

DRIVE A FIRESTONE

MARCH 2013 TRUCK TIRE DATA BOOK

Firestone

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Medium Truck Tire Size & Availability Charts

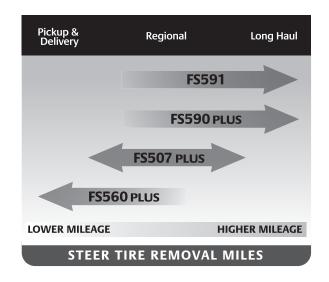
		LO	AD R	ANGE	& TR	EAD	DEPT	HS (II	N 32N	IDS) I	NDIC	ATE A	AVAIL	ABILI	ΤY			
FIRESTONE	FS591	FS590 PLUS	FS507 PLUS	FS560 PLUS	FD691	FD695 PLUS	FD690 PLUS	FD663	FT491	FT455 PLUS	FS400	FD600	XR4	FS820	T819	T831	FD835	T839
SmartWay® Verified & CARB Compliant	•					•				•								
PAGE	6-7	8	9	11	12 - 13	14	15	17	18 - 19	21	22	23	24	25	26	27	28	29
REPLACES CONTINENTAL	HSL2 Eco Plus	HSL2	HSL2	HSR2	HDL2 Eco Plus	HDL2 Eco Plus	HDL2 DL	HDR1	HTL2 Eco Plus	HTL2 Eco Plus	HSL1 Coach	HDR2	LSR1	HSC1	HSC1	HDC	HDC	HTC1
REPLACES YOKOHAMA	101ZL, RY617	101ZL, RY617	101ZL, RY617	103ZR, RY023	703ZL	703ZL, TY557	703ZL, TY557	SY767, TY303	RY587	RY587	None	None	None	MY507, 501ZA	MY507, 501ZA	LY053	LY053	MY507A, RY253
SIZE		I						LOAD	RANGE -	TREAD	DEPTH							
10R17.5													G-16					
9R22.5				F-17														
10R22.5				F/G-18				F-25										
11R22.5	G/H-18	G-18	G/H-19	G/H-19	G-26	G-26	G-29	G/H-26	G-11	G-12				H-24	H-20	H-31		
12R22.5				H-19				H-26							H-20	H-31		
11R24.5	G/H-18	G-18	G/H-19	G/H-19	G-26	G-26	G-29	G/H-26	G-11	G-12				H-24	H-20	H-31	H-33	
12R24.5															H-20			
215/75R17.5				H-15														
225/70R19.5				F/G-16			F/G-19											
245/70R19.5				F/G-17			G-20											
255/70R22.5				H-18					H-11	H-12								
275/70R22.5				H-18														
295/75R22.5	G/H-18	G-18	G/H-19	G-19	G-26	G-26	G-29	G-26	G-11	G-12								
315/80R22.5											L-18	J-27		L-26	L-20			
385/65R22.5																		J-17
425/65R22.5																		L-18
445/65R22.5																		L-18
285/75R24.5	G-18	G-18	G-19	G-19	G-26	G-26	G-29	G-26	G-11	G-12								

Recommended Medium Truck Tire Application

WEAR	TYPICAL APPLICATION	STEER	DRIVE	TRAILER
SLOWER	Long Haul Service	FS591, FS590 PLUS FS507 PLUS	FD691, FD690 PLUS FD695 PLUS, FD663	FT491 FT455 plus
	Regional Haul Service	FS591, FS590 PLUS FS507 PLUS FS560 PLUS	FD691, FD690 PLUS FD695 PLUS, FD663	FT491 FT455 plus
	Local/Pickup & Delivery Service	FS560 PLUS	FD691, FD690 PLUS FD695 PLUS, FD663	FT491 FT455 plus FS560 plus
FASTER	On/Off-Highway Service	FS820 T819 T839	FD835, T831 FS820, T819, T839	FS820 T819 T839
	Special Service	FS400 XR4	FS400 FD600, XR4	FS400 XR4

Note: Unless otherwise specified, steer and trailer tires may be used in any position.

Recommended Usage of Main Steer Rib Patterns



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EPA SmartWay® verified and CARB compliant.



FS591

Fuel-Efficient Premium Steer Radial

- · Combines low rolling resistance tread and energy-saving casing design to optimize fuel efficiency.
- ULTI-Rib[™] and Side Groove[™] designs combat the initiation and spread of irregular wear.
- A wider and deeper tread and proprietary shoulder design results in greater removal mileage and irregular wear resistance.
- · Innovative sidewall design reduces overall tire weight to improve fuel efficiency without sacrificing durability.



Recommended Application

An all-position radial tire designed for steer applications in: Long Haul Service / Regional Haul Service

Replaces: Continental: HSL2 ECO PLUS Yokohama: 101ZL, RY617

TECHNICAL DATA															
	Lood	Article	Weight*	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth		ire Load igle)	Max. Ti (Dı	re Load ıal)	Max. Speed
Tire Size	Load Range	Number	(lbs.)	Rim	Diam.	Width	Radius	(Loaded)	Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FS591 PLUS															
11R22.5 ²	G	238-532	118	8.25	41.1	11.5	19.2	12.3	504	18	2800@720	6175@105	2650@720	5840@105	75
11R22.5 ²	Н	238-549	119	8.25	41.1	11.5	19.2	12.3	504	18	3000@830	6610@120	2725@830	6005@120	75
11R24.5 ²	G	238-566	126	8.25	43.1	11.5	20.2	12.3	480	18	3000@720	6610@105	2725@720	6005@105	75
11R24.5 ²	Н	238-583	127	8.25	43.1	11.5	20.2	12.3	480	18	3250@830	7160@120	3000@830	6610@120	75
295/75R22.5 ¹	G	233-738	114	8.25	40.2	11.4	18.8	12.5	516	18	2800@760	6175@110	2575@760	5675@110	75
295/75R22.5 ¹	Н	233-755	115	8.25	40.2	11.4	18.8	12.5	516	18	3250@830	7160@120	3000@830	6610@120	75
285/75R24.5 ²	G	238-498	120	8.25	41.3	11.4	19.4	12.2	502	18	2800@760	6175@110	2575@760	5675@110	75

*Estimate, subject to change 1 To be released 1st half 2013 2 To be released 2nd half 2013

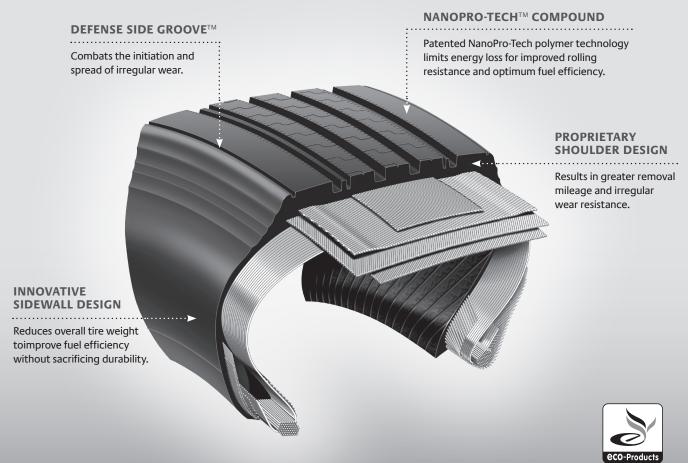
- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

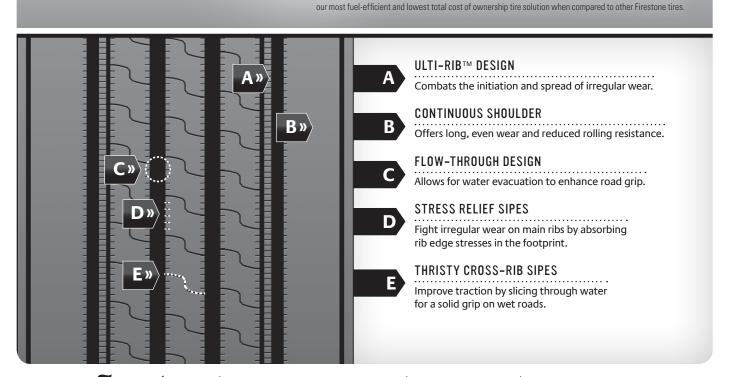
FS591 Features & Benefits

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Based on rolling resistance and field mileage tests, Firestone tires that bear the eco-Products symbol are











FS590 PLUS

Premium Steer Radial

- ULTI-Rib[™] wear protectors resist initiation and spread of irregular wear for exceptionally long life.
- Offers reduced rolling resistance for improved fuel economy.
- · Shoulder wear protector ribs minimize shoulder step-down wear.
- Stress-relief sipes along rib edges fight irregular wear.
- Center rib sipes provide biting edges for traction and stress relief.

Recommended Application

An all-position radial tire designed for steer applications in:

Long Haul Service / Regional Haul Service

Replaces: Continental: HSL2

Yokohama: 101ZL, RY617

	TECHNICAL DATA														
	11	A-4:-1-	Weight	M	0	0	Static	Overall Width	Revs	Tread Depth	Max. Ti (Sin	ire Load igle)	Max. Ti (Dı	ire Load ıal)	Max. Speed
Tire Size	Load Range	Article Number	(lbs.)	Meas. Rim	Overall Diam.	Overall Width	Loaded Radius	(Loaded)	Per Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FS590 PLUS															
11R22.5	G	296-902	117	8.25	41.3	10.8	19.2	11.8	503	18	2800@720	6175@105	2650@720	5840@105	75
11R24.5	G	296-910	125	8.25	43.3	10.8	20.2	11.8	480	18	3000@720	6610@105	2725@720	6005@105	75
295/75R22.5	G	296-929	111	8.25	40.1	10.8	18.7	11.8	518	18	2800@760	6175@110	2575@760	5675@110	75
285/75R24.5	G	296-937	114	8.25	41.3	10.7	19.4	11.8	503	18	2800@760	6175@110	2575@760	5675@110	75

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.







- Shoulder-wear protectors help minimize cupping and step-down wear.
- Stress-relief sipes along rib edges fight irregular wear.
- Center groove platforms on standard profile size reduce casing-damaging stone retention.

An all-position radial tire designed for steer applications in:

Long Haul Service / Regional Haul Service

Replaces: Continental: HSL2

Yokohama: 101ZL, RY617

	TECHNICAL DATA														
	land	A-4:-1-	Weight		Stati				Revs	Tread Depth			Max. Ti (Dı	Max. Speed	
Tire Size	Load Range	Article Number	(lbs.)	Meas. Rim	Overall Diam.	Overall Width	Loaded Radius	(Loaded)	Per Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FS507 PLUS															
11R22.5	G	244-142	113	8.25	41.3	10.6	19.3	11.6	503	19	2800@720	6175@105	2650@720	5840@105	75
11R22.5	Н	244-159	113	8.25	41.3	10.6	19.3	11.6	503	19	3000@830	6610@120	2725@830	6005@120	75
11R24.5	G	244-176	122	8.25	43.4	10.7	20.3	11.8	478	19	3000@720	6610@105	2725@720	6005@105	75
11R24.5	Н	244-193	122	8.25	43.4	10.7	20.3	11.8	478	19	3250@830	7160@120	3000@830	6610@120	75
295/75R22.5	G	244-091	110	8.25	40.2	10.7	18.8	11.8	517	19	2800@760	6175@110	2575@760	5675@110	75
295/75R22.5	Н	244-108	110	8.25	40.2	10.7	18.8	11.8	517	19	3250@830	7160@120	3000@830	6610@120	75
285/75R24.5	G	244-125	115	8.25	41.4	10.7	19.4	11.7	502	19	2800@760	6175@110	2575@760	5675@110	75

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

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FS560 PLUS

Premium Steer Radials

- Wide flow-through grooves and cross-rib sipes for excellent traction.
- Premium tread depth for long mileage.
- Full steel belts and solid shoulder buttress for reducing tread squirm on high-scrub applications.

Recommended Application

An all-position radial tire designed for steer applications in: **Regional Haul Service Pickup & Delivery Service**

Replaces: Continental: HSR2

Yokohama: 103ZR, RY023

						TEC	CHNIC	AL DA	TA						
	Load	Article	Weight	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth		ire Load igle)		ire Load ual)	Max. Speed
Tire Size	Range	Number	(lbs.)	Rim	Diam.	Width	Radius	(Loaded)	Mile	(32″)	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FS560 PLUS															
9R22.5	F	193-016	86	6.75	38.4	8.9	18.0	9.8	542	17	2060@720	4540@105	1950@720	4300@105	75
10R22.5	F	211-274	96	7.50	40.1	9.8	18.7	10.8	518	18	2360@690	5205@100	2240@690	4940@100	75
10R22.5	G	193-050	96	7.50	40.1	9.8	18.7	10.8	518	18	2575@790	5675@115	2430@790	5355@115	75
11R22.5	G	156-531	114	8.25	41.3	10.8	19.3	11.8	503	19	2800@720	6175@105	2650@720	5840@105	75
11R22.5	Н	156-558	114	8.25	41.3	10.8	19.3	11.8	503	19	3000@830	6610@120	2725@830	6005@120	75
12R22.5	Н	156-523	131	9.00	42.7	11.6	19.8	12.6	487	19	3350@830	7390@120	3075@830	6780@120	75
11R24.5	G	156-574	122	8.25	43.3	10.7	20.3	11.7	480	19	3000@720	6610@105	2725@720	6005@105	75
11R24.5	Н	156-582	122	8.25	43.3	10.7	20.3	11.7	480	19	3250@830	7160@120	3000@830	6610@120	75
215/75R17.5	Н	208-860	55	6.75	30.6	8.7	14.3	9.5	680	15	2180@830	4805@120	2060@830	4540@120	65
225/70R19.5*	F	160-716	67	6.00	32.2	8.5	15.3	9.4	647	16	1650@660	3640@95	1550@660	3415@95	75
225/70R19.5*	G	227-057	67	6.00	32.2	8.5	15.0	9.4	644	16	1800@760	3970@110	1700@760	3750@110	75
245/70R19.5*	F	169-981	74	6.75	33.3	9.4	15.7	10.3	624	17	1850@660	4080@95	1750@660	3860@95	75
245/70R19.5*	G	169-964	74	6.75	33.3	9.4	15.7	10.3	624	17	2060@760	4545@110	1985@760	4375@110	75
255/70R22.5	Н	192-982	93	8.25	36.7	10.3	17.1	11.3	567	18	2500@830	5510@120	2300@830	5070@120	75
275/70R22.5	Н	192-999	107	8.25	38.0	10.8	17.6	11.8	547	18	3175@830	7000@120	2900@830	6395@120	75
295/75R22.5	G	156-566	111	8.25	40.3	10.9	18.8	11.8	515	19	2800@760	6175@110	2575@760	5675@110	75
285/75R24.5	G	156-590	116	8.25	41.5	10.6	19.5	11.9	501	19	2800@760	6175@110	2575@760	5675@110	75

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

* Modified tread pattern.



EPA SmartWay® verified and CARB compliant.



FD691

Fuel-Efficient Premium Drive Radial

- Special cap and sidewall compounds and construction improve wear life and irregular wear resistance without sacrificing traction.
- Optimized bead design for lower rolling resistance and improved fuel economy.
- Innovative low rolling resistance casing saves fuel throughout the life-cycle of the casing.
- · Innovative sidewall design reduces overall tire weight to improve fuel efficiency without sacrificing durability.



Recommended Application

Designed for tandem- and single-drive axle applications in: Long Haul Service / Regional Haul Service

Replaces: Continental: HDL2 ECO PLUS Yokohama: 703ZL

TECHNICAL DATA															
	Land	A-4:-1-	Weight*	M	0	0	Static	Overall Width	Revs	Tread Depth		ire Load gle)	Max. Ti (Dı	re Load ial)	Max. Speed
Tire Size	Load Range	Article Number	(lbs.)	Meas. Rim	Overall Diam.	Overall Width	Loaded Radius	(Loaded)	Per Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FD691 PLUS															
11R22.5 ²	G	241-558	126	8.25	41.9	11.3	19.5	12.4	496	26	2800@720	6175@105	2575@720	5840@105	75
11R24.5 ²	G	241-575	132	8.25	43.7	11.2	20.4	12.3	475	26	3000@720	6610@105	2725@720	6005@105	75
295/75R22.5 ¹	G	241-524	118	8.25	40.6	11.3	18.9	12.5	512	26	2800@760	6175@110	2575@760	5675@110	75
285/75R24.5 ²	G	241-541	125	8.25	41.8	11.3	19.6	12.5	497	26	2800@760	6175@110	2575@760	5675@110	75

*Estimate, subject to change 1 To be released 1st half 2013 2 To be released 2nd half 2013

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

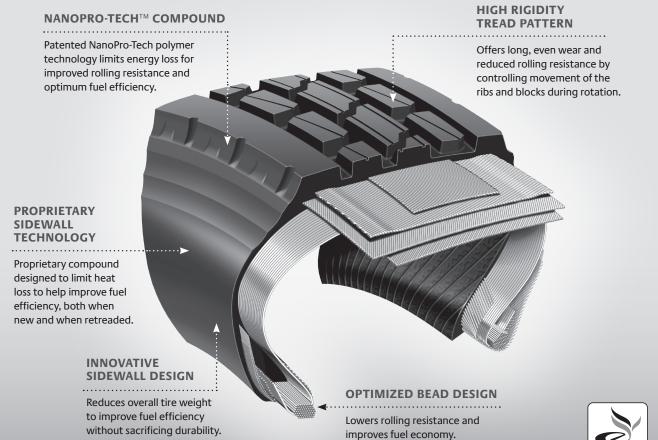
Firestone tires and tubes are subject to an ongoing development program. Bridgestone Americas Tire Operations, LLC retains the right to amend specifications at any time without notice or obligations. Please refer to rim manufacturer's load and inflation limits. Never exceed rim manufacturer's limits without the consent of the component manufacturer.

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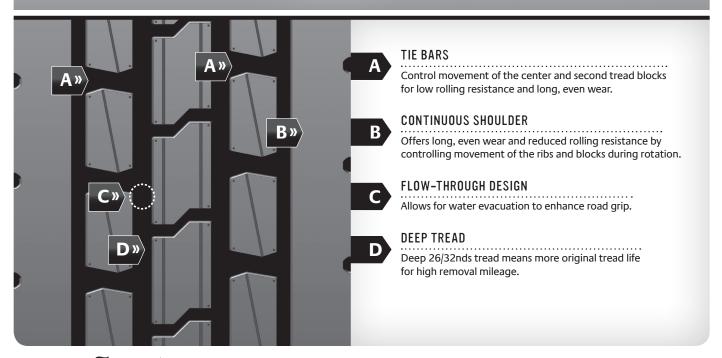
FD691 Features & Benefits

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Based on rolling resistance and field mileage tests, Firestone tires that bear the eco-Products symbol are our most fuel-efficient and lowest total cost of ownership tire solution when compared to other Firestone tires.









FD695 PLUS

Fuel-Efficient Premium Drive Radial

- Innovative low rolling resistance design and cool-running casing for superb fuel economy, even when retreaded.
- Continuous shoulder design distributes weight and torque evenly to fight irregular wear.
- Deep 26/32" twin-layer tread runs cool for outstanding retreadability in all weather conditions.
- · Aggressive center lug tread design provides excellent traction in all weather conditions.

Recommended Application

Designed for tandem and single drive axle applications in:

Long Haul Service / Regional Haul Service

Replaces: Continental: HDL2 Eco PLUS Yokohama: 703ZL, TY577

TECHNICAL DATA															
	l d	A-4:-1-	Weight*				Static	Overall Width	Revs	Tread Depth		ire Load gle)		ire Load ual)	Max. Speed
Tire Size	Load Range	Article Number	(lbs.)	Meas. Rim	Overall Diam.	Overall Width	Loaded Radius	(Loaded)	Per Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FD695 PLUS															
11R22.5	G	238-243	126	8.25	41.9	11.3	19.5	12.4	496	26	2800@720	6175@105	2650@720	5840@105	75
11R24.5	G	238-277	132	8.25	43.7	11.2	20.4	12.3	475	26	3000@720	6610@105	2725@720	6005@105	75
295/75R22.5	G	238-209	122	8.25	40.6	11.3	12.5	11.8	512	26	2800@760	6175@110	2575@760	5675@110	75
285/75R24.5	G	238-226	124	8.25	41.8	11.3	19.6	12.4	497	26	2800@760	6175@110	2575@760	5675@110	75

- · All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

Firestone tires and tubes are subject to an ongoing development program. Bridgestone Americas Tire Operations, LLC retains the right to amend specifications at any time without notice or obligations. Please refer to rim manufacturer's load and inflation limits. Never exceed rim manufacturer's limits without the consent of the component manufacturer.

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FD690 PLUS

Premium Drive Radial

- Designed to provide excellent performance on single and tandem drive axles.
- Extra-Deep tread for excellent traction and long original mileage.
- · Continuous shoulder design distributes weight and torque evenly to fight irregular wear.
- Continuous shoulder and aggressive center lugs provide excellent traction in wet or dry conditions for the life of the tread.

Recommended Application

Designed for tandem and single drive axle applications in:

Long Haul Service / Regional Haul Service

Pickup & Delivery Service

Replaces: Continental: HDL2 DL

Yokohama: 703ZL, TY577

						TEC	CHNIC	AL DA	TA						
	Load	Article	Weight*	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth		re Load gle)		re Load ıal)	Max. Speed
Tire Size	Range	Number	(lbs.)	Rim	Diam.	Width	Radius	(Loaded)	Mile	(32″)	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FD690 PLUS															
11R22.5	G	158-676	128	8.25	42.1	10.8	19.6	11.8	493	29	2800@720	6175@105	2650@720	5840@105	75
11R24.5	G	159-135	138	8.25	44.0	10.7	20.5	11.8	472	29	3000@720	6610@105	2725@720	6005@105	75
225/70R19.5	F	186-675	70	6.00	32.3	8.5	15.0	9.4	643	19	1650@660	3640@95	1550@660	3415@95	75
225/70R19.5	G	227-074	70	6.00	32.3	8.5	15.0	9.4	643	19	1800@760	3970@110	1700@760	3750@110	75
245/70R19.5	G	186-692	79	6.75	33.5	9.1	15.5	10.0	620	20	2060@760	4545@110	1985@760	4375@110	75
295/75R22.5	G	159-067	125	8.25	41.0	11.1	19.1	12.2	507	29	2800@760	6175@110	2575@760	5675@110	75
285/75R24.5	G	159-084	131	8.25	42.2	10.9	19.8	11.9	492	29	2800@760	6175@110	2575@760	5675@110	75

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

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- Deep 26/32" tread drive axle radial.
- Proven, aggressive lug tread designed with tie bars for solid traction, uniform wear, and long tread life.
- Open shoulder design provides superior traction in mud and snow.
- · Four full-width steel belts combat tread squirm and enhance retreadability.

