

**STEERING &  
SUSPENSION  
PARTS.**



## **RE-ENGINEERED TECHNOLOGY®**

**STEERING IN SAFETY:  
PATENTED BALL JOINT FOR TRACK CONTROL ARM.**



# SIDEM RE-ENGINEERED TECHNOLOGY®.

## STEERING IN SAFETY: PATENTED BALL JOINT FOR TRACK CONTROL ARM.

Ball joints play an essential role in your vehicle's suspension system. They are spherical bearings that connect the wheel suspension control arms to the steering knuckles which directs the wheels. Also integrated in many other parts like tie rod ends, axial joints, stabilizer links etc. they are constantly working to guide your vehicle on the road safely.

### PROBLEM: PRESS FIT BALL JOINTS CAN'T BE SERVICED MORE THAN ONCE.



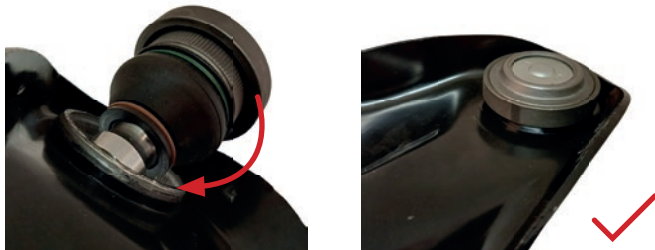
Several car models use a pressed-in ball joint in the track control arm. If this joint has already been replaced, the mounting hole in the control arm will be stretched. Pressing in a new ball joint into that arm can lead to very dangerous situations as the fixation is no longer as tight and secure as required. Aftermarket ball joints won't fix this issue as they're not leading to a fully secured fit and can't guarantee your safety.

Welding the new ball joint in place is not an option. This will cause certain damage to the ball joint (melting the ball stud insert; damage the dust cover) with a guaranteed part failure as a result. As a result, the complete track control arm will need to be replaced instead of only the ball joint, leading to higher costs and more waste.

### SIDEM'S SOLUTION: AN IMPROVED LOCKING SYSTEM ALLOWS SAFE BALL JOINT REPLACEMENTS.

#### SAFER SOLUTION.

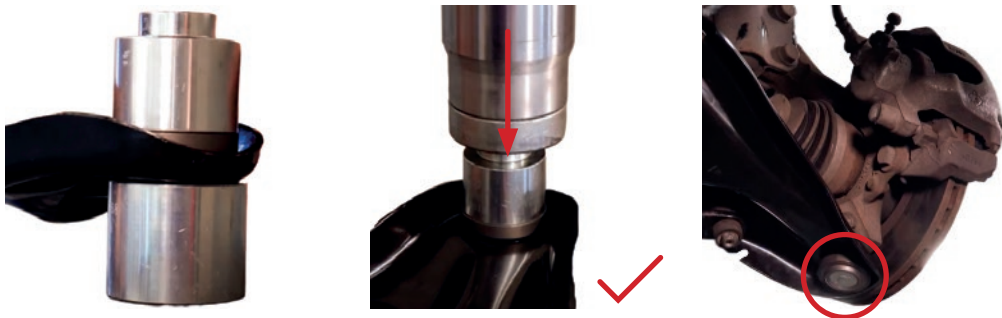
Sidem has developed a unique and patented solution for the ball joint fixation, which guarantees that secure fit! This ball joint is designed in such a way that the part locks itself in when it's pressed into the control arm. The ball joint is equipped with an external collar. This collar clamps to the edge of the mounting hole, firmly fixing the ball joint into place.



The part is easily pressed in and ensures a necessary tight and secure fit. Regular ball joints require a minimum push-out force of 10kN, whereas the Sidem patented ball joints have an average push-out force of 22kN, which is more than double the regular value. The best performing patented Sidem ball joint (reference 5783 R) even reaches 27,5kN.

#### EASY INSTALLATION.

Sidem's solution offers a straightforward and secure method for replacing the ball joint in the control arm without the need to replace the entire system. The new ball joint fixation system offers enhanced safety and long-term steering comfort, providing a superior solution for customers.



