



**- Installation Manual -**

**Part No. 6A1 474 LN**

**Rear Lateral Link / Lower Control Arm**

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## Rear Lateral Link

Thank you for purchasing CUSCO products. Please make certain that this instruction manual and the vehicle's factory service manual is fully read and acknowledged prior to installation. When transferring usage of the product, please make sure the instruction manual is given to the new owner with the product, or to anyone operating the vehicle. When this product or the vehicle equipped with this product is given/let borrow to others, please hand this manual to the person who receive the product or vehicle.



Wear protective eyewear and gloves.



### Please read this first

#### Attention

A potential possibility of malfunction and (or) breakage can result to the product and (or) to the vehicle if this indication is ignored, if wrongful usage and (or) operation is performed.

- This instruction manual includes the usage and installation. Read this manual thoroughly before operating. Please keep this instruction in the vehicle at all times.
- This product is for off-road or competition use only. By reading this warning the customer acknowledges that Cusco products are not permitted for use on public highways.
- This product includes all components listed in this instruction manual. If there are any missing or damaged parts, please contact an authorized CUSCO retailer.
- Always disconnect the battery before beginning any type of work on the vehicle.
- CUSCO cannot be responsible for any loss or damage to the product or the vehicle, when used in combination with other product(s) and (or) unauthorized tamperment to this product.
- CUSCO cannot be responsible for any injury or damage caused to the individual or third party as well as malfunction of the vehicle, products and (or) accessories.
- This product and accessories can be changed without prior notice due to production and manufacturing reasons.
- CUSCO cannot be responsible for any factory OEM parts lost during temporary removal process when performing installation.
- Some components such as car audio and clock can lose memory when the battery is disconnected while installing. After completion of the installation process, recover the setting referring to each instruction manual. CUSCO cannot be responsible for lost settings.
- Perform periodical inspection. The durability of this product can vary depending the surrounding conditions and usage.
- CUSCO cannot be responsible for any voided factory warranty due to installation of this product.
- Acknowledge that the installation of CUSCO products will alter vehicle control characteristics. Operate vehicle with extreme caution after product installation.
- Always install products according to the automobile manufacturer factory service manual unless otherwise specified in this installation manual.



#### Danger

An immediate possibility of serious injury and (or) even death can be assumed to the individual and (or) to the third party if this indication is ignored and wrongful usage and (or) operation is performed.

- Any service to the car with removal of the parts should be performed by trained professionals at a properly equipped workshop.
- Resting, sleeping in the car, or working in the car or in the closed garage can cause carbon monoxide poisoning, which can be fatal. Must turn the engine off and keep the area well ventilated.
- Always place wheel chock to prevent the vehicle from moving.
- Be careful with wiring when making connections directly in relationship with driving equipment, such as engine, steering, brake, and air-bag.
- Always make sure that the wiring is done properly. Take extra caution when dealing with positive and negative polarity. Make sure that the wires are insulated and there are no loose wires. If any wiring is performed in error, it may cause a fire on this product and/or the vehicle. Please disconnect the battery terminal wires before beginning the installation process. In case if it is not possible to shut off the power supply, it is your own responsibility to protect yourself from any injury as well as avoid electric shock and/or short circuit which can cause damage to the product and/or the vehicle.
- Use and install Cusco products only as directed by the manufacturer. Do not modify product to fit unspecified application. Misuse of product may lead to serious injury or death.



#### Warning

A potential possibility of serious injury and (or) even death can be assumed to the individual and (or) to the third party if this indication is ignored and wrongful usage and (or) operation is performed.

- Exhaust manifold, radiator, and engine can be very hot. Please provide sufficient cool down time before starting any installs.
- Exhaust manifold, radiator, engine can be extremely hot while the vehicle is running immediately prior to vehicle usage. There is high possibility of injury when coming in contact with such components.
- Keep clear from infants, small children, and animals. Keep small parts away to avoid accidents. (prevent the parts from being swallowed/inhaled)
- Exhaust pipe can be very hot. Wear proper protective clothing when working in or around this area.
- Avoid installing any product in areas that can interfere with vision of the front windshield, driving equipments, and/ or air-bag system and other safety features..
- Take caution when installing this product near electric wires, water hoses, and air hoses. and avoid inflicting and damages to them. Damaging the electric wires, water hoses, and air hoses can cause short circuit and/or critical engine damage.



#### Caution

A potential possibility of serious injury and (or) even death can be assumed to the individual and (or) to the third party if this indication is ignored and wrongful usage and (or) operation is performed.

- Dropping and/or applying the excessive force to this product before or during installation can cause damage, resulting in malfunction of the product.
- This product is designed to be used in 12V power vehicles only. Do not install this product in different voltage supplied vehicle.
- Make sure to insulate the unused connector and wirings to avoid short circuiting.
- Always use the supplied hardware.
- Installation of components on the passenger side or center section can interfere with safety standards. Please check within local regulations before installing.
- Use a soft cloth to clean the product gently. Using cleaners or abrasive agents can damage the product.

