

# RIW

## STEERING & SUSPENSION MANUFACTURER



# SMART PRODUCT CATALOG



## Products

- Ball Joint
- Tie Rod End
- Axial Joint
- Link Stabilizer
- Control Arm
- Center Rod
- Stabilizer Mounting
- Suspension Kit
- Bush
- Tie Rod Assembly
- Mounting
- Steering Bellow
- Axle Bellow



### About Us

RIW is an organization that produces high quality suspension and steering parts for passenger cars and light commercial vehicles in the automotive aftermarket industry. RIW aims to improve the automotive industry and benefit the country's economy with the target of safely using the vehicle by the end user. As one of the widest range steering and suspension parts manufacturer in the world, production and assembling facilities of RIW contains operations of the following product lines in steering and suspension group for the aftermarket; ball joint, tie rod end, axial joint (inner tie rod), tie rod assembly, link stabilizer, center rot, control arm, wishbone, bush, mount and rubber products. As a result of wide product range, high product quality, reasonable price and customer-focused studies, RIW takes the first place among the largest spare parts company in Turkey. Through execution of Research and Development in the production of the steering and suspension parts of passenger cars and light commercial vehicles, and at the most advanced and technological conditions, RIW is Turkey's most modern spare parts manufacturer.

The culture of the company takes product quality, technological development and customer satisfaction as the priority; therefore Automotive Aftermarket Industry use RIW brand product with confident. By taking advantage of latest technology machining's in its modern production facility, and also taking employee safety as the main principle in the every stage of the production; from design to production, production to quality, packaging to delivery, marketing to sales RIW has succeeded to be a respectable brand in more than 60 countries worldwide.

### Mission

Providing the latest developed item to the market in high quality as the first in the aftermarket and improving product quality in the every part of the World.

### Vision

Spreading the "RIW Standards" which is made by advanced technology and aftermarket experiences to benefit the whole world.

### Production Strategy

RIW engineers control every stage of the production processes such as product design, mold design, machining, hot and cold forging, aluminum forging, vertical and horizontal arm milling machining, control arm manufacturing, welding, painting, coating and packaging, in its facilities separately. RIW accepts each stage of production as a different unit and advocates the idea that in order to provide the fastest and highest quality product each unit should act as a separate process during its planning for assembling and production. Hence, in this competitive market conditions where it is difficult to reach large capital numbers, RIW invests in the direction of quality control and development.

In contrast to the mindset that every single step in the production is under one roof, RIW ensures that the raw materials and semi-finished products are continuously inspected by experienced engineers and always keeps its quality under control in each stage of the production process. With this system, thanks to the latest technology machinery and test equipment used to apply quality testing at every stage, RIW always offers 100% controlled products to its customers and both minimizes the risk of error to zero and aims to offer competitive prices to the customers by decreasing the product costs.

### Total Quality

RIW that aspires total quality approach has constantly increased its production capacity upon investments and quality works made and has become a preferred brand in the world aftermarket. Acting with the awareness of being a manufacturer of safety components, RIW actively exports its high-quality products too many countries located in Europe, North Africa, Middle East, Australia, North and South America.

At all stages from the start to the end of production, RIW closely monitors and checks the quality of its products and ensures that reliable and high quality products are offered to its customers. All tests and procedures are carried out by highly experienced RIW engineers until they find the right quality to develop the aftermarket industry.



- The codes which has 6 characters are suspension parts (Additional codes are exceptional)
- The codes which has 7 characters are rubber parts (Additional codes are exceptional)
- There is no any specific code for Rod Assembly.
- Rod Assembly codes are the combine of Tie Rod End and Axial Joint.
- Same parts which are used at the different cars might have the same code.

