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## Bullseye August 2016



### Product In Focus - Meritor MXL Universal Joints

Only Meritor universal joints offer the below features and benefits you should consider when choosing driveline components for your vehicle.

Feature	Benefits	Meritor	Comp. A
Nylon Thrust Washer	Eliminates metal to metal contact, reducing wear and extending life.	✓	✗
Advanced Triple Lip Seal	Superior sealing characteristics with triple-lip seal and protective metal deflector. This keeps lubrication in and contaminants out.	✓	✗
Superior Long Bearing Pack	Larger contact surface (20% more than competitors) and a robust bearing retention system provides superior damping force and eliminates spinning cups.	✓	✗
Extended Lube Intervals	Meritor MXL lube intervals are 3x longer than competitors. This saves you or your business in lubrication and service costs.	✓	✗

### Quality Components - Solid Construction Inside and Out

#### Meritor MXL Universal Joint



*High Quality Finish*  
*Made in dedicated Meritor factory*

#### Competitor A Universal Joint



*Rough Quality Finish*  
*Origin of manufacturer unknown*

#### Meritor MXL Trunion



*38 Long Bearings*  
*Nylon Thrust Washer*

#### Competitor A Trunion



*33 Bearings*  
*No Nylon Washer*

#### Meritor MXL Triple Lip



*Triple Lip Sealing System*

#### Competitor A Single Lip



*Single Lip Seal*



## Product In Focus - Tie Rod Ends

### Features & Benefits

- Polished full ball design
- Full bearing contact ensuring a superior range of motion
- Grease passages allow consistent lubrication



### Tie Rod Ends - Meritor Applications

PART NUMBER	THREADED SIDE	APPLICATION
R230068	Left Hand	Meritor FG941
R230069	Right Hand	Meritor FG941
R230070	Right Hand	Meritor FF Series
R230071	Left Hand	Meritor FF Series
R230072	Left Hand	Meritor MFS73 / FL941
R230073	Right Hand	Meritor MFS73 / FL941



### Tie Rod Ends - Dana Applications

PART NUMBER	COMPARE NUMBER	THREADED SIDE	APPLICATION
R230570	140TR142	Left Hand	Dana I140 axle
R230571	140TR143	Right Hand	Dana I140 axle
R230572	971749	Right Hand	Dana I145 axle
R230573	971748	Left Hand	Dana I145 axle



## Global News - Meritor Facility in Lindesberg, Sweden Receives Industry Award for Assembly Line Transformation

The Meritor facility in Lindesberg, Sweden has received the Swedish Assembly Award 2016 for advancing assembly technology with industry-leading solutions.

Recognised by the Swedish Assembly Forum for enhancing productivity, quality and delivery performance, the Lindesberg site uses its ultramodern assembly line to produce all families of high-quality bolted carriers that are sequenced more efficiently. The Swedish Assembly Forum examined how each new change affected overall performance of the operation, including profitability.



***"The award validates the passion our Lindesberg team has demonstrated for continuous improvement,"*** said Joe Plomin, president, International. ***"Recognising that customers need a significant level of product variation, the team designed a flexible line that fulfils requirements for quality, delivery and an efficient production process."***

Meritor, Lindesberg started the project in 2011 with upgrades to the paint shop. Last year, the company completed the transformation by consolidating all assembly activities in one production hall where variants of the same product are built more efficiently and with greater flexibility.

The Swedish Assembly Forum, which includes 300 OEMs and suppliers such as Meritor, works with companies and universities to create research projects that help the local industry develop, share best practices and inspire competitiveness and innovation.



## New Products & Supersessions

### New Products

Part Number	Description
R202010	King Pin Kit No-Ream Fastset suits FG941 axle
R202002	King Pin Kit No-Ream Fastset suits FF961 axle
R202011	King Pin Kit No-Ream Fastset suits FL941 axle
R202014	King Pin Kit No-Ream Fastset suits FL941 axle
Q63200L1676513	Carrier Assy Lapped Gasket
E-11810C	King Pin Kit
KIT8032	Kit Bush & Seal
16N32261XML	1610 Slip Yoke MXL suits 5.3.2661KX

### Supersessions

Old Part Number	Description	New Part Number
R407X	Uni Joint 1760 Full Round CP176N7P3	M407X

All parts displayed in New Products & Supersessions will be available for immediate ordering. Lead times apply for the listed items. Not all parts are available to Independent Customers. Please contact Meritor Customer Service on (03) 8353 6050 for further information. For full list of supersessions, [CLICK HERE](#)



## Getting Technical - Do You Know Your Tandem Axle?

The Meritor Inter-Axle Differential (IAD) is a driver-controlled, air-actuated traction device that allows for speed differences between the forward and rear tandem axles while providing equal pulling power from each axle of the tandem.

