

# Commercial Vehicle Systems

Warranty / Model Year 2011 Vehicles



## Simpler is better.

Warranty coverage is essential to protecting your investment. But understanding the full details of your coverage can be challenging. This straightforward approach allows you, our valued customer, to better understand how your specific vehicle applications will be covered.

### **Advantage Program**

Purchasing additional coverage on select components will continue to safeguard your investment against major repair costs after the initial base coverage expires. You can find out more about the Advantage Program by visiting [www.arvinmeritor.com](http://www.arvinmeritor.com) or by contacting ArvinMeritor at 800-535-5560.

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## How to Read Warranty Coverage:

Number of Years / Mileage (in thousands) / P=Parts Only  
Uni=Unlimited / P&L=Parts & Labor

**Models or components that are approved for use by ArvinMeritor's vocational guidelines contained in ArvinMeritor Publication TP-9441 for axles, SP-8320 for trailer axles, which are not specifically listed, are warranted for one year, unlimited miles, parts only (1/Uni/P).**

# Linehaul Warranty Information



## Linehaul Vehicles:

- |                |                   |                    |                        |
|----------------|-------------------|--------------------|------------------------|
| ■ Auto Hauler  | ■ Flatbed         | ■ Livestock Hauler | ■ Refrigerated Freight |
| ■ Bulk Hauler  | ■ General Freight | ■ Moving Van       | ■ Tanker               |
| ■ Chip Hauler* | ■ Grain Hauler    | ■ Pipe Hauler      | ■ Triples              |
| ■ Doubles      |                   |                    |                        |

\* Chip Hauler vehicles require specific axle models listed below and Linehaul condition to be eligible for Linehaul warranty consideration.

## Linehaul Typically Is:

- High mileage operation (over 60,000 miles/year)
- Operation on road surfaces made of concrete, asphalt, maintained gravel, crushed rock, hard packed dirt or other similar surfaces (moderate grades)
- Greater than 30 miles between starting and stopping

**Coverage under ArvinMeritor's warranty requires that the application of products be properly approved pursuant to OEM, ArvinMeritor, Meritor WABCO, and ZF engineering approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, and/or contact ArvinMeritor regarding specific application approval questions on any product line.**

## Front Non-Drive Steer Axles – 5/750/P&L

FD-965	FF-943	FF-966	FG-943	MFS-10-144A-N	MFS-13-143A-N
FF-941	FF-944	FF-967	MFS-10-122A	MFS-12-143A-N	MFS-13-144A-N
FF-942	FF-961	FG-941	MFS-10-143A-N	MFS-12-144A-N	MFS-14-143A-N

## Composite Truck/Tractor Springs 3/300/P, 1/Unl/P&L

### Clutches

15.5" Manual-Adjust Clutch <sup>1</sup>	1/100/P&L
15.5" TwinXTend Self-Adjust Clutch <sup>1</sup>	3/350/P&L
17" FreedomLine Clutch <sup>1,2</sup>	3/350/P&L

<sup>1</sup> Clutches are warranted by ZF Sachs and administered by ArvinMeritor.

<sup>2</sup> Freedomline clutch consists of cover assembly and disc assembly.

### Transmissions – 5/750/P&L

ZF-FreedomLine 12-Speed<sup>1,2,3,4,5</sup>

<sup>1</sup> With approved synthetic lube (Without = 3/300/P&L).

<sup>2</sup> Multiple engine retarders are not approvable.

<sup>3</sup> Electronic shift systems 3/300/P&L.

<sup>4</sup> Hard surface applications only.

<sup>5</sup> Output seal 3/300/P&L.

## Drivelines

RPL	4/400/P, 1/Unl/P&L
92N	1/Unl/P
RN (155N - 18N)	1/Unl/P

Meritor® XTended Lube – MXL™ Drivelines

17XN/17XT	3/350/P, 1/Unl/P&L
176XN/176XT	3/350/P, 1/Unl/P&L
18XN/18XT	3/350/P, 1/Unl/P&L

## Rear Drive Single Axles – 5/750/P&L

MFS-13-122	RS-21-145	RH-23-161
RS-19-144/145/A	RS-21-160	RS-23-161/A
MS-19-14X	RH-23-160	RS-23-180
MS-21-144MA-N	RS-23-160/A	RS-23-186

## Rear Drive Tandem/Tridem Axles – 5/750/P&L

RT-34-144/P/A	RT-50-160/P/A <sup>1,2,3</sup>	MT-40-144/P
RT-40-145/P/A	MT-34-14X/P	MT-40-943
RT-40-160/P/A <sup>1,2,3</sup>	MT-40-14X/P	RZ-166 <sup>2,3</sup>
RT-46-160/P/A <sup>1,2,3</sup>	MT-40-14X/P <sup>2</sup>	RZ-186
RT-46-164EH/P/A <sup>1,2,3</sup>	MT-40-143	RZ-188

<sup>1</sup> These models required for Chip Hauler and Linehaul warranty consideration.

<sup>2</sup> Warranty is 3/300/P&L when used with 2050 lb.ft. engines. Refer to Product Information Letter #293 for further details.

<sup>3</sup> Each vehicle must have a Request for Application Recommendation (RAR) approved by ArvinMeritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.