# PE 6 001 J

## Brand

AC ACURA	DC DACIA	IS ISUZU	LE LEYLAND	PE PEUGEOT	SM SMART
AF ALFA ROMEO	DW DAEWOO	IV IVECO	LC LINCOLN	PO PORSCHE	SY SSANGYONG
AU AUDI	DH DAIHATSU	JG JAGUAR	LO LOTUS	PR PROTON	SU SUBARU
BW BMW	DO DODGE	JP JEEP	MZ MAZDA	RE RENAULT	SZ SUZUKI
BU BUICK	FI FIAT	KI KIA	ME MERCEDES	RR ROLLS-ROYCE	TO TOYOTA
CD CADILLAC	FO FORD	LD LADA	MC MINI COOPER	RO ROVER	VA VAUXHALL
CV CHEVROLET	HN HONDA	LR LAND ROVER	MI MITSUBISHI	SA SAAB	VW VOLKSWAGEN
CY CHRYSLER	HY HYUNDAI	LV LDV	NS NISSAN	SE SEAT	VO VOLVO
CI CITROËN	IK IKCO	LX LEXUS	OP OPEL	SK SKODA	

## Product Group

1 BALL JOINT	7 CENTER ROD & DRAG LINK	23 TIE ROD ASSEMBLY
2 TIE ROD END	8 SUSPENSION KITS	12 MOUNTING & RUBBER SUPPORT
3 AXIAL JOINT (INNER TIE ROD)	9 REAR WISHBONE AND CONTROL ARM	128 MOUNTING or RUBBER SUPPORT KIT
4 LINK STABILIZER	10 BUSH	13 BELLOW STEERING
5 CONTROL ARM	11 BUSH	14 BELLOW DRIVE SHAFT
6 WISHBONE	118 REPAIR & BUSH KIT	

## Numbers

001 Any Number ■

## Option

### ADDITIONALS CODES AND MEANINGS

<b>K K FOR BALL JOINTS</b>	<b>B B FOR WISHBONE and CONTROL ARMS</b>
VW1012K 1 = BALL JOINT K = WITH EXTRA ACCESSORIES	BW5005B 5 = CONTROL ARM B = WITHOUT BUSHING
VW1012 1 = BALL JOINT	BW5005 5 = CONTROL ARM (The similar as OE part)
<b>J J FOR WISHBONES</b>	<b>K K FOR MOUNTINGS (RUBBER PARTS)</b>
PE6001J 6 = WISHBONE J = WITHOUT BALL JOINT	CV12005K 12 = MOUNTING K = KIT, 2 PIECES or WITH EXTRA ACCESSORIES
PE6001 6 = WISHBONE (The similar as the OE part)	CV12005 12 = MOUNTING (The similar as OE part)
<b>K K FOR WISHBONES or CONTROL ARMS (5,6 or 9)</b>	<b>A THE PRODUCT HAS DIFFERENT OPTION</b>
BW6005K 6 = WISHBONE K = WITH EXTRA ACCESSORIES	FO4030A 4 = LINK STABILIZER A = OPTION (metal, rubber), plastic etc)
BW6005 6 = WISHBONE	FO4030 4 = LINK STABILIZER (The similar as OE part)