Designed for high traction and high scrub drive axle applications in:

Long Haul Service / Regional Haul Service

Pickup & Delivery Service

Replaces: Continental: HDR1

Yokohama: SY767, TY303

						TEC	CHNIC	CAL DA	TA						
	Load	Article	Weight*	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth	Max. Ti (Sin	ire Load igle)		re Load (al)	Max. Speed
Tire Size	Range	Number	(lbs.)	Rim	Diam.	Width	Radius	(Loaded)	Mile	(32″)	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FD663															
10R22.5	F	281-034	110	7.50	40.5	9.8	18.9	10.8	513	25	2360@690	5205@100	2240@690	4940@100	75
11R22.5	G	281-042	125	8.25	41.9	10.7	19.5	11.8	496	26	2800@720	6175@105	2650@720	5840@105	75
11R22.5	Н	211-206	125	8.25	41.9	10.8	19.5	11.9	496	26	3000@830	6610@120	2725@830	6005@120	75
12R22.5	Н	151-009	148	8.25	43.0	11.6	20.0	12.6	483	26	3350@830	7390@120	3075@830	6780@120	65
11R24.5	G	281-069	133	8.25	43.9	10.7	20.5	11.8	473	26	3000@720	6610@105	2725@720	6005@105	75
11R24.5	Н	293-733	134	8.25	43.9	10.7	20.5	11.8	473	26	3250@830	7160@120	3000@830	6610@120	75
295/75R22.5	G	281-050	117	8.25	40.6	11.1	18.9	12.2	512	26	2800@760	6175@110	2575@760	5675@110	75
285/75R24.5	G	281-077	122	8.25	41.9	10.6	19.6	11.7	496	26	2800@760	6175@110	2575@760	5675@110	75

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.



EPA SmartWay® verified and CARB compliant.



Fuel-Efficient Premium All-Position Radial

- Sidewall protector ribs resist curb damage and abrasion.
- ULTI-Rib[™] and Defense Groove[™] designs combat the initiation and spread of irregular wear.
- Wider tread spreads load over a larger area, distributing footprint pressure to promote long, smooth wear. The wider design takes a full-size drive cap for even more low-cost miles.
- Innovative sidewall design reduces overall tire weight to improve fuel efficiency without sacrificing durability.



Recommended Application

A radial tire suitable for all-position use but designed for single- and tandem-axle trailer and dolly applications in:

Long Haul Service / Regional Haul Service

Replaces: Continental: HTL ECO PLUS Yokohama: RY587

						TEC	CHNIC	AL DA	TA						
	Lood	Autiala	Weight*	Mass	Overell	Overell	Static	Overall Width	Revs	Tread Depth		Max. Tire Load (Single)		ire Load ıal)	Max. Speed
Tire Size	Load Range	Article Number	(lbs.)	Meas. Rim	Overall Diam.	Overall Width	Loaded Radius	(Loaded)	Per Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FT491 PLUS															
11R22.5 ²	G	238-668	109	8.25	40.9	11.3	19.1	12.5	507	11	2800@720	6175@105	2650@720	5840@105	75
11R24.5 ²	G	238-685	117	8.25	42.9	11.4	20.1	12.5	485	11	3000@720	6610@105	2725@720	6005@105	75
255/70R22.5 ²	Н	238-702	90	8.25	36.3	10.4	17.1	11.5	572	11	2500@830	5510@120	2300@830	5070@120	75
295/75R22.5 ¹	G	238-617	103	8.25	39.7	11.3	18.6	12.5	523	11	2800@760	6175@110	2575@760	5675@110	75
285/75R24.5 ²	G	238-634	107	8.25	41.0	11.3	19.3	12.4	507	11	2800@760	6175@110	2575@760	5675@110	75

*Estimate, subject to change 1 To be released 1st half 2013 2 To be released 2nd half 2013

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

FT491 Features & Benefits

DEFENSE GROOVE™

Combats the initiation and

spread of irregular wear.

DRIVE A FIRESTONE

HIGH RIGIDITY TREAD PATTERN Offers long, even wear and reduced rolling resistance by controlling movement of the ribs and blocks during rotation.

CONTINUOUS SHOULDER AND

NANOPRO-TECH™ **COMPOUND**

Patented NanoPro-Tech polymer technology limits energy loss for improved rolling resistance and optimum fuel efficiency.

SIDEWALL PROTECTOR RIBS

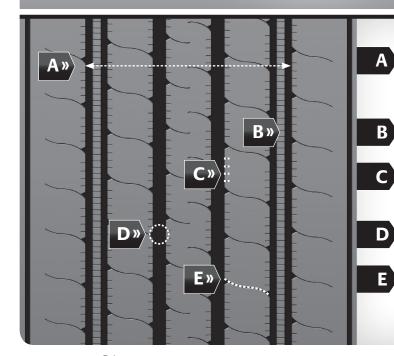
Help resist curb damage and abrasion.

> **INNOVATIVE** SIDEWALL DESIGN

Reduces overall tire weight to improve fuel efficiency without sacrificing durability.



Based on rolling resistance and field mileage tests, Firestone tires that bear the eco-Products symbol are our most fuel-efficient and lowest total cost of ownership tire solution when compared to other Firestone tires.



WIDE FOOTPRINT

Spreads load over a larger area, distributing footprint pressure to promote long, smooth wear. The wide design takes a full-size drive cap, which helps extend the life of your casing.

ULTI-RIB™ DESIGN

Combats the initiation and spread of irregular wear.

STRESS RELIEF SIPES

Fight irregular wear on main ribs by absorbing rib edge stresses in the footprint.

FLOW-THROUGH DESIGN

Allows for water evacuation to enhance road grip.

THIRSTY CROSS-RIB SIPES

Improve traction by slicing through water for a solid grip on wet roads.

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EPA SmartWay* verified and CARB compliant.



FT455 PLUS

Fuel-Efficient All-Position Radial

- Reduced rolling resistance for improved fuel economy that meets requirements for EPA SmartWay® vehicles and CARB.
- Steel belts and body ply with special casing contour provide excellent casing durability and superior retread performance.
- · Straight, flow-through grooves promote smooth rib-wear patterns and evacuate water effectively for solid wet traction.
- · Four full-width steel belts help reduce tread squirm for extra casing durability.
- · Shallow trailer-style tread depth and five-rib design provide long even wear on free-rolling axles.

Recommended Application

A radial tire suitable for all-position use but designed for tandem and single axle trailer applications and dolly service in:

Long Haul Service / Regional Haul Service **Pickup & Delivery Service**

Replaces: Continental: HTL2 Eco Plus

Yokohama: RY587

						TEC	CHNIC	AL DA	TA						
	land	Article	Weight*	Mass	Overall	Overell	Static	Overall Width	Revs Per	Tread Depth		ire Load gle)		re Load ıal)	Max. Speed
Tire Size	Load Range	Number	(lbs.)	Meas. Rim	Diam.	Overall Width	Loaded Radius	(Loaded)	Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FT455 PLUS															
11R22.5	G	235-353	105	8.25	41.0	10.8	19.1	11.7	507	12	2800@720	6175@105	2650@720	5840@105	75
11R24.5	G	235-370	113	8.25	43.0	10.7	20.1	11.7	483	12	3000@720	6610@105	2725@720	6005@105	75
255/70R22.5	Н	235-387	89	8.25	36.3	10.3	17.0	11.4	572	12	2500@830	5510@120	2300@830	5070@120	75
295/75R22.5	G	235-319	100	8.25	39.8	10.7	18.6	11.8	522	12	2800@760	6175@110	2575@760	5675@110	75
285/75R24.5	G	235-336	106	8.25	41.2	10.7	19.3	11.6	504	12	2800@760	6175@110	2575@760	5675@110	75

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.





- Built for heavy loads in on-highway and inter-city bus service.
- Deep tread, flow-through grooves and cross-rib siping provide long life and high traction in all weather conditions.
- · Shoulder wear protector ribs combat initiation and spread of irregular wear.
- Stone-rejector platforms help prevent the retention of casing-damaging stones for excellent retreadability.
- Computer-designed features help provide a quieter ride.

An all-position radial designed for:

Intercity Bus Service / Other Special Service Applications

Replaces: Continental: HSL 1 Coach

						TEC	CHNIC	AL DA	TA						
	Load	Article	Weight*	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth	Max.Ti (Sin	ire Load igle)	Max.Ti (Dı	re Load ial)	Max. Speed
Tire Size	Range	Number	(lbs.)	Rim	Diam.	Width		(Loaded)	Mile	(32″)	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FS400															
315/80R22.5†	L	240-623	146	9.00	42.4	12.4	19.7	13.9	490	18	4125@900	9090@130	3750@900	8270@130	75

† Requires the use of a 9.00-inch rim to carry over 8,000 lbs.

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

Firestone tires and tubes are subject to an ongoing development program. Bridgestone Americas Tire Operations, LLC retains the right to amend specifications at any time without notice or obligations. Please refer to rim manufacturer's load and inflation limits. Never exceed rim manufacturer's limits without the consent of the component manufacturer.

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- Aggressive, open shoulder lugged design for superior traction on wet pavement, mud and snow.
- Deep 27/32" original tread depth for long life.
- Individual traction blocks and multiple block edges offer excellent pulling power.

Designed for drive axle applications in: Intercity Bus Service / Other Special Service Applications

Replaces: Continental: HDR2

	TECHNICAL DATA														
	Load	Article	Weight*	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth	Max.Ti (Sin	ire Load gle)	Max. Ti (Du		Max. Speed
Tire Size	Range	Number	(lbs.)	Rim	Diam.	Width		(Loaded)	Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FD600															
315/80R22.5†	J	219-696	165	9.00	42.9	12.4	19.9	13.6	484	27	3750@830	8270@120	3450@830	7610@120	75

† Requires the use of a 9.00-inch rim to carry over 8,000 lbs.

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

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- · Four full-width steel belts help reduce tread squirm and provide casing durability.
- · Zig-zag grooves and shoulder sipes provide hundreds of biting surfaces for superior wet traction.
- · Computer-designed tread minimizes road noise.

An all-position radial designed for general-purpose on-highway service.

Replaces: Continental: LSR1

	TECHNICAL DATA														
	Load	Article	Weight	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth	Max. Ti (Sin	ire Load gle)	Max. Ti (Du	re Load ial)	Max. Speed
Tire Size	Range	Number	(lbs.)	Rim	Diam.	Width		(Loaded)	Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
XR4															
10R17.5HC	G	252-727	79	7.50	34.7	9.5	16.1	10.4	599	16	2180@790	4805@115	2060@790	4540@115	75

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.



FS820

On/Off-Highway All-Position Radial

- · Extra deep and wide tread provides excellent traction, increased tread wear life and improved handling.
- Rugged five-rib design combats stone retention for long mileage and retreadability.
- All-steel casing construction and cap/base compounding resists cuts and improves durability and retreadability.
- Stone rejecter platforms (center groove 315/80R22.5; each major groove 11R22.5 & 11R24.5) protect belts from potential damage.

Recommended Application

An all-position radial designed for steer, drive, and trailer positions in on/off-highway service.

Replaces: Continental: HSC1

Yokohama: MY507, 501ZA

						TEC	CHNIC	AL DA	TA						
	land	Article	Weight*	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth	Max. Ti (Sin	ire Load gle)		re Load ıal)	Max. Speed
Tire Size	Load Range	Number	(lbs.)	Rim	Diam.	Width		(Loaded)	Mile	(32″)	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FS820															
11R22.5	Н	241-252	134	8.25	42.0	10.9	19.5	12.0	495	24	3000@830	2720@830	6610@120	6005@120	65
11R24.5	Н	233-840	144	8.25	44.0	10.9	20.5	12.0	472	24	3250@830	3000@830	7160@120	6610@120	65
315/80R22.5 ²	L	233-874	148	9.00	42.9	12.6	19.9	13.9	484	26	4120@900	3750@900	9090@130	8270@130	65

*Estimate, subject to change

¹ To be released 1st half 2013

² To be released 2nd half 2013

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.





T819

On/Off-Highway All-Position Radial

- Rugged four-rib design with special groove shape to combat stone retention for long mileage and retreadability.
- Tread compounded and constructed to resist cuts and impacts in on/off-highway service.
- Computer designed tread with variable-pitch nose treatment for solid traction, excellent durability, and a quiet ride.
- · Four steel belts and an all-steel casing ply for durability and excellent retread performance.

Recommended Application

An all-position radial designed for steer, drive and trailer positions in on/off-highway service.

Replaces: Continental: HSC1

Yokohama: MY507, 501ZA

						TEC	CHNIC	AL DA	TA						
	1	Article	Weight	M	0	0	Static	Overall Width	Revs	Tread Depth		ire Load gle)	Max. Ti (Dı		Max. Speed
Tire Size	Load Range	Number	(lbs.)	Meas. Rim	Overall Diam.	Width	Loaded Radius	(Loaded)	Per Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
T819															
11R22.5	Н	294-535	125	8.25	41.6	10.7	19.4	11.7	499	20	3000@830	6610@120	2725@830	6005@120	65
12R22.5	Н	157-341	139	9.00	42.7	11.6	19.8	12.6	487	20	3350@830	7390@120	3075@830	6780@120	65
11R24.5	Н	294-543	131	8.25	43.6	10.7	20.4	11.7	476	20	3250@830	7160@120	3000@830	6610@120	65
12R24.5	Н	157-368	148	9.00	44.7	11.3	20.8	12.3	465	20	3550@830	7830@120	3250@830	7160@120	65
315/80R22.5 †	L	157-147	148	9.00	42.7	12.1	19.7	13.1	487	20	4125@900	9090@130	3750@900	8270@130	55

† 315/80R22.5 requires the use of a 9.00 rim to carry over 8000 lb.

- · All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.





- Aggressive lug pattern for a strong grip.
- Extra-deep tread for long original mileage.
- · Specially formulated on/off-highway tread compound resists chips, cuts, and tears.

A drive radial designed for use in on/off-highway service.

Replaces: Continental: HDC Yokohama: LY053

							TEC	CHNIC	AL DA	TA						
		Lood	Article	Weight	Meas.	Overall	Overell	Static Loaded	Overall Width	Revs Per	Tread Depth		ire Load gle)	Max. Ti (Dı	re Load ial)	Max. Speed
	Tire Size	Load Range	Number	(lbs.)	Rim	Diam.	Overall Width	Radius	(Loaded)	Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
T831																
	11R22.5	Н	281-557	134	8.25	42.4	10.7	19.7	11.8	490	31	3000@830	6610@120	2725@830	6005@120	55
	12R22.5	Н	281-581	150	9.00	43.6	11.4	20.2	12.7	476	31	3350@830	7390@120	3075@830	6780@120	55
	11R24.5	Н	281-565	142	8.25	44.5	10.7	20.8	11.8	467	31	3250@830	7160@120	3000@830	6610@120	55

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.





- · Ultra-deep tread for extended tire life.
- Aggressive block design with angled siping for superior traction both on and off the highway.
- · Ultra-tough tread compound resists cuts, chips, chunks and tears.
- · Split-belt construction provides extra flexibility and durability in severe-service applications.

A drive radial designed for use in severe on/off highway service, such as logging.

Replaces: Continental: HDC Yokohama: LY053

						TEC	CHNIC	AL DA	TA						
	Load	Article	Weight	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth	Max. Ti (Sin	ire Load igle)	Max. Ti (Du	re Load ıal)	Max. Speed
Tire Size		Number	(lbs.)	Rim	Diam.	Width		(Loaded)	Mile	(32″)	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
FD835															
11R24.5	Н	208-945	144	8.25	44.7	10.8	20.8	11.9	465	33	3250@830	7160@120	3000@830	6610@120	65

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

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T839 On/Off-Highway All-Position Wide Base Radial

- · A five-rib design provides extra pulling power for extra-heavy loads.
- · Extra-wide tread with individual blocks provides maximum flotation on soft soil.
- Steel belts provide strength and casing durability for long life and excellent retread performance.

Recommended Application

An all-position wide base radial designed for steer, drive and trailer positions in on/off-highway service.

Replaces: Continental: HTC1

Yokohama: MY507A, RY253

						TEC	CHNIC	AL DA	TA						
	Lood	Article	Weight*	Meas.	Overall	Overall	Static Loaded	Overall Width	Revs Per	Tread Depth		ire Load gle)	Max. Ti (Dı	re Load ıal)	Max. Speed
Tire Size	Load Range	Number	(lbs.)	Rim	Diam.	Width	Radius	(Loaded)	Mile	(32″)	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	(MPH)
T839															
385/65R22.5	J	294-586	155	11.75	42.5	15.2	19.7	16.6	492	17	4250@830	9370@120	-	-	65
425/65R22.5	L	294-594	179	12.25	44.5	16.3	20.5	17.7	470	18	5150@830	11400@120	-	-	65
445/65R22.5	L	294-608	193	13.00	45.7	17.4	21.0	19.0	458	18	5600@830	12300@120	-	-	65

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

Medium Truck Tire – Discontinued Products

			TIR	E SPECII	FICATION	IS				
Pattern	Size	Load Range	Replace With	Meas. Rim	Overall Diam.	Overall Width	Static Loaded Radius	Loaded Width	Revs Per Mile	Tread Depth
POWER DRIVE	8.25-20	E	-	6.50	39.2	9.7	18.5	10.8	533	23
POWER DRIVE	9.00-20	Е	-	7.00	41.1	10.7	19.4	11.9	509	25
POWER DRIVE	10.00-20	F	-	7.50	42.5	11.3	20.0	11.8	492	26
RIB DUPLEX	15-22.5	Н	-	11.75	42.4	15.3	19.6	17.0	493	19
RIB DUPLEX	18-22.5	Н	-	14.00	45.5	18.4	21.0	20.5	460	20
SAT DUPLEX	14-17.5	Е	-	10.50	36.6	14.3	16.9	15.7	571	24
SAT DUPLEX	15-19.5	G	-	11.75	40.0	16.0	18.5	16.9	523	26
SAT DUPLEX	15-22.5	Н	-	11.75	43.2	15.2	20.0	16.9	484	26
SAT DUPLEX	18-19.5	Н	-	14.00	43.2	18.4	19.9	20.5	484	28
SAT DUPLEX	18-22.5	Н	-	14.00	46.5	18.4	21.4	20.5	450	28
SUPER ALL TRAC ND	8.25-20	Е	-	6.50	39.4	9.7	18.5	10.0	531	23
SUPER ALL TRAC ND	9.00-20	Е	-	7.00	41.4	10.8	19.4	11.2	505	25
SUPER ALL TRAC ND	9.00-20	F	-	7.00	41.4	10.8	19.4	11.2	505	25
SUPER ALL TRAC ND	10.00-20	F	-	7.50	42.3	11.3	19.8	11.5	494	25
SUPER ALL TRAC ND	10.00-20	G	-	7.50	42.3	11.3	19.8	11.5	494	25
SUPER ALL TRAC ND	11.00-20	G	-	8.00	43.6	11.8	20.3	12.1	480	26
TRANSPORT DUPLEX	14-17.5	Е	-	10.50	36.3	13.8	16.7	15.3	576	18
TRANSPORT DUPLEX	15-19.5	G	-	11.75	39.5	15.2	18.2	16.9	529	19
TRANSPORT 1	8.25-20	Е	-	6.50	38.5	9.6	18.1	10.4	543	18
TRANSPORT 1	9.00-20	Е	-	7.00	40.2	10.1	18.9	11.1	520	18
TRANSPORT 1	9.00-20	F	-	7.00	40.2	10.1	18.9	11.1	520	18
TRANSPORT 1	10.00-20	F	-	7.50	41.3	11.3	19.4	12.3	506	19
TRANSPORT 1	10.00-20	G	-	7.50	41.3	11.3	19.4	12.3	506	19
TRANSPORT 1	11.00-20	G	-	8.00	42.6	12.2	19.9	13.4	491	20
TRANSPORT 1	11-22.5	F	FS507 PLUS	8.25	41.5	11.1	19.5	12.3	504	19
TRANSPORT 1	11-24.5	F	FS507 PLUS	8.25	43.4	11.1	20.4	12.3	482	19
TRANSPORT RIB	10.00-20	F	-	7.50	41.3	10.8	19.4	11.6	506	12
TRANSPORT RIB	11-22.5	F	-	8.25	41.3	10.8	19.4	11.4	506	12
FS507	11R22.5	G	FS507 PLUS	8.25	41.3	10.6	19.0	11.6	503	19
FS507	11R22.5	Н	FS507 PLUS	8.25	41.3	10.6	19.0	11.6	503	19
FS507	11R24.5	G	FS507 PLUS	8.25	43.4	10.7	20.0	11.8	479	19
FS507	11R24.5	Н	FS507 PLUS	8.25	43.4	10.7	20.0	11.8	479	19
FS507	295/75R22.5	G	FS507 PLUS	8.25	40.2	10.7	19.0	11.8	517	19
FS507	295/75R22.5	Н	FS507 PLUS	8.25	40.2	10.7	19.0	11.8	517	19
FS507	285/75R24.5	G	FS507 PLUS	8.25	41.4	10.7	19.0	11.7	502	19

Medium Truck Tire – Discontinued Products

			TIR	E SPECIF	ICATION	IS				
Pattern	Size	Load Range	Replace With	Meas. Rim	Overall Diam.	Overall Width	Static Loaded Radius	Loaded Width	Revs Per Mile	Tread Depth
FT455	11R22.5	G	FT455 PLUS	8.25	41.0	10.6	19.1	11.7	507	12
FT455	11R24.5	G	FT455 PLUS	8.25	43.0	10.6	20.1	11.7	483	12
FT455	255/75R22.5	Н	FT455 PLUS	8.25	36.3	10.3	17.0	11.4	572	12
FT455	295/75R22.5	G	FT455 PLUS	8.25	39.8	10.7	18.6	11.8	522	12
FT455	285/75R24.5	G	FT455 PLUS	8.25	41.2	10.6	19.3	11.6	504	12
T559	9.00R20	F	-	7.00	39.8	9.8	18.6	11.0	522	15
T559	10.00R20	G	-	7.50	41.6	10.6	19.3	11.8	499	16
T559	9R22.5	F	FS560 PLUS	6.75	38.2	8.9	17.9	9.8	544	15
T559	10R22.5	F	FS560 PLUS	7.50	39.8	9.8	18.6	10.8	521	15
T559	10R22.5	G	FS560 PLUS	7.50	39.8	9.8	18.6	10.8	521	15
T559	11R22.5	G	FS560 PLUS	8.25	41.2	10.8	19.2	11.9	504	16
T559	11R22.5	Н	FS560 PLUS	8.25	41.2	10.8	19.2	11.9	504	16
T559	11R24.5	G	FS560 PLUS	8.25	43.2	10.8	20.2	11.9	481	16
T559	295/75R22.5	G	FS590 PLUS	9.00	40.0	10.9	18.6	11.8	519	16
T559	285/75R24.5	G	FS590 PLUS	8.25	41.3	10.7	19.3	11.6	503	16
T575	9R22.5	F	FS560 PLUS	6.75	38.2	8.9	17.9	9.8	544	15
T575	10R22.5	F	FS560 PLUS	7.50	39.8	10.8	18.6	10.8	521	15
T575	10R22.5	F	FS560 PLUS	7.50	39.8	10.8	18.6	10.8	521	15
T575	11.00R20	Н	-	8.00	42.6	11.2	19.8	12.4	488	19
T575	11.00R22	Н	-	8.00	44.6	11.4	20.7	12.4	469	19
T575	12R22.5	Н	FS560 PLUS	8.25	42.6	11.3	19.9	12.4	488	19
T575	255/70R22.5	Н	FS560 PLUS	7.50	36.7	9.9	17.3	10.9	566	18
T546	9.00R20	G	-	7.00	40.3	10.1	18.8	11.2	515	25
T546	10.00R20	Н	-	7.50	41.5	10.8	19.3	11.9	501	26
T819	10.00R20	Н	-	7.50	41.5	10.6	19.3	11.6	501	20
T819	11.00R20	Н	-	8.00	42.6	11.5	19.8	12.5	486	20
T819	11.00R22	Н	-	8.00	44.7	11.4	20.8	12.5	465	20
T819	12.00R20	J	-	8.50	44.8	12.3	20.7	13.4	464	21
T831	10.00R20	Н	-	7.50	42.3	10.8	19.7	11.8	491	31
T831	11.00R20	Н	-	8.00	43.5	11.4	20.2	12.5	478	31

- All dimensions taken with tire on measuring rim.
- Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 68 through 71.
- For minimum dual spacing and approved rim widths see page 48.
- For ply ratings see table on page 46.

