

## New Genuine Spicer<sup>®</sup> Trac-Lok<sup>™</sup> Limited-Slip Differential (LSD)

Date: **Friday, May 1, 2020**

To: **All Dana Aftermarket Group Spicer<sup>®</sup> Heavy Axle Customers**

As a world leader in drivetrain technology, Dana is focused on keeping vehicles running strong and maximizing uptime. Our medium-duty products are designed to provide durability while boosting productivity. Dana's latest innovation is our new Spicer<sup>®</sup> Trac-Lok<sup>™</sup> limited-slip differential for medium-duty truck applications that autonomously delivers improved traction within a lightweight and compact design.

The new Spicer<sup>®</sup> Trac-Lok<sup>™</sup> differential provides improved traction capability without the driver engaging any switches or mechanisms. It is an autonomous device that acts as an open differential and freely differentiates in normal operating mode. During a slip event, it automatically sends approximately three times more torque to the high traction wheel-end. It then automatically returns to full differentiation as conditions change for maximum vehicle handling and ease of use. The Spicer<sup>®</sup> Trac-Lok<sup>™</sup> comes in a lightweight five-pinion pair design to serve a variety of Class 6 and Class 7 medium-duty applications.

**Models:** S110L / S111L / S130L / S140L Single Drive Axles

### Spicer<sup>®</sup> Trac-Lok<sup>™</sup> Benefits

- Limits wheel-slip rather than fully locking the differential for improved vehicle maneuverability
- Lightweight and compact design
- Automatic traction engagement, no driver intervention required
- No wiring or pneumatic connections
- No special lubricants or friction modifiers required
- Superior lifetime torque bias performance
- Smooth engagement and transparent to the driver
- Retrofittable with existing Spicer<sup>®</sup> S111\* and S130 medium-duty drive axles
- Approximately 10 lb. [4.5 kg] lighter than competing designs

\*S110 axles currently in service require a new primary gearing change to accommodate the Spicer Trac-Lok<sup>™</sup>

### S110L Upgrade

As part of the Trac-Lok launch, Dana has also upgraded the Spicer<sup>®</sup> S110L medium-duty axle with a more robust differential assembly that maximizes torque loading capacities. This upgrade does not apply to S110 open differential assemblies.

The new Spicer<sup>®</sup> Trac-Lok<sup>™</sup> is available in Spicer Service Carriers & service kits, please see second page of this bulletin.

Please contact your Dana representative for additional information. Thank you for your continued support of Spicer Aftermarket products!



**Peter Hough**  
Product Planning Manager



## S110L and S111L

Model	Current Service Part Number	New Carrier Service Part Number
S110L		S110FTLR373CF
		S110FTLR391CF
	S110FLR430CF**	S110FTLR430CF
	S110FLR410CF**	S110FTLR410CF
	S110FLR456CF**	S110FTLR456CF
	S110FLR478CF**	S110FTLR478CF
	S110FLR488CF**	S110FTLR488CF
	S110FLR513CF**	S110FTLR513CF
		S110FTLR538CF
		S110FTLR557CF
		S110FTLR586CF
	S110FLR614CF**	S110FTLR614CF
		S110FTLR650CF
	S110L488CF**	S110TL488CF
S111L		S111FTLR373CF
		S111FTLR391CF
		S111FTLR430CF
		S111FTLR410CF
		S111FTLR456CF
		S111FTLR478CF
		S111FTLR488CF
		S111FTLR513CF
		S111FTLR538CF
		S111FTLR557CF
		S111FTLR586CF
		S111FTLR614CF
		S111FTLR650CF

Service Kit	Service Kit BOM Detail		
	BOM Item	Description	Quantity
505043**	10107465*	Spicer® Trac-Lok™ Limited Slip Diff.	1
	134511	Capscrew - Hex	10
	10079935	Bearing Cone	1
	10079936	Bearing Cup	1

Old Service Carrier Number	New Side Gear – Qty 2	New Primary Gear
S110FLR430CF**	130522	514147
S110FLR410CF**	130522	514254
S110FLR456CF**	130522	514114
S110FLR478CF**	130522	514115
S110FLR488CF**	130522	513978
S110FLR513CF**	130522	514140
S110FLR614CF**	130522	514252
S110L488CF**	130522	513978

\* Not sold separately

\*\* Kit 505043 cannot be used in old S110 Service Carriers. To use Kit 505043, the primary gear & side gear must be replaced. See charts above.

## S140L

Model	Current Service Part Number	New Carrier Service Part Number
S140L		S140L331CF
		S140L358CF
		S140L373CF
		S140L391CF
		S140L410CF
		S140L430CF
		S140L456CF
		S140L488CF
		S140L529CF
		S140L557CF
		S140L614CF
		S140L650CF

Service Kit	Service Kit BOM Detail		
	BOM Item	Description	Quantity
505004	10101132*	Spicer® Trac-Lok™ Limited Slip Diff.	1
	133896	Screw - Hex	10
	132821	Pin - Dowel	2
	10079935	Bearing - Tapered Roller Cone	1
	10079936	Bearing - Tapered Roller Cup	1

\* Not sold separately

## S130L

Model	Current Service Part Number	New Carrier Service Part Number
S130L	S130FLR373CF	S130FTLR373CF
	S130FLR391CF	S130FTLR391CF
	S130FLR410CF	S130FTLR410CF
	S130FLR430CF	S130FTLR430CF
	S130FLR456CF	S130FTLR456CF
	S130FLR478CF	S130FTLR478CF
	S130FLR488CF	S130FTLR488CF
	S130FLR513CF	S130FTLR513CF
	S130FLR538CF	S130FTLR538CF
	S130FLR557CF	S130FTLR557CF
	S130FLR586CF	S130FTLR586CF
	S130FLR614CF	S130FTLR614CF
	S130FLR650CF	S130FTLR650CF

Service Kit	Service Kit BOM Detail		
	BOM Item	Description	Quantity
505005	10101058*	Spicer® Trac-Lok™ Limited Slip Diff.	1
	134511	Capscrew - Hex	10
	132821	Pin - Dowel	2
	10079935	Bearing Cone	1
	10079936	Bearing Cup	1

\* Not sold separately

Notification of any additional Service Carriers with the new Spicer® Trac-Lok™ differential will be added via our monthly APTN.

SpicerParts.com

Dana Aftermarket Group

PO Box 1000 Maumee, Ohio 43537

Warehouse Distributors: 1.800.621.8084

OE Dealers: 1.877.777.5360

Follow SpicerParts [f](#) [t](#) [@](#) [v](#) [in](#)

© 2020 Dana Limited. All rights reserved. HAXL-PNI-114

**SPICER**®