# SMART

**CITY COUPE**
**MC01**
**1998 - 2004**

Image	Product Code and Description	Details	OEM
	<b>SM1001</b> BALL JOINT FRONT LOWER	Weight : 0,315 kg / 0.694 lb Cone Size [mm] : Ø12,9 Connection Hole Diameter : Ø10,5 Ball Pin Thread Size : M12X1,5	0002271V0070000005, 14224V001000000 15642V001, 15642V001000000 2271V0070000005, C0002271V009000000
	<b>SM1002</b> BALL JOINT FRONT LOWER	Weight : 0,225 kg / 0.496 lb	4513300010S
	<b>SM3002</b> AXIAL JOINT	Weight : 0,616 kg / 1.358 lb Length : 376,5 mm / 14.82 inch Body Thread Size : M14X1,5 Ball Pin Thread Size : M12X1,5	4514600051*
	<b>SM4001</b> LINK STABILIZER REAR	Weight : 0,189 kg / 0.417 lb Material Type : Metal Length : 149 mm / 5.87 inch Ball Pin Thread Size : M10X1,5	0001802V004000000, 1802V004000000 580431073
	<b>SM4002</b> LINK STABILIZER REAR	Weight : 0,322 kg / 0.710 lb Material Type : Metal Length : 93,5 mm / 3.68 inch Ball Pin Thread Size : M10X1,5	0005102V004000000, 5102V005 Q005102V00500000
	<b>SM6001</b> WISHBONE (WITHOUT BALL JOINT) FRONT LOWER	Weight : 2,131 kg / 4.698 lb Material Type : Metal	0007001V007000000, 0014141V001000 0014141V001000000, 0014141V002 14141V001, 14141V001000000 14141V002, 7001V004 7001V006, 7001V006000000
	<b>SM6006</b> WISHBONE (WITH BALL JOINT) FRONT LOWER	Weight : 2,185 kg / 4.817 lb Material Type : Metal	A4513300010, Q0014141V002000000
	<b>SM9002</b> CONTROL ARM REAR	Weight : 0,845 kg / 1.863 lb	1765V005, 1765V005000000 5102V005
	<b>SM11003</b> BUSH FOR TRACK CONTROL ARM LOWER CENTER	Position : Lower Center Left And Right Weight : 0,167 kg / 0.368 lb	14141V002000000*
	<b>SM11004</b> BUSH FOR CONTROL ARM REAR	Chassis (Front / Rear) : Rear Position : Rear	1765V005, 1765V005000000 Q1765V005, Q1765V005000000
	<b>SM11005</b> BUSH FOR CONTROL ARM REAR	Chassis (Front / Rear) : Rear Position : Rear	1765V005, 1765V005000000 Q1765V005, Q1765V005000000

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**FORFOUR**
**453**
**2015 -**

Image	Product Code and Description	Details	OEM
	<b>SM2003</b> TIE ROD END RH	Weight : 0,358 kg / 0.789 lb Length : 90 mm / 3.54 inch	45333-07000
	<b>SM2004</b> TIE ROD END LH	Weight : 0,358 kg / 0.789 lb Length : 90 mm / 3.54 inch	45333-07100
	<b>SM12002</b> STRUT MOUNTING FRONT	Chassis (Front / Rear) : Front Weight : 0,350 kg / 0.772 lb Note : RULMANSIZ	4533200173, 543020218R A4533200173

**FORFOUR**
**454**
**2004 - 2006**



Image	Product Code and Description	Details	OEM
	<b>MI1014</b> BALL JOINT FRONT LOWER	Weight : 0,325 kg / 0.717 lb Cone Size [mm] : Ø14,6 Ball Pin Thread Size : M12X1,5 Ball Joint Body Diameter : Ø39,8	4013A135-P, 4543300807-P MN186218-P
	<b>MI2020</b> TIE ROD END	Weight : 0,3 kg / 0.661 lb Length : 72 mm / 2.83 inch Body Thread Size : M12X1,25 Ball Pin Thread Size : M10X1,5 Ball Pin Cone Diameter : Ø12,5	, 4544600205 A4544600205, MR977606
	<b>MI4020</b> LINK STABILIZER FRONT	Weight : 0,325 kg / 0.717 lb Material Type : Metal Length : 325,5 mm / 12.81 inch Ball Pin Thread Size : M10X1,5	4543200010, A4543200010 MR961477
	<b>MI6021</b> WISHBONE (WITH BALL JOINT) FRONT LOWER RH	Weight : 2,85 kg / 6.283 lb Material Type : Metal	4013A150, 4543300707 4543300807, MN186217 MN186218
	<b>MI6022</b> WISHBONE (WITH BALL JOINT) FRONT LOWER LH	Weight : 2,85 kg / 6.283 lb Material Type : Metal	4013A135, 4543300707 4543300807, MN186217 MN186218
	<b>MI11007</b> BUSH FOR WISHBONE REAR BIG	Position : Left And Right	MN184133, MR403441
	<b>MI11008</b> BUSH FOR WISHBONE BIG	Chassis (Front / Rear) : Front Position : Left And Right	4543300807-P, MN125871-P MN186217-P, MN186218-P

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**FORFOUR**
**454**
**2004 - 2006**








Image	Product Code and Description	Details	OEM
	<b>MI11009</b> BUSH FOR WISHBONE CENTER	Position : Center Left And Right	4543300807-P, MN125871-P MN186217-P, MN186218-P