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Light Truck Tire Size & Availability Chart

LOAD RANGE AND TREAD DEPTHS **IN 32NDS INDICATE AVAILABILITY**

FIRESTONE	TRANSFORCE HT	TRANSFORCE AT				
PAGE	37	38				
REPLACES BF GOODRICH	T/A All Season	T/A Traction				
REPLACES GOODYEAR	Wrangler SR-A	Wrangler Silent Armor				
SIZE						
LT235/75R15	C-15	C-17				
LT225/75R16	E-14	E-16				
LT245/75R16	E-14	E-16				
LT265/75R16	E-15	E-18				
LT215/85R16	E-14	E-16				
LT235/85R16	E-14	E-17				
8.75R16.5LT	E-14					
9.50R16.5LT	E-15					
LT245/70R17	E-14	C-16				
LT265/70R17	E-14	E-17				
LT225/75R17	E-17	E-17				
LT245/75R17	E-14	E-17				
LT265/75R17	E-15	E-17				
LT235/80R17	E-15	E-17				
LT275/65R18	E-15	E-16				
LT275/70R18	E-14	E-16				





- UNI-T technology for outstanding wet performance and a smooth, quiet ride.
- · Advanced high-resilience tread compound provides slow wear and chip/tear resistance.
- Deep shoulder slots provide excellent traction in rain, snow and dry conditions.
- · Circumferential grooves provide effective water evacuation.

Replaces: BF Goodrich: T/A All Season Goodyear: Wrangler SR-A



The Ultimate Network of Intelligent Tire Technology is a combination of advanced tire technologies that deliver outstanding comfort and control, precise handling, long wear, increased fuel efficiency, reduced noise, and a smooth, quiet ride.

	TECHNICAL DATA															
sw		Load	Service	Article	Wt.	Manauring	Overell	Overell	Static	Min. Dual	Revs Per	Tread	Max.Ti (Sin		Max.Ti	
Style	Tire Size	Range	Description	Number	(lbs.)	Measuring Rim	Overall Diam.	Width	Loaded Radius	Spac.	Mile	Depth (32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI
Tra	nsforce HT	•														
BL	LT235/75R15	С	104/101R	189-837	32	(6.5) 6.0-7.0	28.9	9.3	13.4	10.8	723	15	900@350	1985@50	825@350	1820@50
BL	LT215/85R16	Е	115/112R	189-701	35	(6.0) 5.5-7.0	30.4	8.5	14.1	9.9	686	14	1215@550	2680@80	1120@550	2470@80
BL	LT235/85R16	Е	120/116R	189-718	40	(6.5) 6.0-7.5	31.7	9.3	14.7	10.8	657	14	1380@550	3042@80	1260@550	2778@80
BL	LT225/75R16	Е	115/112R	189-752	35	(6.0) 6.0-7.0	29.3	8.8	13.6	10.2	712	14	1215@550	2680@80	1120@550	2470@80
BL	LT245/75R16	Е	120/116R	189-769	38	(6.5) 6.5-8.0	30.5	9.8	14.1	11.3	684	14	1380@550	3042@80	1260@550	2778@80
0WL	LT265/75R16	E	123/120R	207-602	44	(7.5) 7.0-8.0	31.7	10.5	14.7	12.2	659	15	1550@550	3415@80	1400@550	3085@80
BL	LT265/75R16	Е	123/120R	189-786	44	(7.5) 7.0-8.0	31.7	10.5	14.7	12.2	659	15	1550@550	3415@80	1400@550	3085@80
BL	9.50R16.5LT	Е	121/117R	189-820	40	(6.75) 6.8-8.2	30.6	9.5	14.2	10.7	682	15	1415@550	3195@80	1285@550	2835@80
BL	8.75R16.5LT	Е	115/111R	189-803	35	(6.75) 6.0-6.8	29.5	8.8	13.8	9.9	708	15	1215@550	2680@80	1090@550	2405@80
BL	LT235/80R17	Е	120/117R	191-282	41	(6.5) 6.0-7.5	31.8	9.3	14.8	10.8	656	14	1400@550	3085@80	1285@550	2835@80
BL	LT225/75R17	Е	116/113R	224-133	37	(6.0) 6.0-7.5	30.3	8.8	14.2	10.2	687	14	1250@550	2755@80	1150@550	2535@80
BL	LT245/75R17	Е	121R	225-425	42	(7.0) 6.5-7.5	31.5	9.8	14.7	11.3	661	14				
BL	LT245/75R17	Е	121/118R	233-007	42	(7.0) 6.5-7.5	31.5	9.8	14.7	11.3	661	13				
0WL	LT245/75R17	E	121/118R	207-483	42	(7.0) 6.5-7.5	31.5	9.8	14.7	11.3	661	14	1450@550	395@80	1320@550	2910@80
BL	LT245/70R17	Е	119/116R	232-990	41	(7.0) 6.5-8.0	30.6	9.8	14.3	11.3	681	14				
BL	LT245/70R17	Е	119/116R	191-316	41	(7.0) 6.5-8.0	30.6	9.8	14.3	11.3	681	14	1360@550	3000@80	1250@550	2755@80
0WL	LT265/70R17	Е	121/118R	200-156	46	(8.0) 7.0-8.5	31.7	10.7	14.7	12.4	657	14	1450@550	3195@80	1320@550	2910@80
0WL	LT275/70R18	E	125/122R	207-500	50	(8.0) 7.0-8.5	33.2	11	15.5	12.8	627	16	1650@550	3640@80	1500@550	3305@80
0WL	LT275/65R18	Е	123/120S	207-619	50	(8.0) 7.5-9.0	32.1	11	15	12.8	651	17	1550@550	3415@80	1400@550	3085@80

- All dimensions taken with tire on measuring rim (in parenthesis above).
- · Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 72 through 76.

Firestone tires and tubes are subject to an ongoing development program. Bridgestone Americas Tire Operations, LLC retains the right to amend specifications at any time without notice or obligations. Please refer to rim manufacturer's load and inflation limits. Never exceed rim manufacturer's limits without the consent of the component manufacturer.





Transforce AT

- UNI-T technology for outstanding wet performance and a smooth quiet ride.
- Advanced high-resilience tread compound for slow wear and high chip/tear resistance.
- Deep shoulder slots for excellent traction in rain, snow and dry conditions.
- Modern all-terrain tread design for outstanding on- and off-road traction.

Replaces: BF Goodrich: T/A Traction

Goodyear: Wrangler Silent Armor



The Ultimate Network of Intelligent Tire Technology is a combination of advanced tire technologies that deliver outstanding comfort and control, precise handling, long wear, increased fuel efficiency, reduced noise, and a smooth, quiet ride.

	TECHNICAL DATA																
sw		Load	Service	Article	Wt.	Measuring	Overall	Overall	Static Loaded	Min. Dual	Revs Per	Tread Depth	Max.Ti (Sin		Max.Tire Load (Dual)		
Style	Tire Size	Range	Description	Number	(lbs.)	Rim	Diam.	Width	Radius	Spac.	Mile	(32")	Kg/kPa	Lbs/PSI	Kg/kPa	Lbs/PSI	
Transforce AT																	
BL	LT235/75R15	С	104/101R	189-650	32	(6.5) 6.0-7.0	29.1	9.3	13.4	10.8	717	17	900@350	1985@50	825@350	1820@50	
BL	LT215/85R16	Е	115/112R	189-565	36	(6.0) 5.5-7.0	30.6	8.5	14.1	9.9	681	17	1215@550	2680@80	1120@550	2470@80	
BL	LT235/85R16	Е	120/116R	189-633	42	(6.5) 6.0-7.5	32	9.3	14.7	10.8	652	16	1380@550	3042@80	1260@550	2778@80	
BL	LT225/75R16	E	115/112R	189-667	36	(6.0) 6.0-7.0	29.5	8.8	13.6	10.2	706	16	1215@550	2680@80	1120@550	2470@80	
BL	LT245/75R16	Е	120/116R	189-582	41	(7.0) 6.5-8.0	30.7	9.8	14.1	11.3	679	16	1380@550	3042@80	1260@550	2778@80	
BL	LT265/75R16	Е	123/120R	189-599	45	(7.5) 7.0-8.0	31.9	10.5	14.7	12.2	654	18	1550@550	3415@80	1400@550	3085@80	
0WL	LT265/75R16	Е	123/120R	196-858	46	(7.5) 7.0-8.0	31.9	10.5	14.7	12.2	654	18	1550@550	3415@80	1400@550	3085@80	
BL	LT235/80R17	Е	120/117R	191-265	43	(6.5) 6.0-7.5	31.8	9.3	14.8	10.8	656	17	1400@550	3085@80	1285@550	2835@80	
BL	LT225/75R17	Е	116/113R	224-150	38	(6.0) 6.0-7.5	30.6	8.8	14.2	10.2	681	17	1250@550	2755@80	1150@550	2535@80	
0WL	LT245/75R17	Е	121/118R	205-222	43	(7.0) 6.5-7.5	31.5	9.8	14.7	11.3	661	17	1550@550	3415@80	1400@550	3085@80	
BL	LT245/70R17	Е	119/116R	200-173	42	(7.0) 6.5-8.0	30.8	9.8	14.3	11.3	717	17	1450@550	3195@80	1320@550	2910@80	
BL	LT245/70R17	С	108/104Q	192-234	40	(7.5) 6.5-8.0	30.6	9.8	14.3	11.3	681	16	1000@350	2205@50	900@350	1950@50	
0WL	LT265/70R17	Е	121/118R	200-190	48	(8.0) 7.0-8.5	31.9	10.7	14.7	12.4	659	18	1450@550	3195@80	1320@550	2910@80	
0WL	LT275/70R18	Е	125/122R	205-205	52	(8.0) 7.0-8.5	33.2	11	15.5	12.8	627	16	1650@550	3640@80	1500@550	3305@80	
0WL	LT275/65R18	Е	123/120S	200-207	51	(8.0) 7.5-9.0	32.1	11	15	12.8	651	13	1550@550	3415@80	1400@550	3085@80	

- All dimensions taken with tire on measuring rim (in parenthesis above).
- · Loaded dimensions and RPM measured at maximum dual load.
- For load and inflation tables see pages 72 through 76.

Firestone tires and tubes are subject to an ongoing development program. Bridgestone Americas Tire Operations, LLC retains the right to amend specifications at any time without notice or obligations. Please refer to rim manufacturer's load and inflation limits. Never exceed rim manufacturer's limits without the consent of the component manufacturer.

${\bf Commercial\ Light\ Truck-Discontinued\ Products}$

	TIRE SPECIFICATIONS											
Pattern	Size	Load Range	Measuring Rims	Overall Diameter	Overall Width	Static Loaded Radius	Revs Per Mile	Min. Duel Spacing	Tread Depth			
Steeltex R4S	7.00R15LT	D	5.50	29.6	8.0	13.7	704	9.0	13			
Steeltex R4S	Steeltex R4S 8.75R16.5LT		6.75	29.5	8.8	13.8	706	9.9	14			
Steeltex R4S	Steeltex R4S 9.50R16.5LT		6.75	30.6	9.5	14.2	681	10.7	14			
Steeltex R4S	LT215/85R16	D/E	6.00	30.4	8.5	13.5	685	9.9	13			
Steeltex R4S	LT235/85R16	D	6.50	31.7	9.3	14.0	657	10.8	14			
Steeltex R4S	LT225/75R16	C/D/E	6.00	29.3	8.8	13.1	711	10.2	13			
Steeltex R4S	LT245/75R16	C/E	7.00	30.5	9.8	13.6	683	11.3	14			
Steeltex R4S	LT265/75R16 II	D	7.50	31.7	10.5	14.0	657	12.2	14			
Steeltex R4S	LT215/75R15	С	6.00	27.7	8.5	12.4	752	9.9	13			
Steeltex R4S	LT235/75R15	С	6.50	28.9	9.3	12.8	721	10.8	12			
Steeltex R4S	LT225/75R16 II	Е	6.00	29.3	8.8	13.1	711	10.2	13			
Steeltex R4S	LT245/75R16 II	Е	7.00	30.5	9.8	13.6	683	11.3	14			
Steeltex R4S	7.50R16LT	D	6.00	31.8	8.7	14.7	655	10.0	13			
Steeltex R4S	8.00R16.5LT	D	6.00	28.3	8.0	13.3	736	9.0	13			
Steeltex A/T	7.50R16LT	D	6.00	31.8	8.7	14.7	655	10.0	17			
Steeltex A/T	LT245/75R16	C/E	7.00	30.5	9.8	13.6	683	11.3	14/16			
Steeltex A/T	LT265/75R16	D/E	7.50	31.7	10.5	14.0	657	12.2	18			
Steeltex A/T	LT235/85R16	D	6.50	31.7	9.3	14.0	657	10.8	17			
Steeltex A/T	8.00R16.5LT	D	6.00	28.3	8.0	13.3	736	9.0	17			
Steeltex A/T	8.75R16.5LT	D/E	6.75	29.5	8.8	13.8	706	9.9	17			
Steeltex A/T	9.50R16.5LT	D/E	6.75	30.6	9.5	14.2	681	10.7	18			
Steeltex A/T	LT235/75R15	С	6.50	28.9	9.3	12.8	721	10.8	17			
Steeltex A/T	LT225/75R16	D	6.00	29.3	8.8	13.1	711	10.2	17			
Steeltex A/T	LT215/85R16	D	6.00	30.4	8.5	13.5	685	9.9	17			
Steeltex 23° SPS	LT235/75R15	С	6.50	28.9	9.3	12.8	721	10.8	17			
Steeltex 23° SPS	LT225/75R16	D	6.00	29.3	8.8	13.1	711	10.2	16			
Steeltex 23° SPS	LT245/75R16	E	7.00	30.5	9.8	13.6	683	11.3	17			
Steeltex 23° SPS	LT215/85R16	D	6.00	30.4	8.5	13.5	685	9.9	17			
Steeltex 23° SPS	LT235/85R16	E	6.50	31.7	9.3	14.0	657	10.8	17			
Steeltex 23° SPS	9.50R16.5LT	D	6.75	30.6	9.5	14.2	681	10.7	17			
Transforce HT	LT215/85R16	D	6.0	30.4	8.5	14.1	686	9.9	14			
Transforce HT	LT225/75R16	D	6.0	29.3	8.8	13.6	712	10.2	14			
Transforce HT	LT235/75R17	E	6.50	31.8	9.3	14.8	656	10.8	15			
Transforce AT	LT225/75R16	D	6.0	29.5	8.8	13.8	706	10.2	16			
Transforce AT	LT275/65R18	Е	8.0	32.1	10.9	14.9	651	12.8	17			

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General Technical Information

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Adjustment Treadwear Chart

										0	RIG	INA	L TI	REA	D D	EPT	Н										
REMAINING TREAD DEPTH	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	REMAINING TREAD DEPTH
						Pe	erce	ntag	je of	f Usa	ble	Trea	ad V	Vear	Cha	rge	s to	the	Cus	tom	er						
2/32	100%	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	2/32
3/32	86%	88	89	90	91	92	92	93	93	94	94	94	95	95	95	95	96	96	96	96	96	96	97	97	97	97	3/32
4/32	71%	75	78	80	82	83	85	86	87	88	88	89	89	90	90	91	91	92	92	92	93	93	93	93	94	94	4/32
5/32	57%	63	67	70	73	75	77	79	80	81	82	83	84	85	86	86	87	88	88	88	89	89	90	90	90	91	5/32
6/32	43%	50	58	60	64	67	69	71	73	75	76	78	79	80	81	82	83	83	84	85	85	86	86	87	87	88	6/32
7/32	29%	38	44	50	55	58	62	64	67	69	71	72	73	75	76	77	78	79	80	81	81	82	83	83	84	84	7/32
8/32	14%	25	33	40	45	50	54	57	60	63	65	67	68	70	71	73	74	75	76	77	78	79	79	80	81	81	8/32
9/32	0%	13	22	30	36	42	46	50	53	56	59	61	63	65	67	68	70	71	72	73	74	75	76	77	77	78	9/32
10/32		0	11	20	27	33	38	43	47	50	53	56	58	60	62	64	65	67	68	69	70	71	72	73	74	75	10/32
11/32			0	10	18	25	31	36	40	44	47	50	53	55	57	59	61	63	64	65	67	68	69	70	71	72	11/32
12/32				0	9	17	23	25	33	38	41	44	47	50	52	55	57	58	60	62	63	64	66	67	68	69	12/32
13/32					0	8	15	21	29	31	35	39	42	45	48	50	52	54	56	58	59	61	62	63	65	66	13/32
14/32	0 8 14 20								25	29	33	37	40	43	45	48	50	52	54	56	57	59	60	61	63	14/32	
15/32	0 7 13								19	24	28	32	35	38	41	43	46	48	50	52	54	55	57	58	59	15/32	
16/32								0	7	13	17	22	26	30	33	36	39	42	44	46	48	50	52	53	55	56	16/32
17/32									0	6	12	18	21	25	29	32	35	38	40	42	44	46	48	50	52	53	17/32
18/32					iuage emai					0	6	11	16	20	24	27	30	33	36	38	41	43	45	47	48	50	18/32
19/32				3X	trea dep	nd 👅	⊰ (((<u> </u>			0	6	11	15	19	23	26	29	32	35	37	39	41	43	45	47	19/32
20/32				1914	in the groo	ese	5;;;	%				0	5	10	14	18	22	25	28	31	33	36	38	40	42	44	20/32
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Truck Tire Limited Warranty

Eligibility

You are covered under the terms of this Limited Warranty if all of the following apply:

- You are the original owner, or original owner's authorized agent, of any new Firestone brand truck tire bearing a Department of Transportation (DOT) tire identification number indicating manufacture after January 1, 2011 (DOT serial 0111 or later). For tires covered prior to this time, please refer to the limited warranty that would have been in effect at the time of original sale.
- The tire was purchased after January 1, 2012.
- The tire size, load range, and speed rating are equivalent to or greater than, that specified or recommended for use by the vehicle manufacturer or Bridgestone.
- The new tire was approved for sale in the United States. listed in a U.S. price or data book, and purchased from an authorized Firestone brand truck tire retailer.

What Is Warranted & For How Long

Upon examination by Bridgestone, before wearing down to 2/32 inch (1.6 mm) remaining original tread depth (i.e. worn down to the top of the built-in indicators in the original tread grooves) and within six years from the date of tire manufacture, any eligible tire that becomes unusable for any reason (see exclusions in the section entitled "What This Limited Warranty Does Not Cover") within the manufacturer's control will either be repaired or replaced with an equivalent new Firestone brand truck tire on the basis set forth in this Limited Warranty.

What This Limited Warranty Does Not Cover

This Limited Warranty does not cover the following:

- 1. Tire damage due to:
 - A. **Road hazards**, including, without limitation: Puncture, cut, impact break, stone drill, bruise, bulge, snag, etc.
 - B. **Improper use or operation**, including, without limitation: Improper inflation pressure, overloading, tire/wheel spinning, curbing, use of an improper rim/wheel, tire chain damage, misuse, misapplication, negligence, tire alteration, or for racing or competition purposes.

- C. Insufficient or improper maintenance, including, without limitation: Wheel misalignment, worn suspension components, improper tire mounting or demounting, tire/wheel assembly imbalance, improper brake adjustment, or other vehicle conditions, defects, or characteristics.
- D. Contamination or degradation by petroleum products or other chemicals, fire or other externally generated heat, or water or other material trapped inside the tire during mounting or inflation.
- 2. Irregular wear, rapid wear, or wear-out; no mileage warranty is expressed or implied.
- 3. Weather/ozone cracking after four years from date of tire manufacture.
- 4. Tires subjected to severe under-inflation or run-flat conditions.
- 5. Tires that have been improperly repaired.
- 6. Tires rendered unretreadable due to excessive tread wear or improper buffing.
- 7. Tires improperly retreaded, including, without limitation: Improper or inadequate inspection, preparation, equipment, material, repair, etc.
- 8. Ride disturbance or vibration after tread wear use beyond 10% of original usable tread depth.
- 9. Tires with internally applied additives for balance, sealing, cooling, or any other alleged tire performance enhancement will not void the Limited Warranty unless an inspection of the tire reveals damage related to the use of the additive.
- 10. Tires inflated with anything other than air or nitrogen.
- 11. Tires purchased or used outside of the United States.
- 12. The cost of applicable federal, state, and local taxes.
- 13. Failure to follow any of the safety and maintenance recommendations or warnings contained in this manual.

This Limited Warranty is in addition to and/or may be limited by any other applicable written warranty you may have received concerning special tires or situations.

No-Charge Replacement – New Tire

Firestone brand truck tires adjusted under this Limited Warranty will be replaced free of charge (Federal Excise Tax included) up to the first 10% of original usable tread depth or within 12 months from date of purchase (without proof of purchase date, then within 12 months from the date of tire manufacture), whichever occurs first. The cost of mounting and balancing and other service charges, disposal fees, or applicable taxes are payable by you.

Pro-Rated Replacement – Worn Original Tread Tire

Firestone brand truck tires adjusted under this Limited Warranty that are worn beyond the first 10% of original usable tread depth, or 12 months from the date of purchase (without proof of purchase date, then 12 months from the date of tire manufacture) has passed, the tire will, at Bridgestone's option, be repaired or replaced with an equivalent new Firestone brand truck tire on a pro rata basis. To determine the replacement price, the percent of used tread wear is multiplied by the current selling price for the replacement tire(s). The cost of mounting, balancing, full Federal Excise Tax, and other service charges, disposal fees, or applicable taxes are payable by you.

Replacement Warranty

If you receive a replacement tire under this Limited Warranty, it will be covered by the manufacturer's warranty, if any, given on that tire at that time.

Where to Go

Tire adjustments under this Limited Warranty will only be made at an authorized Firestone brand truck tire retailer in the United States. Consult a phone directory (often listed in the Yellow Pages under "Tire Dealers"), the Internet at www.trucktires.com, or call 1-800-815-9793 for the location nearest you.

Consumer Rights

This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state

Conditions and Exclusions

To the extent permitted by law, Bridgestone Americas Tire Operations, LLC disclaims all other warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose and any liability for incidental and consequential damages, loss of time, loss of vehicle use, or inconvenience. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Limited Warranty applies only to consumers actually purchasing and using the tire in the United States.

Obligations under this policy may not be enlarged or altered by anyone.

In accordance with Federal Law, this Limited Warranty has been designated as a "Limited Warranty." Nothing in this Limited Warranty is intended to be a representation that tire failures cannot occur. This Limited Warranty is given in the United States by Bridgestone Americas Tire Operations, LLC. 535 Marriott Dr., Nashville, TN 37214.

Owner's Obligations

It is your obligation to maintain proper tire inflation pressures as specified by the vehicle manufacturer and to operate the vehicle within tire/vehicle load capacity and speed limitations. It is also your obligation to maintain proper wheel alignment and tire/wheel assembly balance.

To request an adjustment, you must present the tire to an authorized Firestone brand truck tire retailer. Your vehicle on which the tire was equipped must also be available for inspection. Complete and sign the customer section of the Bridgestone Americas Tire Operations, LLC Limited Warranty Form or an electronic version of the Firestone Limited Warranty Form and pay appropriate replacement price. taxes, disposal fees, and service charges, if any. Tires accepted for warranty compensation become the property of Bridgestone Americas Tire Operations, LLC.