## Brake Components

Cam Q Series Trailer Brakes	5/500/P, 1/100/L
LX500 Feature <sup>2</sup>	5/750/P&L
Cam <sup>1</sup> Q Plus™	5/500/P, 1/Unl/P&L
ASA <sup>1</sup>	5/500/P, 1/Unl/P&L
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
X30™ Drums <sup>3</sup>	12-Years or Wearable Life/P

<sup>1</sup> First year P&L.

<sup>2</sup> Includes: bushing, seal, cam, ASA lubrication and wear coverage of 3/500/P&L.

<sup>3</sup> Based on stamped wear diameter max.

## Trailer Axles

Wheel End Systems <sup>1</sup>	
Beam and Brackets	5/500/P, 1/100/L
Standard System <sup>2</sup>	1/100/P&L
PreSet by Meritor <sup>3</sup>	5/500/P&L
AxlePak4 <sup>4</sup>	4P/3L
Beam and Brackets	5/500/P, 1/100/L
AxlePak6 <sup>5</sup>	6P/5L
Beam and Brackets	6/600/P, 1/100/L

<sup>1</sup> Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

<sup>2</sup> When installed by ArvinMeritor.

<sup>3</sup> Requires approved hubcap stating PreSet by Meritor on hubcap face.

<sup>4</sup> Applies to STEMCO Guardian HP Seal, STEMCO Pro-Torq nut, STEMCO Integrated Sentinel Hub Cap, and Meritor bearings.

<sup>5</sup> Applies to STEMCO Guardian HP Seal, STEMCO Pro-Torq nut, STEMCO Integrated Sentinel Hub Cap, and STEMCO matched bearing sets.

(For brake components and ABS coverage, refer to appropriate product warranties.)

## TAG/ Pusher Axles<sup>1</sup>

TQ, TQD, TR, TRD Beam and Brackets	3/300/P, 1/100/L
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<sup>1</sup> For brake components and ABS Coverage, refer to appropriate product warranties.

## Meritor® Tire Inflation System by PSI 3/500/P&L

## Trailer Air Suspension Systems

### MPA38/40 (Tandem Axle Parallelogram)

Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	7/Unl/P, 5/Unl/L
PinLoc Air Controls	1/100/P&L
PinLoc Actuator	3/300/P&L

### MPA20 (Single Axle Parallelogram)

Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	7/Unl/P, 5/Unl/L

### RFS/MTA

Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs & Rebound Straps	2/200/P, 1/100/L
Bushings	5/500/P, 3/300/L

(For axle and ABS coverage, refer to appropriate product warranties.)

## Meritor WABCO Components<sup>1</sup>

ABS (Anti-Lock Braking System) Air/Hydraulic	3/300/P&L
Hydraulic Power Brake (HPB)	3/300/P&L
ATC (Automatic Traction Control)	3/300/P&L
EX and PAN Air Disc Brake <sup>3,4</sup>	5/500/P, 1/Unl/L
Air Dryers (All)	1/Unl/P&L, 3/300/P
Leveling Valves	1/Unl/P&L
Air Brake Valves	1/Unl/P&L, 3/300/P
Emissions Valve	2/200/P
Emission SCR Air Control Unit <sup>5</sup>	2/200/P
Clutch Controls	2/200/P&L
ECAS (Electronic Controlled Air Suspension)	3/300/P&L
Air Compressors (ALL) <sup>2</sup>	3/300/P&L
Electronic Stability Control (ESC)	3/300/P&L
Roll Stability Control (RSC)	3/300/P&L
OnGuard™	3/300/P&L
Trailer Roll Stability Support (RSS)	3/300/P&L
Trailer Control Line Filter	1/100/P&L
Trailer Control Line Filter with ABS Valve	4/400/P, 1/100/L
Trailer ABS Valve with Control Line Filter	4/400/P, 3/300/L

<sup>1</sup> Warranted by Meritor WABCO Vehicle Control Systems.

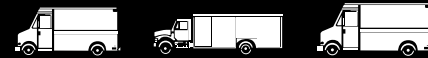
<sup>2</sup> WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by Meritor WABCO. Please contact your respective dealer/distributor of those engines for warranty and servicing.

<sup>3</sup> Warranty coverage is 2/Unl/P, 1/Unl/L when using a Non approved (By Meritor WABCO) air chamber.

<sup>4</sup> Meritor WABCO air chamber warranty coverage is 3/300/P&L.

<sup>5</sup> Must have an oil coalescing device installed in the air system located before the Air Control Unit.

# General Service Warranty Information



## General Service Vehicles:

■ Aerial Ladder Truck	■ Front Engine Commercial Chassis	■ Moving Van	■ Recreational Vehicles
■ Aerial Platform	■ Front Engine Integral Coach	■ Municipal Truck	■ Refrigerated Truck
■ Ambulance	■ General Freight	■ Newspaper Delivery	■ School Bus
■ Auto Hauler	■ Intercity Coach	■ Pick-Up and Delivery	■ Stake Truck
■ Beverage Truck	■ Intermodal Chassis	■ Pipe Hauler	■ Tanker
■ Chip Hauler	■ Livestock Hauler	■ Platform Auto Hauler	■ Tanker Truck
■ Cross Country Coach	■ Meat Packer	■ Pumper	■ Tour Bus
■ Flatbed		■ Rear Engine Integral Coach	■ Wrecker

## General Service Typically Is:

- Lower mileage operations (less than 60,000 miles/year)
- Generally, on-road service (less than 10% off-road)
- An average of three (3) miles between starting and stopping

