X171	EVC171

## Toyota

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
LAND CRUISER	09/2009 - ON (70 Series - VDJ76/78/79)	X171	EVC171
LAND CRUISER	2003 - 2007 (100 Series - V8 Petrol)	X721	EVC721
LAND CRUISER	2007 - 09/2009 (70 Series - VDJ76/78/79)	X161	EVC161L
LAND CRUISER	2007 - 2021 (200 Series)	X171	EVC171
LAND CRUISER	2021 - ON (300 Series)	X171	EVC171
MARK X	2004 - 2009 (X120)	X161	EVC161L
MARK X	2009 - 2019 (X130)	X171	EVC171
MATRIX	2003 - 2008 (E130)	X721	EVC721
MATRIX	2009 - 2014 (E140)	X171	EVC171
NOAH	2014 - ON (R80)	X171	EVC171
PICNIC	2001 - 2009 (XM20)	X721	EVC721
PRADO	2002 - 2009 (J120)	X161	EVC161L
PRADO	2009 - ON (J150)	X171	EVC171
PREVIA	2006 - ON (XR50)	X171	EVC171
PRIUS	2004 - 2009 (XW20)	X161	EVC161L
PRIUS	2010 - 2015 (XW30)	X171	EVC171
PRIUS	2016 - ON (XW50)	X171	EVC171
PROACE	2007 - 2016 (2nd Gen)	X331	EVC331
PROACE	2016 - ON (3rd Gen)	X333	EVC333L
RAV4	2005 - 2016 (XA30)	X173	EVC171
RAV4	2012 - 2018 (XA40)	X171	EVC171
RAV4	2018 - ON (XA50 - inc Hybrid)	X171	EVC171
RUSH	2006 - 2016 (J200/F700)	X171	EVC171
RUSH	2017 - ON (F800)	X171	EVC171
SEQUOIA	2000 - 2007 (1st Gen - XK30/XK40)	N/A	N/A
SEQUOIA	2008 - 2022 (2nd Gen - XK60)	X171	EVC171
SEQUOIA	2022 - ON (3rd Gen - XK80)	X171	EVC171

## Toyota

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
SIENNA	2003 - 2009 (XL20)	N/A	N/A
SIENNA	2010 - ON (XL30)	X171	EVC171
SIENTA	2003 - 2015 (XP80)	N/A	N/A
SIENTA	2015 - ON (XP170)	X171	EVC171
TACOMA	2005 - 2015 (2nd Gen)	X161	EVC161L
TACOMA	2016 - ON (3rd Gen - N300)	X161	EVC161L
TARAGO	2006 - ON (XR50)	X171	EVC171
TUNDRA	2000 - 2006 (XK30/XK40)	X171	EVC171
TUNDRA	2007 - ON (XK50)	X171	EVC171
URBAN CRUISER	2007 - 2016 (XP110)	X171	EVC171
VELLFIRE	2008 - 2015 (2nd Gen - AH20)	X171	EVC171
VELLFIRE	2015 - ON (3rd Gen - AH30)	X171	EVC171
VERSO	2009 - 2018	X171	EVC171
VIOS	2002 - 2007 (XP40)	N/A	N/A
VIOS	2007 - 2013 (XP90)	X171	EVC171
VIOS	2013 - ON (XP150)	X171	EVC171
VITZ	2005 - 2011 (XP90)	X171	EVC171
VITZ	2011 - ON (XP130)	X171	EVC171
WISH	2003 - 2009 (AE10)	X721	EVC721
WISH	2009 - 2017 (AE20)	X171	EVC171
YARIS	2005 - 2013 (XP90)	X171	EVC171
YARIS	2011 - ON (XP130)	X171	EVC171
YARIS	2013 - ON (XP150)	X173	EVC171
RUKUS	2007 - 2015	X171	EVC171