Arbitration

You and Bridgestone Americas Tire Operations, LLC agree that all claims, disputes, and controversies between you and it, including any of its agents, employees, successors, or assigns, arising out of or in connection with this Limited Warranty, or any other warranties, express or implied, including a failure of warranty and the validity of this arbitration clause, but excluding claims for personal injury or property damage, shall be resolved by binding arbitration between you and it, according to the formal dispute resolution procedures of the National Arbitration Forum, under the Code of Procedure then in effect. This arbitration will be conducted as a document hearing. If you request any procedures beyond a document hearing, you will be responsible for all fees. including filing and administrative fees, above and beyond the fees required for document hearings. The arbitration between you and Bridgestone Americas Tire Operations, LLC shall not include any other customers, be combined or consolidated in any fashion with arbitrations involving other customers, or proceed in any form of class action in which the claims of numerous customers are considered together. Any award of the arbitrator(s) may be entered as a judgment in any court of competent jurisdiction. The arbitrators will have no authority to award punitive or other damages not measured by the prevailing party's actual damages, except as may be required by statute. Information may be obtained and claims may be filed at any office of the National Arbitration Forum or at P.O. Box 50191, Minneapolis, MN 55405.

IMPORTANT SAFETY INFORMATION

Any tire, no matter how well constructed, may fail in use as a result of punctures, impact damage, improper inflation pressure, overloading, or other conditions resulting from use or misuse. Tire failure may create a risk of property damage, serious personal injury or death.

SAFETY WARNING

Serious personal injury or death may result from a tire failure. Many tire failures are preceded by vibration, bumps, bulges or irregular wear. If a vibration occurs while driving your vehicle or you notice a bump, bulge or irregular wear, have your tires and vehicle evaluated by a qualified tire service professional.

To reduce the risk of tire failure, Bridgestone Americas Tire Operations, LLC strongly recommends you read and follow all safety information contained in this manual, tire industry publications such as those published by the Rubber Manufacturer's Association (RMA), and tire mounting procedures published by the **Occupational Safety and Health Administration (OSHA)** of the U. S. Department of Labor. In addition, we recommend periodic inspection and maintenance, if necessary, by a qualified tire service professional.

Tire Inflation Pressure

Tires need proper inflation pressure to operate effectively and perform as intended. Tires carry the vehicle, passenger, and cargo loads and transmit the braking, acceleration, and turning forces. The vehicle manufacturer recommends the inflation pressures for the tires mounted on your vehicle.

SAFETY WARNING

Driving on tires with improper inflation pressure is dangerous.

- Under-inflation causes excessive tire heat build-up and internal structural damage.
- Over-inflation makes it more likely for tires to be cut, punctured, or broken by sudden impact.

These situations can cause a tire failure, even at a later date. which could lead to serious personal injury or death. Consult the vehicle tire information placard and/or owner's manual for the recommended inflation pressures.

In addition to tire damage, improper inflation pressure may also:

- Adversely affect vehicle ride and handling.
- · Reduce tire tread wear.
- Affect fuel economy.

Therefore, follow these important recommendations for tire and vehicle safety, mileage, and economy:

- Always keep the vehicle manufacturer's recommended inflation pressure in all your tires, including inside duals.
- Check their pressure at preventative maintenance intervals and during pre-trip vehicle inspections.

Your vehicle's tire information placard and/or owner's manual will tell you the recommended cold inflation pressure for all your tires. For tractor/trailers, a placard is applied to each. For questions about locating or understanding the tire information placard(s), consult your vehicle owner's manual or ask a qualified tire service professional.

Maximum Pressure Indicated on the Tire Sidewall:

This is the maximum permissible inflation pressure for the tire only. The vehicle manufacturer's recommended tire pressures may be lower than, or the same as, the maximum pressure indicated on the tire sidewall. The vehicle manufacturer's specification of tire pressure is limited to your particular vehicle and takes into account your vehicle's load, ride, and handling characteristics, among other criteria. Since there may be several possible vehicle applications for a given tire size, a vehicle manufacturer may choose a different inflation pressure specification for that same size tire on a different vehicle. Therefore, always refer to the inflation pressure specifications on the vehicle tire information placard and/or in your vehicle owner's manual.

Pressure Loss: Truck tires can lose 2 psi (14 kPa) per month under normal conditions and can lose 2 psi (14 kPa) for every 10°F (5.6°C) temperature drop. A puncture, leaking valve, or other damage could also cause inflation pressure loss. If a truck tire loses more than 4 psi (28 kPa) per month, have it checked by a qualified tire service professional.

Tips for Safe Tire Inflation

SAFETY WARNING

Inflating an unsecured tire is dangerous. If it bursts, it could be hurled into the air with explosive force resulting in serious personal injury or death. Never adjust the inflation pressure of a truck tire unless it is placed in a safety cage or is secured to the vehicle or a tire mounting machine. Never stand or lean over the tire or in front of the valve when inflating.

SAFETY WARNING

Never re-inflate a truck tire that has been run at very low inflation pressure (i.e. 80% or less of normal operating pressure) without a complete inspection of the entire tire. Immediately have the tire demounted and inspected by a qualified tire service professional.

- The U.S. Department of Transportation requires a pre-trip vehicle inspection. Pre-trip vehicle inspections and preventative maintenance should include cold-tire inflation pressure checks. Don't forget to check the inflation pressure of inside duals.
- The only correct method for checking inflation pressure is to use an accurate tire inflation pressure gauge. Kicking or thumping a tire will only tell you when a tire is totally flat.
- Check inflation pressure when the tires are "cold." Tires are considered "cold" when the vehicle has been parked for three hours or more, or if the vehicle has been driven less than a mile at moderate speed.
- Never release pressure from a hot tire in order to reach the recommended cold tire inflation pressure. Normal driving causes tires to run hotter and inflation pressure to

increase. If you reduce inflation pressure when your tires are hot, you may dangerously under inflate your tires.

- If it is necessary to adjust inflation pressure when your tires are "hot," set their inflation pressure to 10 psi (69 kPa) above the recommended cold inflation pressure. Recheck the inflation pressure when the tires are cold.
- If your tires lose more than 4 psi (28 kPa) per month, the tire, tube (if applicable), valve, or rim/wheel may be damaged. Consult a qualified tire service professional for an inspection.
- A difference of 5 psi (35 kPa) or more between duals is not recommended.
- Use valve caps to keep the valves clear of debris and to help guard against inflation pressure loss.

Tips for Safe Loading

SAFETY WARNING

Driving your vehicle in an overloaded condition is dangerous. Overloading causes excessive tire heat build-up and internal structural damage. This can cause a tire failure, even at a later date, which could lead to serious personal injury or death. Consult the vehicle tire information placard, certification label, and owner's manual for the recommended vehicle load limits and loading recommendations.

- Always keep the vehicle manufacturer's recommended inflation pressure in all your tires, including inside duals. Check their pressure at preventative maintenance intervals and during pre-trip vehicle inspections.
- Never exceed the maximum load rating stamped on the sidewall of your tire.
- Never exceed the gross vehicle weight rating (GVWR) or gross axle weight ratings (GAWR) of your vehicle.
- Never exceed the maximum load or inflation pressure capacity of the rim/wheel.
- Consult your vehicle owner's manual for load recommendations and special instructions (such as for carrying unusually heavy loads).

Tire Damage & Inspection

Evaluation and maintenance of your tires is important to their performance and the service they provide to you. Over time and/or through use, the condition of a tire can change from exposure to everyday road conditions, the environment, damaging events such as punctures, and other external factors.

SAFETY WARNING

Driving on damaged tires is dangerous. A damaged tire can suddenly fail causing serious personal injury or death. Have your tires regularly inspected by a qualified tire service professional.

You should visually inspect your tires during pre-trip vehicle inspections and inflation pressure checks. In addition, have your tires periodically evaluated by a qualified tire service professional when your vehicle is serviced such as routine maintenance intervals, oil changes, and tire rotations. In particular, note the following tips for spotting tire damage:

 After striking anything unusual in the roadway, have a qualified tire service professional demount the tire and inspect it for damage. A tire may not have visible signs of damage on the tire surface. Yet, the tire may suddenly fail without warning, a day, a week, or even months later.

Tire Repairs

- Inspect your tires for cuts, cracks, splits or bruises in the tread and sidewall areas. Bumps or bulges may indicate a separation within the tire body. Have your tire inspected by a qualified tire service professional. It may be necessary to have it removed from the rim/wheel for a complete inspection. Do not delay performing any necessary repair(s).
- Inspect your tires for adequate tread depth. When the tire is worn to the built-in indicators at 2/32 inch (1.6 mm) or less tread groove depth, or the tire cord or fabric is exposed, the tire is dangerously worn and must be replaced immediately.
- · Federal regulations require steer axle tires to have 4/32 inch (3.2 mm) or greater tread depth on vehicles over 10,000 lbs (4536 kg) GVWR.
- Inspect your tires for uneven wear. Wear on one side of the tread or flat spots in the tread may indicate a problem with the tire or vehicle. Consult a qualified tire service professional.
- Inspect your rims/wheels also. If you have a bent, chipped, or cracked rim/wheel, it must be replaced.

Tire Manufacture Date

The tire manufacture date is determined by examining the DOT tire identification number, also known as the DOT serial number or code, which can be found on at least one sidewall near the rim/wheel. It may be necessary to look on both sides of the tire to find the entire serial code.

Tires Produced Since 2000: The last four (4) digits of the serial code identify the week and year of production. For example, a tire with a serial code ending in "2406" would have been produced in the 24th week of 2006.

Tires Produced Prior to 2000: The last three (3) digits of the serial code identify the week and year of production. For example, a tire with a code ending in "329" would likely have been produced in the 32nd week of 1999, but possibly produced in 1989. If in doubt, consult a qualified tire service professional.

SAFETY WARNING

Driving on an improperly repaired tire is dangerous. An improper repair can be unreliable or permit further damage to the tire. The tire may suddenly fail, causing serious personal injury or death. A complete inspection and repair of your tire in accordance with Rubber Manufacturers Association (RMA) procedures should be conducted by a qualified tire service professional.

The comprehensive procedures and recommendations for truck tire repair are beyond the scope of this manual; however, note the following:

- The tire must be demounted from the rim/wheel for a complete inspection, inside and out. Some damage to the tire may only be evident on the interior of the tire. Any tire repair done without removing the tire from the rim/wheel is improper.
- A patch must be applied to the interior of the tire and the puncture hole filled with suitable plug/ **stem filler.** This helps ensure that the interior of the tire is adequately sealed to prevent inflation pressure loss and prevents contamination of the steel belts and other plies from the elements (such as water) in the outside world. Using only a plug/stem, or using only a patch, is not a safe or proper repair.
- The truck/bus tire puncture repair injury limit to the tread area is 3/8 inch (10 mm). Larger injuries. or damage in areas outside the tread, should be evaluated and repaired, if possible, by qualified tire service professionals at a full-service repair facility using RMA-approved procedures.
- Never substitute a tube for a proper repair or to remedy an improper repair.
- Not all punctured or damaged tires can be properly repaired; consequently, they must be replaced.
- Repair and retread, if possible, tires having a tread depth of 2/32 inch (1.6 mm) or less remaining in any tread groove.
- Tubes, like tires, should only be repaired by a qualified tire service professional.
- Any Improper repair voids the tire **Limited Warranty.** See "Limited Warranty" in this manual.

Removing Tire/Wheel Assembly from Vehicle

SAFETY WARNING

Always follow the manufacturer's recommend procedure for securing and raising your vehicle prior to attempting to remove a tire.

SAFETY WARNING

If the tire has internal damage, it may burst with explosive force, causing serious personal injury or death. Always deflate a tire and wheel assembly completely before loosening any lug nut when removing a tire from a vehicle for service or demounting. On dual wheel assemblies, both tires should be deflated and removed before any work is started.

Tire Mounting & **Other Servicing**

SAFETY WARNING

Removing and replacing tires on wheels can be dangerous. Attempting to mount tires with improper tools or procedures may result in a tire explosion causing serious personal injury or death. This is only a job for a qualified tire service professional. Never perform tire service procedures without proper training, tools, and equipment.

This manual is not intended to provide proper training or service procedures for tire mounting, demounting, balancing, rotation, or repair. Please leave these tasks to qualified tire service professionals.

Only specially trained persons should mount tires. For proper mounting procedures, consult the requirements of the Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor and procedures published by the Rubber Manufacturers Association, 1400 K Street, NW. Washington, DC 20005 (www.rma.org).

SAFETY WARNING

Inflating an unsecured tire is dangerous. If it bursts, it could be hurled into the air with explosive force resulting in serious personal injury or death.

- Always stand well clear of any tire mounting operation. This is especially important when the service operator inflates the tire.
- When inflating a tire after mounting on a rim/wheel, always use a safety cage and an extension hose with pressure gauge and clip-on chuck.
- Never adjust the inflation pressure of a truck tire unless it is placed in a safety cage or is secured to the vehicle or a tire mounting machine.

 Never stand or lean over the tire or in front of the valve when inflating.

SAFETY WARNING

Never pour or spray any flammable substance into or onto a tire or rim/wheel for any purpose whatsoever. The residue left by the substance could result in a fire or explosion which may cause severe injury or death.

SAFETY WARNING

Never put flammable substances such as gasoline or ethyl ether into a tire and light with a match/flame so that the resulting explosion seats the beads of a tubeless tire. This practice is extremely dangerous and may result in a severe explosion or undetected damage to the tire or rim/wheel which may cause a failure resulting in severe injury or death.

- Tires must match the width and diameter **requirements of the wheels.** For example, 22.5 inch diameter tires must only be mounted to 22.5 inch diameter rims/wheels. Radial tires must only be mounted to wheels approved for radial tires.
- Inspect the tire and rim/wheel. Rims/wheels must be free of cracks, dents, chips, and rust. Tires must be free of bead damage, cuts, punctures, foreign material, and moisture.
- For a tubeless truck tire, always install a new valve, or new valve core and cap, each time a new or retreaded tire is installed.
- For a tube-type truck tire, always use a new, proper size tube and flap each time a new or retreaded tire is installed.
- Use only vegetable oil-based lubricants in mounting or demounting.
- Always ensure rim components fit properly before inflating.
 - Never tap component parts with a tool/hammer/mallet while tire is inflated.
 - Never attempt to disassemble multi-piece rims while inflated.
- Never inflate a tire beyond 40 psi (275 kPa) to **seat the beads.** Be absolutely certain beads are fully seated before adjusting inflation pressure to the level recommended for vehicle operation.
- **Use valve caps** to keep the valves clear of debris and to help guard against inflation pressure loss.
- Always stand well away from the work area when tires are being spin-balanced either on or off the vehicle.

Tire Mixing

SAFETY WARNING

Driving your vehicle with an improper mix of tires is dangerous. Your vehicle's handling characteristics can be seriously affected. You could have an accident resulting in serious personal injury or death. Consult your vehicle owner's manual and a qualified tire service professional for proper tire replacement.

Dual Matching

Tires paired in a dual assembly should be matched in tire construction and dimension. Improperly matched tires may result in irregular wear, rapid wear, and premature tire failure. Failure to match tires in a dual assembly may result in sudden tire destruction.

For radial tires, properly paired dimension tolerances are as follows:

- Diameter: within 1/4 inch (6.4 mm) of each other
- Circumference: within 3/4 inch (19 mm) of each other

High Speed Driving

SAFETY WARNING

Driving at high speed is dangerous and can cause a vehicle accident, including serious personal injury or death.

- Regardless of the speed and handling capabilities of your vehicle and its tires, a loss of vehicle control can result from exceeding the maximum speed allowed by law or warranted by traffic, weather, vehicle, or road conditions.
- High-speed driving should be left to trained professionals operating under controlled conditions.
- No tire, regardless of its design or speed rating, has unlimited capacity for speed, and a sudden tire failure can occur if its limits are exceeded. See "Tire Speed Restrictions," the next section in this manual.

Refer to your vehicle owner's manual for any tire pressure recommendations for high speed driving.

Tire Speed Restrictions

Firestone brand truck tires have maximum recommended speeds. When replacing your tires, check your vehicle owner's manual and tire information placard and consult with a Firestone brand truck tire retailer for recommendations and information about tire speed capability.

The speed capabilities of truck tires are based on standardized laboratory tests under specific, controlled conditions. While these tests may relate to performance on the road, real-world driving is rarely identical to any test conditions. Your tire's actual speed capability may be less since it is affected by factors such as inflation pressure, load, tire condition (including damage), wear, vehicle condition (including alignment), driving conditions, and duration at which the speed is sustained.

Tire Spinning

SAFETY WARNING

Spinning a tire to remove a vehicle stuck in mud, ice, snow, or wet grass can be dangerous. A tire spinning at a speedometer reading above 35 mph (55 km/h) can in a matter of seconds reach a speed capable of disintegrating a tire with explosive force. Under some conditions, a tire may be spinning at a speed twice that shown on the speedometer. This could cause serious personal injury or death to a bystander or passenger. Never spin a tire above a speedometer reading of 35 mph (55 km/h).

Tire Storage

Tires should be stored indoors in a cool, dry place where water cannot collect inside them. Tires should be placed away from electric generators/motors and sources of heat such as hot pipes. Storage surfaces should be clean and free of grease, gasoline, diesel fuel, or other substances which can deteriorate the rubber.

SAFETY WARNING

Improper storage can damage your tires in ways that may not be visible and can lead to a failure resulting in serious personal injury or death.

The spare tire in your vehicle is intended to be used as a spare when needed. The spare tire carrier is not intended to be used for long term storage.

Tire Service Customer Satisfaction

Normal tire maintenance and Limited Warranty services are available at locations across the U.S.A. Visit us at www.trucktires.com. or call 1-800-815-9793 to find an authorized Firestone brand truck tire retailer nearest you.

Additional information on the care and service of truck tires is available from the following organizations:

Rubber Manufacturers Association

1400 K Street, N.W. Washington, DC 20005-2403 www.rma.org

Rubber Association of Canada

2000 Argentia Road, Plaza 4, Suite 250 Mississauga, Ontario L5N 1W1 www.rubberassociation.ca

Tire Registration

Registration of your tires is an important safety precaution since it enables the manufacturer to notify you in the event of a recall. When you purchase replacement tires, the retailer will provide a registration card on which the tire identification numbers have been recorded; fill in your name and address on the card and mail it promptly. Some retailers may submit the registration for you. You do not need to register original equipment tires on new vehicles as the vehicle manufacturer handles that for you.

For Assistance or Information:

- 1. First contact the nearest Firestone truck tire Dealer by call 1-800-815-9793 or use our Dealer locator at www.notifyben.com
- 2. If additional assistance is required, call or write the nearest Bridgestone Technical Service Center listed below.

Bridgestone Toll-Free Number

1-800-847-3272

Bridgestone Americas Tire Operations, LLC 535 Marriott Drive, Nashville, TN 37214 (615) 937-1000

Technical Service Centers

WEST REGION

2500 S. Doubleday • Ontario, CA 91761

Central Region

2100 Internationale Pkwy • Woodridge, IL 60517

EAST REGION

201 Bridgestone Pkwy • Lebanon, TN 37090

Commercial Tire Tubes, Valves & Flaps

TIRE SIZE	TUBE	VALVE	FLAP		
8.25R15	8.25R15	TR444	15R7		
9.00R15	9.00R15	TR444	15R8		
10.00R15	10.00R15	TR444	15R8		
8.25R20	8.25R20	TR442	20R7		
9.00R20	9.00R20	TR444	20R8		
10.00R20	11.1/10.00R20	TR444	20R8		
11.00R20	11.00R20	TR444	20R8		

TIRE SIZE	TUBE	VALVE	FLAP
12.00R20	12.00R20	TR444	20R9
13/80R20	13/80R20	VS3-04-06	20R9
14/80R20	14/80R20	VS3-04-06	20R10
10.00R22	10.00R22	TR444	22R8
11.00R22	11.00R22	TR444	22R8
11.00R24	11.00/12.00R24	TR444	24R8
12.00R24	11.00/12.00R24	TR444	24R9

Radial & Bias Tire Construction





Radial tire body ply cords are placed straight across the tire from bead to bead. In addition, radial tires have belt plies, which run circumferentially around the tires, under the tread. They constrict the radial ply cords and stabilize the tread area.

Bias/Diagonal tires have multiple layers of plies with the cords in adjacent plies running in alternate diagonal directions from bead to bead. The tires may also have narrow plies under the tread, called breakers, with cords that lie in approximately the same direction as the body ply cords.

The type of construction can be determined by looking at the size designation molded on the tire's sidewall. Radial truck tire sizes have an "R" in the size designation while bias/diagonal truck tire sizes have a hyphen in the size description. For example, a 10.00R20 tire is a radial, while a 10.00-20 tire is a non-radial.

In addition, ALL radial tires have the word "RADIAL" molded onto the sidewall. All radial truck tires also use an "R" in the size designation, e.g., 285/75R24.5.

Definitions

Truck Tire Size Designation

10.00 R 20 14 (G)
Nominal Section Width in Inches (Conventional)
Radial Construction
Tube Type Rim Diameter in Inches (5° Tapered Bead)
Ply Rating
Load Range
11 R 22.5 14 (G)
Nominal Section Width in Inches (Conventional)
Radial Construction
Tubeless Rim Diameter in Inches (15° Tapered Bead)
Ply Rating
Load Range
Nominal Section Width in Millimeters (Metric) 285/75 R 24.5 14 (G)
Aspect Ratio
see page 51 see page 54 see page 54
Tubeless Rim Diameter in Inches (15° Tapered Bead)
Ply Rating
Load Range
Nominal Section Width in Millimeters (Metric) 315/80 R 22.5 20 (L)
Aspect Ratio
Radial Construction
Tubeless Rim Diameter in Inches (15° Tapered Bead)
Ply Rating
Load Range
Nominal Section Width in Millimeters (Metric) 445/50 R 22.5 20 (L)
Aspect Ratio
Radial Construction
Tubeless Rim Diameter in Inches (15° Tapered Bead)
Ply Rating
Load Range

Truck Tire Dimensions

A. (Nominal) Section Width

Measurement of the cross section of an unladen tire across the casing only – not including ribs or protrusions.

A. Overall Width

Measurement of the cross section of an unladen tire. including ribs and protrusions. Usually the same as section width on radial tires.

B. Section Height

Distance from the bead seat to the tread surface of an unladen tire.

C. Aspect Ratio

D. Tread Width

Distance across the tread face of an unladen tire.

E. Tread Depth

Distance from tread surface to major groove base at designated measuring point.

F. Loaded Width

The maximum section width of a loaded tire under maximum dual load and inflation as stamped on the sidewall of the tire.

G. Overall Diameter

The measurement of the distance of an unladen tire from tread surface to tread surface on opposite sides of the tire.

H. Static Loaded Radius

Distance from the center of the axle to the ground of a loaded tire under maximum dual load and inflation as stamped on the sidewall of the tire.

I. Rim Width

Distance between the rim flanges.

J. Nominal Rim Diameter

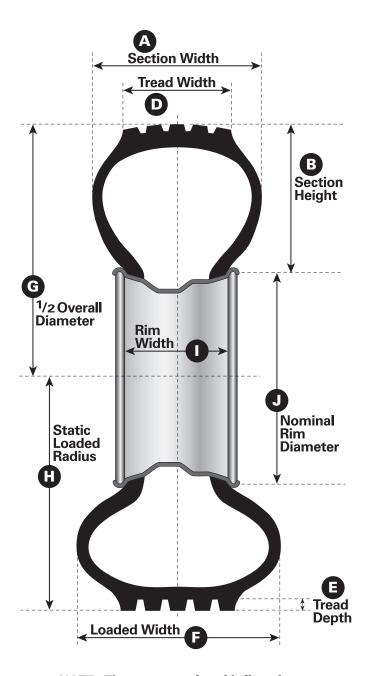
Diameter of the rim from bead seat to bead seat in inches.

