

# Trust Vauxhall

## Protecting the environment

Vauxhall's commitment to the environment is demonstrated by our products' many environmental awards, won both through the use of more recycled materials and by becoming cleaner and more efficient. For information on Vauxhall's efforts to achieve an environmentally sustainable future, see [www.vauxhall.co.uk/recycling](http://www.vauxhall.co.uk/recycling)

## Fleet Customer Services

Our dedicated support services for fleet managers includes factory demonstrators, a three-day test drive programme and information on whole life costs, company car taxation and finance. For further information please call **0870 010 0651**.

## Buying your car

GMAC offers one of the most comprehensive and competitive ranges of financing plans in the UK. Contact your local Vauxhall retailer for details or call the GMAC customer service centre on **0845 712 3444**.

## Sureguard protection

Sureguard Assistance offers the benefits of Vauxhall Assistance for three years from first registration, while Sureguard Warranty also provides a parts and labour warranty for high-mileage or long-term owners. For details contact your local Vauxhall retailer or call **0870 752 7020**.

## Specialist Mobility advice

Motability accredited Vauxhall retailers can provide special mobility help and advice. Blue badge holders are entitled to very favourable discounts on new vehicles. Contact your local Motability accredited Vauxhall retailer or **Freefone 0800 731 5267**.

## Servicing and maintenance

The best way to maximise the performance and reliability of your Vauxhall is to have all routine servicing and maintenance carried out at one of around 400 Vauxhall retailers. To find your nearest retailer call **0845 600 1500**.

## In the event of an accident...

Vauxhall Accident Support helps keep you mobile following an accident. Benefits include scene-of-accident advice, message service, assistance with claims and vehicle recovery. Call **0800 010 304** for a free driver's pack.

## Vauxhall Insurance

Available for new and used Vauxhalls, a Vauxhall Insurance policy offers a unique package designed specifically for Vauxhall drivers. For a highly competitive quotation, call **0870 024 0240** or visit our website at [www.vauxhall.co.uk](http://www.vauxhall.co.uk)

## For more information...

For a brochure on any Vauxhall model (up to a maximum of three per caller) or location of your nearest Vauxhall retailer please **Lo-call 0845 600 1500**.

Alternatively, details can be found on our website at [www.vauxhall.co.uk](http://www.vauxhall.co.uk)



- Save up to **£2000\*** on a new Vauxhall with The GM Card
- 100 Rebate Points worth **£100** when you use The GM Card for the first time
- Rebate Point saving is on top of any discount or offer negotiated with the Retailer
- Earn 3 Rebate Points (**£3**) for every **£100** you spend

**Typical 14.9% APR variable**

To apply call **0845 746 2777** or visit [www.gmcard.co.uk](http://www.gmcard.co.uk).

For a copy of this brochure in large print, Braille or on audio CD, please call **01908 553053** (Mon - Fri 09.00 - 17.00), or via our textphone service on **18001 08456 785 785**.

The GM Platinum Card is issued by HFC Bank Limited and is available to persons aged 18 years or over and resident in the UK (or 21 and over in the Channel Islands) and is subject to status and conditions. Written quotations are available upon request from The GM Platinum Card, PO Box 3615, Birmingham B3 2RJ. The typical APR quoted is the rate for new customers. \*Rebate Points are earned on purchases using The GM Platinum Card. Rebate Points are not earned on Balance Transfers or Cash Advances. You earn money off a new Vauxhall/Saab by accumulating Rebate Points under the Rebate Points Programme. Vauxhall Motors Ltd is solely responsible for the operation of the Rebate Points Programme, which is subject to the Rebate Points Programme Rules. You can redeem up to 2500 Rebate Points subject to the Model Line Maximum which will vary in amount in relation to different Vauxhall/Saab vehicle model lines and unlimited Partner Points. Rebate Points and unlimited Partner Points are redeemable as discounts on a new Vauxhall/Saab vehicle and must be redeemed four years from the issue date. Rebate Points may not be redeemed by Motability Contract Hire customers. The GM Card is a trading name and style of both HFC Bank Limited and Vauxhall Motors Ltd. HFC Bank registered in England No. 1117305. Registered Office: North Street, Winkfield, Windsor, Berkshire SL4 4TD is authorised and regulated by the Financial Services Authority. Member HSBC Group. HFC Bank Limited is not a member of the same group of companies as Vauxhall Motors Ltd, Saab GB Limited or GMAC(UK) plc. Vauxhall Motors Ltd, Registered Office: Griffin House, Osborne Road, Luton, Bedfordshire LU1 3YT. Registered in England number 135767. - CN6/0987.

Every effort has been made to ensure that the contents of this publication were accurate and up-to-date at the time of going to press (July 2007). Vauxhall vehicles are equipped with components manufactured by various General Motors operating units and outside suppliers. The Company reserves the right to alter specifications and withdraw products from sale without notice. Any such alterations will be notified to Vauxhall retailers at the earliest opportunity; please consult your local retailer for the latest information. The specifications detailed within this brochure are not necessarily applicable to alternative models such as Special Editions. Details of any such models will be contained in specific literature or found on the Vauxhall website. Please note that Vauxhall retailers are not the agents of Vauxhall Motors Limited and are not authorised to bind the Company by any specific or implied undertaking or representation. It is advisable to ensure that your motor insurance policy provides adequate cover for additional fitted options and accessories. As part of Vauxhall's policy of environmental care, this brochure is printed on paper manufactured using Elemental Chlorine Free pulps from specially farmed, sustainable timber resources. All rights reserved. No part of this publication may be reproduced in any form or by any means, without the prior written permission of Vauxhall Motors Limited.

VM0707351 Published August 2007. (BMB/Graymatter) Vauxhall Motors Limited, Luton LU1 3YT



2008 Models Edition 1





# VXR NEW LIMITS

This is extra-sensory stimulation.

Cars with soul and power to make you feel alive, electrified and inspired. A range of driver-focused, performance machines for the road, born on the track.

The VXR Ethos 4

VXRacing 6

Corsa VXR 8

Astra VXR 14

Meriva VXR 20

Zafira VXR 26

Vectra VXR 32

VXR8 40

Colours and trims 46

VXR features and options 48

VXR Performance Centre 49

Technology explained 50



## LIVE THE CHANGE

Advances in automotive technology have diluted the modern driving experience to the point where many of today's 'performance' cars have become soul-less and uncommunicative. You feel like you're not actually driving. You feel like you're being driven; you feel disconnected.

VXR changes all that. VXR is here to reconnect the driver to the road – not with a wire, but with a heartbeat. There's now a range of six VXR models, every one a focused performance machine, the kind you want to be driving if you like to get up in the night for a blast, just for the hell of it. If you are that type of person, then you've got VXR in your blood. You just might not know it yet.



## VXRacing

VXR takes the experience, knowledge and passion gained from racing and crystallises it into a range of high performance road cars.

A VXR driver will have a complete visceral experience with the car. The driver will feel it, see it, hear it. It's that moment the VXR communicates precisely how much grip is left, allowing the driver to balance the car with exact, measured, controlled responses. It takes commitment, expertise and depth of resource to create cars like this and VXR is an important part of GM's global performance family. From HSV in Australia to OPC in Germany, together with consultants Lotus and the Triple Eight racing team, it's a family that has created some of the world's finest driver's cars: the family who go racing – and win.

Over the last five years, the VXRacing team has been hugely successful in the BTCC, winning nine of the ten available driver and manufacturer titles, and clocking up its 100th BTCC win along the way.

