



# Steering & Suspension

[www.comline.uk.com](http://www.comline.uk.com)





YOUR NEW

REALITY

## Comline **Steering & Suspension**

Whether running a business that depends on quality parts, or simply running a vehicle that requires the inevitable maintenance, Comline steering & suspension is the right choice.

With an extensive all makes range, impressive quality, a leading 3-year warranty and the competitive edge, the Comline steering & suspension range is built to cater for the needs of the European aftermarket.



Turn to page 14 to find out more about  
C.A.R (Comline Augmented Reality)



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STEERING & SUSPENSION

# THE RANGE

## Do you know?

The Comline steering & suspension range covers 171 million vehicles currently in operation across Europe.



TOP STRUT MOUNT

TIE ROD END

STABILISER LINK

STABILISER MOUNTING

AXIAL JOINT / RACK END

BALL JOINT

CONTROL ARM

CONTROL ARM BUSHING

## Fact:

Comline steering & suspension provides a solution for 1726 of Europe's top-selling vehicle models.

# Built for the **Aftermarket**

**In developing our steering & suspension range, Comline has applied laser-like focus to deliver a product line which truly meets the needs of our aftermarket customers.**

Using extensive Vehicles In Operation (VIO) data, Comline's product experts conduct detailed analysis of the European vehicle parc to craft a range that is tailored for the market's most popular vehicles.

This provides Comline customers with options for the market's most in-demand parts and, backed by the competitive edge for which Comline has become synonymous, our customers are able to benefit from a reliable and profitable steering & suspension business.

Comline's all makes range is truly built for the aftermarket.



# Fully Featured. **Extensively Tested.**

**With every rotation of a wheel, every bump in the road, and every evasive manoeuvre, the reliable, responsive and safe operation of a vehicle's steering & suspension system is paramount.**

That's why each and every steering & suspension part within Comline's impressive range is fully-featured and extensively tested to deliver absolute performance, mile-after-mile, and in all conditions. Comline has forged strong relationships with some of the world's leading manufacturers; our Steering & Suspension parts are precisely crafted in their state-of-the-art production facilities.

Comline works closely with its manufacturing partners and frequently audits the production process to ensure compliance with brand quality expectations.

In this safety critical category Comline leaves nothing to chance, complementing elite manufacturing with exhaustive quality testing. Comline steering & suspension parts are pushed to the absolute limit, far beyond what the components will encounter out on the open road, all in search of absolute performance and total reliability.



## Raw **Materials**

Whether traditional steel, or more contemporary light-weight aluminium components, each Comline part is crafted for strength and durability using carefully selected raw materials.



## High-Specification **Grease**

Castrol Olistamoly 2 LN 584/LO grease, chosen for optimum viscosity and its deformation properties, is utilised across the Comline range of ball joints, with automated equipment ensuring precise application of grease volumes for each and every part.



## Chloroprene

Chloroprene is proven to have the right durability, tensile strength, ozone resistance and extreme temperature imperishability required for automotive applications. Its use prevents the premature failures common with inferior rubber materials.



## Cold Forged **Ball Pins**

Manufactured using cold forging as part of a three-stage process, each Comline ball pin is also tempered and quenched for added strength, then machined and finished to achieve a minimum surface finish of 0.45 microns (Ra) and 2.5 microns (Rz).

## Testing Checklist:

- ✓ Push/Pull Load testing
- ✓ Fatigue & Life Cycle Testing
- ✓ Rotational Torque Testing
- ✓ Bonding & Hardness Testing
- ✓ Temperature Testing (-40°C -> 120°C)
- ✓ Environmental Testing
- ✓ Material Analysis & Testing



## Cataphoresis

Comline steering & suspension parts undergo an 11-stage electro-coating process which protects components against water ingress, salt, dirt and other road surface contaminants, while also increasing their strength and longevity.



## Salt Spray Testing

A 900 hour salt spray test provides an accelerated simulation of real-world driving conditions. This test simulates approximately 10-years of on-vehicle use and is a vital process for ensuring the corrosion resistance of Comline steering & suspension parts.



## 3 & 4 Axis Testing

This important test underpins the performance of Comline Control Arms, Ball Joints, Bushes and Tie-Rods by simulating the loads, movement, angles and frequencies of real world driving. The test can run for up to 1 million cycles.