Minimum Dual Spacing

The minimum allowable distance between the wheel center lines in a dual arrangement.

Revolutions Per Mile (RPM)

The number of tire revolutions in one mile. measured at 55 mph maximum dual load and inflation (as stamped on the tire's sidewall).



NOTE: Tires mounted and inflated to recommended pressure. All dimensions measured following a 24-hour inflation period.

Ply Rating/Load Range

PLY Rating	LOAD RANGE
2	Α
4	В
6	С
8	D
10	Е
12	F
14	G
16	Н
18	J
20	L

While there is no industry-wide definition of ply rating, truck tires are frequently marked with ply rating and equivalent load range. These markings are used to identify the load and inflation limits of that particular tire, when used in a specific type of service. See adjacent table for conversion of tire markings. Corresponding loads may be found in appropriate load tables.

Speed Symbol

SPEED SYMBOL	SPEED CATEGORY (KM/H)	МРН
F	80	50
G	90	55
J	100	62
K	110	68
L	120	75

The SPEED SYMBOL indicates the speed at which the tire can carry a load corresponding to its Load Index under service conditions specified by the tire manufacturer.

International Load Index Numbers

LOAD INDEX	KGS	LBS	LOAD INDEX	KGS	LBS	LOAD INDEX	KGS	LBS	LOAD INDEX	KGS	LBS	LOAD INDEX	KGS	LBS	LOAD INDEX	KGS	LBS
90	600	1325	104	900	1985	118	1320	2910	132	2000	4410	146	3000	6610	160	4500	9920
91	615	1355	105	925	2040	119	1360	3000	133	2060	4540	147	3075	6780	161	4625	10200
92	630	1390	106	950	2095	120	1400	3085	134	2120	4675	148	3150	6940	162	4750	10500
93	650	1435	107	975	2150	121	1450	3195	135	2180	4805	149	3250	7160	163	4875	10700
94	670	1475	108	1000	2205	122	1500	3305	136	2240	4940	150	3350	7390	164	5000	11000
95	690	1520	109	1030	2270	123	1550	3415	137	2300	5070	151	3450	7610	165	5150	11400
96	710	1565	110	1060	2335	124	1600	3525	138	2360	5205	152	3550	7830	166	5300	11700
97	730	1610	111	1090	2405	125	1650	3640	139	2430	5355	153	3650	8050	167	5450	12000
98	750	1655	112	1120	2470	126	1700	3750	140	2500	5510	154	3750	8270	168	5600	12300
99	775	1710	113	1150	2535	127	1750	3860	141	2575	5675	155	3875	8540	169	5800	12800
100	800	1765	114	1180	2600	128	1800	3970	142	2650	5840	156	4000	8820	170	6000	13200
101	825	1820	115	1215	2680	129	1850	4080	143	2725	6005	157	4125	9090			
102	850	1875	116	1250	2755	130	1900	4190	144	2800	6175	158	4250	9370			
103	875	1930	117	1285	2835	131	1950	4300	145	2900	6395	159	4375	9650			

Selection of Load Index Numbers: Select the load index number with the equivalent load of the tire (round up to midpoint). If the tire maximum load rating is only given in customary units, convert that load to kilograms and select the closest load index equivalent (Kg) load.

Inflation Pressure

For optimum tire performance, proper inflation pressures for the loads being carried must be maintained. The proper inflation pressure can be found in the load and inflation tables of this book.

Air pressure of all tires should be checked and corrected weekly with an accurate inflation pressure gauge. Since air expands when heated, tire pressures will increase due to the normal build-up of heat during operation. For this reason, tire pressures should be checked while cold. Do not bleed air from tires while hot. This will result in an under-inflated condition.

Under-inflated tires build up excessive heat due to overdeflection and may result in tire deterioration. Operating on an improperly inflated tire will cause severe tire damage.

The inflation pressures given are the minimum pressures for the associated load. Do not exceed the maximum loads listed in this book without consulting a Bridgestone Technical Representative. Any tire known or suspected to have been run at 80% or less of normal operating inflation pressure and/or overloading could possibly have permanent structural damage (steel cord fatigue).

Tire Mixing

Tires of different sizes or construction must never be mixed on the same axle.

Tires of different construction can be mixed in the following manner:

- A) TRUCKS WITH TWO AXLES, FOUR WHEELS: Radials can be mixed with bias ply tires providing the radials are mounted in pairs on the rear axle.
- B) TRUCKS WITH TWO AXLES, SIX WHEELS: (e.g. single axle tractors) Radials can be mixed with bias ply tires providing tires of the same construction are mounted on the same axle.
- C) TRUCKS WITH MORE THAN TWO AXLES: (e.g., tandem axle tractors) The front tires may be bias or radial and can be run with bias or radial on the drive axles. Trucks with multiple drive axles

should have tires of the same construction mounted on all drive positions.

D) TRAILERS:

Bias or radial tires may be used, providing tires on the same axle are of the same construction. Tires of different construction must not be used in dual fitments. Tubeless tires can be mixed with tube-type tires, providing they are of equivalent sizes.

E) WIDE BASE & DUALS:

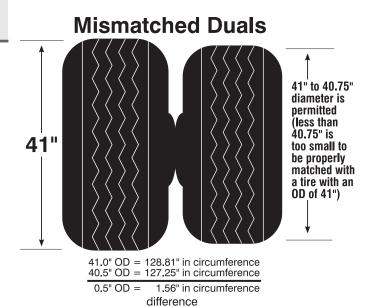
Wide base and duals can be mounted together as long as overall diameter is within 1/4 inch.

Dual Matching

Tires in dual assemblies should be matched with regard to design and dimensional tolerances as noted below.

Improperly matched duals may result in irregular wear, rapid wear, vehicle mechanical problems and premature tire failure. Failure to match tires in a dual assembly may result in sudden tire destruction.

DUAL MATCHING LIMITS								
TIRE CONSTRUCTION DIAMETER CIRCUMFEREN								
Radial	0 to 1/4 inch	0 to 3/4 inch						



Medium Truck Approved Rim Width & Minimum Dual Spacing

TIRE SIZE	APPROVED RIM WIDTH	MIN. DUAL SPACING ~								
TUBE TYPE										
8.25-20/8.25R20	7.0, 6.5 , 6.0	10.6								
9.00-20/9.00R20	7.5, 7.50VM, 7.0 , 6.5	11.6								
10.00-20/10.00R20	7.5, 7.50VM, 7.0 , 6.5	12.5								
11.00-20/11.00R20	8.5, 8.50VM, 8.0 , 7.5	13.2								
11.00R22	8.5 , 8.0 , 7.5	13.2								
11.00R24	8.5, 8.50VM, 8.0 , 7.5	13.2								
12.00R20	9.0, 8.5 , 8.50VM, 8.0	14.1								
12.00R24	9.0, 8.5 , 8.50VM, 8.0	14.1								
	TUBELESS									
10R17.5	7.50HC , 6.75HC	11.4								
8R19.5	5.25, 6.00 , 6.00RW, 6.75, 6.75RW	9.1								
9R22.5	6.00, 6.75 , 7.50	10.3								
10-22.5/10R22.5	6.75, 7.50	11.4								
11-22.5/11R22.5	7.50, 8.25	12.5								
12R22.5	8.25, 9.00	13.5								
225/70R19.5	6.00 , 6.00RW, 6.75, 6.75RW	10.0								
245/70R19.5	6.75, 6.75RW , 7.50 , 7.50RW	11.0								
14-17.5	10.5	NA								
15-19.5	11.75 , 12.25	NA								
15-22.5	11.75 , 12.25	NA								
18-19.5	13.00, 14.00	NA								
18-22.5	13.00, 14.00	NA								
255/70R22.5	7.50 , 8.25	11.3								
275/70R22.5	7.50, 8.25 , 9.00	12.2								
295/75R22.5	8.25, 9.00	13.2								
315/80R22.5†	8.25, 9.00 , 9.75	13.8								
385/65R22.5	11.75 , 12.25	NA								
425/65R22.5	425/65R22.5 11.75, 12.25 , 13.00									
285/75R24.5	8.25	12.5								

Minimum Dual Spacing is listed for the design rim width.

Design Rim Width shown in boldface type.

- New tire section widths and overall widths will change 0.10-inches (2.5 mm) for each 0.25-inch change in rim width. Adjust minimum dual spacing accordingly.
- Alternate rims should be used only when the design rim cannot be used.
- † 8.25-rim may be used if tire load is limited to 8,000 lbs. single and 7,610 lbs. dual @ 120 psi. Note: The minimum dual spacing for 8.25-rim is 13.2". Do not exceed manufacturer's recommended maximum load and inflation.

Tire Rotation

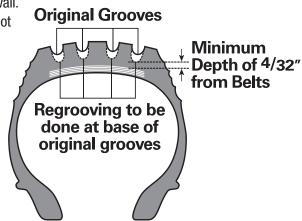
Tire rotation is a practical means of reducing tire costs when irregular or rapid wear are prevalent. Rotation patterns, such as those recommended by vehicle manufacturers, may be followed. There are no restrictions on criss-cross rotation. Tires having directional type tread patterns should be mounted in the recommended direction of rotation for optimum performance.

For many directional type designs it is permissible to change the direction of rotation after the first 3/32"- 5/32" of tread wear. Contact tire manufacturer for pattern-specific recommendation. The casing, after retreading, may be run in either direction, as the casing is not directional.

Regrooving

Regroove only those tires marked "Regroovable" on the sidewall. Tires with a remaining tread depth of less than 2/32" should not be regrooved. It is recommended that tires exhibiting severe irregular wear not be regrooved. Regrooved tires should not be placed on the front axle.

Regrooving should be restricted to the tire's original tread grooves. A minimum rubber gauge of 4/32" must be maintained between the tire's top belt and the re-grooved grooves.

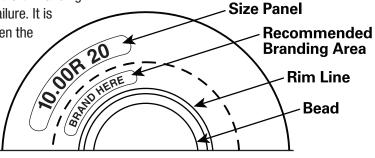


Branding

The location for branding must be chosen carefully due to the thin sidewall gauge. Many sidewalls have branding panels, or designated branding areas as noted in sketch at left. Branding in the wrong location may result in eventual tire failure. It is recommended that the brand be located between the

rim line and size panel.

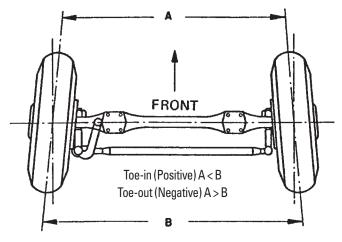
Branding depth should be 1/32". Do not brand deeper than $2/32^{\prime\prime}$.

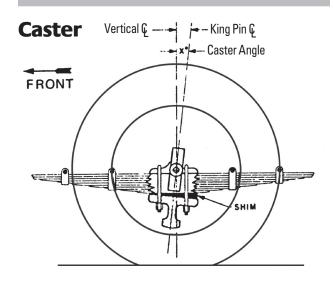


Proper Branding Area on Steel Radial Tire

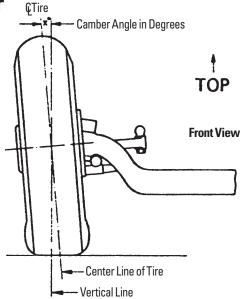
Wheel Alignment

Toe-In





Camber



Proper wheel alignment is essential for optimum tire life and vehicle handling characteristics. **Alignment settings should be checked with the truck loaded.** Alignment adjustments can be made on an unloaded truck; however, modifications in the vehicle manufacturer's alignment recommendations may be required for proper "loaded" settings.

Front Axle Recommendations

- Toe-in: set as close to zero as vehicle manufacturer's recommendations allow in loaded condition. Do not set beyond zero, as a toe-out condition will develop.
- Caster: set to the maximum positive setting which the vehicle manufacturer's recommendations will allow.
- Camber: set as close to zero degrees as the vehicle manufacturer's recommendations allow in loaded condition.

Drive Axle Recommendations

Misalignment of the drive axles may also cause rapid or irregular wear on the front axle as well as the drive axle due to constant steering correction. Drive axle alignment should be corrected before front axle settings are made.

Drive axles should be aligned in the following manner:

- 1. Position drive axles perpendicular to the chassis centerline.
- 2. For tandem drives, the drive axles should be positioned parallel to one another.

If they are not parallel, the condition is referred to as "tandem scrub." Our recommendation is the distance between the axle centers is set so the distance on the right is equal to or greater than the distance on the left by up to 1/8" (.125").

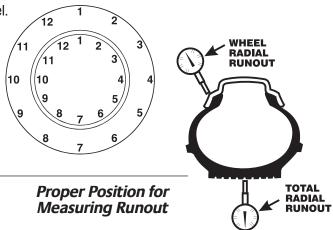
The distance on the axle centers on the right should never be shorter than the distance on the left. The wear pattern that will result from this situation is inside left front/outside right front shoulder wear.

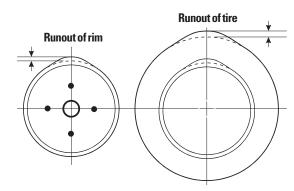
Balance/Runout

Tire and wheel imbalance may result in irregular tire wear. Steering axle and drive axle tires should be balanced dynamically for best results. Vibration may also be the result of mismatch of the high and low spots of the tire and wheel.

To resolve vibration problems, the runout of tire and rim should be measured, then matched in the following manner:

- 1. With the tire mounted on the rim, number both at 12 asymmetrical points.
- 2. Measure runout at both shoulders of the tire (inside & outside) and record the results. (Note: accuracy in these measurements is essential.)
- Demount the tire, measure both sides of the rim for runout, record the results, then average the inside and outside measurements.
- 4. Matching the lowest average point of the rim to the highest average point of the tire, remount the tire, then balance accurately.
- 5. It may be necessary to repeat this procedure since the tire cannot be measured accurately while on an imperfect rim.
 - Note: If a runout dial is not available, rotate the tire 180° relative to the rim and remount. If the vibration persists, rotate the tire another 90°, then another 180°.
- 6. The maximum suggested radial runout for a rotating tire/wheel assembly is 0.095 inches for both front and rear tire positions. If runout exceeds these limits, check for bent rims, cocked rims, improperly adjusted wheel bearings, improper tire bead seating, tire flat spots, improperly tightened rim clamps and rear rim spacers.





Runout of Tire Due to Runout of Rim

Special procedure for improving steering tire run-out on vehicles with hub-piloted wheels

If you suspect high run-out on the steering position and have hub-piloted wheels, use the following procedure to improve the radial run-out.

- 1. Measure the radial run-out of the tire/wheel assemblies on the vehicle's steering position. Mark the highest and lowest points of the radial run-out on the tire with chalk or other marker.
- 2. Remove the tire/wheel assembly and position the hub so that the gap between any two of the hub pilot pads is at 12:00. With the hub in this position place the tire/wheel assembly on the hub so that the high point mark is at the top (12:00). Carefully tighten one nut with a hand wrench until it is snug enough to hold the wheel securely. Reposition the wheel on the hub pilot pads while tightening.

(Don't use an air wrench to tighten the first nut. It will reposition the wheel and not let gravity keep the wheel in contact with the hub pads that are at the top). After the first nut is tightened with the hand wrench, tighten all nuts according to sequence and procedure shown in TMC RP 222, User's Guide to Wheels and Rims.

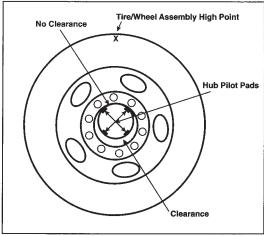


Figure 7

continues >>

If you have followed this procedure correctly, you will find there is clearance between the hub pads and the wheel pilot hole at the bottom and no clearance at the top (See Figure 7.) shown on previous page.

3. Recheck the radial runout to verify that it has been improved. By locating the high point, repositioning the wheel, putting the high point at the top and re-tightening. gravity should have put the wheel in a better position with respect to the hub. Improvements up to .020" are common and can greatly improve the ride.

[Information reprinted with permission from:

RP 214B, Tire/Wheel Balance and Runout, in TMC's Recommended Practices Manual, published by the Technology & Maintenance Council (TMC) of American Trucking Associations, 2200 Mill Road, Alexandria, VA 22314; (703) 838-1763. tmc.truckline.com

Tire Mounting For Low Vibration

Special Low Vibration Mounting For Bridgestone Radial Truck Tires

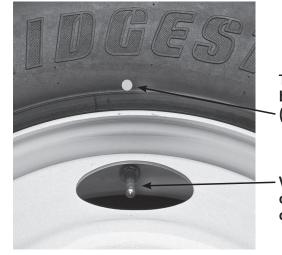
All Bridgestone tires have yellow marks, to aid in initial balance. (White marks are factory inspection marks,

and are not used in mounting or balancing).

Proper use of these marks during new tire mounting and installation can result in a better ride and less vehicle vibration.

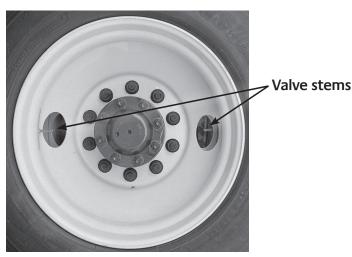
Place the yellow mark next to the valve stem, regardless of wheel type. Torque wheel nuts with the yellow mark at the "12 o'clock" position.

On dual assemblies, regardless of tire marks, install tires on axles with valve stems approximately 180 degrees apart.



Tire light static balance mark (Yellow)

Valve stem, on aluminum rims or steel rims



Mounting Radial Truck Tires to Help Reduce Vibration & Irregular Wear

Consistent, correct truck tire mounting is important for proper bead-to-wheel fit, and can help reduce vehicle vibration and irregular wear for better ride and longer original tread life.

Important steps:

- 1. Clean and paint used wheels.
- 2. Lubricate both tire beads and both wheel seats.
- 3. Check the assembly for even centering.

Always follow all OSHA, RMA and manufacturer's tire mounting safety precautions!

(See Section on Mounting/Demounting Procedures in this data book.)



1. Remove dirt, rust or corrosion that can interfere with proper seal or damage bead.



5. Inflate assembly to set bead and check for leaks around the wheel.



2. Protect bare metal with primer or anti-rust paint to prevent further corrosion. Allow to dry.



6. Measure distance from molded ring on tire to flange locations, 90 degrees apart.



3. Lubricate the wheel bead seat using vegetable oil-based lubricant approved for both tire and wheel.



7. Distances A. B. C. and D should be within 2/32". If they are not, break down, re-lubricate and mount again.



4. Lubricate tire bead. Do not use petroleum or solvent-based products. They cause rubber to deteriorate.

Storage

All tires should be stored in accordance with the following recommendations:

- 1. Avoid storing tires in direct sunlight.
- 2. Avoid storing tires near a heat source or in the path of a direct flow of forced air.
- 3. Keep tires away from electric motors and generators which produce ozone.
- 4. Do not store near petroleum products or chemicals (such as oil, grease, gasoline, solvent, etc.).
- 5. Limit vertical stacking to a maximum of 5 feet in height.
- 6. Store un-mounted tires indoors in a dry location. Steel radial tires may be severely damaged due to the

- presence of moisture inside the tire at mounting. Upon pressurization, this moisture can permeate the casing of the tire and cause severe deterioration of the steel cords.
- 7. Prior to mounting, inspect the inside surfaces of the tire and remove all foreign material and moisture.
- 8. Keep compressed air sources for tire inflation free of moisture.

Failure to follow the above recommendations could result in sudden tire failure, property damage and personal injury.

Tire Inspection

Prior to operating a vehicle, an inspection should be made of each tire, including the spare. Examine tires for cuts, bruises, cracks, bulges and penetrations. If any damage is found, have the tire examined by a Bridgestone dealer. Repair of tire damage must be made as soon as possible in order to avoid further deterioration of the tire structure.

Federal law requires that front axle truck tires on vehicles over 10,000 lbs. gross vehicle weight must have at least 4/32" tread depth. Tread wear indicators are contained in the tread of Bridgestone truck tires and become visible when the tread depth reaches 2/32" in two adjacent major grooves.

Drive and trailer tires should be replaced when the tread depth reaches 2/32" or the wear bars appear since 2/32" is the minimum permissible legal tread depth on all axles except the front.

Tires should also be inspected prior to mounting on a rim. Bridgestone steel radial tube-type truck tires are shipped with the flap in the tire. It is essential that the tire be disassembled and inspected thoroughly prior to mounting to insure the inside surfaces are completely dry and clean.

Water in casings of steel radial tires may cause tire failure. During normal operation, heat build-up inside the tire will turn water into vapor which may permeate the inner-liner and enter the steel casing cord, causing rust, deterioration, possible sudden tire failure, property damage and/or personal injury.

	DOT Legal Limits
Steering Axle	4/32"
Drive Axle	2/32"
Trailer Axle	2/32"

Noise Regulation

All of Bridgestone's truck tires comply with the noise emissions standards of 80 dB for medium and heavy trucks. Bridgestone uses the Society of Automotive Engineering recommended test procedures SAE J366b (35 MPH) and SAE J57a (50 MPH).

Irregular Wear of Radial Truck Tire

There are many factors that may trigger the occurrence of irregular wear. Among those, mechanical malfunctions of vehicles such as misalignment and uniformity of the tire and wheel assembly are the major factors. If, after correction of these problems is made, objectionable irregular wear is still observed, Bridgestone recommends the following steps be taken:

Steer-axle tires: Check thrust angle & apply higher inflation pressure within permissible range (100-115 psi).

Drive-axle tires: An increase of 10-15 psi makes the tire less susceptible to irregular wear. Forward movement of the fifth wheel within permissible range greatly reduces irregular wear.

Low Profile Tires

Low profile 75-series tubeless truck radial tires may offer several advantages over standard 90-series tubeless tires, such as:

1. Increased tread life

3. Lower vehicle height

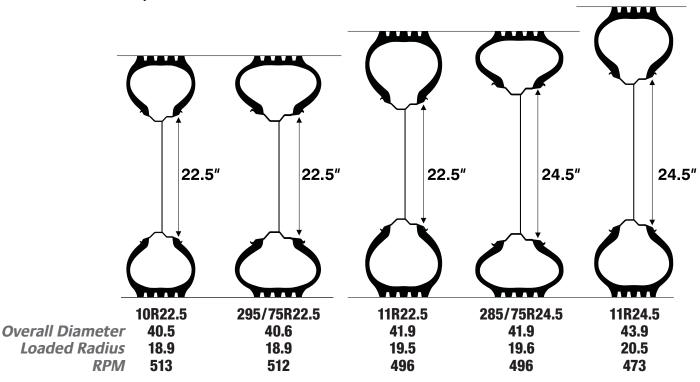
2. Positive handling

4. Lighter weight

Care must be taken when converting to lower profile tires. Differences in overall diameter, static loaded radius and maximum load carrying capacity should be considered prior to mounting lower profile tires.

CONVERSION TO LOW PROFILE TIRES

Change In Overall Diameter (FD663 Example)



Mounting/Demounting Procedures

Proper mounting procedures must be followed or sudden tire destruction, personal injury or death may result. Tire mounting must be done only by personnel trained, supervised and equipped according to Federal OSHA regulations.

Demounting

Completely deflate tire by removing the valve core prior to removing the tire and wheel assembly from the truck.