For the 2007 Dunlop MSA British Touring Car Championship season, VXRacing unveiled new Vectra race cars with hugely experienced drivers Fabrizio Giovanardi and Tom Chilton in the hot seats. As the season has unfolded, wins at Rockingham, Thruxton and Snetterton have proved their commitment to increase the team's unrivalled championship winning record.

The engineers who develop these cars live, breathe and sleep performance cars. They know how to utilise the latest advances in automotive technology in a way that won't detach the driver from the essential buzz of performance driving. They're the kind of people you want developing your next performance car. Iconic performance and racing cars are part of Vauxhall's heritage and VXR is the latest strand to this DNA.

VXR. The heart and soul of performance.

**THE DEVELOPMENT OF ROAD LEGAL VXR CARS WAS BORN OUT OF THE KNOWLEDGE, EXPERTISE AND SUCCESS WE HAVE GAINED THROUGH THE VXRACING TEAM.**

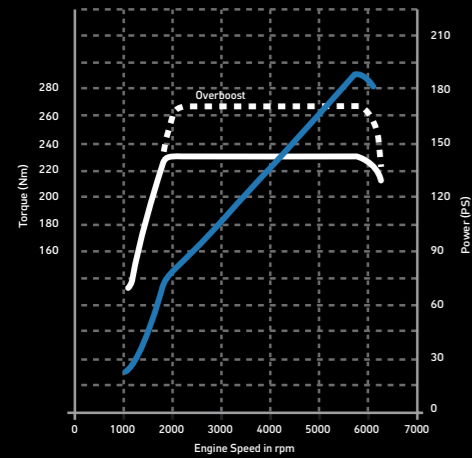
Stuart Harris – VXR brand manager

# CORSA VXR

It's fast. It's fun. It's Corsa VXR. With 192PS and 260+Nm of torque. Or enough to push this lightweight three-door from 0-60mph in 6.8 seconds. Add a lowered and uprated chassis with Electronic Stability Programme, Traction Control and huge disc brakes all round and it clearly means business. Driver focused and spectator friendly. You know the form. Point and shoot.

*18-inch alloy wheels and two-coat pearlescent paint optional at extra cost.*

**RELEASE 192PS**  
**260+NM**



**Corsa VXR specification and equipment highlights:**

**Engine**

1.6i 16v ECOTEC-4 Turbo (1598cc)  
 Maximum power: 192PS (141kW) @ 5850rpm  
 Maximum torque: 230Nm\* (170 lb.ft.) @ 1980-5850rpm  
 Compression ratio: 8.8:1  
 Bore/stroke: 79.0mm x 81.5mm  
 > Turbocharger integrated into exhaust manifold  
 > Intercooler  
 > Sodium-filled exhaust valves

*\*Increased to 260+Nm for five seconds with turbo overboost function.*

**Transmission**

> Six-speed manual gearbox  
 > Gear ratios: 1st – 3.82:1, 2nd – 2.16:1, 3rd – 1.48:1, 4th – 1.07:1, 5th – 0.88:1, 6th – 0.74:1, Final drive – 4.18:1

**Performance** (manufacturer's figures)

> Maximum speed: 140mph  
 > Acceleration 0-60mph: 6.8secs

**Fuel economy and emissions** mpg (litres/100km)

> Urban driving: 26.9 (10.5)  
 > Extra-urban driving: 44.1 (6.4)  
 > Combined figure: 35.8 (7.9)  
 > CO<sub>2</sub> emissions: 190g/km

**Suspension and brakes**

> Lowered and uprated VXR sports suspension **i** see page 51  
 > Switchable Electronic Stability Programme (ESP) including traction control  
 > Front ventilated disc brakes: 308mm diameter **i** see page 50  
 > Rear disc brakes: 264mm diameter **i** see page 50  
 > Front and rear brake calipers in blue

**Wheels and tyres**

> 17-inch Y-design alloy wheels with 215/45 R 17 ultra-low profile tyres  
 > 18-inch V-spoke alloy wheels with anthracite inner and 225/35 R 18 ultra-low profile tyres optional at extra cost (illustrated far right)  
 > Car supplied with emergency tyre inflation kit in lieu of spare wheel

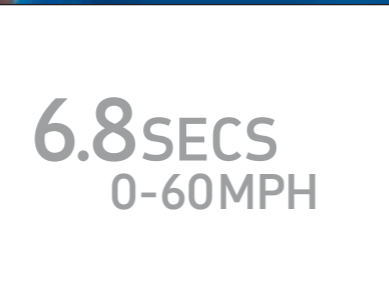
**Exterior features**

> VXR honeycomb sports front grille and air dam/bumper  
 > VXR front fog lights with alloy-effect surround  
 > Unique VXR twin-arm door mirrors  
 > VXR side sills  
 > VXR rear bumper incorporating diffuser  
 > VXR triangular centre exit exhaust tailpipe  
 > VXR rear roof spoiler

**Alloy wheels.** The 17-inch Y-design alloy wheel, is standard on Corsa VXR with 215/45 R 17 ultra-low profile tyres. And if you fancy something a little wilder, how about the optional 18-inch V-spoke with 225/35 R 18 ultra-low profile tyres? Serious performance and visual impact all in one package.



**Design theme.** Corsa VXR's electrically heated door mirrors, front fog light surrounds and centre exit exhaust tailpipe all share a unique triangular design theme.



**6.8SECS**  
**0-60MPH**



**Corsa VXR Engineering**

Whichever way you look at it, Corsa VXR doesn't hang around. The lightweight 1.6 litre turbo puts out 192PS and the software controlled overboost increases max torque to 260+Nm for safer overtaking. No worries in the chassis department either. With lowered sports suspension, bigger brakes and switchable Electronic Stability Programme (ESP) with traction control – it's all designed for rapid, safe progress.

*18-inch alloy wheels and two-coat pearlescent paint optional at extra cost.*

“IT’S FAST, IT’S MEAN AND IT’S READY TO TAKE THE HOT HATCH MARKET BY STORM.”

AUTO EXPRESS – JANUARY 2007



◀ **Recaro seats.** Corsa VXR comes with height-adjustable, ‘shell-backed’ Recaro VXR sports front seats to keep you in place when the going gets a little quick. They provide just the support you need right where you need it. And they look pretty awesome too.



**Interior features**

- > Recaro shell-backed sports front seats with Morrocana-trimmed side bolsters and integral head restraints
- > Driver’s and front passenger’s front, side-impact and curtain airbags
- > Three-spoke flat-bottom leather-covered sports steering wheel with VXR logo
- > Unique VXR instrument panel with stepper motor speedometer and tachometer
- > Unique VXR gear knob
- > Alloy pedals
- > VXR alloy-effect door sill covers
- > CD 30 stereo radio/CD with MP3 format
- > Auxiliary-in socket
- > Remote control security alarm system
- > Air conditioning
- > Cruise control
- > Trip computer

**Insurance group** (ABI recommended)  
> 16D

▲ **VXR fascia.** Think of it as VXR mission control. This is where it all happens if you’re a Corsa VXR driver. Black sports instruments with translucent rings and red highlights. Piano black centre console with quality CD 30 MP3 audio and auxiliary-in socket. Illuminated translucent switches. Cruise control. Trip computer. And you.



◀ **VXR steering wheel.** You don’t stick any old wheel on a car like Corsa VXR. This three-spoke is trimmed in black leather with silver stitching and the audio remote controls in cool piano black panels. It’s flat-bottomed too and has a VXR logo mounted in its own alloy trim. Now that’s worth getting your hands on.



◀ **VXR detailing.** The Corsa VXR interior is packed with VXR-specific details. A leather-trimmed gear knob with VXR logo takes charge of the six-speed gearbox. There are alloy sports pedals, and VXR-logo floor mats and sill plates.