**Coverage under ArvinMeritor's warranty requires that the application of products be properly approved pursuant to OEM, ArvinMeritor, Meritor WABCO, and ZF engineering approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, and/or contact ArvinMeritor regarding specific application approval questions on any product line.**

## Front Drive/Non-Drive Steer Axles – 2/Unl/P&L

FD-965	FF-966	17100	MFS-6-153C-N	MFS-8-163B-N	MFS-13-144A-N
FF-941	FF-967	17101	MFS-6-162C-N	MFS-10-122A	MFS-14-143A-N
FF-942	FG-941	FL-941	MFS-7-113C-N	MFS-10-143A-N	MFS-16-122A-N
FF-943	FG-943	FL-943	MFS-7-153C-N	MFS-10-144A-N	MFS-16-143A-N
FF-944	FG-952 <sup>1</sup>	MFS-6-151A-N	MFS-7-163C-N	MFS-12-143A-N	MFS-18-133A-N
FF-946	FH-941	MFS-6-153B-N	MFS-8-113B-N	MFS-12-144A-N	MFS-20-133A-N
FF-961	FH-945 <sup>1</sup>	MFS-6-162B-N	MFS-8-153B-N	MFS-13-143A-N	

<sup>1</sup> Can be used in front or tag position.

## Front Non-Drive Steer Axles

### with Unitized Wheel Ends – 3/Unl/P&L<sup>1</sup>

FG-952
FH-941
FH-946

<sup>1</sup> Includes: hub, wheel seals and wheel bearings.

## Clutches

15.5" HD Clutch <sup>1</sup>	1/100/P&L
15.5" TwinXTend	1/100/P&L
17" FreedomLine Clutch <sup>1</sup>	1/100/P&L

<sup>1</sup> Products with an in-service date prior to 11/01/02 warranted by Meritor Clutch Company.

## Transmissions – 3/Unl/P&L

ZF-FreedomLine 12-Speed<sup>1,2,3</sup>

<sup>1</sup> Multiple engine retarders are not approvable.

<sup>2</sup> Electronic shift systems 3/300/P&L.

<sup>3</sup> Hard surface applications only.

## Composite Truck/Tractor Springs 3/300/P, 1/Unl/P&L

### Drivelines

RPL 4/400/P, 1/Unl/P&L	Meritor® XTended Lube – MXL™ Drivelines
92N 1/Unl/P	17XN/17XT 3/350/P, 1/Unl/P&L
RN (155N - 18N) 1/Unl/P	176XN/176XT 3/350/P, 1/Unl/P&L
	18XN/18XT 3/350/P, 1/Unl/P&L

### Rear Drive Single Axles – 2/Unl/P&L

MS-10-113	MS-21-144MA-N	RH-23-161	RS-30-185
MS-11-113	RS-21-145	RS-23-160	MS-30-616
MS-12-113	RS-21-145/A	RS-23-160/A	MS-35-380
MFS-13-122	RS-21-160	RS-23-161	61142
MS-17-14X	RC-22-145	RS-23-161/A	61143
MS-19-14X	RC-22-145/A	RS-23-186	61152
RS-13-120	RC-23-160	RS-24-160/A	61153
RS-15-120	RC-23-161	RC-25-160	71063
RS-17-144/145/A	RC-23-162 <sup>1</sup>	RS-25-160/A	71162
RS-19-144/145/A	RC-23-165 <sup>1</sup>	RS-26-185	71163
MS-21-14X	RH-23-160	MS-26-616	

<sup>1</sup> 3/Unl/P&L if PreSet by ArvinMeritor.

### Rear Drive Tandem/Tridem Axles – 3/Unl/P&L

RT-40-160/P/A	RT-46-164EH/P/A
RT-46-160/P/A	RT-50-160/P/A

## Bus & Coach, Recreational Vehicle Suspensions – 2/200/P&L<sup>1,2</sup>

RIS07EF	RIS09EF	RIS10EF	RIS12EF
RIS16EF	RIS18EF	RTA20ER	RTA13EA
RFA20ER	RFA23ER	RFA25ER	RTA28ER
RAL12EF			

<sup>1</sup> Coverage includes frames, brackets, arms, knuckles and seats.

<sup>2</sup> See limitations for minor component coverage.

### Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	RT-40-145/P/A	MT-58-616
RT-34-144/P/A	MT-44-14X/P	RT-58-185 <sup>2</sup>
MT-40-14X/P	RT-44-145/P	MT-70-380
MT-40-143DA-N	RT-46-169	RZ-166
MT-40-143MA-N <sup>1</sup>	MT-52-616	RZ-186
MT-40-144/P	RT-52-185 <sup>2</sup>	RZ-188

<sup>1</sup> Axle model designated will vary according to options and variations specified on these axles. Contact ArvinMeritor Axle Applications Engineering for details.

<sup>2</sup> Each vehicle must have a Request for Application Recommendation (RAR) approved by ArvinMeritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.



## Brake Components

Cam Q Series Trailer Brakes	3/Unl/P, 1/Unl/L
LX500 Feature <sup>1</sup>	3/Unl/P&L
Cam P <sup>3</sup>	2/200/P
Cam	3/Unl/P
Cam Q Plus™	3/Unl/P&L
Cam Q Plus™ <sup>3</sup>	2/200/P&L
ASA	3/Unl/P
ASA <sup>3</sup>	2/200/P
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
X30™ Drums <sup>2</sup>	12-Years or Wearable Life/P

<sup>1</sup> Includes: bushing, seal, cam, ASA lubrication and wear coverage of 1/Unl/P.