Remove tire and wheel assembly from the vehicle and demount the tire from the wheel in the following manner:

Tube-type

- Ensure that the tire is completely deflated before removing from the rim. Place the tire on the floor. side-ring side up.
- Pry the bead loose from the lock ring using the proper tools.
- Disassemble the rim parts carefully to avoid damage to the tire, tube, flap or rim parts.
- Turn the wheel over and unseat the second bead from the wheel.
- · Remove the rim from the tire.

Tubeless

- Ensure that the tire is completely deflated before removing from the rim.
- · Break the beads loose on both sides of the tire using a bead-breaking tool.
- Lubricate both beads of the tire using a vegetable oil-based lubricant only.
- · Place the tire and rim on the floor with the wide side of the rim down.
- Progressively work the tire off the rim using the proper tire irons.

Prior to Mounting

Clean and prepare rim or wheel – inspect the rim or wheel for damage. Cracked, broken, bent, or otherwise damaged rim components and wheels must not be reworked, welded, brazed or otherwise heated. Never weld a rim with a tire mounted on it or any other time.

Proper size tube and flaps (if applicable) must be installed in the tire. New Bridgestone tubes and flaps must be used when mounting new Bridgestone tube type tires. Never use undersized, oversized, or used tubes or flaps. Ensure that rim components are properly matched and that the proper size rim is being used (size, bead taper, etc.).

New valves, cores, caps, and 0-rings should be installed with new tires. Never mount a damaged tire.

Mounting

Tube-type

- Remove the tube and flap from the tire (if installed). Clean and dry the inside of the tire to ensure that all moisture. dirt and foreign material is removed prior to mounting.
- Install the proper size tube and flap. Always install new Bridgestone radial tubes and radial flaps in new Bridgestone radial tires. Be sure tubes marked "radial" are used in radial tires. Place the tube inside the tire and install the flap, ensuring that the flap is centered. Slightly inflate the tube enough to shape it out.
- Lubricate the beads, rim side of the flap and the tube base with a vegetable-based lubricant. Do not over-lubricate (inside of tire must stay dry).
- Mount the tire, tube and flap assembly on the rim.
- Assemble the rim parts making sure proper components are used and a proper fit is established.
- When inflating, always place the tire in an approved safety cage or equivalent restraining device and use an extension hose and clip-on chuck.
- Never stand over a tire while inflating. Do not attempt to seat rim components by tapping with a mallet when tire is inflated.

Tubeless

- Clean and prepare rim or wheel.
- Replace valve seals and stem.
- Lubricate both beads and both rim flanges.
- Work the tire over the rim flanges using proper tubeless tire tools.
- Mount the tire over the valve side.
- Inflate tire in safety cage to seat beads.
- Do not exceed the maximum inflation pressures shown on tire sidewall/rim.

WARNING: When mounting truck tires, never use pressures above 40 psi to seat tire beads. If beads have not seated by the time pressure reaches 40 psi, deflate the assembly, reposition the tire on the rim, re-lubricate tire beads, rim humps, bead seat, and re-inflate.

Cautions

 Always inflate tire/rim assembly in an approved safety cage or equivalent restraining device, use remote controlled clip-on air hose, and inflate to pressure recommended by vehicle manufacturer.

- Always ensure that rim components fit properly before inflating.
- Never tap component parts with a mallet while the tire is inflated.
- Never attempt to disassemble multi-piece rims while inflated.
- Do not exceed the maximum inflation pressure on the sidewall of the tire. If beads do not seat at 40 psi, deflate, re-lubricate and re-inflate.

WARNING: Never pour or spray any flammable substance into or onto a tire or wheel for any purpose whatsoever. The residue left by the substance could result in a fire or explosion, which could cause an accident.

WARNING: Never pour or spray a flammable substance such as gasoline or ethyl ether into a tire and light with a match so that the resulting explosion seats the beads of a tubeless tire. This practice is extremely dangerous and can result in a severe explosion or undetected damage to the tire or rim which can cause severe injury or death.

WARNING: Always replace a tire on a rim with another tire of exactly the same bead diameter as the diameter of the rim on which it will be mounted.

Correct Rim Selection

Bridgestone tires are designed to be used on wheels and rims that conform to the dimensions and contours shown in the Tire and Rim Association Yearbook for the year in which the tire is manufactured and that are designed as approved wheels and rims for each particular tire size and type.

Usage of other wheels and rims must be expressly approved by Bridgestone Firestone North American Tire, LLC for the particular application involved.

The load and cold inflation pressure must not exceed the rim and wheel manufacturer's recommendations even though the tire may be approved for a higher load or inflation.

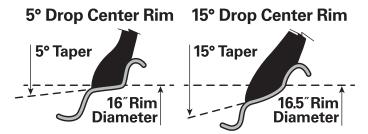
Rims and wheels may be identified (stamped) with a maximum load and maximum cold inflation rating. For rims and wheels not so identified or for service conditions exceeding the rated capacities, consult the rim and wheel manufacturer to determine rim and wheel capacities for the intended service.

Tire & Rim Matching Importance

Remember the importance of proper matching of tires and rims. In particular, special care must also be used in the mounting of any 16" diameter tire sizes, as well as the 15.5" and 17.5" sizes. The 16" size tire must be mounted only on the approved 16" rims and not the 15.5" or 16.5" rims. In addition, any 15" size tire must be mounted only on approved 15"rims, not a 15.5"rim and any 17"size tire must be mounted only on approved 17" rims, not on a 17.5" rim.

WARNING: There is a danger in installing a tire of one rim diameter on a rim of a different rim diameter. If attempts are made to mount and inflate a 15" diameter tire on a 15.5" rim, a 16"tire on a 16.5"rim, or a 17"tire on a 17.5"rim, serious injury or death may result.

Rims of different diameters and tapers cannot be interchanged. The following diagram illustrates the difference between rims of two different tapers and diameters:



The following diagram shows how the beads of a 16" tire will not seat on a 16.5"rim. The beads should not be forced out against the rim flanges by using more air pressure, because this will break the beads and the tire will explode. Never exceed 40 psi when seating the beads on the rims.



Use of Lubricants In Mounting & Demounting of Truck/Bus Tires

Bridgestone does not recommend the use of petroleum products as a lubricant in tire mounting or demounting operations.

Only a vegetable oil-based lubricant should be used. Do not use solvents or petroleum products as lubricants for tire mounting or demounting.

In cases where a tire submitted for adjustment consideration for bead-related damages shows evidence of having been contaminated by petroleum lubricants or other non-recommended material, the adjustment will be disallowed by Bridgestone. The use of non-recommended (products or materials may result in deterioration of rubber and eventual failure of the tire.)

Acceptable lubricants such as Murphy's, Ru-Glyde, Sliptac, etc. are recommended for (mounting and demounting passenger and truck/bus tires.)

Tire Vibration

SAFETY WARNING: Serious injury or death may result from a tire failure. Many tire failures are preceded by vibration, bumps, bulges or other anomalies. If an unusual vibration occurs while driving your vehicle or you notice a bump, bulge, or an anomaly not associated with normal tire performance, have your tires and vehicle evaluated by a qualified service person.

Repair & Retreading

Improperly repaired or retreaded truck tires may cause sudden tire destruction.

Bridgestone truck tires should only be retreaded and repaired by trained personnel.

An inspection of each tire should be done before operating the vehicle. Damaged tires should be inspected by an authorized Bridgestone tire dealer.

A puncture left unrepaired may result in further internal casing damage and eventual tire destruction.

Never use plug-only repairs on Bridgestone truck tires. An interior patch with plug or other approved material is required. Nail hole repairs should be made only after demounting and inspecting the interior of the tire.

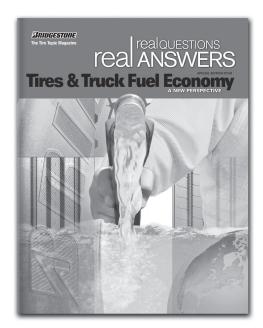
Never use a tube as a substitute for a proper tire repair.

Belt Removal

- 1. The removal of the fourth (outer) belt is permissible. This belt may be omitted when retreading.
- 2. The removal of the third belt is more involved. If it is essential that the third belt be removed, then it must be replaced before retreading.
- 3. A nail hole repair of 3/8" or less in diameter may be made in the crown area of either radial or bias tires. A section repair in a radial is required to repair any injury larger than a 3/8" nail hole.
- 4. Bias section repairs are made when the injury is either larger than 1-1/4"in diameter, is not perfectly round or perpendicular to the liner surface, or when the injury is larger than 3/8"in diameter and combination patch plugs are not used.



Large Truck Fuel Economy



A NEW PERSPECTIVE

Anything you do to save fuel will improve your profitability if it doesn't cost more than it saves.

Bridgestone Commercial Solutions (BCS) has been studying the relationship of tires to fuel economy for over a quarter of a century. What follows summarizes that research.

For a detailed look at truck tire fuel economy, ask your BCS representative for a copy of Tires & Truck Fuel Economy, a Real Answers magazine "Special Edition." You may also view this publication online or order copies by visiting BridgestoneTrucktires.com.

Today's trucks have an estimated engine efficiency of approximately 40 percent. Therefore, only about 40 percent of the energy converted from diesel fuel reaches the axles. Some things influence use of this 40 percent of available energy more than others. We'll take them in order, starting with some of the largest.

What affects "real world" fuel economy?

Just as trucking is "a business of pennies," so is truck fuel economy. Tires are just one of many components affecting fuel economy, but one of the easiest to change and test.

Remember though, because of the difficulty of controlling variables in the real world, test results can vary considerably from what you find in day-to-day operations.

Factors Affecting Fuel Economy in the Real World

TIRES DRIVERS VEHICLE Pattern **Attitude** Compounding Compensation Alignment Type/Size **Education Transmission Percent Wear** Consistency Configuration **Inflation Pressure Parasitic Loads Idle Time Tread Depth Engine Brake Use Aerodynamics** Retreading Habits Maintenance >>>>> **FUEL** ECONOM **On-board Computers** Traffic Long Haul • P&D **Odometer Terrain** Regional • Load **Test Method Road Surfaces** Speed Measurement Weather **Fuel Quality Fuel Receipts Temperature Percent Loaded Miles Analyzing Results** Maneuvering Route **DOCUMENTATION ENVIRONMENT OPERATIONS**

How much benefit can we get?

A fleet with average fuel economy of 5.0 miles per gallon that achieves a given percentage of fuel savings will save more fuel than a fleet with an average fuel economy of 7.0 miles per gallon.

Fleet size and annual miles also have an effect. The more fuel you use, the more you have to gain from any improvement.

SAMPLE FUEL ECONOMY CALCULATIONS										
MILES PER YEAR	100,000	100,000	100,000	100,000	100,000	100,000	100,000			
MILES PER GALLON	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
GALLONS PER YEAR	20,000	18,182	16,667	15,385	14,286	13,333	12,500			
1% Fuel Savings	200	182	167	154	143	133	125			
2% Fuel Savings	400	364	333	308	286	267	250			
5% Fuel Savings	1,000	909	833	769	714	667	625			
7% Fuel Savings	1,400	1,273	1,167	1,077	1,000	933	875			
10%Fuel Savings	2,000	1,818	1,667	1,538	1,429	1,333	1,250			

How do we know how much we're saving?

First, you have to know what your fuel economy is right now. Because it changes constantly, with weather, loads, roads, equipment and drivers, that may not be as simple as it sounds.

Scientific testing controls variables, but you may not have that kind of control in the real world.

And, in-truck on-board computers may not be your best guide. According to TMC, these displays can be in error plus or minus five percent.

According to TMC, on-board computer displays of fuel economy can be off by ±5%

One method that's real world is to take your fuel receipts and corresponding odometer readings, then divide miles by gallons. The more data you have, the more representative your "average" is going to be.

And remember, consider the cost of any fuel economy tactic. If it costs more than it saves, it's a bad investment.

Advanced computer methods

Your BCS representative has an innovative computer program that accurately compares the fuel economy of different tires, tires from different manufacturers, even retreads.

This program, *Tire Life Cycle Cost (TLCC)*, makes a true comparison by compensating for the fact that tire fuel economy changes constantly throughout

tread life, and by accounting for differences in tire prices, casing values, installation costs and tread life.

TLCC will show you not only what the costs are, but what portion are for tread wear and what portion are for fuel consumed by the tires.

It's the most accurate "What if?"-way to select tires that will perform best. And only BCS has TLCC. Ask your representative to show you how much you can save.



What consumes fuel?

SPEED

Every bit of energy produced or used by a truck comes from the fuel in the tank.

To move a truck, you must first run the engine to get power to the tires. With 40 percent engine efficiency, 60 percent of fuel is consumed through engine losses, the remaining 40 percent of fuel is consumed by tire rolling resistance. air resistance and all other mechanical losses. At 55 mph or below tire rolling resistance, air resistance and mechanical losses each account for about 33 percent of the 40 percent of fuel from the engine efficiency.

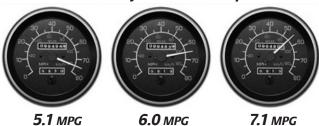
For example, increasing speed from 55 mph to 75 mph can take 39 percent more fuel, and much of that results from air resistance.

Speed affects other things too

In tests, vehicles went from 5.1 miles per gallon at 75 mph to 7.1 miles per gallon at 55 mph.

Speed also affects travel time, and therefore, the number of miles a driver can log each day. If you can meet delivery schedules without running out of hours of service, cutting speed can be an effective way to save fuel.

Fuel Economy at Different Speeds

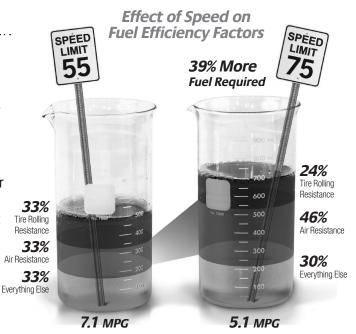


Fuel Economy & Travel Time at Different Speeds

Running at higher speeds can also have effects: Tire fuel efficiency, even with fuel-efficient tires, is severely cut.

And, engine manufacturers estimate maintenance costs may be 10-15 percent higher, while tire wear can be shortened by 10 to 30 percent.

SPEED	MILES PER GALLON	INCREASE IN MILES PER GALLON	PERCENT FUEL SAVED	TIME FOR 500 MILES OF TRAVEL	INCREASE IN TRAVEL TIME
75	5.1	_	_	6 hr. 40 min.	_
65	6.0	18%	15%	7 hr. 42 min.	15.5%
55	7.1	39%	28.2%	9 hr. 5 min.	36.2%



LOAD

No one would reduce payload as a way to save fuel, but there are ways to increase payload – by decreasing non-paying load.

Wide base tires weigh significantly less than dual pairs. With some cargoes, this can allow increased payload, and more revenue.

If the tires they replace were not fuel-efficient, wide base tires may also contribute to fuel economy.



WIDE BASE LOW PROFILE 181 lb per TIRE 250 lb per PAIR

Wide base tires can allow weight savings to be converted into revenue-producing payload and may be more fuel-efficient than ordinary dual assemblies.

Tire Contributions to the Fuel Bill

Of the fuel used in moving the vehicle, about 1/4 to 1/3 of it is used to overcome rolling resistance. So if rolling resistance decreases by 10 percent the result is about ($\frac{1}{4} \times 10\% =$) 2.5% to ($\frac{1}{3}$ x 10% =) 3% decrease in fuel consumption.

35-50% TREAD. COMPOUND What consumes fuel? continued 50-65% ROLLING RESISTANCE **CASING** The tread contributes about 35-50 percent

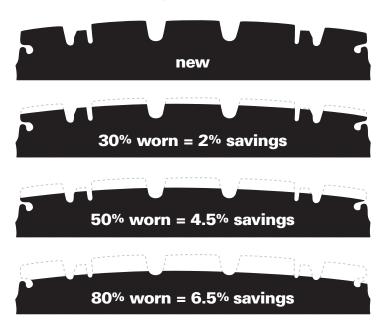
of the tire's overall rolling resistance, while the casing contributes about 50 to 65 percent.

Wear effect on rolling resistance

Since the contribution of the tread is large, as the tread wears away, rolling resistance decreases.

As they approach wear-out, many tires become very similar in rolling resistance, even if they started out quite different.

That's one reason the BCS TLCC program uses true average rolling resistance – not new-tire rolling resistance – to calculate tire fuel consumption.



Tread design

Tread design also affects rolling resistance. In general, rib-type designs are more fuel-efficient than block- or lug-types. And, a tire with a shallower tread tends to be more fuel-efficient.

With drive tires, designs incorporating continuous shoulder ribs are so resistant to irregular wear that designers can use very fuel-efficient tread compounds.

Computer analysis, like that of the BCS TLCC program, can help you decide which tires deliver the best fuel efficiency.

Fuel economy with retreads

If only the tread is modified to produce fuel economy, the fuel efficiency of the tire may end when it is retreaded. unless it's retreaded with a fuel-efficient tread.

CAP

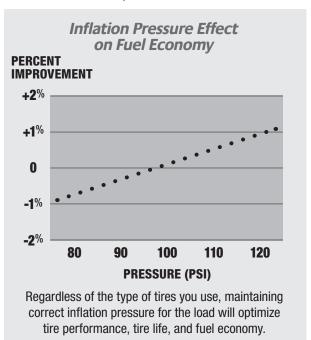
BASE

Fortunately, there are a number of fuel-efficient retread materials available offering fuel economy comparable to that of the best new tires, but at a fraction of their cost.

In addition, many BCS casings are specially constructed for fuel efficiency, and when retreaded – especially when capped with a fuel-efficient tread – may offer superior fuel economy.

Inflation pressure effects

Inflation pressure effects are relatively small, but you can expect about a 2 percent improvement in fuel efficiency over a range of 20 PSI below to 20 PSI above recommended pressure.



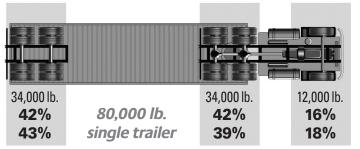
Position contribution to fuel economy

In general, the contribution of the tires on any given axle to overall vehicle fuel efficiency is roughly determined by the amount of load on that axle.

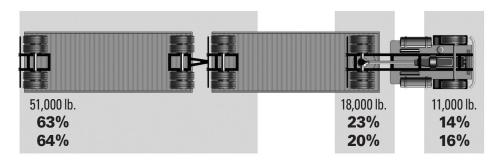
In general, trailer tires make the largest contribution.

If you are evaluating tires, you should probably try fuel-efficient trailer tires first. If that doesn't work, changing drive and steer tires probably won't either.

Axle Weight Distribution & Position Contribution to Fuel Economy



WEIGHT weight percentage fuel consumption



What effect can fuel-efficient tires have?

Generally you will only see about half of the scientific test results in the real world. Much of this is because of interference by other factors outside the controlled variables of testing.

So, any fuel economy method that does not produce at least a 2-percent improvement in controlled testing will probably not produce a measurable real-world effect.

Taking action

BCS recommends you conduct your own tests to determine whether your investment will achieve a satisfactory return.

Comparing fuel receipts with odometer readings is something you can do yourself, on an ongoing basis, to see if your fuel economy program is working.

Try TLCC

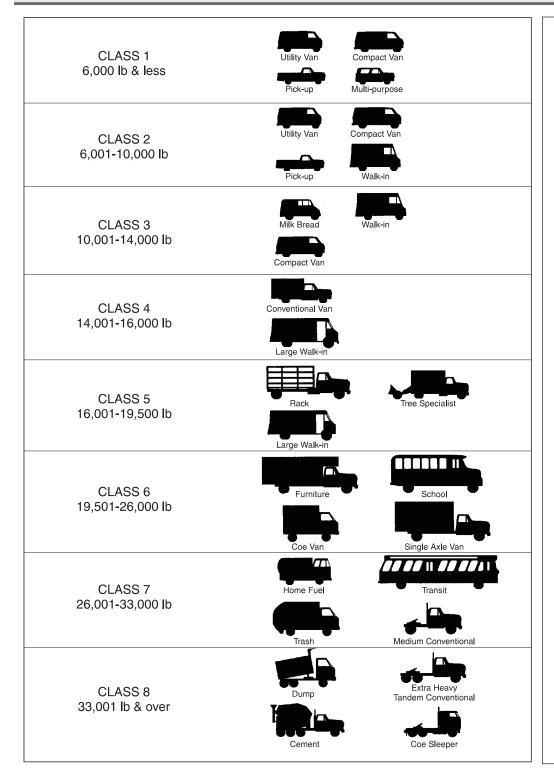
Remember, only BCS has the Tire Life Cycle Cost (TLCC) program, to help you make informed tire choices. Your BCS representative will help you analyze your current tires (even if they are from BCS competitors), and recommend tires that will produce the lowest overall tire and fuel cost over their useful life.

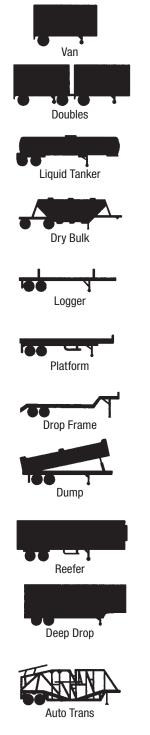
Here are some steps to take:

Recommendations

- **Test things yourself:** If you can't convince yourself and your accountant, what you're saving may be too small to stand out from the "noise."
- **Limit your investment:** Try trailer tires first, or better still, try fuel-efficient trailer retreads first.
- Consider all the variables: Fuel-efficient duals may save just as much fuel as wide base tires, without forcing you to buy new wheels. If you can't benefit from the weight savings, why spend the money?
- **Try other methods:** Driver behavior has a big effect on fuel economy. Driver training or incentives may be a better investment than new equipment.
- **Examine your priorities:** Make sure everyone is on board. If one department is trying to save fuel and another is trying to cut tire costs, they may be working against each other.
- Call for help: Your tire supplier can help you with advice and in conducting tests. Call BCS for assistance at 1-800-847-3272.

Truck Type by Weight Class





Note: Trailer weight not listed.