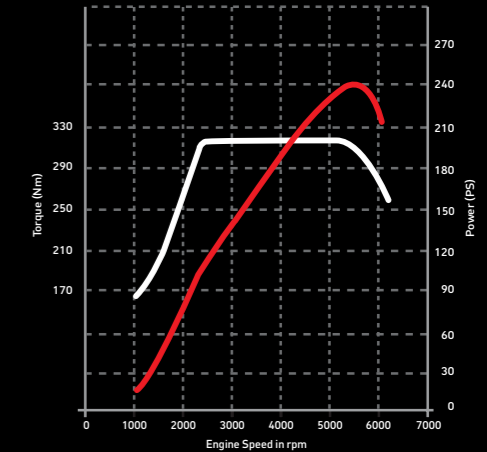


# ASTRA VXR

Let's get straight to the point. No ifs or buts. Astra VXR is Vauxhall's hottest hatch... ever. Think 240PS and 320Nm with 0-60mph in 6.2 seconds. Think 2.0i 16v Turbo, six-speed gearbox and the low, flat ride of a genuine performance car. And on top of all that – drop-dead styling that went straight from concept car to showroom without any compromise. If you've got buttons, Astra VXR will press them. Hard.

*19-inch alloy wheels optional at extra cost.*

## UNLEASH 240PS 320NM





**Astra VXR specification and equipment highlights:****Engine**

2.0i 16v ECOTEC-4 Turbo (1998cc)  
 Maximum power: 240PS (176kW) @ 5600rpm  
 Maximum torque: 320Nm (236 lb.ft.) @ 2400-5000rpm  
 Compression ratio: 8.8:1  
 Bore/stroke: 86.0mm x 86.0mm  
 > Performance inlet and exhaust manifolds  
 > Up-rated turbocharger and fuel injection system

**Transmission**

> Six-speed manual gearbox  
 > Gear ratios: 1st – 3.82:1, 2nd – 2.16:1, 3rd – 1.48:1, 4th – 1.07:1,  
 5th – 0.88:1, 6th – 0.74:1, Final drive – 3.83:1

**Performance** (manufacturer's figures)

> Maximum speed: 152mph  
 > Acceleration 0-60mph: 6.2secs

**Fuel economy and emissions** mpg (litres/100km)

> Urban driving: 21.7 (13.0) > Extra-urban driving: 40.4 (7.0)  
 > Combined figure: 30.7 (9.2) > CO<sub>2</sub> emissions: 221g/km

**Chassis, suspension and brakes**

> Lowered and up-rated VXR sports suspension **i** see page 51  
 > Electronic Stability Programme (ESP)  
 > Front ventilated disc brakes: 321mm diameter **i** see page 50  
 > Rear disc brakes: 278mm diameter **i** see page 50  
 > Front and rear brake calipers in blue  
 > Interactive Driving System (IDS-plus) with continuous damping control optional at extra cost

**Wheels and tyres**

> 18-inch six-spoke alloy wheels with 225/40 R 18 ultra-low profile tyres  
 > 19-inch multi-spoke alloy wheels with anthracite inner and 235/35 R 19 ultra-low profile tyres optional at extra cost  
 > Car supplied with emergency tyre inflation kit in lieu of spare wheel

**Exterior features**

> VXR honeycomb sports front grille and air dam/bumper  
 > VXR front fog lights  
 > Carbon fibre-effect B-pillar trim  
 > VXR roof spoiler  
 > VXR side sills  
 > VXR rear bumper  
 > VXR trapezoidal centre exit exhaust tailpipe  
 – tuned for sound optimisation

6.2SECS  
 0-60MPH



**Alloy wheels.** The 18-inch six-spoke alloy wheel (left) is standard for Astra VXR, with 225/40 R 18 ultra-low profile tyres. The 19-inch multi-spoke alloys with anthracite inner and 235/35 R 19 tyres (illustrated right) are optional at extra cost.

**Unique VXR centre exit exhaust.** The trapezoidal centre exit exhaust tailpipe is tuned for sound optimization.



## Astra VXR Engineering

It looks the part because it is the genuine article. Two stylish alloy wheel designs to choose from fitted with ultra-low profile tyres, huge ventilated brake discs and low sports-tuned suspension. As *Autocar* said "when the VXR bites the tarmac, it draws blood." It just shouts 'racing car' with every glance you take. It's the car you've been waiting for, built for the moments you live for, when it's just you, the road and VXR.

*19-inch alloy wheels, Adaptive Forward Lighting and two-coat pearlescent paint optional at extra cost.*

“IT’S GOT THE LOOKS, AND ITS EXHILARATING WILD SIDE AND SHEER PACE MAKE MOST OF ITS RIVALS FEEL A BIT STEADY IN COMPARISON.”

EVO MAGAZINE – JULY 2007



◀ **Exclusive VXR trim.** Figure-hugging Recaro sports front seats with leather-trimmed side bolsters are only the start. Drive an Astra VXR and you know you’re in something special – the VXR alloy-effect door sill covers are the first clue. The steering wheel, gear knob, instruments, matt chrome-effect door inserts – they’re all special to Astra VXR. But there’s more to it than that. This is a light and spacious personal space, designed to help you focus on the job in hand. Because at the end of the day, driving is what Astra VXR is all about.



#### Interior features

- > Recaro sports front seats with leather-trimmed side bolsters
- > Driver’s and front passenger’s front, side-impact and curtain airbags
- > Three-spoke leather-covered sports steering wheel with VXR logo
- > Unique VXR gear knob
- > Unique VXR instrument panel with stepper motor speedometer and tachometer
- > Active-safety front seat head restraints
- > CD 30 stereo radio/CD with MP3 format
- > Auxiliary-in socket
- > Piano black centre console
- > Matt chrome-effect inserts on doors
- > Trip computer
- > Keyless entry and start
- > Remote control ultrasonic security alarm system
- > Alloy pedals
- > VXR alloy-effect door sill covers
- > Air conditioning

#### Insurance group (ABI recommended)

- > 17E

▲ **Driver information.** Accurate driver information is even more important in a VXR. So the unique Astra VXR instrument panel features an advanced stepper motor speedometer and tachometer, both with unique, high visibility red accents. There’s also a multi-function trip computer – the complete driver information system covering fuel consumption, distance travelled and more. Best of all, it’s all controlled remotely from the steering wheel, as is the standard CD 30 MP3 stereo radio/CD player (or optional CD 70 unit with Sat Nav), with MP3 format. In addition a new auxiliary-in socket means you can play tracks direct from your personal MP3 player.



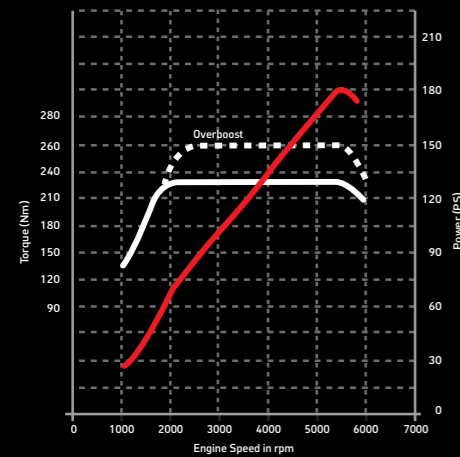
◀ ▲ **VXR detailing.** Astra VXR has a six-speed, close-ratio manual gearbox – with swift changes via a leather-covered gear knob with a special VXR logo. Alloy pedals are also standard adding a further sporting accent to the Astra cockpit.