Safety note: In the event of a damaged control arm, it is imperative to replace the entire track control arm along with the ball joint.

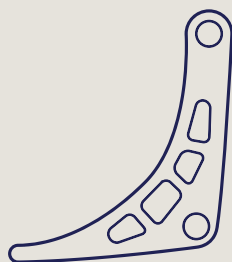
#### SUMMARY

Sidem's patented solution allows the easy and safe replacement of a press fit ball joint in the control arm without having to replace the entire system.

### APPLICATION: WHICH PART WAS IMPROVED?

MODEL		SIDEM REFERENCE
Dacia Logan 09/2004 – present	Renault Logan I (LS_) 09/2004 – present	5782 R
Dacia Logan MCD 04/2007 – present	Renault Logan I Estate (KS_) 04/2007 – present	
Dacia Logan Pick-Up 03/2008 – present	Renault Logan I Express (US_) 04/2007 – present	
Dacia Van (Express) 03/2009 – present	Renault Sandero I (BS_) 11/2007 – 12/2019	
Dacia Sandero 06/2008 – present	Lada Largus 04/2012 – present	
Dacia Dokker 11/2012 – present	Dacia Logan MCV II 02/2013 – present	5783 R
Dacia Dokker Van (Express) 12/2012 – present	Dacia Logan III 09/2020 – present	
Dacia Jogger 03/2022 – present	Dacia Sandero II 10/2012 – present	
Dacia Lodgy 03/2012 – present	Dacia Sandero III 09/2020 – present	
Dacia Logan II 10/2012 – present	Renault Express Van (FJK) 05/2021 – present	
Renault Megane II (BM, CM, EM, GM, KM, LM, SM) 01/2007 – 10/2012		5784 R
Citroën C1 I (PM_, PN_) 06/2005 – 03/2014	Toyota Prius C (NHP10) 09/2011 – present	45092 R
Citroën C1 II 04/2014 – present	Toyota Aqua (NHP10) 09/2011 – present	
Peugeot 107 (PM_, PN_) 06/2005 – 05/2014	Toyota Urban Cruiser (NCP11_) 04/2009 – 04/2016	
Peugeot 108 05/2014 – present	Toyota Verso-S (_P12_) 11/2010 – 10/2016	
Subaru Trezia (NLP_, NSP_) 03/2011 – present	Toyota Yaris I (_P1_) 04/1999 – 12/2005	
Toyota Aygo (WNB10, KGB10) 06/2005 – 05/2014	Toyota Yaris Verso (_P2_) 11/1999 – 12/2005	
Toyota Aygo (PAB40, KGB40) 05/2014 – present	Toyota Yaris II (_P9_) 11/2005 – 12/2014	
Toyota IQ (_J1_) 01/2009 – 12/2015	Toyota Yaris III (_P13_) 12/2012 – 06/2020	
Toyota MR2 III (ZZW30) 10/1999 – 06/2007		

# WHY EXPERTS RELY ON SIDEM.



**own engineering  
& manufacturing**

**100%**

focus on steering  
& suspension

**95%**

relevante  
coverage

**98%**

service level

**Electrical &  
combustion**  
auto's

**private  
& light  
commercial**  
voertuigen

**>90**  
countries  
worldwide

more than  
**10.000**  
references

more than  
**4 000 000**  
parts on stock

**50**  
car brands

**1.170**  
car models

## ABOUT SIDEM.

Sidem is a family-owned company founded in 1933, the leading specialist in engineering and manufacturing of steering and suspension parts for Original Equipment Manufacturers (OEM) and the Automotive Aftermarket. The company offers the most comprehensive range in the industry with over 10,000 references for private and light commercial vehicles. Sidem has its own in-house engineering team, an IATF certified manufacturing facility and a central warehouse, all based in Europe.

**STEERING &  
SUSPENSION  
PARTS.**

**SIDEM.EU**

**SIDEM**  
Experts know why