# Ball Joints

Comline Ball Joints are built to last with components that are rigorously tested for performance and durability. Built for strength and designed to cope with the demands of modern motoring, Comline Ball Joints offer superb static and dynamic load bearing capabilities.

- **Ball pins are manufactured for long-lasting quality whilst lifetime lubrication provides consistently smooth operation**
- **Quality chloroprene boots deliver lasting protection against the harsh driving environment**
- **Premium anti-corrosion materials**
- **Comline Ball Joints are supplied with fitting kits, nut & bolt kits, castellated nuts and split pins for reduced fitting times**
- **When fitting new Ball Joints Comline recommends that components on both sides of the vehicle are changed**



## Control Arms

Comline offers a comprehensive range of Suspension Arms and Track Control Arms with bushes included. Parts are available with or without Ball Joints and manufactured from various metals, including steel, cast iron and aluminium.

- **Supplied complete with Ball Joints and Bushes as required**
- **Premium-quality rubber bushes are manufactured to the latest design specifications to ensure the optimum level of shore hardness and performance**
- **Manufactured using the latest ISO approved techniques for consistent, reliable performance in all conditions**
- **When fitting Suspension Arms or Track Control Arms Comline recommends that components on both sides of the vehicle are changed**



# Tie Rods & Tie Rod Ends

Our extensive range of Comline Tie Rods (Axial Joints) and Tie Rod Ends are manufactured from high-quality, heat-treated materials to deliver balance, strength and longevity. In short, Comline Tie Rod and Tie Rod Ends are built to perform.

- **Manufactured from high-quality materials using the latest engineering techniques**
- **Supplied complete with kits for ease of installation and reduced fitting times**
- **Supplied complete with locking rings**
- **Correctly weighted for optimum performance**
- **When fitting new Tie Rods or Tie Rod Ends Comline recommends that components on both sides of the vehicle are changed**
- **Engineered to be a direct replacement part**

## Stabiliser Links

Comline's range of Stabiliser Links provides coverage across the European, Japanese & Korean vehicle parc. Manufactured in steel, plastic and aluminium, Comline utilise only high-quality components to guarantee performance and deliver impressive torque force tolerance.

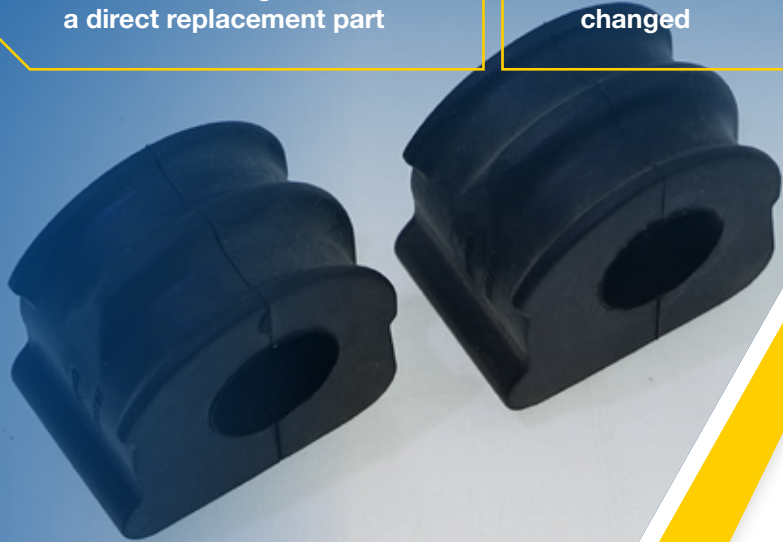
- **Manufactured for durability using high-quality rubber and metal componentry**
- **Supplied with all relevant accessories required for fitment**
- **100% quality checked to provide 'fit and forget' peace of mind**
- **When fitting new Stabiliser Links Comline recommends that components on both sides of the vehicle are changed**
- **Engineered to be a direct replacement part**



# Stabiliser Mountings

When replacing any steering & suspension component, trust is vital, and this is certainly true of stabiliser mountings which are crucial components in minimising noise, vibration, and hardness. Leave nothing to chance, Comline Stabiliser Mountings are built to deliver absolute reliability through every bump in the road.