# MERIVA VXR

Who said serious performance and family-style practicality don't mix? Quite simply, this is the clever and versatile MPV for anyone who loves driving. Check out the unique VXR styling. Lowered and uprated sports suspension. Not to mention the sensational, turbocharged 180PS 1.6i 16v engine. Truth is, you won't find a more rapid car in this class. But then, with Meriva VXR, that's only half the story.

*Two-coat pearlescent paint optional at extra cost.*

**DISCOVER 180PS**  
**260Nm**



**Meriva VXR specification and equipment highlights:****Engine**

- 1.6i 16v ECOTEC-4 Turbo (1598cc)  
 Max. power: 180PS (132kW) @ 5500rpm  
 Max. torque: 230Nm\* (170 lb.ft.) @ 2200-5500rpm  
 Compression ratio: 8.8:1  
 Bore/stroke: 79.0mm x 81.5mm  
 > Turbocharger integrated into exhaust manifold  
 > Intercooler  
 > Sodium-filled exhaust valves

*\*Increased to 260Nm for five seconds with turbo overboost function.*

**Transmission**

- > Six-speed manual gearbox  
 > Gear ratios: 1st – 3.50:1, 2nd – 2.16:1, 3rd – 1.48:1, 4th – 1.07:1,  
 5th – 0.88:1, 6th – 0.74:1, Final drive – 3.94:1

**Performance** (manufacturer's figures)

- > Maximum speed: 137mph  
 > Acceleration 0-60mph: 7.9secs

**Fuel economy and emissions** mpg (litres/100km)

- > Urban driving: 27.2 (10.4) > Extra-urban driving: 44.8 (6.3)  
 > Combined figure: 36.2 (7.8) > CO<sub>2</sub> emissions: 187g/km

**Suspension and brakes**

- > Lowered and uprated VXR sports suspension **i** see page 51  
 > Electronic Stability Programme (ESP) including traction control  
 > Front ventilated disc brakes: 308mm diameter **i** see page 50  
 > Rear disc brakes: 264mm diameter **i** see page 50  
 > Front and rear brake calipers in blue

**Wheels and tyres**

- > 17-inch six-spoke alloy wheels  
 > 205/45 R 17 ultra-low profile tyres  
 > Car supplied with emergency tyre inflation kit in lieu of spare wheel

**Exterior features**

- > VXR honeycomb sports front grille and air dam/bumper  
 > VXR fog lights  
 > VXR side sills  
 > VXR roof spoiler  
 > VXR rear bumper and rear skirt  
 > Unique VXR exhaust tailpipe  
 > Dark-tinted glass (excludes windscreen and front door windows)

7.9SECS  
0-60MPH



▲ ▼ **VXR styling.** You're never going to mistake the Meriva VXR for something less dynamic. The 17-inch six-spoke alloy wheels are the first clue. Then there's the honeycomb sports front grille, the front air dam/bumper and the side sills. And at the rear, the roof spoiler, rear skirt and unique VXR exhaust tailpipe.



## Meriva VXR Engineering

As a turbo powered, compact family-friendly MPV, Meriva VXR is a very special car. With its turbocharger overboost function, the 180PS 1.6i 16v engine can increase peak torque to 260Nm for up to five seconds, just when you need it most. But when you're revelling in the support of those Recaro seats and the responsiveness of that lowered sports chassis, those five-second bursts may happen more frequently than you anticipate. Meriva VXR. It only deals in ultimates.

*Two-coat pearlescent paint optional at extra cost.*

“POINTLESS? ON THE CONTRARY, I FOUND THE JUXTAPOSITION OF MPV LOOKS AND HOT-HATCHBACK DYNAMICS RIOTOUSLY ENTERTAINING. IT MIGHT BE AN UNLIKELY IDEA, BUT IT’S A HECK OF A GOOD ONE.”

THE INDEPENDENT – FEBRUARY 2006



◀ **Maximum comfort.** If you're relaxed at the wheel, you can concentrate on the road ahead. The Recaro sports front seats with leather-trimmed side bolsters not only hold you in, they help you stay comfortable, with both height and lumbar adjustment. The steering column is tiltable too.



#### Interior features

- > Recaro sports front seats with leather-trimmed side bolsters and lumbar adjustment
- > Front, side and curtain airbags
- > Three-spoke leather-covered sports steering wheel with VXR logo
- > Unique VXR instrument panel with red-coloured speedometer and tachometer needles
- > VXR leather-covered gear knob
- > VXR alloy-effect door sill covers
- > Air conditioning
- > CD 30 stereo radio/CD with MP3 format
- > Auxiliary-in socket
- > VXR carbon fibre-effect inserts on facia and doors
- > Active-safety front seat head restraints
- > Remote control ultrasonic security alarm system
- > Cruise control

#### Insurance group (ABI recommended)

- > 12E

▲ **Maximum control.** As you'd expect, Meriva VXR comes with something special on the facia and centre console. Like the VXR instrument panel with red speedo and tacho needles, standard air conditioning and cruise control. Bluetooth® mobile phone technology with voice activation is also available.

**Maximum sounds.** The CD 30 MP3 stereo radio/CD player (and the optional CD 70 unit with satellite navigation), feature MP3 format, either from CD or direct from your personal MP3 player via a new auxiliary-in socket.



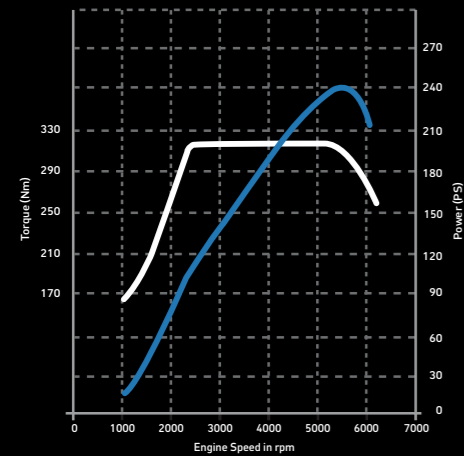
◀ ▲ **Maximum detailing.** Every Meriva VXR features a three-spoke, leather-covered VXR sports steering wheel with VXR logo, leather-covered gear knob, VXR alloy-effect door sill covers and unique carbon fibre-effect inserts on the facia and doors.

# ZAFIRA VXR

Having a family didn't stop you having a life. You still ride, play, ski or whatever it is that sets you free. And you still want to drive, not just travel. What you need is a seven-seat performance car. Cue Zafira VXR. Same compact MPV format. But a whole new shape. And a whole new attitude. No other MPV looks this good. And no surprise, this is one of the quickest production MPVs ever made. Enough said?

*19-inch alloy wheels, Adaptive Forward Lighting and two-coat pearlescent paint optional at extra cost.*

**EXPLORE 240PS  
320Nm**





## Zafira VXR Engineering

Excuses. A word that doesn't figure in the Zafira VXR vocabulary. Make no mistake, this VXR features all the innovation you've come to expect from a Zafira with added testosterone. Like serious style, a six-speed gearbox, 18-inch alloy wheels and lowered sports suspension. Then there's that 2.0i 16v turbocharged engine. The same 240PS, 320Nm unit that you'll find in Astra VXR. Vauxhall's hottest ever hot hatch. The Zafira VXR. Expect no excuses.