By activating the IAD switch located in the vehicle dash, improved traction is provided for each axle. The Inter-Axle Differential (IAD) is more commonly known as a “Power Divider” or “Third” differential.

### Operation Tips

1. The IAD is driver controlled.
2. The IAD switch should be in the “UNLOCK” position for normal operating conditions where there is good traction.
3. Lock the IAD when approaching or anticipating any loss of traction or poor driving conditions to provide improved traction.
4. Always unlock the IAD when the need for improved traction has passed or when the vehicle is on a good traction road or highway.
5. After locking or unlocking the IAD, let up on the accelerator to provide an interruption in torque to the drivetrain.
6. Do not actuate the IAD switch while one or more wheels are actually slipping, spinning or losing traction, or damage to the axle can result.
7. Do not spin the wheels with the IAD unlocked, or damage to the axle components could result.

### Driver Instructions

When encountering poor road or highway conditions where a decrease in traction is anticipated, follow the recommended procedures:

1. Flip the IAD switch to “LOCK” position while maintaining constant vehicle speed.
2. Let up momentarily on the accelerator. The differential lock will engage.
3. Proceed to drive cautiously.



# Getting Technical - Do You Know Your Tandem Axle?

## Unlocking the IAD Switch

When poor road or highway conditions have passed, follow these steps to UNLOCK the IAD:

1. Flip the switch to the "UNLOCK" position while maintaining vehicle speed.
2. Let up momentarily on the accelerator. The differential lock will promptly disengage.
3. Resume a safe vehicle speed.

**The operator-controlled IAD switch is on the dash and is marked LOCK and UNLOCK.**

**LOCK IAD at any speed EXCEPT when one or more wheels are slipping, spinning or losing traction.**

**UNLOCK = GOOD TRACTION**

Permits differential action between axles for all normal driving.

**LOCK = POOR TRACTION**

Straight through positive power to both axles. No differential action.

**How to Operate the Inter-Axle Differential (IAD) Also Called Third Differential or Power Divider**

**LOCK the IAD Switch When Poor Road Conditions Threaten to Minimize Traction**

<b>DO</b>	unlock IAD for normal operating conditions when traction is good.
<b>DO</b>	lock IAD at any speed when you approach or anticipate poor road conditions where traction is at a minimum. IAD allows for speed differences between the forward and rear tandem axles, while providing pulling power from each axle of the tandem.
<b>DO</b>	let up on the accelerator to interrupt drivetrain torque after locking or unlocking IAD.
<b>DO</b>	unlock IAD when the need for improved traction has passed.
<b>DON'T</b>	lock IAD when one or more wheels are slipping, spinning or losing traction. You can damage an axle.
<b>DON'T</b>	spin the wheels with IAD unlocked. You can damage an axle.





## Employee Profile - Nataalka Abrat

Role at Meritor: Buyer  
Year Joined: 2007

### What is your background in Purchasing and Procurement?

In 2007 I started with Meritor in Amsterdam as a Business Analyst for the Direct Material Optimisation department. The role involved data analysis and reporting out on material cost reduction programs. Since then I have worked in various finance roles before starting with Meritor Australia as a Buyer.

### What are your current job responsibilities?

My days are busy implementing resourcing activities, mostly driven by material cost reduction (DMO-Direct Material Optimisation) for both Commercial Vehicle Systems and Commercial Vehicle Aftermarket businesses. It touches on indirect spend. We are always on the lookout for new potential programs and cost savings through analysis and RFQ (Request For Quote) activities.

### What do you enjoy most about your role as a Buyer?

I love that this role involves working with so many other departments – engineering, quality, operations, warehousing, finance and supply chain. The work is varied and there is always something interesting going on.

### What do you find most challenging about your role?

Initially learning the requirements of other departments was a challenge. I am still learning ways to improve what I do and better meet the needs of each team. At times unexpected things can happen – like a supplier closure. This can be demanding ensuring that there are no material shortages or impacts on production.

### What are your interests outside work?

I enjoy drawing, reading and spending time with my family.





## Advertising

Don't forget to check out our latest ad on Genuine Brake Shoe Kits in Big Rigs and Australian Diesel Mechanic Magazine.

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