### Notes



#### Warning

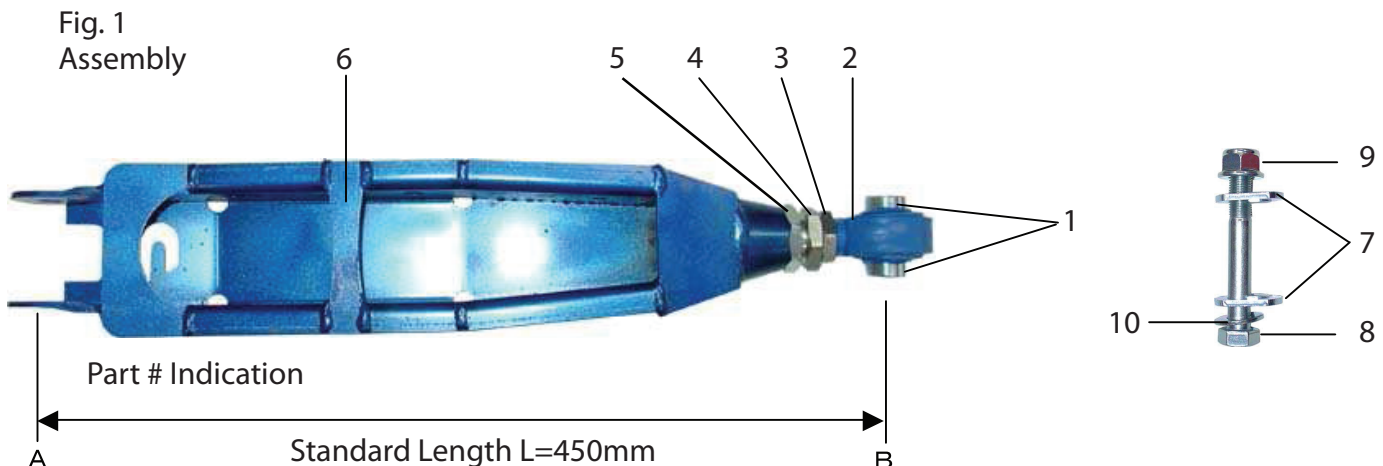
- Installation by non-professionals and unauthorized shops voids product warranty.
- Always focus on driving first, and never on the gauge displays. This may cause vehicle accidents and can even result in death.
- Perform product setting adjustment and other operation when the vehicle is parked at safe place.
- Do not disassemble or apply any modifications to this product. Such alterations can cause vehicle accidents or product damage. This also voids the product warranty.
- If any problem is found (wet/odor/smoke/erratic movement etc.), stop using the product IMMEDIATELY and contact your local retailer. Prolonged usage with such symptom can lead to accident or vehicle damage.
- CUSCO cannot be responsible for any damages while using this product, or any damages caused by this product usage.

## Rear Lateral Link

[Part Number]	6A1-474-LN
[Vehicle Application]	'08-'14 Subaru Impreza WRX STi(GRF/GVF) '08-'14 Subaru Impreza / WRX (GH) '13-'16 Subaru Impreza (GP-2.0L) '13-'17 Subaru Crosstrek/XV (GP-2.0L) '18+ Subaru Crosstrek/XV (GT-2.0L) '13-'16 Subaru Forester (SJ-2.5L) '17+ Subaru Forester (SK-2.5L) '15+ Subaru WRX / STi (VA-2.0L NA & 2.5L Turbo) '13-'16 Scion FR-S '17+ Toyota 86 '13+ Subaru BRZ '10-'13 Subaru Legacy Sedan (BM) / Outback (BR)

[Part Description] Rear Pillowball Lateral/Control Arm Set

[ Kit Contents]	1) Collar	x4
	2) Pillowball	x2
	3) Lock Nut	x2
	4) Turnbuckle	x2
	5) Lock Nut	x2
	6) Lateral Arm	x2
	7) Oval Plate Adapter	x4
	8) Bolt, M12, L=90mm	x2
	9) Nut, Nylock, M12	x2
	10) Washer, M12	x2



Rear Lateral Link

[Procedure]

