



HEAVY DUTY SERVICE BULLETIN

AMERICAN BRAKEBLOK DIVISION



BULLETIN NO. 22

DOES THE DIRECTION OF CAM ROTATION MAKE A DIFFERENCE?

The "S" cam brake usually has the cam turning in the direction of the forward wheel rotation. However, because of hardware accommodation it is necessary at times to have the cam turn opposite to the forward rotation of the wheel. This opposite or reverse cam rotation can at times introduce brake noise, chatter and will result in increased lining wear.

Reverse cam rotation results in a 20 to 25% increase in brake torque. This increase in effectiveness is consistent for any given set of braking conditions.

The reason for greater effectiveness with opposite cam rotation is the angle of force resulting in more leverage on the shoe. The results of controlled dynamometer tests and actual field evaluations support this fact.


Patrick J. Meade
Technical Service Engineer

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