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Radial Ply METRIC Tires for Trucks, Buses & Trailers Used in Normal Highway Service

	TIRES MOUNTED ON 15° DROP CENTER RIMS													
			Т	ire Load Li	mits (kg./lb.) at various	Cold Inflat	tion Pressur	res (Pressi	ıre Listed i	s the Minim	um for the	Load)	
TIRE SIZE		kPa	480	520	550	590	620	660	690	720	760	790	830	860
DESIGNATION	USAGE	psi	70	75	80	85	90	95	100	105	110	115	120	125
215/75R19.5	DUAL	kg. lb.			1450 3195	1520 3350	1590 3500	1650 3645	1720 3795	1790 3945	1860 4095	1910 4220	1990 4390	2060(H) ₁₃₅ 4540(H)
FS560 PLUS ONLY	SINGLE	kg. lb.			1530 3375	1610 3540	1680 3695	1750 3860	1820 4010	1900 4180	1960 4330	2040 4495	2110 4650	2180(H) ₁₄₃ 4805(H)
005/70040.5	DUAL	kg. lb.	1230 2720	1300 2860	1360(E) ₁₁₉ 3000(E)	1410 3115	1470 3245	1550(F) ₁₂₃ 3415(F)	1580 3490	1640 3615	1700(G) ₁₂₆ 3750(G)			
225/70R19.5	SINGLE	kg. lb.	1310 2895	1380 3040	1450(E) ₁₂₁ 3195(E)	1500 3315	1570 3450	1650(F) ₁₂₅ 3640(F)	1690 3715	1740 3845	1800(G) ₁₂₈ 3970(G)			
245/70010 5	DUAL	kg. lb.			1550 3415	1590 3515	1660 3655	1750(F) ₁₂₇ 3860(F)	1790 3940	1850 4075	1950(G) ₁₃₁ 4300(G)	1970 4345	2060(H) 4540(H)	
245/70R19.5	SINGLE	kg. lb.			1600 3640	1700 3740	1750 3860	1850(F) ₁₂₉ 4080(F)	1900 4190	1970 4335	2060(G) ₁₃₃ 4540(G)	2095 4620	2180(H) 4805(H)	

		kPa	480	520	550	590	620	660	690	720	760	790	830
		psi	70	75	80	85	90	95	100	105	110	115	120
255/70R22.5	DUAL	kg. lb.			1800 3970	1860 4110	1940 4275	2000 4410	2020 4455	2090 4610	2120(G) ₁₃₄ 4675(G)	2230 4915	2300(H) ₁₃₇ 5070(H)
200/70022.0	SINGLE	kg.			1900 4190	1980 4370	2060 4550	2120 4675	2220 4895	2300 5065	2360(G) ₁₃₈ 5205(G)	2450 5400	2500(H) ₁₄₀ 5510(H)
295/75R22.5	DUAL	kg. lb.	1860 4095	1950 4300	2060 4540	2130 4690	2220 4885	2300(F) ₁₃₇ 5070(F)	2390 5260	2470 5440	2575(G) ₁₄₁ 5675(G)	2630 5795	2725(H) ₁₄₃ 6005(H)
290/70022.0	SINGLE	kg. lb.	2040 4500	2140 4725	2240 4940	2340 5155	2440 5370	2500(F) ₁₄₀ 5510(F)	2620 5780	2710 5980	2800(G) ₁₄₄ 6175(G)	2890 6370	3000(H) ₁₄₈ 6610(H)
295/75R22.5	DUAL	kg. lb.			1550 3415	1590 3515	1660 3655	1750(F) ₁₂₇ 3860(F)	1790 3940	1850 4075	1985(G) 4375(G)		
FS507 PLUS ONLY	SINGLE	kg. lb.			1650 3640	1700 3740	1770 3890	1850(F) ₁₂₉ 4080(F)	1900 4190	1970 4335	2060(G) ₁₃₃ 4545(G)		
295/75R22.5	DUAL	kg. lb.	1860 4095	1950 4300	2060 4540	2130 4690	2220 4885	2300(F) ₁₃₇ 5070(F)	2390 5260	2470 5440	2575(G) ₁₄₁ 5675(G)	2870 6330	3000(H) ₁₄₈ 6610(H)
FS560 PLUS ONLY	SINGLE	kg. lb.	2040 4500	2140 4725	2240 4940	2340 5155	2440 5370	2500(F) ₁₄₀ 5510(F)	2620 5780	2710 5980	2800(G) ₁₄₄ 6175(G)	3150 6950	3250(H) ₁₄₉ 7160(H)

NOTES: Letters in parentheses denote Load Range for which boldface loads and inflations are maximum. International Load Index numbers are shown after Load Range.

 ${\tt IMPORTANT-Always\ use\ approved\ tire\ and\ rim\ combinations\ for\ diameter\ and\ contours.}$

Radial Ply METRIC Tires for Trucks, Buses & Trailers Used in Normal Highway Service

	TIRES MOUNTED ON 15° DROP CENTER RIMS													
			Tire	e Load Limit	s (kg./lb.) at	various Col	d Inflation P	ressures (Pr	essure List	ed is the Mi	nimum for the	e Load)		
TIRE SIZE		kPa	550	590	620	660	690	720	760	790	830	860	900	
DESIGNATION	USAGE	psi	80	85	90	95	100	105	110	115	120	125	130	
	Dual	kg.	2575	2650	2750	2900	2970	3070	3150	3270	3450(J) ₁₅₁	3560	3750(L)	
315/80R22.5	Duai	lb.	5675	5840	6070	6395	6545	6770	6940	7210	7610(J) ¹³¹	7850	8255(L)	
310/00022.0	Cinalo	kg.	2800	2910	3030	3150	3260	3370	3450	3590	3750(J) ₁₅₄	3900	4080(L)	
	Single	lb.	6175	6415	6670	6940	7190	7440	7610	7920	8270(J) ¹³⁴	8600	9000(L)	
	Durel	kg.	2575	2650	2750	2900	2970	3070	3150	3270	3450(J) ₁₅₁	3560	3750(L) ₁₅₄	
315/80R22.5	Dual	lb.	5675	5840	6070	6395	6545	6770	6940	7210	7610(J)	7850	8270(L) ¹³⁴	
FS400 & T819	0: 1	kg.	2800	2910	3030	3150	3260	3370	3450	3590	3750(J) ₁₅₄	3900	4125(L) ₁₅₇	
	Single	lb.	6175	6415	6670	6940	7190	7440	7610	7920	8270(J) ¹⁵⁴	8600	9090(L) ¹⁵⁷	
		kPa	480	520	550	590	620	660	690	720	760	790	830	
		psi	70	75	80	85	90	95	100	105	110	115	120	
	DUAL	kg.	1870	1970	2060	2150	2240	2360(F) ₁₃₈	2410	2490	2575(G) ₁₄₁	2660	2800(H) ₁₄₄	
285/75R24.5	DUAL	lb.	4135	4340	4540	4740	4930	5205(F) "	5310	5495	5675(G)	5860	6175(H)	
203/13024.3	SINGLE	kg.	2060	2160	2240	2360	2460	2575(F) ₁₄₁	2650	2740	2800(G) ₁₄₄	2920	3075(H) ₁₄₇	
	SHVGLE	lb.	4545	4770	2240	2360	2460	5675(F)	5835	6040	6175(G) T	6440	6780(H) ¹⁷⁷	

METRIC WIDE BASE Radial Tires for Trucks, Buses & Trailers Used in Normal Highway Service

	TIRES ARE USED AS SINGLES													
		Tire Load Limits (kg./lb.) at various Cold Inflation Pressures (Pressure Listed is the Minimum for the Load)												
TIRE SIZE	kPa	480	520	550	590	620	660	690	720	760	790	830		
DESIGNATION	psi	70	75	80	85	90	95	100	105	110	115	120		
385/65R22.5	kg.	2880	3060	3150	3350	3470	3650	3740	3850	4000	4100	4250(J) ₁₅₈		
303/031122.3	lb.	6380	6720	6940	7350	7650	8050	8230	8510	8820	9050	9370(J) ¹³⁰		
42E/CED22 E	kg.	3430	3640	3750	3980	4130	4250	4440	4580	4750(J) ₁₆₂	4880	5150(L) ₁₆₅		
425/65R22.5	lb.	7590	7990	8270	8740	9100	9370	9790	10100	10500	10700	11400(L)		
44E/GED22 E	kg.	3720	3950	4125	4320	4470	4625	4820	4960	5150	5290	5600(L) ₁₆₈		
445/65R22.5	lb.	8230	8660	9090	9480	9870	10200	10600	11000	11400	11700	12300(L)		

NOTES: Letters in parentheses denote Load Range for which boldface loads and inflations are maximum. International Load Index numbers are shown after Load Range.

 ${\sf IMPORTANT-Always}\ use\ approved\ tire\ and\ rim\ combinations\ for\ diameter\ and\ contours.$

Radial Ply Tires for Trucks, Buses & Trailers Used in Normal Highway Service

	TIRES MOUNTED ON 15° DROP CENTER RIMS															
	Tire Load Limits (kg./lb.) at various Cold Inflation Pressures (Pressure Listed is the Minimum for the Load)															
TIRE SIZE		kPa	590													
DESIGNATION	USAGE	psi	85 90 95 100 105 110 115 120 125 130 135													
	DUAL	kg.	1650(E) ₁₂₅	1720	1790	1850(F) ₁₂₉	1920	1990	2060(G) ₁₃₃							
10R17.5HC	DUAL	lb.	3640(E) ¹²³	3785	3930	4080(F) ¹²³	4235	4390	4540(G) ¹³³							
10017.300	SINGLE	kg.														
	SINGLE	lb.	3860(E) ¹²⁷	4005	4150	4300(F) ¹³¹	4470	4640	4805(G) ¹³⁵							

		kPa	480	520	550	590	620	660	690	720	760	790	830
		psi	70	75	80	85	90	95	100	105	110	115	120
0022 5	DUAL	kg. lb.	1480 3270	1550 3410	1610 3550	1670 3690	1750(E) ₁₂₇ 3860(E)	1820 4005	1890 4150	1950(F) ₁₃₁ 4300(F)	2010 4425	2070 4550	2120(G) ₁₃₄ 4675(G)
9R22.5	SINGLE	kg. lb.	1530 3370	1610 3560	1690 3730	1760 3890	1850(E) ₁₂₉ 4080(E)	1920 4235	1990 4390	2060(F) ₁₃₃ 4540(F)	2120 4675	2180 4810	2240(G) ₁₃₆ 4940(G)
10D22 F	DUAL	kg. lb.	1750 3860	1830 4045	1910 4230	2000(E) ₁₃₂ 4410(E)	2080 4585	2160 4760	2240(F) ₁₃₈ 4940(F)	2300 5075	2360 5210	2430(G) ₁₃₉ 5355(G)	
10R22.5	SINGLE	kg. lb.	1850 4080	1940 4280	2030 4480	2120(E) ₁₃₄ 4675(E)	2200 4850	2280 5025	2360(F) ₁₃₈ 5205(F)	2430 5360	2500 5515	2575(G) ₁₄₁ 5675(G)	
11D00 F	DUAL	kg. lb.	1990 4380	2080 4580	2160 4760	2250 4950	2360(F) ₁₃₈ 5205(F)	2460 5415	2560 5625	2650(G) ₁₄₂ 5840(G)	2680 5895	2710 5950	2725(H) ₁₄₃ 6005(H)
11R22.5	SINGLE	kg. lb.	2050 4560	2160 4770	2260 4990	2370 5220	2500(F) ₁₄₀ 5510(F)	2600 5730	2700 5950	2800(G) ₁₄₄ 6175(G)	2870 6320	2940 6465	3000(H) ₁₄₆ 6610(H)
11R24.5	DUAL	kg. lb.	2110 4660	2210 4870	2300 5070	2390 5260	2500(F) ₁₄₀ 5510(F)	2580 5675	2660 5840	2725(G) ₁₄₃ 6005(G)	2820 6205	2910 6405	3000(H) ₁₄₆ 6610(H)
11K24.5	SINGLE	kg. lb.	2190 4820	2300 5070	2410 5310	2520 5550	2650(F) ₁₄₂ 5840(F)	2770 6095	2890 6350	3000(G) ₁₄₆ 6610(G)	3080 6790	3160 6970	3250(H) ₁₄₉ 7160(H)
12D22 E	DUAL	kg. lb.	2170 4780	2260 4990	2350 5190	2440 5390	2575(F) ₁₄₁ 5675(F)	2630 5785	2680 5895	2725(G) ₁₄₃ 6005(G)	2840 6265	2960 6525	3075(H) ₁₄₇ 6780(H)
12R22.5	SINGLE	kg. lb.	2240 4940	2360 5000	2470 5450	2580 5690	2725(F) ₁₄₃ 6005(F)	2820 6205	2910 6405	3000(G) ₁₄₆ 6610(G)	3120 6870	3240 7130	3350(H) ₁₅₀ 7390(H)
12024 5	DUAL	kg. lb.	2300 5080	2400 5300	2500 5520	2600 5730	2650(F) ₁₄₂ 5840(F)	2770 6095	2890 6350	3000(G) ₁₄₆ 6610(G)	3080 6790	3160 6970	3250(H) ₁₄₉ 7160(H)
12R24.5	SINGLE	kg. lb.	2380 5240	2500 5520	2630 5790	2740 6040	2900(F) ₁₄₅ 6395(F)	3020 6650	3140 6910	3250(G) ₁₅₂ 7160(G)	3350 7380	2450 7600	3550(H) ₁₅₂ 7830(H)

NOTES: Letters in parentheses denote Load Range for which boldface loads and inflations are maximum. International Load Index numbers are shown after Load Range.

 ${\sf IMPORTANT-Always}\ use\ approved\ tire\ and\ rim\ combinations\ for\ diameter\ and\ contours.$

Radial Ply Tires for Trucks, Buses & Trailers Used in Normal Highway Service

	TIRES MOUNTED ON 15° DROP CENTER RIMS													
			TI	RES MO	JUNTEL	ON 15	DROF	CENTE	R RIMS					
			Tire	Load Limit	s (kg./lb.) at	various Colo	l Inflation P	ressures (P	ressure Liste	ed is the Mir	nimum for th	e Load)		
TIRE SIZE		kPa	480	520	550	590	620	660	690	720	760	790	830	
DESIGNATION	USAGE	psi	70	75	80	85	90	95	100	105	110	115	120	
9.00R20	DUAL	kg. lb.	1750(D) ₁₂₇ 3860(D)	1830 4045	1910 4230	2000(E) ₁₃₂ 4410(E)	2080 4585	2160 4760	2240(F) ₁₃₆ 4940(F)	2300 5080	2360 5220	2430(G) ₁₃₉ 5355(G)		
5.00N20	SINGLE	kg. lb.	1850(D) ₁₂₉ 4080(D)	1940 4280	2030 4480	2120(E) ₁₃₄ 4675(E)	2200 4850	2280 5025	2360(F) ₁₃₈ 5205(F)	2430 5360	2500 5515	2575(G) ₁₄₁ 5675(G)		
9.00R20	DUAL	kg. lb.	1750 3860	1830 4045	1910 4230	2000 4410	2080 4585	2160 4760	2240 4940	2250(G) 4970(G)				
T546 ONLY	SINGLE	kg. lb.	1850 4080	1940 4280	2030 4480	2120 4675	2200 4850	2280 5025	2360 5205	2430 5360	2500 5515	2570(G) 5670(G)		
10.00R20	DUAL	kg. lb.	1990 4380	2080 4580	2160 4760	2250 4950	2360(F) ₁₃₈ 5205(F)	2460 5415	2560 5625	2650(G) ₁₄₂ 5840(G)	2680 5895	2710 5950	2725(H) ₁₄₃ 6005(H)	
10.00h20	SINGLE	kg. lb.	2050 4530	2160 4770	2260 4990	2370 5220	2500(F) ₁₄₀ 5510(F)	2600 5730	2700 5950	2800(G) ₁₄₄ 6175(G)	2870 6320	2940 6465	3000(H) ₁₄₆ 6610(H)	
10.00R20	DUAL	kg. lb.	1990 4380	2080 4580	2160 4760	2250 4950	2360 5205	2460 5415	2560 5625	2600 5720	2630(H) 5800(H)			
T546 ONLY	SINGLE	kg. lb.	2050 4530	2160 4770	2260 4990	2370 5220	2500 5510	2600 5730	2700 5950	2800 6175	2870 6320	2940 6465	3000(H) ₁₄₆ 6610(H)	
11.00R20	DUAL	kg. lb.	2170 4780	2260 4990	2360 5190	2450 5390	2575(F) ₁₄₁ 5675(F)	2630 5785	2680 5895	2725(G) ₁₄₃ 6005(G)	2840 6265	2960 6525	3075(H) ₁₄₇ 6780(H)	
11.001120	SINGLE	kg. lb.	2240 4940	2360 5200	2470 5450	2580 5690	2725(F) ₁₄₃ 6005(F)	2820 6205	2910 6405	3000(G) ₁₄₆ 6610(G)	3120 6870	3240 7130	3350(H) ₁₅₀ 7390(H)	
11.00R22	DUAL	kg. Ib.	2300 5080	2400 5300	2500 5520	2600 5730	2650(F) ₁₄₂ 5840(F)	2770 6095	2890 6350	3000(G) ₁₄₆ 6610(G)	3080 6790	3160 6970	3250(H) ₁₄₉ 7160(H)	
11.001122	SINGLE	kg. lb.	2380 5240	2500 5520	2630 5790	2740 6040	2900(F) ₁₄₅ 6395(F)	3020 6650	3140 6910	3250(G) ₁₄₉ 7160(G)	3350 7380	3450 7600	3550(H) ₁₅₂ 7830(H)	
12.00R20	DUAL	kg. lb.	2470 5440	2580 5680	2680 5910	2790 6140	2880 6360	3000(G) ₁₄₆ 6610(G)	3080 6790	3160 6970	3250(H) ₁₄₉ 7160(H)	3350 7390	3450(J) ₁₅₁ 7610(J)	
12.001120	SINGLE	kg. lb.	2550 5620	2690 5920	2810 6200	2940 6480	3060 6740	3250(G) ₁₄₉ 7160(G)	3350 7380	3450 7600	3550(H) ₁₅₂ 7830(H)	3650 8050	3750(J) ₁₅₄ 8270(J)	

NOTES: Letters in parentheses denote Load Range for which boldface loads and inflations are maximum. International Load Index numbers are shown after Load Range.

 ${\tt IMPORTANT-Always\ use\ approved\ tire\ and\ rim\ combinations\ for\ diameter\ and\ contours.}$

Commercial Light Truck Tires

Light Truck METRIC Radial Ply Tires for Trucks, Buses, Trailers &
Multipurpose Passenger Vehicles Used in Normal Highway Service

			TIR	ES MOL	JNTED C	N 5° DR	OP CEN	ITER RIN	/IS			
					Tire L	oad Limits (lb	.) at various (Cold Inflation	Pressures			
TIRE SIZE		kPa	250	275	300	350	380	400	450	480	500	550
DESIGNATION	USAGE	psi	35	40	45	50	55	60	65	70	75	80
	DUAL	kg.	820	880	930	1060(C) ₁₁₀	1095	1140	1250	1300	1130	1400(E) ₁₂₀
LT275/65R18	DOAL	lb.	1765	1940	2100	2335(C) ''°	2420	2570	2755	2865	3010	3085(E) ¹²⁰
L1273/031110	SINGLE	kg.	900	965	1020	1150(C) ₁₁₃	1205	1250	1360	1425	1450	1550(E) ₁₂₃
	OIIVOLL	lb.	1940	2130	2310	2535(C)	2660	2825	3000	3150	3305	3415(E) ¹²³
	DUAL	kg.	715	765	810	900(C) ₁₀₄	955	990	1060(D)	1130	1160	1250(E) ₁₁₆
LT245/70R17	DOAL	lb.	1540	1690	1830	1985(C) 104	2105	2240	2335(D)	2495	2615	2755(E)
21210,701117	SINGLE	kg.	785	840	890	1000(C) ₁₀₈	1050	1090	1180(D) ₁₁₄	1240	1270	1360(E) ₁₁₉
	01022	lb.	1690	1855	2010	2205(C)	2315	2460	2600(D)	2740	2875	3000(E)
	DUAL	kg.	800	855	910	1030(C) ₁₀₉	1070	1110	1060(D) ₁₁₀	1240	1260	1320(E) ₁₁₈
LT265/70R17		lb.	1720	1890	2050	2270(C)	2360	2510	2680(D)	2735	2820	2910(E)
	SINGLE	kg.	880	920	1000	1120(C) ₁₁₂	1175	1220	1215(D)	1360	1390	1450(E) ₁₁₉
		lb.	1890	2075	2255	2470(C) ¹¹²	2595	2760	2910(D)"*	3005	3100	3195(E) ¹¹⁹
	DUAL	kg.	665 1425	710	750 1695	850(C) ₁₀₂	885	920	1000(D) ₁₀₈	1050	1070 2430	1150(E) ₁₁₃
LT225/75R17		lb.		1565		1875(C)	1950	2075	2205(D)	2310		2535(E)
	SINGLE	kg.	730 1565	780 1720	825 1865	925(C) ₁₀₅ 2040(C)	970 2145	1010 2280	1090(D) ₁₁₁ 2405(D)	1155 2540	1180 2670	1250(E) ₁₁₆ 2755(E)
		lb.				. ,						
	DUAL	kg.	875 1885	935 2065	990 2250	1120 2470	1175 2585	1220 2750	1320 2910	1390 3060	1420 3210	1500(E) ₁₃₂ 3305(E)
LT275/70R18		lb.										
	SINGLE	kg.	960 2070	1030 2270	1090 2470	1215 2680	1290 2840	1340 3020	1450 3195	1525 3360	1560 3530	1650(E) ₁₂₅ 3640(E)
		lb.	2070	2210	24/0	2000	2040	3020	3133	3300	აუაი	3040(E)

		kPa	480	520	550	590	620	660	690
		psi	70	75	80	85	90	95	100
LT015/75D15	DUAL	kg. lb.	570 1255	645 1420	730(C) ₉₇ 1610(C)	790 1740	875(D) ₁₀₃ 1930(D)		
LT215/75R15	SINGLE	kg. lb.	625 1375	710 1565	800(C) ₁₀₀ 1765(C)	870 1915	950(D) ₁₀₆ 2095(D)		
LT225/75D45	DUAL	kg. lb.	645 1420	735 1620	825(C) ₁₀₁ 1820(C)	900 1985	975(D) ₁₀₇ 2150(D)	1060 2335	1150(E) ₁₁₃ 2535(E)
LT235/75R15	SINGLE	kg. lb.	710 1565	810 1785	900(C) ₁₀₄ 1985(C)	990 2180	1060(D) ₁₁₀ 2335(D)	1160 2555	1250(E) ₁₁₆ 2755(E)

NOTES: Letters in parentheses denote Load Range for which boldface loads and inflations are maximum. International Load Index numbers are shown after Load Range.