## Volkswagen

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
AMAROK	2010 - ON	X152	EVC152
AMAROK	2016 - ON (V6)	X152	EVC152
ARTEON	2017 - ON	X201	EVC201L
BEETLE	1998 - 2011 (New Beetle)	X152	EVC152
BEETLE	2011 - ON (A5)	X201	EVC201L
BORA	1999 - 2005	X152	EVC152
CADDY	2003 - ON (3rd Gen - Typ 2K)	X201	EVC201L
CC	2008 - 2017	X201	EVC201L
CRAFTER	2006 - 2017	X452	EVC452L
CRAFTER	2017 - ON	X201	EVC201L
EOS	2006 - 2015	X201	EVC201L
GOLF	1997 - 2003 (3rd Gen - Mk4/A3, Typ 1J)	X152	EVC152
GOLF	2003 - 2008 (5th Gen - Mk5/A5, Typ 1K)	X201	EVC201L
GOLF	2003 - ON (GTI)	X201	EVC201L
GOLF	2003 - ON (R)	X201	EVC201L
GOLF	2008 - 2012 (6th Gen - Mk6/A6, Typ 5K)	X201	EVC201L
GOLF	2012 - ON (5th Gen - Mk7/MQB, Typ 5G)	X201	EVC201L
GOLF	2015 - ON (Sportsvan)	X201	EVC201L
GRAN LAVIDA	2013 - 2017	X201	EVC201L
JETTA	2006 - 2011 (A5)	X201	EVC201L
JETTA	2011 - 2018 (A6)	X201	EVC201L
JETTA	2019 - ON (A7)	X201	EVC201L
LAMANDO	2015 - ON	X201	EVC201L
LAVIDA	2008 - 2013 (1st Gen)	X152	EVC152
LAVIDA	2012 - 2017 (2nd Gen)	X201	EVC201L
LAVIDA	2018 - ON (3rd Gen)	X206	EVC206L
LUPO	1998 - 2005	X152	EVC152

## Volkswagen

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
PASSAT	1997 - 2006 (B5/B5.5 - Typ 3B/3BG)	X152	EVC152
PASSAT	2005 - 2015 (B6/B7 - Typ 3C)	X201	EVC201L
PASSAT	2005 - 2015 (CC)	X201	EVC201L
PASSAT	2018 - ON (B8 - Typ 3G)	X201	EVC201L
PHAETON	2002 - 2006 (1st Gen)	X152	EVC152
PHAETON	2007 - ON (2nd Gen)	X201	EVC201L
POLO	2002 - 2009 (4th Gen - Typ 6Q/9N/9N3)	X152	EVC152
POLO	2009 - 2018 (5th Gen - Typ 6R/6C/61)	X152	EVC152
POLO	2015 - 2017 (GTI)	X201	EVC201L
POLO	2018 - ON (6th Gen - Typ AW)	X201	EVC201L
SCIROCCO	2008 - 2017 (3rd Gen)	X201	EVC201L
SCIROCCO	2009 - 2017 (R)	X201	EVC201L
SCIROCCO	2015 - 2017 (GTS)	X201	EVC201L
SHARAN	2000 - 2010 (Mk 1A/1B)	X152	EVC152
SHARAN	2010 - ON (2nd Gen - Typ 7N)	X201	EVC201L
T5	2003 - 2009	N/A	N/A
T5	2009 - 2015	X152	EVC152
T5	2009 - 2015 (Multivan)	X152	EVC152
T6	2015 - ON	X152	EVC152
TIGUAN	2007 - 2017 (1st Gen)	X201	EVC201L
TIGUAN	2016 - ON (2nd Gen)	X201	EVC201L
TOUAREG	2002 - 2010 (1st Gen)	X152	EVC152
TOUAREG	2010 - 2018 (2nd Gen)	X252	EVC252
TOUAREG	2019 - ON (5th Gen)	X207	EVC207L
TOURAN	2003 - 2015 (1st Gen)	X201	EVC201L
TOURAN	2015 - ON (2nd Gen)	X201	EVC201L
TRANSPORTER	2009 - 2015 (T5)	X152	EVC152
TRANSPORTER	2015 - ON (T6)	X152	EVC152

## Volkswagen

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
T-ROC	2017 - ON	X201	EVC201L
T-CROSS	2018 - ON (C11)	X201	EVC201L

## Volvo

MODEL	YEAR & VARIANT	evcX MPN	EVC MPN
C30	2006 - 2013	X602	EVC602L
C70	1999 - 2005 (1st Gen)	X602	EVC602L
C70	2006 - 2013 (2nd Gen)	X602	EVC602L
S40	1999 - 2004 (1st Gen)	X602	EVC602L
S40	2004 - 2012 (2nd Gen)	X602	EVC602L
S60	2000 - 2009 (1st Gen)	X602	EVC602L
S60	2010 - 2018 (2nd Gen)	X602	EVC602L
S60	2019 - ON (3rd Gen)	X632	EVC623
S80	1998 - 2006 (1st Gen)	X602	EVC602L
S80	2006 - 2016 (2nd Gen)	X623	EVC623
V40	1999 - 2004 (1st Gen)	X602	EVC602L
V40	2012 - 2019	X612	EVC612
V40	2013 - ON (Cross Country)	X612	EVC612
V50	2004 - 2012	X602	EVC602L
V70	2000 - 2007 (2nd Gen)	X602	EVC602L
V70	2007 - 2016 (3rd Gen)	X602	EVC602L
XC60	2017 - ON (2nd Gen)	X612	EVC612
XC70	2000 - 2007 (2nd Gen)	N/A	N/A
XC70	2007 - 2016 (3rd Gen)	X623	EVC623
XC90	2015 - ON (2nd Gen)	X612	EVC612