*Two-coat pearlescent paint optional at extra cost.*

### Zafira VXR specification and equipment highlights:

#### Engine

- 2.0i 16v ECOTEC-4 Turbo (1998cc)
- Maximum power: 240PS (176kW) @ 5600rpm
- Maximum torque: 320Nm (236 lb.ft.) @ 2400-5000rpm
- Compression ratio: 8.8:1
- Bore/stroke: 86.0mm x 86.0mm
- > Up-rated turbocharger and fuel injection system
- > Performance inlet and exhaust manifolds

#### Transmission

- > Six-speed manual gearbox
- > Gear ratios: 1st – 3.82:1, 2nd – 2.16:1, 3rd – 1.48:1, 4th – 1.07:1, 5th – 0.88:1, 6th – 0.74:1, Final drive – 3.94:1

#### Performance (manufacturer's figures)

- > Maximum speed: 144mph
- > Acceleration 0-60mph: 7.2secs

#### Fuel economy and emissions mpg (litres/100km)

- > Urban driving: 21.1 (13.4)    > Extra-urban driving: 38.2 (7.4)
- > Combined figure: 29.4 (9.6)    > CO<sub>2</sub> emissions: 230g/km

#### Chassis, suspension and brakes

- > Lowered and up-rated VXR sports suspension **▶ see page 51**
- > Electronic Stability Programme (ESP)
- > Interactive Driving System<sup>2</sup>-plus (IDS<sup>2</sup>-plus) with Continuous Damping Control (CDC) **▶ see page 50**
- > Front ventilated disc brakes: 321mm diameter **▶ see page 50**
- > Rear disc brakes: 278mm diameter **▶ see page 50**
- > Front and rear brake calipers in blue

#### Wheels and tyres

- > 18-inch six-spoke alloy wheels with 225/40 R 18 ultra-low profile tyres (illustrated left)
- > 19-inch multi-spoke alloy wheels with anthracite inner and 235/35 R 19 ultra-low profile tyres optional at extra cost (illustrated right)
- > Car supplied with emergency tyre inflation kit in lieu of spare wheel

### Exterior features

- > VXR honeycomb sports front grille and air dam/bumper
- > VXR front fog lights
- > VXR side sills and rear bumper
- > VXR dual branch chrome trapezoidal exhaust tailpipes – tuned for sound optimisation
- > VXR rear roof spoiler

**7.2 SECS**  
0-60MPH



**▶ Alloy wheels.** The Zafira VXR 18-inch six-spoke alloy wheels with 225/40 R 18 ultra-low profile tyres combine awesome good looks with serious grip. 19-inch multi-spoke alloys with anthracite inner and 235/35 R 19 ultra-low profile tyres are optional at extra cost (shown left).

**▶ Front fog lights.** They're standard on every Zafira VXR, fitted snugly into the special VXR front air dam/bumper. The honeycomb sports front grille, side sills, rear bumper and roof spoiler are more VXR-specific styling features.



**Interior features**

- > Recaro sports front seats with leather-trimmed side bolsters
- > Driver's and front passenger's front and side-impact airbags
- > Curtain airbags for front and second-row seating
- > Three-spoke leather-covered sports steering wheel with VXR logo
- > Unique VXR instrument panel with stepper motor speedometer and tachometer
- > Unique VXR gear knob and floor mats
- > Active-safety front seat head restraints
- > Air conditioning
- > CD 30 stereo radio/CD with MP3 format
- > Auxiliary-in socket
- > VXR carbon fibre-effect inserts on fascia and doors
- > Trip computer
- > Keyless entry and start
- > VXR alloy-effect door sill covers
- > Alloy pedals
- > Remote control ultrasonic security alarm system

**Insurance group** (ABI recommended)

- > 15E



▶ **Flex7® seating.** With Zafira's innovative Flex7® seating system, you can transform your VXR from a two-seater, high capacity carry-all into a spacious, seven-seater people carrier – and back – in seconds. When you're not using the third row seats, they can be folded flush with the load floor. So there's no need to remove them completely to free up luggage space. Both seats also fold separately, so you can accommodate six occupants plus a large item of luggage.



◀ ▶ **VXR features.** The Zafira VXR interior provides plenty of reminders that you're at the wheel of one of the hottest MPVs around. There's alloy pedals and carbon fibre-effect fascia and door inserts, unique VXR gear knob, floor mats and alloy-effect door sill covers, and a leather-covered VXR sports steering wheel.



“VAUXHALL PIONEERED THE FAST MPV CONCEPT WITH THE LAST ZAFIRA GSI; THIS SECOND-GENERATION TEARAWAY FOR THE FAMILY MAN MOVES THE GAME ON CONSIDERABLY.”

AUTOCAR – SEPTEMBER 2005

▶ **VXR comfort.** Zafira VXR adds a huge dose of driver excitement – without losing one ounce of what makes Zafira such a brilliant people carrier. It's light and spacious, comfortable and clever – whether you're in the multi-adjustable Recaro sports front seats or the hugely versatile rear ones.



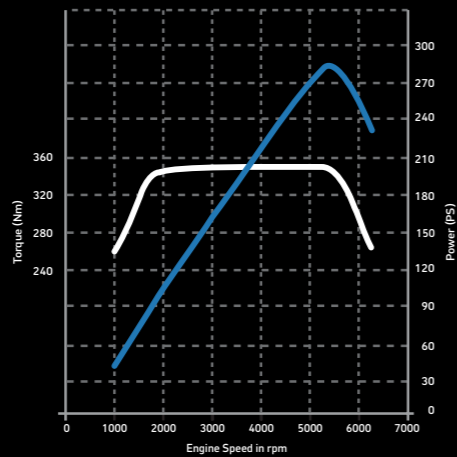


# VECTRA VXR

Unique VXR body styling... powerful 280PS 2.8i V6 24v Turbo engine... 0-60 in just 6.1 seconds (hatchback)... dual-processor Continuous Damping Control. Few other mid-range five-seat hatchbacks, or estates for that matter, have such stunning performance credentials. But then Vectra VXR is not about following convention. Put simply, it's the best Vectra yet!

*Adaptive Forward Lighting and two-coat pearlescent paint optional at extra cost.*

**EXPERIENCE 280PS  
355Nm**





## VECTRA VXR

There's no doubting the Vectra VXR's looks. But let's get under the skin. The 2.8i V6 comes with variable valve timing and a twin-scroll turbo for lightning response and heavyweight torque. 355Nm maximum – enough to propel this VXR from 50 to 70mph in around 7.6 seconds – in fifth gear. Instant punch, always there when you need it most.

*19-inch alloy wheels and two-coat pearlescent paint optional at extra cost.*

ENCOUNTER 50-70MPH  
**7.6 SECS** IN FIFTH GEAR

**Vectra VXR specification and equipment highlights:**

**Engine**

2.8i 24v ECOTEC-V6 Turbo (2792cc)  
 Maximum power: 280PS (206kW) @ 5300rpm  
 Maximum torque: 355Nm (262 lb.ft.) @ 2000-5300rpm  
 Compression ratio: 9.5:1  
 Bore/stroke: 89.0mm x 74.8mm  
 > Twin-scroll turbocharger  
 > Variable valve timing

**Transmission**

> Six-speed manual gearbox  
 > Gear ratios: 1st – 3.77:1, 2nd – 2.04:1, 3rd – 1.37:1, 4th – 1.05:1,  
 5th – 0.85:1, 6th – 0.71:1, Final drive – 3.55:1

**Performance** (manufacturer's figures)

Maximum speed: > Hatchback: 161mph > Estate: 158mph  
 Acceleration 0-60mph: > Hatchback: 6.1secs > Estate: 6.3secs

**Fuel economy and emissions** mpg (litres/100km)

	Hatchback	Estate
> Urban driving:	18.2 (15.5)	18.1 (15.6)
> Extra-urban driving:	38.2 (7.4)	37.7 (7.5)
> Combined figure:	27.2 (10.4)	26.9 (10.5)
> CO <sub>2</sub> emissions: g/km	250	252