**FORTWO**
**450**
**2004 - 2006**




Image	Product Code and Description	Details	OEM
	<b>SM1001</b> BALL JOINT FRONT LOWER	Weight : 0,315 kg / 0.694 lb Cone Size [mm] : Ø12,9 Connection Hole Diameter : Ø10,5 Ball Pin Thread Size : M12X1,5	0002271V007000005, 14224V001000000 15642V001, 15642V001000000 2271V007000005, C0002271V009000000
	<b>SM2001</b> TIE ROD END	Weight : 0,395 kg / 0.871 lb	A4513380137
	<b>SM2002</b> TIE ROD END		4887V004, 4887V004000000 4887V005, 4887V005000000 4887V006, 4887V00600000
	<b>SM3001</b> AXIAL JOINT	Weight : 0,647 kg / 1.426 lb Length : 357 mm / 14.06 inch Body Thread Size : M14X1,5 Ball Pin Thread Size : M14X1,5	4684V006000000-P
	<b>SM4001</b> LINK STABILIZER REAR	Weight : 0,189 kg / 0.417 lb Material Type : Metal Length : 149 mm / 5.87 inch Ball Pin Thread Size : M10X1,5	0001802V004000000, 1802V004000000 580431073
	<b>SM6001</b> WISHBONE (WITHOUT BALL JOINT) FRONT LOWER	Weight : 2,131 kg / 4.698 lb Material Type : Metal	0007001V007000000, 0014141V001000 0014141V001000000, 0014141V002 14141V001, 14141V001000000 14141V002, 7001V004 7001V006, 7001V006000000
	<b>SM6002</b> WISHBONE (WITH BALL JOINT) FRONT LOWER RH		4879V003
	<b>SM6003</b> WISHBONE (WITH BALL JOINT) FRONT LOWER LH		4880V003
	<b>SM6004</b> CONTROL ARM FRONT RH	Weight : 1,3 kg / 2.866 lb	8608V004

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**FORTWO**
**450**
**2004 - 2006**

Image	Product Code and Description	Details	OEM
	<b>SM6005</b> CONTROL ARM FRONT LH	Weight : 1,3 kg / 2.866 lb	8609V004
	<b>SM9001</b> CONTROL ARM REAR	Weight : 1,891 kg / 4.169 lb	2087V022
	<b>SM9002</b> CONTROL ARM REAR	Weight : 0,845 kg / 1.863 lb	1765V005, 1765V0050000000 5102V005
	<b>SM11003</b> BUSH FOR TRACK CONTROL ARM LOWER CENTER	Position : Lower Center Left And Right Weight : 0,167 kg / 0.368 lb	14141V00200000*
	<b>SM11004</b> BUSH FOR CONTROL ARM REAR	Chassis (Front / Rear) : Rear Position : Rear	1765V005, 1765V0050000000 Q1765V005, Q1765V0050000000
	<b>SM11005</b> BUSH FOR CONTROL ARM REAR	Chassis (Front / Rear) : Rear Position : Rear	1765V005, 1765V0050000000 Q1765V005, Q1765V0050000000
	<b>SM12001</b> STRUT MOUNTING FRONT	Chassis (Front / Rear) : Front Position : Left And Right Weight : 0,160 kg / 0.353 lb	0008236V003, 0008236V004 4513220028, 8236V003 8236V004








**FORTWO**
**451**
**2007 - 2014**

Image	Product Code and Description	Details	OEM
	<b>SM1002</b> BALL JOINT FRONT LOWER	Weight : 0,225 kg / 0.496 lb	4513300010S
	<b>SM2001</b> TIE ROD END	Weight : 0,395 kg / 0.871 lb	A4513380137
	<b>SM3002</b> AXIAL JOINT	Weight : 0,616 kg / 1.358 lb Length : 376,5 mm / 14.82 inch Body Thread Size : M14X1,5 Ball Pin Thread Size : M12X1,5	4514600051*




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**FORTWO**
**451**
**2007 - 2014**

