

St. Valentin, September 12<sup>th</sup> 2018

## **New Case IH Advanced Trailer Brake System improves tractor stability and safety**

*Unique Case IH Advanced Trailer Brake System prevents trailers and other heavy, trailed equipment from 'jack-knifing' / Optional on new Case IH Puma 185-240 CVX tractors / Low-cost safety enhancement solution will be extended to other Case IH models*



The new Case IH Advanced Trailer Brake System represents a major advance in tractor safety and can now be specified as an option on Puma 185, 200, 220 and 240 CVX models.

Its benefits are not confined to haulage situations on roads where conditions provide very low grip, such as snow and ice. The Advanced Trailer Brake System is also a significant advantage on wet roads and under field conditions when working on gradients, turning, or reducing speed. This is especially true when towing heavy equipment, including large trailers, balers, slurry tankers or trailed sprayers, particularly on wet grassland or soil. It will also be beneficial when hauling trailers with a pivoting front axle, where stability is reduced if the tractor slows without the brakes being applied.

In many cases where a tractor and trailer are used, the speed of the combination is reduced by the engine braking effort imparted by the tractor alone. In such situations unbraked trailers can push on the slowing tractor, potentially causing it to become unstable and the trailer to jack-knife.

The Case IH Advanced Trailer Brake System monitors and recognises driving conditions and, when engaged, automatically stabilises the tractor using the trailer brakes. Whenever the driver requests a speed decrease, either via the Multicontroller or by releasing the drive pedal, the system estimates the deceleration force required by comparing the target vehicle speed with the actual speed. It then adjusts the braking force applied with a measurement of transmission input torque, based on the flywheel torque sensor and Engine Control Unit data.

This information is used to calculate and apply the appropriate pressure needed to balance the deceleration force on the tractor with the momentum exerted by the trailer. Aligning the deceleration of the trailer with that of the tractor ensures that both remain stable, optimises braking performance and maximises safety.

PRESS RELEASE

The 35kph speed threshold allows the driver to make minor speed adjustments when travelling on the road without the trailer brakes being applied. If the system is activated excessively they will be alerted by audible and visual warnings. Additionally, to avoid overheating and fading of the brakes, the system applies pulsated braking power and adds a short break after five seconds.

Initially a €436 option on new Puma 185 - 240 CVX models equipped with pneumatic trailer brakes, this patented system can be retrofitted on all Puma 185 – 240 CVX tractors that are compliant with the European Tractor Mother Regulation. The Case IH Advanced Trailer Brake System will become available on other Case IH Puma, Maxxum and Optum tractors equipped with the CVXDrive transmission from the beginning of 2019.

“This is an extremely important feature which Case IH are able to offer that is not available from any other manufacturer. In addition to enhancing safety, it will also provide operators with much greater peace of mind when working with heavy trailed equipment in difficult conditions,” Hans-Werner Eder, Product Marketing EMEA, Case IH states.

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Press releases and photos: <http://mediacentre.caseiheurope.com>

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