<sup>2</sup> Based on stamped wear diameter max.

<sup>3</sup> Applies to Tour Bus and Cross Country Coach only.

## Trailer Axles

Wheel End Systems <sup>1</sup>	
Beam and Brackets	5/500/P, 1/100/L
Standard System <sup>2</sup>	1/Unl/P&L
AxlePak4 <sup>4</sup>	4P/3L
Beam and Brackets <sup>3</sup>	5/500/P, 1/100/L
AxlePak6 <sup>5</sup>	6P/5L
Beam and Brackets <sup>3</sup>	6/600/P, 1/100/L

<sup>1</sup> Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

<sup>2</sup> When installed by ArvinMeritor.

<sup>3</sup> 9000 Series is 3/Unl/P, 1/Unl/L.

<sup>4</sup> Applies to STEMCO Guardian HP Seal, STEMCO Pro-Torq nut, STEMCO Integrated Sentinel Hub Cap, and Meritor bearings.

<sup>5</sup> Applies to STEMCO Guardian HP Seal, STEMCO Pro-Torq nut, STEMCO Integrated Sentinel Hub Cap, and STEMCO matched bearing sets.

(For brake components and ABS coverage, refer to appropriate product warranties.)

## Air Link™ 2/200/P&L<sup>1,2</sup>

MWA46  
MWA52

<sup>1</sup> Coverage includes Hangers, Trailing Arms, Walking Beams

<sup>2</sup> Bushings, Air Bag, Shock Absorbers 1/50/P

## Chassis Axles (2000 Series)

Beam and Brackets	
TN, TP	6/Unl/P, 1/Unl/L
Wheel End Systems <sup>1</sup>	
TN, TP	1/Unl/P&L
CN <sup>2</sup>	4P/3L
Beam and Brackets	7/Unl/P, 1/Unl/L

<sup>1</sup> Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

<sup>2</sup> Applies to STEMCO Guardian HP Seal, STEMCO Pro-Torq nut, STEMCO Integrated Sentinel Hub Cap, and Meritor bearings.

## TAG/Pusher Axles<sup>1</sup>

TQ, TQD, TR, TRD	Beam and Brackets	3/Unl/P, 1/Unl/L
MC12002 <sup>1</sup> , MC16003 <sup>2</sup>		2/Unl/P&L

(For brake components and ABS coverage, refer to appropriate product warranties.)

<sup>1</sup> 3/UNL/P&L if sold with PreSet by ArvinMeritor.

<sup>2</sup> 3/UNL/P&L if sold w/unitized wheel ends.

## Trailer Air Suspension Systems

### MPA38/40 (Tandem Axle Parallelogram)

Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings	7/Unl/P, 5/Unl/L
Air Controls	1/100/P&L
Air Actuator	3/300/P&L

### MPA20 (Single Axle Parallelogram)

Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings	7/Unl/P, 5/Unl/L

### RFS/MTA

Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs and Rebound Straps	2/Unl/P, 1/Unl/L
Bushings <sup>1</sup>	5/Unl/P, 3/Unl/L

(For axle and ABS coverage, refer to appropriate product warranties.)

<sup>1</sup> Raw wood applications 3/Unl/P, 1/Unl/L

## Meritor WABCO Components<sup>1</sup>

ABS (Anti-Lock Braking System) Air/Hydraulic	3/300/P&L
Hydraulic Power Brake (HPB)	3/300/P&L
ATC (Automatic Traction Control)	3/300/P&L
EX <sup>4,5</sup> and PAN Air Disc Brake	2/Unl/P&L
All Other Air Disc Brakes	1/Unl/P
Air Dryers (ALL)	1/Unl/P&L, 2/200/P
Leveling Valves	1/Unl/P&L
Air Brake Valves	1/Unl/P&L, 2/200/P
Emissions Valve	2/200/P
Emission SCR Air Control Unit <sup>6</sup>	2/200/P
Clutch Controls	2/200/P&L
ECAS (Electronically Controlled Air Suspension)	3/300/P&L
Air Compressors (ALL) <sup>2</sup>	2/200/P&L
Electronic Stability Control (ESC)	3/300/P&L
Truck Roll Stability Control (RSC)	3/300/P&L
Trailer Roll Stability Support (RSS)	3/300/P&L
Trailer Control Line Filter	1/100/P&L
Trailer Control Line Filter with ABS Valve	4/400/P, 1/100/L
Trailer ABS Valve with Control Line Filter	4/400/P, 3/300/L

<sup>1</sup> Warranted by Meritor WABCO Vehicle Control Systems.

<sup>2</sup> WABCO compressors installed on Cummins, Mercedes, and Volvo engines are not warranted or serviced by Meritor WABCO. Please contact your respective dealer/distributor of those engines for warranty and servicing.

<sup>3</sup> Applies to Tour Bus and Cross Country Coach only.

<sup>4</sup> Brake warranty coverage is valid when using a Meritor WABCO chamber. For other chambers, brake coverage is 1/Unl/P.

<sup>5</sup> Meritor WABCO chamber warranty is 1/Unl/P.

<sup>6</sup> Must have an oil coalescing device installed in the air system located before the Air Control Unit.

