

Cusco 6A5 65T A

CUSCO Touring A OEM Shape Shock Absorber Set

MODEL: 6A5 65T A FOR SUBARU LEVORG VM SERIES

1. INTRODUCTION

The CUSCO Touring A shock absorber is engineered to enhance ride comfort and handling performance while maintaining the original vehicle height. This set features a 40-step damping force adjustment mechanism, allowing for precise tuning to suit various driving conditions and preferences. It is a twin-tube, OEM-shape shock absorber, designed to match the original shock length, rod length, stroke, and spring seat position. This product is compatible with OEM upper mounts and OEM-shaped springs. For advanced customization, it can also be used with Cusco pillow ball upper mounts or lowering springs, which are sold separately. The design incorporates features for quiet operation, effectively suppressing characteristic operating noises. Furthermore, it is compatible with the optional e-con2 electronic damping force adjustment controller, offering convenient in-cabin adjustments.

At its maximum (MAX HARD) setting, the Touring A provides up to 140% damping force compared to the OEM specifications, delivering a significantly firmer ride when desired. Please note that when using normal springs, the vehicle height will remain unchanged from the factory setting.

Applicable Vehicle Models: Subaru Levorg VM series (VMG / VM4)

Main Features:

- 40-step damping force adjustment for customizable ride comfort and handling.
- Compatibility with the separately sold e-con2 electronic damping force adjustment controller.
- Features CPRV (Pressure Proper Valve) technology for optimal damping control.

2. SAFETY INFORMATION

Please read and understand all instructions before installation and use. Improper installation or use can lead to serious injury or damage to your vehicle. Professional installation by a qualified mechanic is highly recommended.

- Always wear appropriate personal protective equipment, including safety glasses and gloves, during

installation.

- Ensure the vehicle is securely supported on a level surface using jack stands before beginning any work. Never rely solely on a jack.
- Do not modify the shock absorbers or any related components. Unauthorized modifications can compromise safety and performance.
- Keep hands and clothing clear of moving parts and pinch points during installation.
- Dispose of old parts and packaging responsibly according to local regulations.

3. SETUP AND INSTALLATION

3.1 Pre-Installation Checks

- **Vehicle Compatibility:** Before purchasing and installing, verify your vehicle's model, engine type, drive system, year, and grade using your vehicle inspection certificate or caution plate. Always confirm compatibility on the manufacturer's official homepage to avoid errors.
- **Parts Inspection:** Unpack all components and verify that all parts listed in the packing list are present and undamaged.
- **Tools Required:** Gather all necessary tools, including wrenches, sockets, torque wrench, spring compressor (if applicable), and vehicle lift or jack stands.

3.2 General Installation Steps

1. Safely lift and support the vehicle. Remove the wheels.
2. Carefully remove the original shock absorbers and associated suspension components. Refer to your vehicle's service manual for specific removal procedures.
3. Assemble the CUSCO Touring A shock absorbers with your existing OEM springs and upper mounts, or compatible aftermarket components. Ensure all components are correctly oriented and securely fastened.
4. Install the new shock absorber assembly onto the vehicle. Tighten all bolts and nuts to the torque specifications provided in your vehicle's service manual.
5. Repeat the process for all four corners of the vehicle.
6. Lower the vehicle and perform a final check of all installed components.
7. It is recommended to have a wheel alignment performed after suspension component replacement.



Image: Illustration of suspension installation and engineering design process.

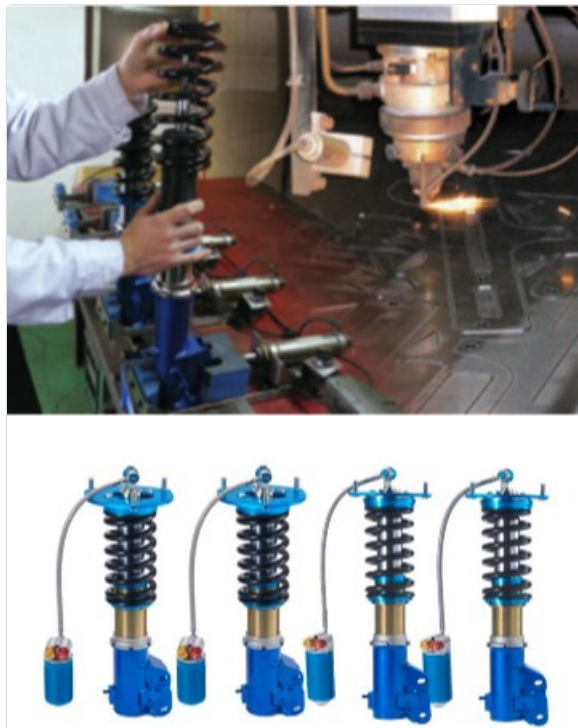


Image: Manufacturing and final product view of CUSCO shock absorbers.