**Chassis, suspension and brakes**

> Electronic Stability Programme-plus (ESP-plus)  
 > Lowered and uprated VXR sports suspension **i** see page 51  
 > Interactive Driving System<sup>2</sup>-plus (IDS<sup>2</sup>-plus) with  
 Continuous Damping Control (CDC) **i** see page 50  
 > Front ventilated disc brakes: 345mm diameter **i** see page 50  
 > Rear ventilated disc brakes: 292mm diameter **i** see page 50  
 > Front and rear brake calipers in blue

**Wheels and tyres**

> 18-inch six-spoke alloy wheels with 235/40 R 18 ultra-low profile tyres  
 > 19-inch multi-spoke alloy wheels with anthracite inner and 235/35 R 19  
 ultra-low profile tyres optional at extra cost (illustrated far right)  
 > Car supplied with emergency tyre inflation kit in lieu of spare wheel

**Exterior features**

> VXR honeycomb sports front grille and air dam/bumper > VXR side sills  
 > VXR rear bumper and rear skirt > VXR front fog lights  
 > VXR rear lip spoiler (hatchback) > VXR rear roof spoiler (estate)  
 > VXR dual branch chrome trapezoidal exhaust tailpipes  
 – tuned for sound optimisation  
 > Xenon headlights with dynamic beam levelling and high-pressure  
 headlight washers  
 > Rain-sensitive windscreen wipers

MAX POWER  
 280PS



**Body styling.** The Vectra VXR body styling package includes a rear lip spoiler for hatchback models, or a rear roof spoiler for the highly versatile estate. A VXR-specific honeycomb front grille, air dam/bumper, side sills, rear bumper and rear skirt complete the high-impact look.

**Alloy wheels.** Serious wheel and tyre combinations are a VXR speciality. Vectra VXR comes with 18-inch six-spoke alloys and high-grip 235/40 R 18 ultra-low profile tyres as standard. Want to go bigger? Try the 19-inch multi-spoke with 235/35 R 19 ultra-low profile tyres (illustrated far right).



**Vectra VXR Engineering**

2.8i V6 turbo power, lowered sports suspension and dual-processor controlled continuous damping are all part of Vectra VXR's DNA. But it's not all about performance. Look inside – Recaro sports front seats, leather trimming, automatic air conditioning, DAB radio and a six-disc autochanger. And in the estate, class-leading luggage space, too. Serious power, composure, confidence and comfort – Vectra VXR has got a lot to say. You've just got to learn the language.

*19-inch alloy wheels, Adaptive Forward Lighting and two-coat pearlescent paint optional at extra cost.*

“THE VXR REALLY DELIVERS. IT’S AN EXPLOITABLE, COMPOSED AND EXCITING CAR TO HANDLE”

EVO – APRIL 2006



◀ **Sporting control.** Every Vectra puts you in total control, but Vectra VXR adds a little more style, and some special features too. There’s a leather-covered sports steering wheel, unique instruments and automatic air conditioning. And the advanced CDC 40 audio combines a DAB radio with a six-disc CD autochanger.

*CD 70 stereo radio/CD player with sat nav system optional at extra cost.*



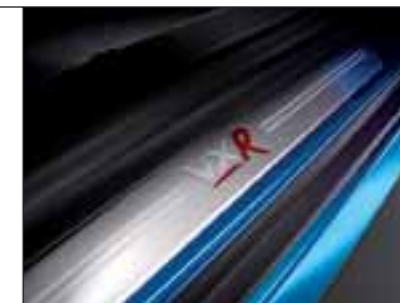
#### Interior features

- > Recaro sports front seats with leather-trimmed side bolsters and lumbar adjustment
- > Driver’s and front passenger’s front, side-impact and curtain airbags
- > Three-spoke leather-covered sports steering wheel with VXR logo
- > Unique VXR instrument panel with red-coloured speedometer and tachometer needles
- > VXR floor mats
- > VXR leather-covered gear knob
- > VXR alloy-effect door sill covers
- > CDC 40 stereo radio with Digital Audio Broadcast (DAB)/integral six-disc CD autochanger/graphic information display (35 watts per channel)
- > Automatic Lighting Control (ALC)
- > Automatic air conditioning
- > Cruise control
- > Trip computer
- > Remote control ultrasonic security alarm system

#### Insurance group (ABI recommended)

- > 18E

▲ **Sporting comfort.** How do you mix executive refinement with a genuine sports driving experience? Here’s the object lesson. Vectra VXR sits the driver and front passenger in Recaro sports seats. The driver’s seat has both height and lumbar adjustment which, along with Vectra’s reach and rake adjustable steering column, helps ensure you find the perfect seating position. Yet serious support from the leather-trimmed side bolsters keeps you in place when the fun starts.



◀ ▲ **Sporting details.** As with all VXR models, Vectra VXR hatchback and estate feature the unique leather-covered VXR gear knob. The VXR-logo floor mats and alloy-effect door sill covers are also standard.

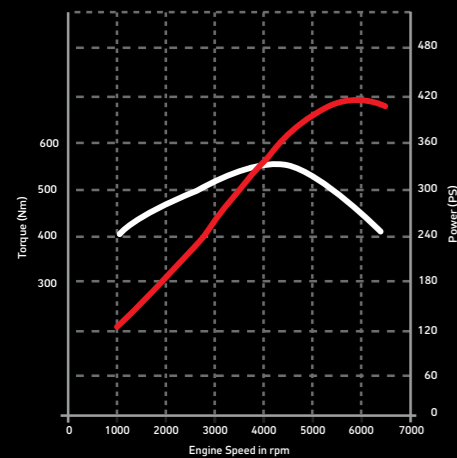


# VXR8

This is what you get when you start with a blank canvas. And a mission statement to redefine world-class performance saloon design. The all-new Vauxhall VXR8. A thundering 417PS, 6.0 litre V8 motor rockets it to 60mph in just 4.9 seconds\* Monstrous disc brakes can stop it from the same speed in just 36 metres. And giant alloy wheels hide multi-link independent rear suspension controlled by the best in electronic active safety chassis control. Welcome to a totally new animal. The four-door muscle car. From Vauxhall.

*\*Manual transmission model.*

**EXPLOIT 417PS**  
**550Nm**





## VXR8 Engineering

There's something about a V8 – the growl, the rush of adrenaline, the epic power and torque. And the all-new LS2 6.0 litre Generation 4 motor is not your ordinary V8, either. Read the data. An almighty 417PS @ 6000rpm. 550Nm of torque @ 4400rpm. Solid state direct fire ignition, with a high energy coil for every single cylinder. Tubular 4 into 2 into 1 extractor exhausts. And a grin from ear to ear every time you fire it up.