## Meritor® Tire Inflation System by PSI 3/500/P&L

# Heavy Service Warranty Information



## Heavy Service Vehicles:

■ Airport Rescue Fire (ARF)	■ Dump	■ Michigan Special Steel Hauler	■ Side Loader
■ Airport Shuttle	■ Emergency Service	■ Michigan Special Waste Vehicle	■ Snowplow/Snowblower
■ Asphalt Truck	■ Equipment Hauling	■ Municipal Dump	■ Steel Hauling
■ Block Truck	■ Flatbed Trailer Hauler	■ Rapid Intervention Vehicle (RIV)	■ Tanker
■ Bottom Dump Trailer Combination	■ Flatbed Truck	■ Rear Loader	■ Tank Truck
■ Cementing Vehicle	■ Fracturing Truck	■ Recycling Truck	■ Tractors with Pole Trailers
■ City Bus	■ Front Loader	■ Residential Pick-Up	■ Tractor/Trailer with Jeeps
■ Commercial Pick-Up	■ Geophysical Exploration	■ Rigging Truck	■ Transfer Dump
■ Concrete Pumper	■ Hopper Trailer Combinations	■ Roll-Off	■ Transfer Vehicle
■ Construction Material Hauler	■ Landscaping Truck	■ Scrap Truck	■ Transit Bus
■ Crash Fire Rescue (CFR)	■ Liquid Waste Hauler	■ Semi-End Dump	■ Trolley
■ Mixer	■ Log Hauling	■ Sewer/Septic Vacuum	■ Utility Truck
■ Demolition	■ Lowboy	■ Shuttle Bus	■ Winch Truck
■ Drill Rig	■ Michigan Special Gravel Trains		
	■ Michigan Special Log Hauler		

## Heavy Service Typically Is:

- Moderate mileage operation (less than 60,000 miles per year)
- On/Off road vocations (10% or more off-road)
- Moderate to frequent stops/starts (up to 10 stops per mile)

**Coverage under ArvinMeritor's warranty requires that the application of products be properly approved pursuant to OEM, ArvinMeritor, Meritor WABCO, and ZF engineering approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, and/or contact ArvinMeritor regarding specific application approval questions on any product line.**

## Front Drive/Non-Drive Steer Axles – 2/Uni/P&L

FD-965	FF-966	FL-941	MFS-6-153B	MFS-8-153B-N	MFS-13-143A-N	MFS-20-133A-N	MX-19-140
FF-941	FF-967	FL-943	MFS-6-162B	MFS-8-163B-N	MFS-13-144A-N	RF-21-160	MX-21-140
FF-942	FG-941	17100	MFS-6-162C	MFS-10-122A	MFS-14-143A-N	MX-10-120	MX-21-160
FF-943	FG-943	17101	MFS-7-113C-N	MFS-10-143A-N	MFS-16-122A-N	MX-12-120	MX-23-160
FF-944	FH-941	17110	MFS-7-153C-N	MFS-10-144A-N	MFS-16-143A-N	MX-14-120	
FF-946	FH-945	17111	MFS-7-163C-N	MFS-12-143A-N	RF-16-145	MX-16-120	
FF-961	FH-946	MFS-6-151A-N	MFS-8-113B-N	MFS-12-144A-N	MFS-18-133A-N	MX-17-140	

## Bus & Coach Suspensions – 2/200/P&L<sup>1,2</sup>

RIS07EF	RIS09EF	RIS10EF	RIS12EF
RIS16EF	RIS18EF	RTA20ER	RTA13EA
RFA20ER	RFA23ER	RFA25ER	RTA28ER
RAL12EF			

<sup>1</sup> Coverage includes frames, brackets, arms, knuckles and seats.

<sup>2</sup> See limitations for minor component coverage.

## Clutches

15.5" HD Clutch <sup>1</sup>	1/100/P&L
15.5" TwinXTend	1/100/P&L
17" FreedomLine Clutch <sup>1</sup>	1/100/P&L

<sup>1</sup> Products with an in-service date prior to 11/01/02 warranted by Meritor Clutch Company.

## Transmissions – 2/Uni/P&L

ZF-FreedomLine 12-Speed<sup>1,2,3</sup>

<sup>1</sup> Multiple engine retarders are not approvable.

<sup>2</sup> 12-speed transmission not approved for off-road vocations.

<sup>3</sup> Hard surface application only.

## Drivelines – 1/Uni/P&L

RPL	92N	RN	MXL
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## Rear Drive Single Axles – 2/Uni/P&L

MS-10-113	MS-19-14X	RS-21-160	RC-23-161	RS-24-160/A	RH-30-185	RC-26-720	61153
RS-13-120	RS-19-144	RC-22-145	RH-23-161	RS-25-160/A	RS-30-185/380	59732	71162
MFS-13-122	MS-21-114	RC-23-160	RS-23-161/A	RH-26-185	MS-35-380	59733	71163
RS-15-120	MS-21-14X	RH-23-160	RS-23-186/380	MS-26-616	RS-38-380	61142	
MS-17-14X	RS-21-145	RS-23-160	RC-23-162	RS-26-185/380	RC-25-160	61143	
RS-17-144/145/A	RS-21-145/A	RS-23-160/A	RC-23-165	MS-30-616	RC-26-633	61152	



## Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	MT-40-143DA-N	MT-40-144/P	RT-44-145/P	RT-52-185/380 <sup>2,3,4,5</sup>	RT-70-380 <sup>5</sup>	RZ-186 <sup>5</sup>
RT-34-144/P/A	MT-40-143MA-N <sup>1</sup>	RT-40-145/P/A	RT-46-169	MT-58-616	MT-70-380	RZ-188 <sup>5</sup>
MT-40-14X/P	MT-40-144	MT-44-14X/P	MT-52-616	RT-58-185/380 <sup>2,3,4,5</sup>	RZ-166 <sup>5</sup>	

<sup>1</sup> U.S. only. Canadian warranty = 1/Unl/P for combination vehicles only.