Image	Product Code and Description	Details	OEM
	<b>SM4003</b> LINK STABILIZER FRONT RH	Weight : 0,247 kg / 0.545 lb Material Type : Metal Length : 227 mm / 8.94 inch	A4513200089
	<b>SM4004</b> LINK STABILIZER FRONT LH	Weight : 0,247 kg / 0.545 lb Material Type : Metal Length : 227 mm / 8.94 inch	A4513200189
	<b>SM6006</b> WISHBONE (WITH BALL JOINT) FRONT LOWER	Weight : 2,185 kg / 4.817 lb Material Type : Metal	A4513300010, Q0014141V002000000
	<b>SM9003</b> CONTROL ARM REAR	Weight : 1,222 kg / 2.694 lb Material Type : Metal	A4513500129
	<b>SM11001</b> BUSH FOR WISHBONE REAR BIG	Chassis (Front / Rear) : Rear Position : Left And Right	A4513500129-P
	<b>SM11002</b> BUSH FOR WISHBONE REAR SMALL	Chassis (Front / Rear) : Front Position : Left And Right	A4513500129-P
	<b>SM12001</b> STRUT MOUNTING FRONT	Chassis (Front / Rear) : Front Position : Left And Right Weight : 0,160 kg / 0.353 lb	0008236V003, 0008236V004 4513220028, 8236V003 8236V004

**FORTWO**
**453**
**2015 -**

Image	Product Code and Description	Details	OEM
	<b>RN1037</b> BALL JOINT FRONT LOWER	Weight : 0,27 kg / 0.595 lb Ball Joint Body Diameter : Ø38,7	
	<b>SM2003</b> TIE ROD END RH	Weight : 0,358 kg / 0.789 lb Length : 90 mm / 3.54 inch	45333-07000
	<b>SM2004</b> TIE ROD END LH	Weight : 0,358 kg / 0.789 lb Length : 90 mm / 3.54 inch	45333-07100

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**FORTWO**
**453**
**2015 -**

Image	Product Code and Description	Details	OEM
	<b>SM3003</b> AXIAL JOINT	Weight : 0,654 kg / 1.442 lb Length : 392,5 mm / 15.45 inch	Part of 4534630000, Part of 485215653R
	<b>SM4005</b> LINK STABILIZER FRONT	Weight : 0,296 kg / 0.653 lb Length : 202 mm / 7.95 inch	4533200089, 546181179R A4533200089
	<b>SM6007</b> CONTROL ARM (WITH BALL JOINT) FRONT LOWER RH	Weight : 2,235 kg / 4.927 lb	4533303000, 545047654R
	<b>SM6008</b> CONTROL ARM (WITH BALL JOINT) FRONT LOWER LH	Weight : 2,235 kg / 4.927 lb	4533302900, 545051097R
	<b>SM6009</b> CONTROL ARM (WITH BALL JOINT) FRONT LOWER RH	Weight : 2,731 kg / 6.021 lb	4533303200, 545048628R
	<b>SM6010</b> CONTROL ARM (WITH BALL JOINT) FRONT LOWER LH	Weight : 2,235 kg / 4.927 lb	4533303100, 545057345R
	<b>SM9004</b> CONTROL ARM REAR	Weight : 1,510 kg / 3.329 lb	4533506700, 555C35270R
	<b>SM11006</b> BUSH LONG FOR CONTROL ARM FRONT LOWER	Chassis (Front / Rear) : Front Position : Alt Uzun Weight : 0,165 kg / 0.364 lb Note : 16"WHEEL / LONG	4533302900*, 4533303000* 4533303100*, 4533303200* 545047654R*, 545048628R* 545051097R*, 545057345R*
	<b>SM11007</b> BUSH SHORT FOR CONTROL ARM FRONT LOWER	Chassis (Front / Rear) : Front Position : Lower Short Weight : 0,190 kg / 0.419 lb Note : 16"WHEEL / SHORT	4533302900*, 4533303000* 4533303100*, 4533303200* 545047654R*, 545048628R* 545051097R*, 545057345R*
	<b>SM11008</b> BUSH FOR CONTROL ARM REAR	Chassis (Front / Rear) : Rear Weight : 0,080 kg / 0.176 lb	4533506700*, 555C35270R*
	<b>SM12002</b> STRUT MOUNTING FRONT	Chassis (Front / Rear) : Front Weight : 0,350 kg / 0.772 lb Note : RULMANSIZ	4533200173, 543020218R A4533200173

