

# TECHNICAL BULLETIN

## HENDRICKSON SUSPENSIONS

**SUBJECT:** HXS® Extended Service  
S-Cam Conversion Notice

**LIT NO:** B102

**DATE:** July 2000

Hendrickson Trailer Suspension Systems is pleased to announce a change to our standard brake component offerings (FMSI 4515). We are implementing this change in an effort to standardize our brake assemblies and simplify the selection of service parts. Effective 3/14/00, Hendrickson began shipping the HXS® extended service brake S-cam with all standard service brake assemblies. This HXS extended service brake S-cam, identified by an "HXS" engraved on the spline end of the cam, is now approved for use with both standard and HXS extended service brake assemblies. This change allows you, during brake service, to replace a worn S-cam on either standard or extended service brake assemblies with the HXS extended service S-cam. The following table summarizes this change in terms of part numbers:

S-CAM	OLD PART NUMBERS		NEW EXTENDED SERVICE S-CAM PART NUMBERS	
	Left Hand	Right Hand	Left Hand	Right Hand
28-SPLINE STANDARD	C-20806-1L	C-20806-1R	C-24636-1L	C-24636-1R
28-SPLINE HXS	C-23347-1L	C-23347-1R	C-24636-1L	C-24636-1R
10-SPLINE STANDARD	C-21717-1L	C-21717-1R	C-23857-1L	C-23857-1R

**⚠ CAUTION:** Never use a standard service S-cam in place of an HXS extended service S-cam on an HXS extended service brake assembly. This will result in the inability to assemble the drum onto the wheel end.

The following brake certification tables reflect this brake component change.

### STANDARD BRAKE CERTIFICATE OF COMPLIANCE

BRAKE SHOE SIZE	LINING	BRAKE RATING (Pounds)	WHEN USED WITH:		
			Tire SLR	Slack Length	Chamber Size
16.5" x 7" (FMSI 4515)	ABEX 3030-197	17,000 - 20,000	17" - 20.3"	5.5"	30/30
				6"	
	ABEX 931-162	17,000 - 22,000 17,000 - 23,000	17" - 20.8"	5.5"	
				6"	
	Carlisle MB-21	17,000 - 20,000	17" - 20.3"	5.5"	
				6"	
	Brake Pro CM-18	17,000 - 22,500	17" - 20.3" 17" - 20.8"	5.5"	
				6"	
	Haldex 2015-2	17,000 - 20,000	17" - 20.3"	5.5"	
				6"	
	Haldex 2020-1	17,000 - 23,000	17" - 20.8"	5.5"	
				6"	

This is to certify that the Hendrickson INTRAAX® and VANTRAAX® suspension/axle assembly and brake system described in the following table complies with the current revision of DOT 49 CFR 571.121 and Canadian Motor Vehicle Safety Standards, Service Brakes, Par. S5.4 and Parking Brakes, Par. 5.6.1 when equipped as described in the standard brake certificate of compliance table.

*For The Road Ahead*

 HENDRICKSON

The suspension/axle assembly is rated as indicated in the following table when installed according to the instructions provided in Hendrickson's INTRAAX and VANTRAAX suspension installation procedures (publication L341), and when maintained according to the instructions provided in Hendrickson's system maintenance procedures (publication L578).

MODEL SERIES	INTRAAX®				VANTRAAX®		
	AA230	AA250	AA300	AA300ED	HKA180	HKA200	HKA250
SUSPENSION RATING (lbs.)	23,000	25,000	30,000	30,000	40,000	46,000	50,000
AXLE RATING (lbs. per axle)	23,000	25,000	25,000	30,000	20,000	23,000	25,000
DUAL WHEEL AXLE TRACK	71.5"/77.5"				71.5"/77.5"		

### HXS BRAKE CERTIFICATE OF COMPLIANCE

BRAKE SHOE SIZE	LINING	BRAKE RATING (Pounds)	WHEN USED WITH:		
			Tire SLR	Slack Length	Chamber Size
16.5" x 7" (FMSI 4707)	ABEX 3030-197	17,000 - 20,000	17" - 20.3"	5.5"	30/30
				6"	
	ABEX 931-162	17,000 - 22,000 17,000 - 23,000	17" - 20.8"	5.5"	
6"					
Carlisle MB-21	17,000 - 20,000	17" - 20.0" 17" - 20.3"	5.5"		
			6"		
16.5" x 8.625" (FMSI 4711)	ABEX 3030-197	17,000 - 20,000 17,000 - 22,500	17" - 20.3"	5.5"	30/30
				6"	
	ABEX 931-162	17,000 - 23,000 20,000 - 23,000 20,000 - 24,000 24,000 - 25,000	17" - 20.3" 17" - 20.8" 17" - 20.3" 17" - 20.8"	5.5"	30/30
				6"	
				6"	
				6"	
	Carlisle MB-21	17,000 - 20,000 17,000 - 22,500	17" - 20.3" 17" - 20.0" 17" - 20.3"	5.5"	30/30
				6"	

This is to certify that the Hendrickson INTRAAX and VANTRAAX suspension/axle assembly and brake system described in the following table complies with the current revision of DOT 49 CFR 571.121 and Canadian Motor Vehicle Safety Standards, Service Brakes, Par. S5.4 and Parking Brakes, Par. 5.6.1 when equipped as described in the HXS brake certificate of compliance table.

The suspension/axle assembly is rated as indicated in the following table when installed according to the instructions provided in Hendrickson's INTRAAX and VANTRAAX suspension installation procedures (publication L341), and when maintained according to the instructions provided in Hendrickson's system maintenance procedures (publication L578).

MODEL SERIES	INTRAAX®				VANTRAAX®		
	AA230	AA250	AA300	AA300ED	HKA180	HKA200	HKA250
SUSPENSION RATING (lbs.)	23,000	25,000	30,000	30,000	40,000	46,000	50,000
AXLE RATING (lbs. per axle)	23,000	25,000	25,000	30,000	20,000	23,000	25,000
DUAL WHEEL AXLE TRACK	71.5"/77.5"				71.5"/77.5"		

### ADDITIONAL NOTES

Since the HXS extended service S-cam can now be used without other HXS extended service brake components, Hendrickson offers a conversion kit intended to upgrade only the remaining brake components to HXS extended service. These conversion kits, which do not contain an S-cam, are listed by part number as follows:

- S-25823-1 HXS conversion kit without S-cam for 16.5" x 7" brakes
- S-25824-1 HXS conversion kit without S-cam for 16.5" x 8.625" brakes

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