<sup>2</sup> Axle model designated will vary according to options and variations specified on these axles. Contact ArvinMeritor Axle Applications Engineering for details.

<sup>3</sup> Axle model designated will vary according to options and variations specified on these axles. Contact ArvinMeritor Axle Applications Engineering for details.

<sup>4</sup> Each vehicle must have a Request for Application Recommendation (RAR) approved by ArvinMeritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

<sup>5</sup> Warranty is 1/Unl/P&L when used with 2050 lb.ft. engines. Refer to Product Information Letter #293 for further details.

## Brake Components

Cam P	3/Unl/P
Cam P <sup>3</sup>	2/100/P
Cam Cast Plus™	2/100/P&L
Cam Q Plus™	3/Unl/P&L
Cam Q Plus™ <sup>2</sup>	2/100/P&L
ASA	3/Unl/P
ASA <sup>2</sup>	2/100/P
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
X30™ Drums <sup>1</sup>	12-Years or Wearable Life/P

<sup>1</sup> Based on stamped wear diameter max.

<sup>2</sup> Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

<sup>3</sup> Warranty for all non-Meritor ASAs supplied by ArvinMeritor for all Heavy Service vocations is 1/100/P.

## Rear Drive Tandem/Tridem Axles – 3/Unl/P&L

RT-40-160/P/A <sup>3,4</sup>
RT-46-160/P/A <sup>1,3,4</sup>
RT-46-164EH/P/A <sup>2,3,4</sup>
RT-50-160/P/A <sup>3,4</sup>

<sup>1</sup> U.S. only. Canadian warranty = 1/Unl/P for combination vehicles only.

<sup>2</sup> Axle model designated will vary according to options and variations specified on these axles. Contact ArvinMeritor Axle Applications Engineering for details.

<sup>3</sup> Warranty is 1/Unl/P&L when used with 2050 lb.ft. engines. Refer to Product Information Letter #293 for further details.

<sup>4</sup> Each vehicle must have a Request for Application Recommendation (RAR) approved by ArvinMeritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

## Trailer Air Suspension Systems

### RFS/MTA

Major Structural Components <sup>1</sup>	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers <sup>1</sup>	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings <sup>1</sup>	5/Unl/P, 3/Unl/L

(For axle and ABS coverage, refer to appropriate product warranties.)

<sup>1</sup> Raw wood applications 3/Unl/P, 1/Unl/L

## Center Non-drive Axles – 2/100/P&L

61042	61052	71063
61043	61053	RC-26-700

## Meritor® Tire Inflation System by PSI 3/500/P&L

## Air Link™ 2/200/P&L<sup>1,2</sup>

## Meritor WABCO Components<sup>1</sup>

ABS (Anti-Lock Braking System) Air/Hydraulic	3/300/P&L	MWA46
Hydraulic Power Brake (HPB)	3/300/P&L	MWA52
ATC (Automatic Traction Control)	3/300/P&L	<sup>1</sup> Coverage includes Hangers, Trailing Arms, Walking Beams
EX <sup>3</sup> and PAN Air Disc Brake	2/100/P&L	<sup>2</sup> Bushings, Air Bag, Shock Absorbers 1/50/P
Air Dryers (ALL)	1/100/P&L	
Leveling Valves	1/Unl/P&L	
Air Brake Valves	1/100/P&L	
Emissions Valve	2/200/P	
Emission SCR Air Control Unit <sup>4</sup>	2/200/P	
Clutch Controls	2/200/P&L	
ECAS (Electronically Controlled Air Suspension)	3/300/P&L	
Air Compressors (ALL) <sup>2</sup>	2/200/P&L	
Electronic Stability Control (ESC)	3/300/P&L	
Truck Roll Stability Control (RSC)	3/300/P&L	
Trailer Roll Stability Support (RSS)	3/300/P&L	
Trailer Control Line Filter	1/100/P&L	
Trailer Control Line Filter with ABS Valve	4/400/P, 1/100/L	
Trailer ABS Valve with Control Line Filter	4/400/P, 3/300/L	

<sup>1</sup> Warranted by Meritor WABCO Vehicle Control Systems.

<sup>2</sup> WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by Meritor WABCO. Please contact your respective dealer/distributor of those engines for warranty and servicing.

<sup>3</sup> Brake warranty coverage is valid when using a Meritor chamber. For other chambers, brake coverage is 1/Unl/P.

<sup>4</sup> Must have an oil coalescing device installed in the air system located before the Air Control Unit.

## Trailer Axles

Beam and Brackets <sup>1</sup>	5/Unl/P, 1/Unl/L
Wheel End Systems <sup>2</sup>	
Standard System <sup>3</sup>	1/Unl/P&L

<sup>1</sup> 9000 Series is 3/Unl/P, 1/Unl/L.

<sup>2</sup> Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

<sup>3</sup> When installed by ArvinMeritor.

(For brake components and ABS coverage, refer to appropriate product warranties.)

## TAG/ Pusher Axles<sup>1</sup>

TQ, TQD, TR, TRD	
Beam and Brackets	3/Unl/P, 1/Unl/L

(For brake components and ABS coverage, refer to appropriate product warranties.)