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**ROADSTER**
**452**
**2003 - 2005**

Image	Product Code and Description	Details	OEM
	<b>SM1002</b> BALL JOINT FRONT LOWER	Weight : 0,225 kg / 0.496 lb	4513300010S
	<b>SM2002</b> TIE ROD END		4887V004, 4887V004000000 4887V005, 4887V005000000 4887V006, 4887V00600000
	<b>SM3002</b> AXIAL JOINT	Weight : 0,616 kg / 1.358 lb Length : 376,5 mm / 14.82 inch Body Thread Size : M14X1,5 Ball Pin Thread Size : M12X1,5	4514600051*
	<b>SM4001</b> LINK STABILIZER REAR	Weight : 0,189 kg / 0.417 lb Material Type : Metal Length : 149 mm / 5.87 inch Ball Pin Thread Size : M10X1,5	0001802V004000000, 1802V004000000 580431073
	<b>SM4002</b> LINK STABILIZER REAR	Weight : 0,322 kg / 0.710 lb Material Type : Metal Length : 93,5 mm / 3.68 inch Ball Pin Thread Size : M10X1,5	0005102V004000000, 5102V005 Q005102V00500000
	<b>SM6001</b> WISHBONE (WITHOUT BALL JOINT) FRONT LOWER	Weight : 2,131 kg / 4.698 lb Material Type : Metal	0007001V007000000, 0014141V001000 0014141V001000000, 0014141V002 14141V001, 14141V001000000 14141V002, 7001V004 7001V006, 7001V006000000
	<b>SM6006</b> WISHBONE (WITH BALL JOINT) FRONT LOWER	Weight : 2,185 kg / 4.817 lb Material Type : Metal	A4513300010, Q0014141V002000000
	<b>SM9002</b> CONTROL ARM REAR	Weight : 0,845 kg / 1.863 lb	1765V005, 1765V005000000 5102V005
	<b>SM11003</b> BUSH FOR TRACK CONTROL ARM LOWER CENTER	Position : Lower Center Left And Right Weight : 0,167 kg / 0.368 lb	14141V002000000*
	<b>SM11004</b> BUSH FOR CONTROL ARM REAR	Chassis (Front / Rear) : Rear Position : Rear	1765V005, 1765V005000000 Q1765V005, Q1765V005000000
	<b>SM11005</b> BUSH FOR CONTROL ARM REAR	Chassis (Front / Rear) : Rear Position : Rear	1765V005, 1765V005000000 Q1765V005, Q1765V005000000

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**ROADSTER** **452** **2003 - 2005**

Image	Product Code and Description	Details	OEM
	<b>SM12001</b> STRUT MOUNTING FRONT	Chassis (Front / Rear) : Front Position : Left And Right Weight : 0,160 kg / 0.353 lb	0008236V003, 0008236V004 4513220028, 8236V003 8236V004





# NOTES

Product Code	Additional Information
<b>SM11006</b> BUSH LONG FOR CONTROL ARM FRONT LOWER	16"WHEEL / LONG
<b>SM11007</b> BUSH SHORT FOR CONTROL ARM FRONT LOWER	16"WHEEL / SHORT
<b>SM12002</b> STRUT MOUNTING FRONT	WITHOUT BEARING
<b>SM6007</b> CONTROL ARM (WITH BALL JOINT) FRONT LOWER RH	STANDARD VERSION
<b>SM6008</b> CONTROL ARM (WITH BALL JOINT) FRONT LOWER LH	STANDARD VERSION
<b>SM6009</b> CONTROL ARM (WITH BALL JOINT) FRONT LOWER RH	FOR 16"WHEEL
<b>SM6010</b> CONTROL ARM (WITH BALL JOINT) FRONT LOWER LH	FOR 16"WHEEL