

## KYB NEWS

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### Application of “KADS”, an electronically controlled suspension system to snowmobile



KYB is expanding the application of “KADS<sup>\*1\*2</sup>”, an electronic suspension system that fuses our core control and hydraulic technologies, to snowmobiles. The system includes the addition of KYB’s proprietary attitude control technology based on our “Ground-Hook” concept, which brings cornering to a new level that minimizes roll. As a result, it provides the rider with stable ground contact and vehicle attitude (secure feeling) of both skis in all riding situations, contributing to high stability and controllability as well as supporting their riding skill.

“KADS” is scheduled to be installed in the 2022 models of the MXZ X-RS, RENEGADE X-RS and MACH Z snowmobiles of Bombardier Recreational Products Inc.

Going forward, KYB will continue our efforts to develop new products and propose systems that respond to a diverse range of customer demands.

<sup>\*1</sup> KADS stands for KYB Actimatic Damper System. Actimatic is a term that combines the words active and automatic, expressing the high maneuverability obtained through automatic adjustments.

<sup>\*2</sup> “KADS” and “Actimatic Damper System” are trademarks of KYB.

### ■ Product Information

We have perfected each component in motorcycle applications, developed the control technology that integrates those components, and now added attitude control technology for application to snowmobiles.

#### ECU (Electronic Control Unit)

With our newly developed original controls for snowmobile, ECUs detect the state of the vehicle in real time from multiple sensors installed onboard, and automatically adjust the suspension damping force to appropriately match the snow situation (such as driving, idling, or turning).



#### Suspension (Front-cushion unit / Rear-cushion unit)

Using the solenoid valve developed for motorcycles, the suspension produces damping force over a wider range than conventionally possible at high reaction velocity.



■ **Vehicle information**



RENEGADE X-RS

Source: Bombardier Recreational Products Inc. Website

For more information, please contact:

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