## Rear Engine

### Power Take-offs 1/Unl/P

## Transfer Cases – 1/Unl/P

MTC-4208	T-1138
MTC-4210	T-2111
MTC-4213	T-2119
	T-2120
	TG-2213

# Restricted Service Warranty Information



## Restricted Service Vehicles:

- Load-On/Load-Off
- Rail Yard Spotter
- Stevedoring Tractor
- Yard Jockey
- Port Tractor
- Roll-On/Roll-Off
- Trailer Spotter

## Restricted Service Typically Is:

- Low mileage operation
- 15 MPH vehicle speed restriction
- Vehicles are **not** typically licensed for highway use
- Six (6) starts/stops per mile (typical)

**Coverage under ArvinMeritor's warranty requires that the application of products be properly approved pursuant to OEM, ArvinMeritor, Meritor WABCO, and ZF engineering approvals. Refer to TP-9441 for axles and/or contact ArvinMeritor regarding specific application approval questions on any product line.**

## Front Non-Drive Steer Axles – 1/Unl/P

FF-941	FF-966	FL-941	MFS-12-144A-N	MFS-14-143A-N	MFS-18-133A-N
FF-943	FG-941	FL-943	MFS-13-143A-N	MFS-16-122A-N	MFS-20-133A-N
FF-961	FG-943	MFS-12-143A-N	MFS-13-144A-N	MFS-16-143A-N	

## Clutch

15.5" HD Clutch <sup>1</sup>	1/100/P&L
15.5" TwinXTend	1/100/P&L
17" FreedomLine Clutch	1/100/P&L

<sup>1</sup> Products with an in-service date prior to 11/01/02 warranted by Meritor Clutch Company.

## Transmissions – 1/Unl/P

ZF-FreedomLine 12-Speed<sup>1,2</sup>

<sup>1</sup> Includes electronic shift systems.  
<sup>2</sup> Hard surface applications only.

## Drivelines – 1/Unl/P

RPL      RN      MXL

## Rear Drive Single Axles – 1/Unl/P

RS-23-186	RS-24-160	MS-30-616	RS-30-380
RS-23-380	MS-26-616	RS-30-185	MS-35-380

## Rear Drive Tandem Axles – 1/Unl/P

MT-44-14X/P	MT-70-380	RT-46-164EH/P
MT-52-616	RT-44-145/P	RT-50-160/P
MT-58-616	RT-46-160/P	

## Shock Absorbers

1/100/P

## Brake Components

Cam P	3/Unl/P
Cam Q Plus™	3/Unl/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
LX500 Feature <sup>1</sup>	1/Unl/P

<sup>1</sup> Includes: bushing, seal, cam and ASA.  
<sup>2</sup> Based on stamped wear diameter max.

## Meritor WABCO Components<sup>1</sup>

ABS (Anti-Lock Braking System) Air/Hydraulic	3/300/P&L
Hydraulic Power Brake (HPB)	3/300/P&L
ATC (Automatic Traction Control)	3/300/P&L
EX <sup>3,4</sup> and PAN Disc Brake	2/100/P&L
Air Dryers (ALL)	1/100/P&L
Leveling Valves	1/Unl/P&L
Air Brake Valves	1/100/P
Emissions Valve	2/200/P
Emission SCR Air Control Unit <sup>5</sup>	2/200/P
Clutch Controls	2/200/P&L
Air Compressors <sup>2</sup>	2/Unl/P&L

<sup>1</sup> Warranted by Meritor WABCO Vehicle Control Systems.  
<sup>2</sup> WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by Meritor WABCO. Please contact your respective dealer/distributor of those engines for warranty and servicing.  
<sup>3</sup> Brake warranty coverage is valid when using a Meritor WABCO chamber. For other chambers, brake coverage is 1/Unl/P.  
<sup>4</sup> Meritor WABCO chamber warranty is 1/Unl/P.  
<sup>5</sup> Must have an oil coalescing device installed in the air system located before the Air Control Unit.

## Coverage Exclusions:

### Product Description

All:	The cost of any repairs, replacements or adjustments to a covered component (1) associated with noise; (2) resulting from the use or installation of non-genuine ArvinMeritor components or materials; (3) due to vibration associated with improper operation or misapplication of drivetrain components; and (4) damage resulting from corrosion.
Front Axles:	King Pin Bushings.
Rear Axles:	Self-contained traction equalizers and oil filters. The use of NoSPIN differentials will result in the exclusion of axle shafts from warranty considerations. NoSPIN is a product of Tractech Inc.
Clutch:	Friction face and mating surface of center and pressure plate, wear pads and clutch brake.
ASA:	Boot and bushing. Bent, broken, over-torqued, missing or otherwise damaged pawl assemblies.
ABS:	Cut, broken, chaffed or otherwise damaged cable wires. Damaged sensors from removal when seized in block, or sensor adjustments. Valve failures due to contamination in air system. E.C.U. failures due to excessive over-voltage conditions.
Air Dryers:	Mounting brackets (see vehicle OEM). Desiccant cartridge housing only.
Emission SCR Air Control Unit:	In no event shall Meritor WABCO be liable for special, incidental, indirect or consequential damages of any kind, including but not limited to towing charges, downtime expenses, failure to meet emission standards, cargo damage or other losses resulting from a defective component.
Air System Components:	Gladhand seals, dash valve knobs, valve actuation handles, treadles, pedals. Water and other contamination damage that is due to the use of a non-genuine air dryer cartridge will not be covered.
Cam Brake:	Brake lining wear (except MX500 package) and brake shoe "rust-jacking"
Disc Brake:	Pad wear, rotor wear, non-Meritor WABCO chambers.