### VXR8 specification and equipment highlights:

#### Engine

- 6.0 GEN4 LS2 V8 petrol (5967cc)
- Maximum power: 417PS (307kW) @ 6000rpm
- Maximum torque: 550Nm (405 lb.ft.) @ 4400rpm
- Compression ratio: 10.9:1
- Bore/stroke: 101.6mm x 92.0mm
- > Aluminium alloy cylinder block and cylinder heads
- > Cast steel roller rocker arms, roller cam followers
- > Cross-bolted five main bearings with six bolts per bearing cap
- > Large bore stainless steel 63mm exhaust system with quad exit high-flow alloy sports tailpipes

#### Transmission

- > Limited-slip differential
- > Six-speed manual gearbox
- > Gear ratios (manual): 1st – 3.01:1, 2nd – 2.07:1, 3rd – 1.43:1, 4th – 1.00:1, 5th – 0.84:1, 6th – 0.57:1, Final drive – 3.70:1
- > Six-speed automatic transmission optional at extra cost
- > Gear ratios (auto): 1st – 4.03:1, 2nd – 2.36:1, 3rd – 1.53:1, 4th – 1.15:1, 5th – 0.85:1, 6th – 0.67:1, Final drive – 3.27:1

#### Performance (manufacturer's figures)

- > Acceleration 0-60mph: 4.9secs (manual), 5.0secs (automatic)

#### Fuel economy and emissions mpg (litres/100km)

	Manual	Automatic
> Urban driving:	12.4 (22.8)	13.7 (20.6)
> Extra-urban driving:	25.9 (10.9)	26.6 (10.6)
> Combined figure:	18.5 (15.3)	19.9 (14.2)
> CO <sub>2</sub> emissions: g/km	365	339

#### Wheels and tyres

- > 19-inch ten-spoke alloy wheels
- > Specially developed Bridgestone tyres
- > 245/40 R 19 ultra-low profile front tyres
- > 275/35 R 19 ultra-low profile rear tyres
- > Full-size spare wheel with 245/40 R 19 ultra-low profile tyre

### Chassis, suspension and brakes

- > Variable-ratio power-assisted rack and pinion steering
- > MacPherson strut front suspension with progressive-rate front springs and anti-roll bar **▶ see page 51**
- > Fully independent multi-link rear suspension with progressive-rate springs and matched damper calibration **▶ see page 51**
- > Electronic Stability Programme (ESP)
- > Front ventilated disc brakes: 365mm diameter **▶ see page 50**
- > Rear ventilated disc brakes: 350mm diameter **▶ see page 50**
- > Front and rear brake calipers in red with VXR logo

### Exterior features

- > Sports grille and wide lower air intake
- > Dark-style LED 'afterburner' tail lights
- > Aero-style vented front wings
- > Twin-post rear spoiler
- > Projector headlights and front fog lights
- > Rear bumper incorporating twin diffusers



**◀ ▶ Racing style.** From any angle, VXR8 looks awesome – aerodynamic and aggressive – with unique side venting, a deeply sculpted front air dam and a twin-post sports rear spoiler. The deep dish alloy wheels – 19x8" at the front and 19x9.5" rear – are fitted with specially developed Bridgestone tyres.

0-60MPH  
**4.9 SECS\***

\*Manual transmission model.





◀ **Performance facia.** The VXR8 steering wheel means business – leather-covered and flat-bottomed with perforated grip zones and remote audio controls. The steering column is reach and rake adjustable too. Other features include alloy pedals, cruise control and dual zone Electronic Climate Control (ECC).

“...BY ANY MEASURE THE VXR8 IS A BRILLIANT SUPER-SALOON.”

*AUTOCAR – 16 MAY 2007*



▶ **Performance seats.** VXR8's performance front seats have eight-way electrical adjustment plus lumbar support adjustment. Trimmed in Dakar leather trim with suede highlights, they also feature ergonomically enhanced side bolsters contoured for greater comfort and lateral support.



#### Interior features

- > Electronic climate control with variable side-to-side temperature settings
- > Electrically adjustable leather-covered sports front seats
- > Multi-function display panel
- > Aluminium pedals
- > Leather-covered flat-bottom sports steering wheel
- > Auxiliary gauges displaying oil temperature, oil pressure and battery voltage

#### Exterior dimensions mm (inches)

- > Length 4941 (194.5)
- > Height 1468 (57.8)
- > Width including mirrors 2174 (85.6)

#### Insurance group (ABI recommended)

- > 20U

walkinshaw  performance

Walkinshaw Performance has a simple and passionate vision – to bring your car to life with the very best in high performance upgrades. As the Vauxhall approved supplier for VXR8 enhancements, they offer a range of performance options. For more details, visit [www.walkinshawperformance.co.uk](http://www.walkinshawperformance.co.uk) or contact your local VXR8 retailer.

▶ **Alloy wheels.** Looking to add even more visual impact to your VXR8? How about these optional SuperSport 20-inch alloy wheels from Walkinshaw Performance? They come with Bridgestone tyres – 245/35 R 20 at the front and 275/30 R 20 at the rear – for incredible looks and grip.



◀ **Suspension kit.** Walkinshaw Performance offers a suspension upgrade kit to lower the VXR8's ride height, providing exceptional road holding. Further benefits include responsive steering characteristics and reduced body movement. Up-rated brake kits are also available.

▶ **Rear exhaust system.** A tuned dual system in long life stainless steel, with twin rear silencers and chrome tips, the Walkinshaw Performance VXR8 rear exhaust system option increases the flow of exhaust gases and enhances the distinctive V8 rumble.



Exterior colours

Model, trim name and trim colour

	Corsa VXR		Astra VXR		Meriva VXR		Zafira VXR		Vectra VXR		VXR8 Dakar leather/suede
	Splice cloth/ Morrocana	Leather*	Race cloth/ Leather	Leather*	Race cloth/ Leather	Leather*	Race cloth/ Leather	Leather*	Race cloth/ Leather	Leather*	
<b>Solid</b>											
Flame Red	Charcoal	Charcoal	-	-	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	-
Power Red	-	-	Charcoal	Charcoal	-	-	-	-	-	-	-
Red Hot	-	-	-	-	-	-	-	-	-	-	Charcoal
<b>Two-coat metallic</b>											
Star Silver*	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	-
Nickel	-	-	-	-	-	-	-	-	-	-	Charcoal
Phantom Black	-	-	-	-	-	-	-	-	-	-	Charcoal
<b>Two-coat pearlescent</b>											
Black Sapphire*	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	-
Arden Blue*	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	Charcoal	-
Impulse Blue	-	-	-	-	-	-	-	-	-	-	Charcoal

\* = Optional at extra cost.



Due to the limitations of the printing process the colours reproduced may vary slightly from the actual paint colour or trim material. As a result they should be used as a guide only.

Colours and trims

VXR models are available in a range of great exterior colours, with complementary interior trim materials – fabric, suede and leather – specially selected to reflect the range’s performance heritage.



Leather (optional at extra cost).

Vectra model illustrated.



## VXR features and options

There isn't much you can add to improve a VXR, but a range of extra-cost options is available just in case you want to personalise it a little further to suit your own needs. We've only included a sample of what's available here. The Vauxhall Car and Accessory Price Guide has all the details.



▶ **Cruise control.** The easy-to-use, tap-up tap-down cruise control is standard on most VXR models (optional on others). It allows you to maintain a steady speed without keeping your foot on the throttle. So it's more comfortable on long journeys and easier to keep to speed limits too.



▼ **Satellite navigation.** Find your way to anywhere, at any time. Satellite Navigation can determine your location and guide you to your destination by the best and fastest route. The Traffic Message Channel (TMC) function (excludes VXR8) can even change the route according to breaking traffic news.

▼ ▲ **Mobile phone system.** With the optional mobile phone system,\* your phone interfaces with the audio unit, for full operation via the steering wheel controls and fascia display. Bluetooth® wireless connectivity with voice activation is included.

\* Please see Vauxhall Car Price Guide for a list of compatible phones. Cradle not included.



◀ **Electronic Climate Control (ECC).** Electronic Climate Control (ECC) allows you to select the temperature to the nearest degree and maintain it regardless of the outside temperature. The system, on some models, can even compensate for the effects of sunlight falling on one side of the car.



◀ **Adaptive Forward Lighting (AFL).** The optional lighting system swivels the beams up to 15 degrees for improved vision as you turn a corner. On some models AFL also raises the dipped headlight beam slightly at above 65mph, returning to normal beam automatically as speed is reduced.