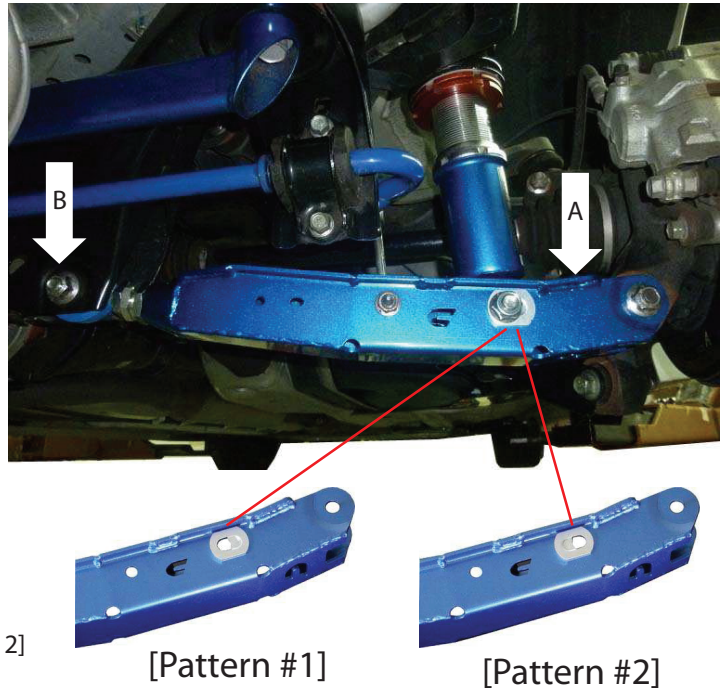
- 1) Remove rear wheels.
- 2) Remove factory rear lateral linkas per the manufacturer factory service manual.
- 3) Before installing the Cusco Lateral Link, set the rod to its shortest length first. Refer to the assembly photo in the previous page.

Here are the steps for shortening the Trailing Rod. [Refer to Fig 1.]

1. Loosen the locknut (#3).
2. Screw in the pillowball (#2) until the thread is not visible.
3. Loosen locknut (#5).
4. Screw in until the thread on #6 is not visible.

- 4) Measure the factory rear lateral link that was removed from the vehicle earlier, from the center of hole A to center of hole B. [Fig. 2]

Fig. 2



- 5) Take the measurement from #4 step (hole center A to B) and set the Cusco Lateral Link to the same length. The Cusco Link should be at its shortest at this point, adjust the length by turning the Turnbuckle shaft (#4 Fig.1) only. Do not adjust by turning the Pillowball (#2 Fig1) or the Rod (#6 Fig.1).

- 6) The overall length of the Cusco Lateral Link should be within the parameter 450mm ±12mm. It should not be longer than 462mm and shorter than 365mm.

- 7) Set the #7 Oval Plate Adapter's direction for the vehicle specific. Please see below for the list.
  - Pattern #1: '08-'14 Subaru Impreza/WRX/STi (GH/GR/GV), '13-'16 Crosstrek (GP), '13-'16 Forester, Scion FR-S/Toyota 86/Subaru BRZ
  - Pattern #2: '15+ Subaru WRX / STi, '17+ Subaru Forester (SK)Tighten Bolts & Nuts "A" & "B" and "Oval Plate" at 120 N.m / 88.5 ft.lbs. torque at the vehicle on Ground Position.

- 8) Perform a wheel alignment according to the manufacturer factory service manual specification. When the locknut is inaccessible due to the lowered vehicle ride height, remove the bottom bolt+screw of the shock absorber or remove bolt+nut from the pillowball end of the link and tighten.

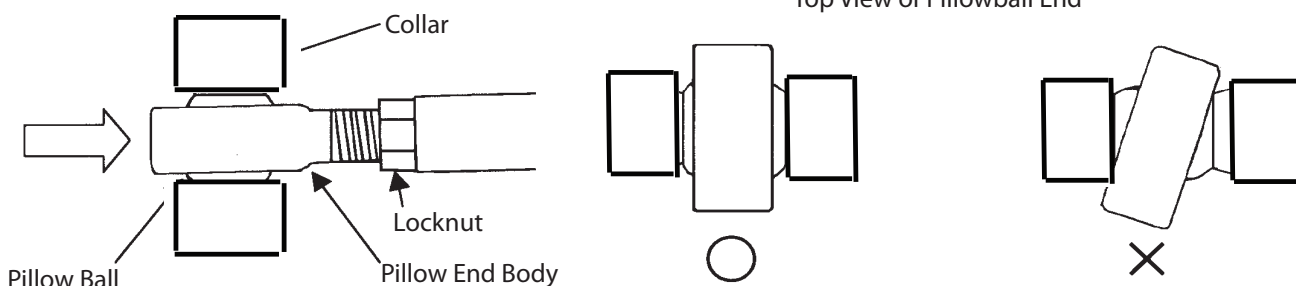
- 9) Tighten the locknuts (#2 & #4, Fig.1) to 78 N.m / 58 ft.lbs. torque specification.



Warning

When tightening the locknut

When Make certain that the pillowball piece is facing parallel to the Rod end body when tightening the locknut. The pillowball should be parallel and straight in reference to the collar when installed onto the vehicle.



\*\*Periodically check and re-torque all nuts and bolts after operating vehicle.