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> [CTR CB0274 Front Lower Ball Joint Instruction Manual](#)

CTR CB0274

CTR CB0274 Front Lower Ball Joint Instruction Manual

Model: CB0274 | Brand: CTR

1. PRODUCT OVERVIEW

The CTR CB0274 Front Lower Ball Joint is a critical component of your vehicle's suspension system. It functions as a spherical bearing that connects the steering knuckle to the control arm, allowing for dynamic and flexible movement of the suspension parts. This design helps to absorb impacts and ensure a smooth ride. Manufactured by CTR, an OE supplier, this ball joint is designed with premium grade materials and precision standards for reliable performance.



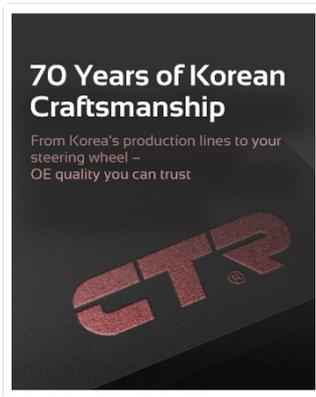
Image 1.1: The CTR CB0274 Front Lower Ball Joint, including the main joint assembly, circlip, nut, and bolt.



Image 1.2: The CTR CB0274 Front Lower Ball Joint alongside its product packaging, highlighting the brand and product type.

2. KEY FEATURES

- **High Hardness Ball Stud:** Manufactured with heat-treated, high-strength material for enhanced durability and performance.
- **Durable Rubber Boot:** Features a highly durable rubber boot designed to protect internal components from contaminants and maintain lubrication.
- **Long-lasting Surface Treatment:** Components undergo specialized surface treatment for extended lifespan and corrosion resistance.
- **Polymer Ball Seat:** Utilizes a specially designed polymer ball seat that results in longer-lasting performance due to low friction damage and low torque variation. This design eliminates the need for grease refilling.
- **Completely Sealed:** Designed to be completely sealed, preventing the need for grease refilling and ensuring consistent performance.



At CTR, we build premium parts that meet OEM standards — trusted by drivers worldwide and made with safety in mind.

A background image of a steering wheel with the CTR logo on it.

How did we get our start?
Established in 1952, CTR is an OEM auto parts manufacturer providing premium products for many car-makers and automotive aftermarkets around the world.

What makes our products unique?
Premium Quality. With our rich experience as an OE supplier, we promise quality products that are maintenance-free and matches OEM standards.

Why do we love what we do?
Our vision, "Central to Your Safe Mobility" means that we are a core company who provides safety to every move. We are proud in the belief that we're creating a safer world through continuous innovation.

Image 2.1: Visual representation of key features including the heat-treated ball stud, durable rubber boot, and polymer ball seat.

3. COMPATIBILITY AND FITMENT

The CTR CB0274 ball joint is compatible with a range of Ford, Mazda, Mercury, and Kia vehicles. Please verify fitment for your specific vehicle before purchasing or installing.

North American Region Compatibility:

- Ford Escape (2001-2012)
- Ford Probe (1989-1994)
- Mazda 3 (2004-2013)
- Mazda 3 Sport (2009-2013)
- Mazda 5 (2006-2010, 2012-2017)
- Mazda 626 (1983-1999, 2001-2002)
- Mazda MPV (2000-2006)
- Mazda MX-6 (1988-1997)
- Mazda Protege (1999-2003)
- Mazda Protege5 (2002-2003)
- Mazda Tribute (2001-2006, 2008-2011)
- Mercury Mariner (2005-2011)

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[amazonconfirmedfit](#)

Verify Fitment for Your Vehicle on Amazon



Image 3.1: Detailed fitment guide for North American vehicles compatible with CB0274.

European Region Compatibility:

- Kia Clarus FE (1996-2001)
- Kia Cremos FE (1996-2000)

FITMENT GUIDE

CB0274

PART NUMBERS

AY040NS125	4106040U95	41060RN26B	AY040NS101
AY040NS128	410604L090	41060ZB590	AY040NS102
AY040NS138	4106055F90	41060ZG225	AY040NS103
AY040NS155	410605L725	410614DW0A	AY040NS106
AY040NS162	410605M026	41061JA00A	AY040NS111
AY040NS177	410605Y790	4106M2Y9XO	AY040NS115
AY040NS818	410606M090	411202Y028	AY040NS117
AY040NS822	4106073L85	4811151110K0	AY040NS118
AY040NS841	4106073L91	4811152110K1	AY040NS119
AY040NS848	4106073L92	55200D56Y00C000	AY040NS125
AY040NS928	4106073L93	55200D56Y20C000	AY040NS128
AY040NS929	4106075T90	5581080J00	17631
D10601FC0A	4106075T91	5581080J01	29357
D10601FE09	4106085F90	5581080J02	42423
D10601FE0A	4106088E90	5581080J03	1181402
D10601KA1A	4106088E91	5581080J04	3590801
D10602Y991	4106088E92	5581080J51	11814 02
D10603ST0A	4106089E90	5581080J51L00	35908 01
D10604DW0A	4106089E91	AY040NS015	
D106085F90	4106089EX1	AY040NS032	
D106088E85	4106089EX2	AY040NS033	
10602Y090	410608J090	AY040NS041	
410600V090	410609E025	AY040NS048	
4106015E90	410609E0S0NW	AY040NS054	
410601605R	410609J425	AY040NS055	
410601E590	41060AC290	AY040NS057	
410602Y090	41060AL590	AY040NS062	
410602Y091	41060AM890	AY040NS078	
410602Y990	41060AM891	AY040NS082	
4106040U90	41060AM892	AY040NS088	
4106040U92	41060AU091	AY040NS090	
4106040U93	41060AX086	AY040NS099	



Image 3.2: Detailed fitment guide for European vehicles compatible with CB0274.