# TROUBLESHOOTING

## THROTTLE CONTROLLER FAQ's

### What is throttle lag?

Modern vehicles are equipped with electronic pedals rather than traditional cable throttles that had a direct physical linkage to the throttle. The cable throttle was more rudimentary but also more efficient, you pushed the pedal and the throttle responded. Any delay was usually due to a slack cable or an out of tune carburettor.

In a modern throttle system (also known as drive-by-wire or fly-by-wire), pedals rely on sensors to measure the action of how far and how fast the driver pushes the pedal, this action creates a torque request which is sent to the Electronic Control Unit (ECU). The ECU then sends this request to the Throttle Position Sensor (TPS) which adjusts the butterfly position and actuates the throttle accordingly.

Throttle lag is the dead spot you feel in top 5-10% of pedal travel where nothing happens. You hit the gas, there is a noticeable hesitation and then the throttle responds. This is an inherent electronic lag that is programmed from factory and which physical input (i.e. stomping your foot harder) cannot overcome.

### Why do cars have throttle lag?

There's a number of reasons why modern cars have throttle lag:

- First of all, compromised drivability. Car manufacturers need to tune their vehicles from factory to suit a range of different drivers and driving styles. The factory tune for a new car is not overly aggressive, it's not overly underwhelming, it kind of just sits in the middle, to try and tailor for the wide variety of potential customers they may have.
- There are also issues along the lines of emissions testing, each manufacturers vehicle must meet strict emissions testing prior to being released. A part of the emissions testing procedure is a snap acceleration smoke test which monitors smoke opacity at different rev ranges, so if a vehicle is producing too many pollutants at a certain RPM, the manufacturer may need to restrict the vehicles performance.
- Manufacturer fuel economy claims. We all know the fuel efficiency claims by car companies are almost impossible to replicate, however somewhere along the line they do have to provide evidence of their figures. If a car manufacturer cannot get decent fuel efficiency figures with a new prototype vehicle or updated model, they may have to restrict the performance of the vehicle to improve fuel efficiency figures. Part of this restriction could potentially be dampening the vehicles factory throttle response.

## How does the EVC & evcX Throttle Controller work?

The EVC & evcX is a throttle response controller that gives you complete control over the responsiveness of your vehicle. The EVC & evcX achieve this by providing new points of reference for your vehicles throttle mapping, either introducing an enhanced or subdued throttle curve depending on what mode/setting you have selected. The controllers connect between your pedal assembly and factory pedal wiring plug, overriding your factory set throttle parameters and providing its own parameters to your vehicle's ECU.

Introducing an enhanced throttle curve (Ultimate Mode) increases your throttle response, bringing the throttle curve in quicker and getting rid of the lag from when you hit the gas and the throttle responds. Ultimate mode 2-3 is perfect for everyday driving, while Ultimate mode 5-8 is great for towing, overtaking, hill climbing, sand driving, charging through a bog hole etc. where you need to stay on the gas and power through.

Introducing a subdued throttle curve (Economy Mode) reduces your throttle response below factory levels and is great for low traction situations where more finesse control over the power applied to the wheels is required, such as rock crawling, water crossings etc. Economy mode 2-3 is perfect for when you need a less aggressive response and don't want to be constantly spinning the wheels.

## Why can't I just push my foot down harder?

Your factory pedal has set parameters, these parameters cannot be overridden by physical input i.e. pushing your foot harder or faster. It doesn't matter how fast you push your foot down, your factory parameters will always deliver the same throttle response.

The only way to alter your throttle response is to electronically override it by adding new sets of throttle parameters with a throttle controller, to get to wide open throttle at a faster rate.

By introducing a sharper throttle curve with, for example, the EVC in Ultimate Mode, you are modifying the torque request that is sent through to the throttle tables in your vehicles ECU, this, in turn, actuates the throttle faster. While throttle controllers don't add top end HP, they do improve acceleration ramp up power which is the amount of accessible power when you plant your foot, from either a stopped start or rolling speed.