4. OPERATING INSTRUCTIONS

4.1 Damping Force Adjustment

The CUSCO Touring A shock absorbers feature a 40-step damping force adjustment. This allows you to fine-tune the ride characteristics from soft to hard, adapting to different driving styles, road conditions, or load requirements.

- **Manual Adjustment:** The adjustment knob is typically located at the top of the shock absorber shaft. Turn the knob clockwise for harder damping and counter-clockwise for softer damping. Each click

represents one step of adjustment. Always adjust both left and right shocks on an axle to the same setting.

- **e-con2 Electronic Controller (Optional):** If you have installed the optional CUSCO e-con2 electronic damping force adjustment controller, you can adjust the damping force from within the vehicle cabin. Refer to the e-con2 instruction manual for detailed operating procedures.

It is recommended to start with a moderate setting and gradually adjust to find your preferred balance of comfort and performance. Make small adjustments and test drive the vehicle to feel the changes.



Image: Detail of the damping force adjustment mechanism.

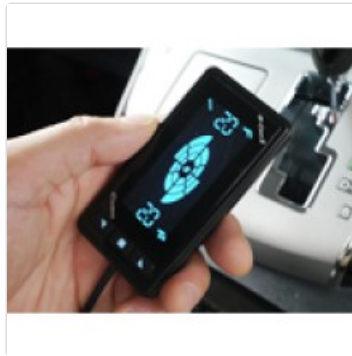


Image: The optional CUSCO e-con2 electronic damping force controller.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your CUSCO Touring A shock absorbers.

- **Regular Inspection:** Periodically inspect the shock absorbers for any signs of oil leaks, damage to the body or shaft, loose mounting bolts, or worn bushings. Address any issues promptly.
- **Cleaning:** Keep the shock absorbers clean, especially the piston rod area, to prevent dirt and debris from entering the seals. Use a mild soap and water solution, then rinse thoroughly. Avoid using harsh chemicals or abrasive cleaners.
- **Torque Check:** After the initial installation and after approximately 1,000 km of driving, re-check the torque of all mounting bolts and nuts.
- **Damping Adjustment Mechanism:** Ensure the damping adjustment knob operates smoothly. If it becomes stiff, clean the area around the knob.

6. TROUBLESHOOTING

If you experience any issues with your CUSCO Touring A shock absorbers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unusual noise (clunking, squeaking)	Loose mounting bolts, worn bushings, foreign object contact.	Check and re-torque all mounting bolts. Inspect bushings for wear and replace if necessary. Check for clearance issues.
Poor ride quality (too soft/hard)	Incorrect damping force setting, worn springs, damaged shock.	Adjust damping force. Inspect springs for damage. If shock is damaged (e.g., oil leak), it may require replacement.
Oil leakage from shock absorber	Damaged oil seal, internal component failure.	This indicates a fault. The shock absorber requires inspection and likely replacement by a qualified technician.

If the problem persists after attempting these solutions, please contact CUSCO customer support or a certified service center.

7. SPECIFICATIONS



Image: CUSCO Touring A OEM Shape Shock Absorber Set.

Feature	Detail
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Feature	Detail
Brand	Cusco
Model Number	6A5 65T A
Applicable Vehicle	Subaru Levorg VM Series (VMG / VM4)
Placement	Rear
Damping Adjustment	40-step (Rebound and Compression)
Shock Type	Twin-tube, OEM Shape
Vehicle Height	Maintains OEM height with normal springs
Damping Force Ratio (Max Hard)	Up to 140% compared to OEM
Electronic Control Compatibility	Compatible with CUSCO e-con2 (sold separately)
Valve Technology	CPRV (Pressure Proper Valve) adopted

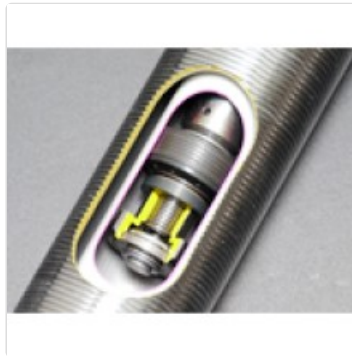


Image: Internal view of the CPRV (Pressure Proper Valve) technology.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

This CUSCO Touring A shock absorber set comes with a **1-year or 10,000 km warranty**, whichever comes first. User registration is required to activate the warranty. Please retain your proof of purchase for warranty claims.

The warranty covers manufacturing defects and material faults under normal use. It does not cover damage caused by improper installation, misuse, accidents, racing, or unauthorized modifications. For full warranty terms and conditions, please refer to the official CUSCO website or contact customer support.

8.2 Customer Support

For technical assistance, warranty claims, or any other inquiries regarding your CUSCO Touring A shock absorbers, please contact CUSCO customer support through their official website or authorized distributors.

CUSCO Official Website: www.cusco.co.jp

Please have your product model number (6A5 65T A) and proof of purchase ready when contacting support.