## Coverage Limitations:

### Product Description

All:	Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program.
Front Axles:	Tie rod and tie rod ends limited to 3-year/300,000-mile or published vocational coverage, whichever is less. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by ArvinMeritor.
Rear Axles:	Pinion and through shaft seals limited to 3-year/300,000-mile or published vocational coverage, whichever is less, if yoke is installed by ArvinMeritor. If yoke is not installed by ArvinMeritor, then ArvinMeritor does not warrant pinion seals. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by ArvinMeritor.
Rear Axles:	The Meritor® breather part number A-1199-W-4053 or A-1199-R-4048 must be used for eligibility of any potential warranty consideration relating to contamination and/or loss of lube in axles.
Cam Brake:	Limited to bracket, brake spider and camshaft.
X30:	Wearable life is up to the discard diameter of the drum.
Disc Brake:	Warranty coverage for boots, seals, bushings and pins is 2/200/P. Warranty coverage for pads is 1/100/P.
Trailer Air Suspension Systems:	Fastener torque coverage is limited to 2/Unl P&L.
Transmissions:	Seal warranty is 3-years/300,000-miles or published vocational coverage, whichever is less, if yoke is installed by ArvinMeritor. If yoke is not installed by ArvinMeritor, there is no seal coverage. Approved synthetic lube required for extended transmission coverage.
Bus & Coach, R.V. Suspensions:	Links, rubber and plastic parts, bushings, bearings, joints and air springs are limited to 1/100/P&L.
	Warranty coverage on vehicles with 1,850 lb-ft engine torque and over may be reduced on individual drivetrain components. Contact your ArvinMeritor representative for specific details.

(1) What is Covered by this Commercial Warranty? ArvinMeritor Inc. warrants to the owner ("Owner") that the components listed in this publication, which have been installed by an Original Equipment Manufacturer ("OEM") as original equipment in vehicles licensed for on-highway use, will be free from defects in material and workmanship. This warranty coverage begins only after the expiration of the OEM's vehicle warranty for the applicable covered components. Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner, or, the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed elsewhere in this warranty statement.

Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Components (whether new, used or remanufactured) installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

For certain components, coverage requires the use of specific extended drain interval or synthetic lubricants. For further information about lubrication and maintenance, see ArvinMeritor publication Maintenance Manual Number 1 and the applicable ArvinMeritor maintenance manual for the product in question. Other conditions and limitations applicable to this warranty are detailed below.

(2) Designation of Vocational Use Required. To obtain warranty coverage, each Owner must notify ArvinMeritor through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the ArvinMeritor components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with ArvinMeritor directly. Failure to notify ArvinMeritor of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date.

A second Owner and each subsequent Owner must also notify ArvinMeritor as to the intended vocational use of the vehicle. This notification can be sent directly to ArvinMeritor or through the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use.

Coverage under ArvinMeritor's warranty requires that the application of products be properly approved pursuant to OEM, ArvinMeritor, MeritorWABCO, and ZF engineering approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, and/or contact ArvinMeritor regarding specific application approval questions on any product line.

(3) What is the Cost of this Warranty? There is no charge to the Owner for this warranty.

(4) What is not Covered by this Warranty? This warranty does not cover normal wear and tear; nor does it cover a component that fails, malfunctions or is damaged as a result of (I) improper installation, adjustment, repair or modification (including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage, or vocation from that which was originally approved by ArvinMeritor), (II) accident, natural disaster, abuse, or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the transmission, axle, driveline, and/or clutch torque capacity), or (III) improper or insufficient maintenance (including deviation from approved lubricants, change intervals, or lube levels). This warranty does not cover any component or part that is not sold by ArvinMeritor. For vehicles that operate full or part time outside of the United States and Canada, a one year, unlimited mileage, parts only warranty (1/Unl/P) will apply.

(5) Remedy. The exclusive remedy under this warranty shall be the repair or replacement of the defective component at ArvinMeritor's option. ArvinMeritor reserves the right to require that all applicable failed materials are available and/or returned to ArvinMeritor for review and evaluation.

(6) Disclaimer of Warranty.

*THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESSED, IMPLIED OR STATUTORY INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.*

(7) Limitation of Remedies. In no event shall ArvinMeritor be liable for special, incidental, indirect, or consequential damages of any kind or under any legal theory, including, but not limited to, towing, downtime, lost productivity, cargo damage, taxes, or any other losses or costs resulting from a defective covered component.

(8) To Obtain Service. If the Owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either ArvinMeritor or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM new truck and/or trailer dealer or authorized ArvinMeritor service location. The dealer will inspect the vehicle and contact ArvinMeritor for an evaluation of the claim. When authorized by ArvinMeritor, the dealer will repair or replace during the term of this warranty any defective ArvinMeritor component covered by this warranty.

(9) Entire Agreement. This is the entire agreement between ArvinMeritor and the Owner about warranty and no ArvinMeritor employee or dealer is authorized to make any additional warranty on behalf of ArvinMeritor. This agreement allocates the responsibilities for component failure between ArvinMeritor and the Owner.

For more information, call **800-535-5560**.