Likewise, with, for example, the EVC set to Economy mode you are introducing a duller throttle curve and dampening your throttle response past factory levels. This is also something that your foot cannot replicate as it doesn't matter how lightly you ease the throttle on, you are still guided by your factory set parameters. Without electronically overriding these parameters there is no way for you to physically alter your vehicles throttle response, throttle mapping or throttle actuation.

### **Are Throttle Controller safe to use?**

The EVC & evcX are 100% safe to use.

As part of development, we ensure the controllers cannot override any of a vehicles safety functions or parameters.

We also test the controllers on every new vehicle model to ensure that the model works effectively with any late model vehicle, whether it is a revised, updated model or completely new vehicle release.

Ultimate9 throttle controllers are also backed by a limited lifetime replacement warranty.

### **Will the hrottle Controller impact my new car warranty?**

Throttle controllers, like many aftermarket accessory (bull bars, snorkels, driving lights etc.) do not automatically impact your new car warranty. They will only ever impact your warranty if it is deemed to have caused the issue that you are seeking a warranty on at the time.

At Ultimate9 we back our products 100%, that is why we offer a limited lifetime replacement warranty with every Throttle Controller sold.

### **Can Throttle Controllers be used with other performance products?**

Yes, they can be used with any ECU Tune, Dyno Tune, ECU Remap, Power Chip or ECU Reflash as throttle controllers work on a different internal system and if anything will complement the positive effects of other aftermarket performance modifications.

The benefit of a throttle controller is its adjustability, fine-tuning your throttle response to any driving style or situation. Enabling you to also manually adjust the strength and effectiveness of your other performance accessories.

If your custom tune/chip/remap is great for everyday driving but lacks a bit of punch when towing, you can use our throttle controllers to sharpen your throttle response and compensate for the extra added weight behind your vehicle.

On the flip side, if your tune/chip/remap is too aggressive when driving off-road or in wet conditions, you can use a throttle controller to dampen your throttle response and have more finesse control over the application of power to your wheels.

### **Are Throttle Controller good for towing?**

Towing benefits greatly from our Throttle Controllers, offering the ideal throttle response for just about any Towing situation.

Enhancing your throttle response helps to alleviate low down lag & drag, improving your take off. With a setting like Ultimate Mode, you'll be able to speed more quickly & efficiently - improving the overall driveability of your vehicle whilst towing.

Likewise, subduing your throttle response in Eco Mode conveniently affords you far more control of your throttle, great for low-speed towing manoeuvres where you don't want to jerk or jar the throttle - potentially overcorrecting yourself.

### **Will throttle controllers increase my fuel consumption?**

Fuel consumption largely comes down to how you drive with a throttle controller installed. Generally speaking around 50% of our customers get far greater throttle response with no impact on fuel economy, around 40% get better economy along with far greater throttle response, while a small percentage see slightly worse fuel economy (usually due to a heavier right foot from the extra throttle response!).

The beauty of our throttle controller range is our 30-day money back guarantee, so you have 4 weeks to try it out for yourself risk free and can return the unit if you're not 100% satisfied.

### **Why does my throttle controller interface remain on/turn off?**

The throttle controller utilises power supplied through the vehicle's throttle loom. It is normal for the interface to remain on for some time after engine shuts down, or to power off when the throttle is inactive, such as when using cruise control.

Whilst driving, the interface will power on instantly as the throttle senses driver input and when the engine is shut down it will usually power off within 30 seconds or when the vehicle central locking is activated.

## WARRANTY



Your EVC & evcX Throttle Controllers are backed by a 30 day money back guarantee. If you are not completely satisfied with the results, please return your EVC to the place of purchase within 30 days for a full refund.

Ultimate9 provides to the original purchaser, a limited lifetime replacement warranty against manufacturing faults or defects. Conditions resulting from normal wear & tear, modification, misuse, abuse or incorrect fitment are not covered and will void the warranty. In order to make a claim under this warranty, the purchaser must:

- Return the product to the place of purchase with a valid receipt/invoice or proof of purchase or contact Ultimate9 Customer Service on 03 8740 1170.
- Provide Ultimate9 with any additional information as requested.

The purchaser is responsible for any return freight or fitting/removal costs incurred when making a claim under this warranty unless communicated otherwise by Ultimate9. This warranty is limited to the original purchaser and is not transferable.

*Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.*



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