- **Manufactured from high quality rubber chosen for its durability and heat resistant properties**
- **Meticulously formed for the needs of the vehicle application to allow for seamless installation onto the anti-roll bar. Engineered to be a direct replacement part**
- **Carefully selected rubber formulation delivers superior dampening qualities for a smooth drive**
- **When fitting new Stabiliser Mountings, Comline recommends that components on both sides of the vehicle are changed**



## Suspension Bushes

Comline's comprehensive range of rubber-to-metal Suspension Bushes provide high-calibre performance and in-depth coverage across the vehicle parc. Premium quality materials are carefully deployed to ensure an OE-quality fit while state-of-the-art bonding techniques guarantee mile-after-mile reliability and performance.

- **Advanced manufacturing techniques ensure faultless bonding of all rubber-to-metal components**
- **Optimal shore hardness and resistance ensures Comline Bushes locate components in the right position regardless of the conditions or loading force being applied**
- **When fitting new Suspension Bushes Comline recommends that components on both sides of the vehicle are changed**
- **Engineered to be a direct replacement part**

# Top Strut Mountings

A Top Strut Mount is in perpetual motion when a vehicle is in operation and must be able to cope with the continual bombardment it will endure. Thankfully, Comline Top Strut Mounts are designed for performance and durability to effectively reduce noise, vibration, and harshness.

- **Outstanding rubber-to-metal bonding absorbs vibration and reduces noise**
- **Where required, integrated bearings are manufactured to OE-standards to enable the perfect pivot of the steering strut**
- **Crafted from high-quality raw materials to improve resistance against environmental conditions and prevent corrosion**
- **Manufactured using the latest ISO approved techniques for consistent, reliable performance in all conditions**



## Suspension Kits

Our expanding range of Comline Suspension Kits are a one-stop solution for garage owners that enable all necessary parts to be ordered in a single, complete package. Comline Suspension Kits prove popular with garage owners, largely due to the speed and convenience of being able to source all the various components as a pre-defined kit.

- **A complete Steering & Suspension solution supplying all relevant components, nut & bolt kits and accessories required for fitment**
- **Offering tracking and suspension alignment/set-up after the kit has been fitted provides a genuine upsell opportunity for the garage**
- **Time-saving and convenience for both garage and vehicle owner ensures higher levels of all round customer satisfaction**
- **When changing Steering and Suspension components Comline recommends that the final tightening of the components is carried out when the vehicle is a deadweight and on the ground**

## The Perfect Fit

Installation problems mean lost time and revenue for the technician and potentially higher costs for the motorist. That's why here at Comline we prioritise a quick, first-time fit.

To that end, each part within our extensive steering & suspension line-up comes supplied with all the relevant accessories for immediate, trouble-free fitment. So, if a ball joint application requires three screws, three nuts and three washers to complete the installation that's exactly what you'll find alongside the part inside a Comline box.

## All Makes & Models

The Comline brand was founded to deliver affordable replacement parts for all makes and models that are prevalent across the European market, and our steering & suspension range remains true to this mission.

Our range delivers solutions for European, Japanese & Korean passenger cars, light-commercial vehicles, and a variety of powertrains including Hybrid, EV, and even Hydrogen-powered applications. Put simply, if it's a popular application across the European aftermarket, you will find Comline steering & suspension parts for it in-range.

## Complete Traceability

Product traceability reflects the absolute confidence we have in our steering & suspension range. Simply put, every steering & suspension part we supply is stamped or engraved with our brand logo and an accompanying batch code.

This ensures a Comline part can always be identified and enables us to pinpoint the exact manufacturing batch from which the part was produced. It's a small feature but one which can give the installing mechanic that extra layer of confidence.



## Warranty

**Comline offers every steering & suspension part with a leading 3-year (36,000 mile / 60,000 km) warranty.**

In a safety critical product category where performance and reliability is paramount, this warranty tells you everything you need to know about the confidence we have in our product line.

# The Comline Effect

What do our customers say...

“

Quality, range, value,  
customer service -  
Comline has it all!

Kevin  
Comline Distributor  
Northern Ireland

”

“

With Comline, my  
business is making  
money each and every  
day!

Oleg  
Comline Distributor  
Austria

”

“

Once our customers  
switched to Comline,  
they come back again  
and again.

