

# Direct Replacement for OE, Original Equipment

## Brake Drag Issues:

During prolonged braking, it is normal for the drum to increase the chamber stroke by as much as 1/4" due to drum expansion caused by elevated heat. During this event, the [slacks] rate of adjustment is critical in helping reduce the risk of over-adjustment and brake drag. If the [slack] adjusts aggressively to overcome or eliminate this temporary **lining to drum** gap, when the brake drum cools and moves back to its normal size you will be guaranteed a bad case of brake drag.

**MORE** brake applications, designed to provide a **MORE** gradual adjustment rate significantly reduces the risk of brake drag. **MORE IS BETTER.**



**IN EVERY CASE, THE PROLINE HD STYLE [slack] EQUALS OR EXCEEDS THE NUMBER OF BRAKE APPLICATIONS COMPARED TO THE OE BRAND [slack].**

**Example 1:** the chart shows the GUNITE [slack] takes 12 brake applications to RANGERS 23 brake applications to overcome the same 1/4" gap. Result: The PROLINE HD style [slack] adjusts more gradually reducing the likelihood of brake drag.

**Example 2:** the chart shows the BENDIX [slack] takes 35 brake applications to rangers 34 brake applications to overcome the same 1/4" gap. Result: The PROLINE HD style [slack] adjusts virtually the same as the Bendix OE brand.

### Adjustment Rate

#### OE vs PROLINE HD BRAKE

ORIGINAL EQUIPMENT BRAND	DRUM EXPANSION	# OF ORIG EQP BRAKE APPS	# OF PROLINE HD BRAKE APPS	ORIG EQP LINING TO DRUM CLEARANCE	PROLINE HD LINING TO DRUM CLEARANCE
BENDIX_VERSAJUST	1/4"	35	34	.014	.013
GUNITE_2000	1/4"	12	23	.014	.012
MERITOR	1/4"	14	22	.012	.012
HALDEX_S-ABA	1/4"	22	23	.009	.012

**Every PROLINE HD [slack] is tested in the USA to meet SAE462 requirements.**

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## AUTOMATIC SLACK ADJUSTERS

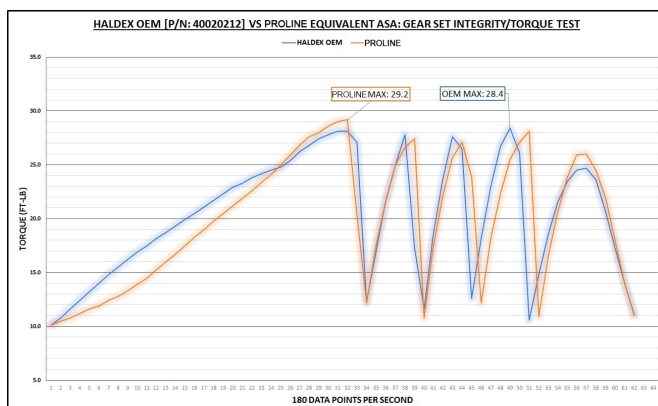
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### Gear Set / Integrity:

SAE J1462 Section 9.2-9.3 is the testing procedure used for evaluating gear-set integrity of a brake adjuster. Note: Each OE brand [slack] has been tested to establish the baseline data necessary to provide comparative data analysis.

The following charts illustrate the precision and consistency of each PROLINE HD style [slack] when compared to the equivalent OE brand [slack] gear-set torque values. [OE/Blue and PROLINE HD/Red brand gear-set integrity torque results. SAE J1462]

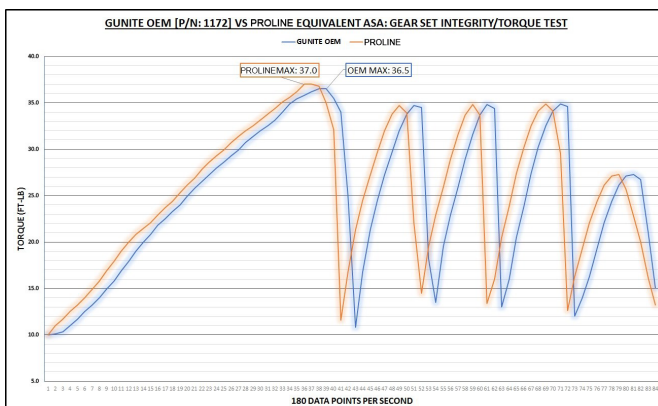


HALDEX  
S-ABA

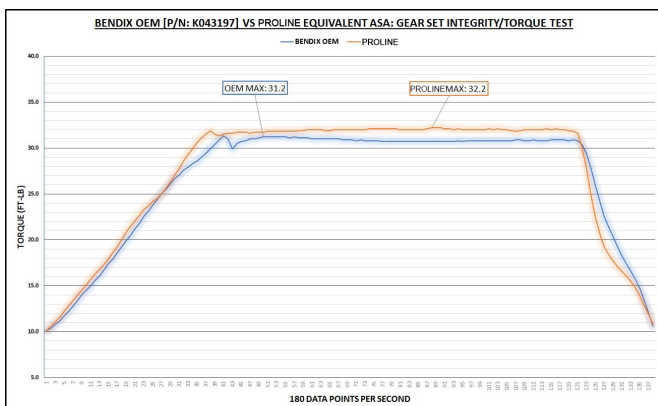
### LINING TO DRUM CLEARANCE

The precision of the gear set defines the increment of adjustment and consistency. Any deviation in the adjustment rate will create irregularities in the Lining to Drum Clearance.

Any clearance irregularities will promote excessive lining wear and may increase vehicle stopping distances.



GUNITE  
2000



BENDIX  
VERSAJUST

Every PROLINE HD [slack] is tested in the USA to meet SAE J1462 requirements.