Replaces OEM Part Numbers:

This ball joint replaces various OEM part numbers, including but not limited to:

- 0G030-34-550A, 0G030-34-550B
- 0K030-32-550A, 0K9A2-34-300, 0K9A2-34-350, 0K9A6-34-300, 0K9A6-34-350
- 3L8Z3078AB, 3L8Z3079AB
- 4L8Z3078AA, 4L8Z3078R, 4L8Z-3078-R, 4L8Z3079AA, 4L8Z3079L, 4L8Z-3079-L
- 5L8Z3078AA, 5L8Z3079AA
- 6L8Z-3078-AA, 6L8Z-3079-AA
- B25D-34-300A, B25D-34-300B, B25D-34-300D, B25D-34-350A, B25D-34-350B, B25D-34-350D, B25D-99-350D
- B28V34350B, B32H-34-
- 17631, 29357, 42423, 1181402, 3590801, 11814 02, 35908 01



Image 3.3: A comprehensive list of part numbers that the CB0274 ball joint replaces.

4. FAILURE SYMPTOMS

A failing ball joint can lead to several noticeable symptoms that indicate a need for inspection and replacement. Recognizing these signs early can prevent further damage to your vehicle's suspension and ensure driving safety.

- **Loose-fitting Wheels:** If wheels can be shaken up and down easily, it may indicate a loose-fitting ball joint.
- **Creaking Noise & Vibration:** Unusual creaking noises and vibrations while driving are common indicators of a worn ball joint.
- **Decreased Straightness:** Difficulty maintaining a straight path or a feeling of wandering steering can be a symptom.
- **Uneven Tire Wear:** Abnormal or uneven wear patterns on your tires can result from improper alignment caused by a failing ball joint.

Your browser does not support the video tag.

Video 4.1: This video demonstrates the symptoms of a failing ball joint, including wheel looseness, and explains how to identify them. It also provides a comparison between old and new parts, and a guide for disassembly and assembly.

5. DISASSEMBLY INSTRUCTIONS

Follow these steps to safely remove the old ball joint. Refer to Video 4.1 for visual guidance.

1. **Loosen Control Arm Bushing Fixing Bolt:** Use appropriate tools to loosen the bolt that secures the control arm bushing.
2. **Loosen Fixing Bolt Connecting Knuckle and Ball Joint:** Locate and loosen the bolt that connects the steering knuckle to the ball joint.
3. **Remove Control Arm:** Carefully remove the control arm. If the ball joint is stuck and cannot be separated easily, use a puller tool to assist in removal.
4. **Loosen Fixing Bolt between Control Arm and Ball Joint:** Once the control arm is removed, loosen the fixing bolt that connects the ball joint to the control arm. The separation method may vary depending on the specific ball joint type.

6. ASSEMBLY INSTRUCTIONS

Follow these steps to install the new CTR CB0274 ball joint. Refer to Video 4.1 for visual guidance.

1. **Attach New Ball Joint to Control Arm:** Secure the new ball joint to the control arm. Ensure proper alignment before tightening.
2. **Reinstall Control Arm:** Carefully reattach the control arm to the vehicle's suspension. Use a soft-faced hammer only if necessary to seat the components; an iron hammer can damage the product.
3. **Tighten Fixing Bolt Connecting Knuckle and Ball Joint:** Securely tighten the bolt that connects the steering knuckle to the ball joint.
4. **Tighten Control Arm Bushing Fixing Bolt:** Tighten the control arm bushing fixing bolt.
5. **Final Tightening:** The last tightening of all bolts must be performed with the prescribed torque specifications to ensure proper function and safety. Consult your vehicle's service manual for specific torque values.

7. SPECIFICATIONS

Specification	Value
Manufacturer	CTR
Brand	CTR
Model	Suspension Ball Joint

Item Weight	15.1 ounces
Package Dimensions	3.98 x 3.58 x 3.5 inches
Country of Origin	Korea, Republic of
Item Model Number	CB0274
Exterior	Machined
Position	Front Lower

8. MAINTENANCE

Regular inspection of your vehicle's suspension components, including ball joints, is crucial for safety and longevity. While CTR ball joints feature a sealed design that eliminates the need for grease refilling, periodic checks for wear, tear, or damage to the rubber boot are recommended. Any visible damage to the boot can lead to contamination and premature failure of the joint.

If you notice any of the failure symptoms described in Section 4, it is advisable to have your vehicle inspected by a qualified mechanic immediately.

9. TROUBLESHOOTING

If you experience issues that may be related to the ball joint, consider the following:

- **Noise or Vibration:** Check for looseness in the wheel by lifting the vehicle and attempting to shake the wheel vertically and horizontally. If significant play is detected, the ball joint may be worn.
- **Steering Issues:** If the vehicle pulls to one side or feels unstable, an alignment check is recommended. Worn ball joints can affect alignment.
- **Tire Wear:** Inspect tire tread for uneven wear patterns (e.g., feathering, cupping). This can be a sign of suspension issues, including ball joint wear.

For any persistent issues, professional diagnosis and repair are recommended.

10. WARRANTY AND SUPPORT

Specific warranty information for the CTR CB0274 Front Lower Ball Joint is typically provided at the point of purchase or within the product packaging. Please retain your proof of purchase for any warranty claims.

For technical support or further inquiries, please refer to the contact information provided by your retailer or visit the official CTR website. Always ensure that installation and maintenance are performed by qualified personnel to maintain product warranty and vehicle safety.

Warning: This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer.

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