James  
Comline Distributor  
United Kingdom

”

## The Competitive Edge

Another key component of Comline's brand philosophy is our ability to provide products of genuine quality with a competitive edge.

Comline steering & suspension stays true to this approach and is positioned with affordability in mind to support our distributor customers, the garages they supply, and the motorists they service. Comline's competitive edge ensures the European aftermarket can have a best-of-both-worlds solution providing undeniable quality and performance at the right price.



# Experience Comline parts like never before.

**Comline Augmented Reality (C.A.R) harnesses cutting edge technology to give parts distributors, workshop technicians and motorists a first-hand look at the quality and features of Comline steering & suspension products.**

To engage with C.A.R simply head to the 'Comline Augmented Reality' section of the website, or scan the QR code below. and click on any one of the listed products to launch a 3D view. Within selected 3D renders you will also notice "hotspots" which, when clicked, provide detailed feature and benefits information for the respective part.

**For the best user experience we would recommend viewing hotspots in full-screen view.**




**EXPLORE COMLINE STEERING  
& SUSPENSION IN AR**




# The Future of the Aftermarket

Alternatively-fuelled cars are continuing to make headlines, with statistics showing increases of **104.9% and 87.9%\*** for new plug-in hybrid electric and battery electric vehicles (EVs) respectively. That is why Comline continues to develop an ever-expanding range of references across our product ranges, for emerging Hybrid and Electric Vehicle models.

\*Statistics taken from Society of Motor Manufacturers and Traders' September 2021 figures

 **700+** part numbers currently available for Electric and Hybrid vehicles, covering 150+ model variants.

 **A dedicated development programme adds new EV and Hybrid products to range each month.**

 **Parts in range for standalone EV models such as Nissan Leaf, Renault Zoe and Tesla Model S.**



## Dedicated to Data

In support of a truly world-class steering & suspension range Comline invests heavily in data. A dedicated team of Comline data analysts diligently profile each part number to deliver a robust portfolio of data with each steering part. The quality of this data is among the very best available in the aftermarket and this is reflected by Comline's status as a TecDoc and MAM Software certified supplier.

**PREMIER**  
**TecDoc®**  
**DATA SUPPLIER**

 **MAMSoftware**  
A Kerridge Commercial Systems Company



# Comline Auto Parts

***REAL WORLD PERFORMANCE***

**Comline is an independent British brand making waves across the European automotive industry with a philosophy based on Real World Performance. Distinctively wrapped in our blue and yellow livery, each Comline product follows a simple recipe - performance you can trust, with the added edge of affordability. This ethos has seen Comline become the choice of distributors, technicians, and motorists in over 40 countries worldwide.**

Confidence inspiring performance and reliability is also complemented by high product availability. Four dedicated distribution hubs based in the UK, Ireland, Spain and Greece consistently operate at 95%+ availability, and this impressive 230,000sq.ft / 21,500m<sup>2</sup> warehousing footprint services the growing global demand for Comline's diverse range of products.

The profile of Comline is also being elevated by a variety of dynamic brand marketing initiatives. The brand is well underway with establishing an AR platform for its products, whilst a fast-growing and engaged community of brand fans is emerging across social media, most notably on Facebook. Comline is also taking it to the track as title sponsor of the Comline Richardson Racing Team participating in the highly-regarded Porsche Carrera Cup GB Championship.

**Join our growing community by following Comline across social media.**







**COMLINE**  
RICHARDSON RACING



#### **Comline Auto Parts Ltd**

Unit B1, Luton Enterprise Park  
Sundon Park Road, Luton  
Bedfordshire, LU3 3GU, Great Britain

**T +44 1582 578 888**

**F +44 1582 578 889**

#### **Comline Ireland Ltd**

Unit 12, Monaghan Business Park  
Clones Road, Monaghan  
H18 CC43, Ireland

**T +353 47 81311**

**F +353 47 77845**

#### **Comline Hellas S.A.**

Agias Annis 74  
Egaleo 122 41  
Greece

**T +30 210 3474607**

**F +30 210 3421009**

#### **Comline Ibérica S.L.**

Comline Ibérica S.L., Avda. de las Palmeras  
8-Nave 2 Polig. Ind. La Sendilla  
28350 Ciempozuelos, Madrid, España

**T +34 916 846 044**

**F +34 916 846 047**

**REAL WORLD *PERFORMANCE***