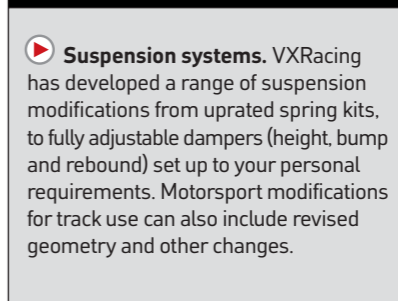
▲ **Keyless entry and start.** Standard on Astra and Zafira models, the keyless entry and start system means that the driver need never remove their key fob from their pocket. When approaching the car, sensors in the front door handles and rear bumper detect the driver's proximity and automatically unlock the doors or boot when the handle is pulled. When in the car, two internal sensors activate the ignition and release the electronic steering lock, enabling the driver to start the engine by depressing the brake pedal and pressing the start button on the centre console. To stop the engine you simply press the button again. Upon leaving the vehicle, the driver can lock it by either pressing a button on the key fob like a conventional system, or by simply touching one of the sensors on the external handles of the front doors. The system also offers excellent theft protection by its use of sophisticated cryptographic algorithms, while a back-up key is also included for emergency use.

## VXR Performance Centre.

Vauxhall has teamed up with Triple Eight Race Engineering to make genuine VXR-style performance available to every Vauxhall owner. Located at VXRacing's BTCC team headquarters, the new VXR Performance Centre offers proven engine, brake, suspension and body styling upgrades. For more details, visit [www.vxrperformance.co.uk](http://www.vxrperformance.co.uk) or contact your local Vauxhall retailer.



◀ **Exhaust systems.** A range of uprated exhaust systems are available from the VXR Performance Centre. Manufactured in stainless steel for a longer life, the new systems add even more performance and a great sound.



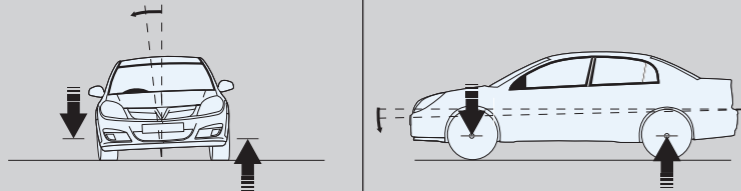
▶ **Suspension systems.** VXRacing has developed a range of suspension modifications from uprated spring kits, to fully adjustable dampers (height, bump and rebound) set up to your personal requirements. Motorsport modifications for track use can also include revised geometry and other changes.



◀ **Braking systems.** For the driver who wants even more stopping power, VXRacing have developed, with AP Racing, a front braking system using four-pot calipers with larger diameter ventilated discs, high friction brake pads and braided hoses. Specifically designed for the Astra VXR, the kit fits other models.

## Technical guide

You don't have to be a race car designer to understand why VXR models are so special. The results speak for themselves. But just in case you're wondering about what lies behind our performance features, we've explained a few of them here in a little more detail.



### ▲ IDS<sup>2</sup>-plus with Continuous Damping Control (CDC)

Fitted as standard to both Zafira and Vectra VXR, the IDS<sup>2</sup>-plus system is an even more focused development of the IDS-plus system available on a number of Vauxhall models. The CDC function within IDS<sup>2</sup>-plus allows the car to maintain a compliant ride on bumpy surfaces, but when cornering, accelerating or braking it adjusts the stiffness of the suspension's damping to provide racecar-like feel and responses.

CDC uses a series of sensors to monitor the roll, pitch and yaw of the car, from which the system's ECU can calculate the exact level of damping required on each wheel at all times. In this regard IDS-plus (which is optional on Astra VXR) and IDS<sup>2</sup>-plus are identical. Where the systems differ is their damper control: IDS-plus controls only the rebound stroke of the damper, while IDS<sup>2</sup>-plus controls both bump and rebound, which means that it controls all four wheels at all times during a manoeuvre.

For the driver this extra control means even greater responsiveness at all times: the ability to both turn into a corner with great precision and exit it with traction, grip, stability and reduced body roll.

### ▼ Large diameter brakes

All VXR models feature considerably larger diameter brake discs than their respective regular range models – and there are several very good reasons for this.

When combined with large calipers and pads they offer greater initial 'bite' due to the increased surface area in operation and allow the driver to use less effort when braking, yet simultaneously retain more feel through the pedal.

Extra size also brings greater heat dissipation, enabling the brakes to perform consistently during keen driving – without suffering from fade, or reduced efficiency, after repeated heavy applications from high speeds, such as during track days. Heat dissipation is further assisted by the design of the discs, which feature specially designed vanes to help extract the heat even faster, further improving their consistency during prolonged use.

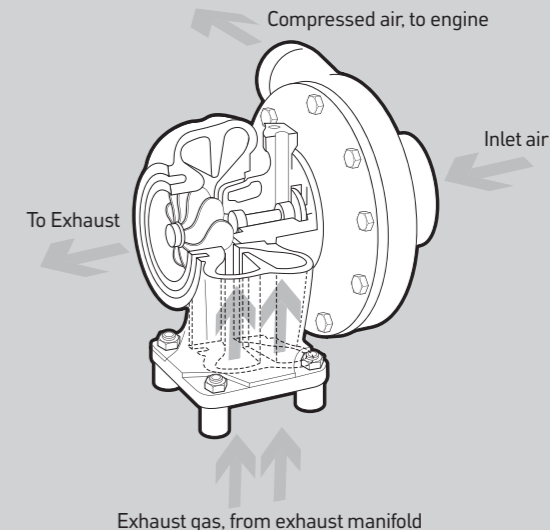


### ▶ Twin scroll turbocharger

The twin scroll (divided inlet) turbocharger, used on the Vectra VXR, is designed to respond faster and produce boost quicker than a conventional single scroll turbo of the same size.

The differences between twin and single scroll turbochargers start at the exhaust manifold, which effectively is divided into two individual paths to the turbo. The reason behind this is to separate the cylinders whose cycles interfere with each other and therefore make the best use of the exhaust pulse energy emanating from each one. On a single scroll turbo some of the pulse energy from the exhaust stroke of a cylinder can be lost if it enters the adjacent cylinder, but the twin scroll system alleviates this problem.

The turbine housing is divided into two halves internally, each of which is fed by half of the cylinders. Gas flow is improved and more energy is used to directly power the turbo, which improves efficiency. Within the body of the turbo, the turbine wheel is made from a special high-grade steel alloy, commonly used in the turbocharged engines of world championship rally cars, which is resistant to erosion, cracking and creeping under high temperatures and centrifugal forces.



### ▶ Sports suspension

It could be argued that creating a sports suspension system is relatively easy: simply fit some uprated springs, dampers and, possibly, anti-roll bars and it's ready. There are plenty of aftermarket kits available, after all. But for VXR we wanted to go a few steps beyond.

VXR models feature all of the above, naturally, but we've incorporated a number of extra suspension and steering revisions that separate them from other sports models in the Vauxhall range. Features such as stronger, low-friction anti-roll bar mounts and drop links, which allow the anti-roll bars to work at peak efficiency at all times, rebound stop springs within the dampers, designed to reduce traction-robbing pitch from the chassis, and revised steering geometry, which gives drivers increased feedback and allows them to more accurately judge grip levels.

In addition to the considerable chassis work on the UK's unique road surfaces, much of the development of the VXR range was carried out at the legendary Nürburgring Nordschleife circuit in Germany, the ultimate test of chassis performance. Manuel Reuter, twice winner of the Le Mans 24-hour race, was on the test team and his vast experience contributed to the final set-up of the cars.