 ${\sf IMPORTANT-Always}\ use\ approved\ tire\ and\ rim\ combinations\ for\ diameter\ and\ contours.$

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Commercial Light Truck Tires

Light Truck METRIC Radial Ply Tires for Trucks, Buses, Trailers &
Multipurpose Passenger Vehicles Used in Normal Highway Service

			TIE	RES MOL	JNTED C	ON 5° DR	ROP CEN	ITER RIN	ИS			
					Tire L	oad Limits (lb	.) at various	Cold Inflation	n Pressures			
TIRE SIZE		kPa	250	275	300	350	380	400	450	480	500	550
DESIGNATION	USAGE	psi	35	40	45	50	55	60	65	70	75	80
LT225/75R16	DUAL	kg. Ib.	635 1365	675 1500	725 1630	800(C) ₁₀₀ 1765(C)	945 1875	885 1995	975(D) ₁₀₇ 2150(D)	1000 2220	1040 2330	1120(E) ₁₁₂ 2470(E)
L1223/731110	SINGLE	kg. Ib.	700 1500	745 1650	795 1790	880(C) ₁₀₃ 1940(C)	930 2060	970 2190	1060(D) ₁₁₀ 2335(D)	1100 2440	1140 2560	1215(E) ₁₁₅ 2680(E)
17045/75040	DUAL	kg. Ib.	720 1545	765 1695	820 1845	910(C) ₁₀₄ 2006(C)	960 2125	1000 2255	1080(D) ₁₁₁ 2381(D)	1135 2515	1170 2640	1260(E) ₁₁₆ 2778(E)
LT245/75R16	SINGLE	kg. Ib.	790 1700	840 1865	900 2030	1000(C) ₁₀₈ 2205(C)	1055 2335	1100 2480	1190(D) ₁₁₄ 2623(D)	1250 2765	1290 2900	1380(E) ₁₂₀ 3042(E)
1	DUAL	kg. Ib.	810 1740	860 1910	920 2075	1030(C) ₁₀₉ 2270(C)	1080 2390	1130 2540	1250(D) ₁₁₆ 2755(D)	1275 2825	1310 2965	1400(E) ₁₂₀ 3085(E)
LT265/75R16	SINGLE	kg. Ib.	890 1910	950 2100	1010 2280	1120(C) ₁₁₂ 2470(C)	1185 2625	1240 2790	1360(D) ₁₁₉ 3000(D)	1400 3105	1440 3260	1550(E) ₁₂₃ 3415(E)
	DUAL	kg. lb.	665 1425	710 1565	750 1695	850(C) ₁₀₂ 1875(C)	885 1950	920 2075	1000(D) ₁₀₈ 2205(D)	1050 2310	1070 2430	1150(E) ₁₁₃ 2535(E)
LT225/75R17	SINGLE	kg. Ib.	730 1565	780 1720	825 1865	925(C) ₁₀₅ 2040(C)	970 2145	1010 2280	1090(D) ₁₁₁ 2405(D)	1155 2540	1180 2670	1250(E) ₁₁₆ 2755(E)
17045 (00045	DUAL	kg. Ib.	590 1275	645 1395	675 1515	750 1655	810 1745	825 1855	875(D) ₁₀₃ 1930(D)			
LT215/80R15	SINGLE	kg. lb.	650 1400	710 1535	740 1665	825 1820	890 1920	905 2040	975(D) ₁₀₇ 2150(D)			
17005/000047	DUAL	kg. lb.	730 1570	800 1725	830 1870	925 2040	1015 2190	1010 2315	1120 2470	1090 2560	1180 2685	1285(E) ₁₁₇ 2835(E)
LT235/80R17	SINGLE	kg. lb.	800 1725	880 1895	910 2055	1030 2270	1115 2405	1110 2545	1215 2680	1305 2815	1300 2950	1400(E) ₁₂₀ 3085(E)
LT045 (05P40	DUAL	kg. Ib.	630 1360	690 1490	720 1625	800(C) ₁₀₀ 1765(C)	865 1865	870 1985	975(D) ₁₀₇ 2150(D)	1025 2210	1030 2320	1120(E) ₁₁₂ 2470(E)
LT215/85R16	SINGLE	kg. lb.	695 1495	760 1640	790 1785	880(C) ₁₀₃ 1940(C)	950 2050	965 2180	1060(D) ₁₁₀ 2335(D)	1130 2430	1130 2550	1215(E) ₁₁₅ 2680(E)
LT00F/0FB40	DUAL	kg. lb.	720 1545	790 1700	820 1845	910(C) ₁₀₄ 2006(C)	985 2125	1000 2260	1080(D) ₁₁₁ 2381(D)	1165 2515	1170 2645	1260(E) ₁₁₆ 2778(E)
LT235/85R16	SINGLE	kg. lb.	790 1700	965 1870	900 2030	1000(C) ₁₀₈ 2205(C)	1100 2335	1155 2485	1190(D) ₁₁₄ 2623(D)	1285 2765	1290 2905	1380(E) ₁₂₀ 3042(E)
LTOFF/OFD40	DUAL	kg. lb.	815 1745	890 1920	930 2085	1030(C) ₁₀₉ 2270(C)	1115 2400	1130 2550	1250(D) ₁₁₆ 2755(D)	1320 2840	1320 2980	1400(E) ₁₂₀ 3085(E)
LT255/85R16	SINGLE	kg.	895 1920	980 2110	1020 2290	1120(C) ₁₁₂ 2470(C)	1225 2635	1240 2800	1360(D) ₁₁₉ 3000(D)	1450 3120	1450 3275	1550(E) ₁₂₃ 3415(E)

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 ${\tt IMPORTANT-Always\ use\ approved\ tire\ and\ rim\ combinations\ for\ diameter\ and\ contours.}$

Commercial Light Truck Tires

Light Truck RADIAL & BIAS Ply Tires for Trucks, Buses, Trailers & Multipurpose Passenger Vehicles Used in Normal Highway Service

			TII	RES MOL	JNTED (ON 5° DI	ROP CEN	ITER RIN	ЛS			
			Tire Load Limits (kg./lb.) at various Cold Inflation Pressures RADIAL PLY									
		kPa	250	280	310	340	380	410	450	480	520	550
		psi	35	40	45	50	55	60	65	70	75	80
			DIAGONAL (BIAS) PLY									
TIRE SIZE		kPa	210	240	280	310	340	380	410	450	480	520
DESIGNATION	USAGE	psi	30	35	40	45	50	55	60	65	70	75
	DUAL	kg.	540	595	645	690(C) ₉₅	735	780	825(D) ₁₀₁	850	890	925(E) ₁₀₅
7.00R15LT	DUAL	lb.	1190	1310	1420	1520(C) 33	1620	1715	1820(D) ¹⁰¹	1870	1960	2040(E)
7.00*15LT	OINIOLE	kg.	610	670	730	775(D) ₉₉	830	880	925(D) ₁₀₅	965	1005	1060(E) ₁₁₀
	SINGLE	lb.	1350	1480	1610	1710(C) ⁹⁹	1830	1940	2040(D) ¹⁰⁵	2130	2220	2335(E) ¹¹⁰

								RAD	IAL PLY						
		kPa	250	280	310	350	380	410	450	480	520	550	590	620	660
		psi	35	40	45	50	55	60	65	70	75	80	85	90	95
								DIAGONA	L(BIAS)PL	.Υ					
		kPa	210	250	280	310	350	380	410	450	480	520	550	590	620
		psi	30	240	40	45	50	55	60	65	70	75	80	85	90
	DUAL	kg.	540	595	640	690(C) ₉₅	735	775	825(D) ₁₀₁	855	895	925(E) ₁₀₅	965	1000	1030(F) ₁₀₉
8.00R16.5LT	DUAL	lb.	1195	1310	1415	1520(C)	1620	1710	1820(D)	1885	1970	2040(E)	2130	2200	2270(F)
8.00*16.5LT	SINGLE	kg.	615	675	730	800(C) ₁₀₀	835	880	925(D) ₁₀₅	975	1020	1060(E) ₁₁₀	1100	1130	1180(F) ₁₁₄
	SINGLE	lb.	1360	1490	1610	1765(C)	1840	1945	2040(D) ¹⁰³	2145	2240	2335(E)	2420	2500	2600(F)
	DIIAI	kg.	625	685	740	800(C) ₁₀₀	840	895	950(D) ₁₀₅	985	1030	1090(E) ₁₁₁	1110	1150	1215(F) ₁₁₅
8.75R16.5LT	DUAL	lb.	1380	1515	1630	1765(C)	1855	1970	2095(D) ¹⁰³	2175	2260	2405(E)***	2450	2540	2680(F)
8.75*16.5LT	CINICIE	kg.	710	780	840	900(C) ₁₀₄	955	1020	1090(D) ₁₁₁	1120	1170	1215(E) ₁₁₅	1260	1310	1360(F) ₁₁₉
	SINGLE	lb.	1570	1720	1850	1985(C) ¹⁰⁴	2110	2240	2405(D)""	2470	2570	2680(E)	2780	2880	3000(F)
	DUAL	kg.	740	810	875	950(C) ₁₀₆	1000	1060	1120(D) ₁₁₂	1170	1220	1285(E) ₁₁₇			
9.50R16.5LT	DUAL	lb.	1635	1785	1925	2095(C)	2200	2330	2470(D)	2570	2685	2835(E)"			
9.50*16.5LT	CINICIE	kg.	845	920	995	1090(C) ₁₁₁	1130	1200	1285(D) ₁₁₇	1320	1380	1450(E) ₁₂₁			
	SINGLE	lb.	1860	2030	2190	2405(C)	2500	2650	2835(D)"	2920	3050	3195(E) ¹²¹			

NOTES: Letters in parentheses denote Load Range for which boldface loads and inflations are maximum. International Load Index numbers are shown after Load Range.

 ${\sf IMPORTANT-Always}$ use approved tire and rim combinations for diameter and contours.

Commercial Light Truck Tires Light Truck Radial Ply Tires for Trucks, Buses & Trailers Used in Normal Highway Service

			TIRES	MOUNT	ED ON 5	° DROP	CENTER	RIMS			
			Tire Load Limits (kg./lb.) at various Cold Inflation Pressures								
TIRE SIZE		kPa	410	450	480	520	550	590	620	660	690
DESIGNATION	USAGE	psi	60	65	70	75	80	85	90	95	100
	DUAL	kg.	925	975(D) ₁₀₇	1020	1065	1120(E) ₁₁₂	1150	1190	1250(F) ₁₁₆	1450(G) ₁₂₁
7 F0D161 T	DUAL	lb.	2040	2150(D) ¹⁰⁷	2245	2345	2470(E) ¹¹²	2540	2630	2755(F)	3195(G) ¹²¹
7.50R16LT	CINICIE	kg.	1050	1120(D) ₁₁₂	1160	1210	1250(E) ₁₁₆	1310	1360	1400(F) ₁₂₀	1510(G) ₁₂₂
	SINGLE	lb.	2310	2470(D)	2560	2670	2755(E)"°	2885	2900	3085(F) ¹²⁰	3330(G) ¹²²

NOTES: Letters in parentheses denote Load Range for which boldface loads and inflations are maximum. International Load Index numbers are shown after Load Range.

 ${\sf IMPORTANT-Always\ use\ approved\ tire\ and\ rim\ combinations\ for\ diameter\ and\ contours.}$

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AUGUST 1991

TECHNICAL BULLETIN

REF. NO. T9106PD

New 11 Digit DOT Number

he National Highway Traffic Safety Administration (NHTSA) has approved a change to the regulation that requires the date of manufacture in the tire identification number to change from 3 digits to 4 digits (2 digits for week + 2 digits for year.)

Bridgestone Firestone tire will start to adopt the new regulation for tires produced starting the first DOT week of 2000. Full integration of the 11 digit DOT serial number will be completed during the 2nd quarter of 2000.

Tire dealers will need to list the new 11-digit DOT serial number on Tire Registration Cards and Warranty Claim Forms (both forms have space for 11-digits.)

The new DOT Serial Number format:

4D	HL	ABC	0508
Plant	Size	Option	Date
Code	Code	Code	Mfg.

Ex: 5th week of 2008

APRIL 1996

TECHNICAL BULLETIN

REF. NO. T9106TD

TBR Sidewall Repair & Identification

Background

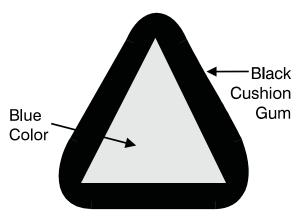
Radial truck tires can successfully be repaired in the sidewall area. When damaged body cord is removed and a reinforcing unit is used in the repair process, a radial sidewall bulge may be visible. In 1984, the Rubber Manufacturers Association (RMA) issued a bulletin stating that bulges up to 3/8" in height are permitted when associated with these repairs.

Issue

The Commercial Vehicle Safety Alliance (CVSA) is responsible for inspecting commercial vehicles for safety defects and placing vehicles out of service if defects such as tire separations or exposed cord/fabric are found. The inspectors, in the past have had difficulty distinguishing between sidewall bulges due to repairs (allowed) and tire separations.

Action

In October 1990, the CVSA agreed to accept the use of a blue triangular identification adjacent to a sidewall repair bulge. A vehicle will not be placed out of service if a tire repair bulge is 3/8" or less in height and is identified with an adjacent blue triangle. The retread and repair industry will be incorporating these identification patches into their sidewall repair procedures.



Sample Triangular Identification Patch

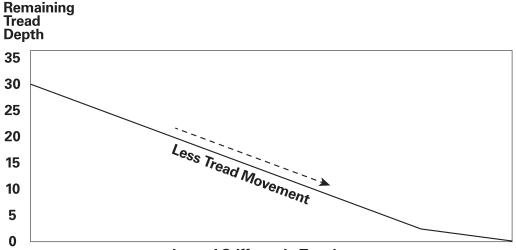
Note: Actual Size

OCTOBER 1995

TECHNICAL BULLETIN

REF. NO. T9502TI

Extra-Deep-Tread Tires' **Lateral Stiffness Effects**



Lateral Stiffness in Tread

any drivers are aware of the feel of the trucks used on a daily basis in fleets, and are sometimes sensitive to the ride dynamics of fitment changes of new tire designs on the vehicle.

One of the sensations drivers notice is a side-to-side motion. This motion is the byproduct of what is commonly referred to as lateral stiffness.

The lateral stiffness of a tire is due in large part to inflation pressure, as well as the tire's tread depth. Both of these factors vary over time. Reduced inflation pressure and deeper tread depth results in lower lateral stiffness.

Therefore, some users may comment on experiencing a slight swaying with newly installed extra-deep-tread drive tires, especially under full load or after replacing worn drive tires.

The sensation the driver feels is the lateral stiffness effect of the extra-deeptread drive tire compared to the worn tire being replaced and does not affect traction or warrant any concerns.

The lateral stiffness improves quickly as the tread wears and a driver will become accustomed to the initial difference in sensation.

OCTOBER 1995

TECHNICAL BULLETIN

REF. NO. T9501X

Bridgestone Firestone Chassis Dynamometer Test Guidelines for Truck/Bus Tires

I. Background

Vehicle manufacturers and many maintenance facilities conduct in-place vehicle testing on twin-roll chassis dynamometers. Testing is usually conducted over a short period of time on empty vehicles. If the following procedure is not adhered to, irreversible damage may occur to the tire.

II. Procedure

To prevent excessive head buildup in the center of the tire tread, follow the recommended time period based on roller diameter as listed below:

Maximum Allowable T	ime by Roller Diameter
8-5/8″ Roller	18″ Roller
3.5 minutes	6 minutes

Maximum Allowable Speed is 55 mph.

Load: These time restrictions apply regardless of the actual load and are, in fact, more critical when the vehicle is tested without a load.

III. Precautions

To avoid the possibility of irreversible tire damage and/or failure during testing, it is important that the following precautions be taken:

- Do not exceed the time and speed restrictions listed in part II.
- Allow at least one hour cool down between tests.
- · When it is anticipated that a test will exceed the time/test value established, a worn or "slave" tire should be used in place of the new tire for testing purposes.

Questions regarding test procedures, loads, etc. should be directed to your Regional Field Engineering Office.



Example of Dyno Damage

JANUARY 2008

90

TECHNICAL BULLETIN

TB-2008-001 (Replaces TB-95-002)

Aftermarket Tire Products & Additives in Truck/Bus Tires

Bridgestone Firestone does not endorse or prohibit the us of aftermarket tire products. The use of internally applied additives for balance, sealing, cooling, or any other alleged tire performance enhancement in Bridgestone or Firestone brand truck/bus tires will not void the Limited Warranty unless an inspection of the tires reveals damage related to the use of the additive.

OCTOBER 1991

TECHNICAL BULLETIN

REF. NO. G-008-X

Aerosol Tire Sealer/Inflators

Aerosol tire sealer/inflators have been used by large numbers of motorists each year and an undetermined number of tires now on the road, which have been filled with these devices, may have combustible gases in their air chambers.

Please read carefully and make sure all your employees read the attached publications that have been approved and distributed by the Rubber Manufacturers Association and the National Highway Safety Administration.

TIRE OR RIM REPAIR SAFETY BULLETIN

FACTS YOU SHOULD KNOW...



It is difficult to determine whether a tire has been inflated with a flammable aerosol type tire sealer/ CARL inflator. Therefore, if your establishment repairs or works on rims or on pressurized, rim-mounted

tires, you should handle all of them as if they contain a flammable tire sealer-inflator.

The gases in the sealer/inflator, which can be poisonous, are combustible inside the tire. An explosion can occur if ANY ignition source is present. Even the insertion of a plug into a steel-belted tire could cause an explosion!



Proper safety precautions to avoid ignition of flammable gases MUST be followed during the repair or maintenance of ALL tires or rims.

Failure to follow these precautions and procedures may result in serious or even fatal injury.

PRECAUTIONS YOU SHOULD TAKE...



All tires should be handled as if a flammable tire sealer has been used. Do not rely upon the customer, even if he advises you that one has not

been used. Customers may neglect to tell you or even may have forgotten they used a sealer/inflator.



Always make sure that the repair area is wellventilated so that any gases that are present will not accumulate.



Never weld or use a cutting torch on a wheel or rim without first completely removing the tire from the rim. Otherwise, explosions resulting

in possible serious or fatal injury can occur, even in the absence of flammable sealer/inflator.



Do not use a tire rasp, plug or any object which could cause sparks on a tire or rim without first completely removing the tire from the rim.

These ignition sources could lead to an explosion.



Do not permit smoking or any flame, spark or other ignition source in the area where tires or rims are being kept.



Never add air to a tire treated with a flammable sealer/inflator without completely removing the flammable gas. Air added to a tire containing

flammable gas may make it more explosive.

BEFORE BEGINNING REPAIRS OR SERVICE ON ANY RIM OR TIRE, YOU SHOULD ALWAYS **FOLLOW THESE SAFETY PROCEDURES:**

Remove the valve stem completely to release the tire pressure in a well-ventilated area, away from sparks or other ignition sources.

After the pressure has been released and before making any repairs, remove the tire from the wheel rim.



If you believe a sealer/inflator has been used, wash the inside of the tire with a detergent/water solution and rinse thoroughly. Allow the tire to

dry before repairs are made.

BRIDGESTONE FIRESTONE NORTH AMERICAN TIRE COMPANY, LLC Brigestone Technical Hotline 1-800-847-3272

OCTOBER 1991

TECHNICAL BULLETIN

REF. NO. G-008-X



Office of the Assistant Secretary for Public Affairs Washington D.C. 20590

CONSUMER ADVISORY FOR IMMEDIATE RELEASE Tuesday, September 24, 1991

NHTSA 49-91

Contact: Skipp Calvert Barry McCahill

Tel. No.: (202) 366-9550

NHTSA WARNS ABOUT HAZARDS OF FIXING TIRES FILLED WITH AEROSOL INFLATORS

The National Highway Traffic Safety Administration (NHTSA) today cautioned motorists and urged workers at service stations and auto and tire repair shops to be careful while fixing tires that have been filled with aerosol inflators.

According to NHTSA Administrator Jerry Ralph Curry, many of the aerosol inflators contain a flammable propellant that can cause an explosion under certain circumstances. "People in the tire repair business especially should be aware of the hazard and take precautions to reduce the risk of an explosion," he said.

Aerosol inflators, marketed under various brand names, are widely sold to the public for temporarily fixing tires that have gone flat because of slow leaks and small punctures, Curry said.

He said that despite flammability warnings on the cans and instructions for safe use, many consumers may be unaware of the potential danger. "Aerosol flat tire fixes should be considered as emergency, temporary repairs and used with caution. It is always preferable to have the tire repaired professionally or replaced.

"After filling a tire with an aerosol inflator, don't expose the tire to extreme heat, flames, sparks or other ignition sources. Be careful using metal tools like tire irons, metal reamers and hammers because they could cause sparks while being used to repair a tire," Curry said.

He noted that because aerosol inflators are used so commonly, consumers and service personnel should assume a tire may have been repaired previously with an aerosol product. "Before starting to fix a tire, remove the valve core and completely deflate the tire to eliminate as much of the aerosol propellant as possible. Then, inflate and deflate the tire a few times to completely remove all traces of the potentially explosive propellant. Once this is done, you may repair the tire without risk of explosion," Curry said.

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JUNE 1991

TECHNICAL BULLETIN

REF. NO. G-004-X

Innertube Storage

nnertubes should always be stored in a sealed enclosure. If the seal is damaged or broken, reseal the enclosure or repackage the affected tubes to prevent premature ozone crack damage on tubes. Exposure to weather, open doors, sunlight, electric motors and fans can cause premature aging of the rubber compound, especially when folded. In addition, tubes stored in tires can be similarly affected if unprotected by a flap or rim.

Tubes with ozone crack damage should be replaced. Do not place these in service.

AUGUST 1991

TECHNICAL BULLETIN

REF. NO. T9106PD

Mismatching Tire Bead & Rim Diameters

here is danger in installing a tire of one rim diameter on a rim of a different rim diameter.

Always replace a tire on a rim with another tire of exactly the same rim diameter designation and suffix letter.

For example a 16" tire goes with a 16" rim. **Never** mount a 16" size diameter tire on a 16.5" rim. While it is possible to pass a 16" diameter tire over the lip or flange of a 16.5" size rim diameter, it cannot be inflated enough to position itself against the rim flange. If an attempt is made to seat the tire bead by inflation, the tire bead will break with explosive force and could cause serious injury or death.

Various materials have been published on the importance of properly matching tire bead and rim diameters prior to attempting to mount the assembly. Listed below is a sampling of that material.

Bridgestone:

1. Technical Bulletin #T9104TD

Sec. V Tire and Rim **Matching Importance**

Remember the importance of proper matching of tires and rims. In particular, special care must also be used in the mounting of any 16" diameter tire sizes, as well as the 15.5" and 17.5" sizes. The 16" size tire must be mounted only

on the approved 16" rims and not the 15.5" or 16.5" rims. In addition, any 15" size tire must be mounted only on approved 15" rims not on the 15.5" rim and any 17" size tire must be mounted only on approved 17" rims not on the 17.5" rim.

If mounting of a 15" diameter tire is attempted on a 15.5" rim, or a 16" tire is attempted to be mounted on a 16.5" rim, or a 17" tire is attempted to be mounted on a 17.5" rim, serious injury or death may result.

2. Tire Label Safety Warning **Safety Warning**

- · Serious injury or death may result from an explosion of tire/rim assembly due to the use of excessive pressure during mounting.
- Never exceed 40 psi (275 kpa) to seat beads. After beads are seated, adjust inflation to pressure recommended by vehicle manufacturer.
- During tire inflation, always have assembly secured, stand clear, and use remote controlled clip on air hose.
- Only specially trained persons should mount tires.
- Mount only on 16 inch* diameter rims.

*Warning: Varies by tire size.

1/3 continues >>>

AUGUST 1991

TECHNICAL BULLETIN

REF. NO. T9106PD

3. Molded Sidewall Safety Warning **Safety Warning: Serious Injury** may result from:

- Tire failure due to inflation/overloading follow owner's manual or tire placard in vehicle.
- Explosion of tire/rim assembly due to improper mounting — never exceed 40 psi (275 kpa) to seat beads — mount only 16 inch diameter rims* – only specially trained persons should mount tires.

Rubber Manufacturer Association (RMA)

1. Care and Service of Automobile and Light Truck Tires *

* Copies from the RMA material can be ordered from: **Rubber Manufacturers Association** 1400 K Street N.W. Washington, D.C. 20005

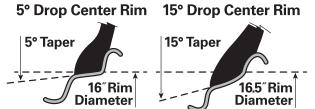
WARNING

There is danger in installing a tire of one rim diameter on a rim of a different diameter.

Always replace a tire on a rim with another tire of exactly the same rim diameter designation and suffix letter.

For example a 16" tire goes with a 16" rim. Never mount a 16" size diameter tire on a 16.5" rim. While it is possible to pass a 16" diameter tire over the lip or flange of a 16.5" size rim diameter, it cannot be inflated enough to position itself against the rim flange. If an attempt is made to seat the tire bead by inflation, the tire bead will break with explosive force and could cause serious injury or death.

Rims of a different diameter and tapers cannot be interchanged. The following diagram illustrates the difference between rims of two different tapers and diameters:



The following diagram shows how the beads of a 16" tire will not seat on a 16.5" rim. The beads cannot be forced out against the rim flanges by using more air pressure, because this will break the beads and the tire will explode.



Mismatching Tire Bead & Rim Diameters 2/3 continues >>>

^{*}Warning: Varies by tire size.

AUGUST 1991

TECHNICAL BULLETIN

REF. NO. T9106PD

WARNING

Never inflate beyond 40 pounds pressure to seat beads.

Never stand, lean or reach over the assembly during inflation.

Inspect both sides of the tire to be sure that the beads are evenly seated. If tire mounted on a machine that does not have a positive lock-down devices to hold the wheel, inflation should be done in a safety cage. If both beads are not properly seated when pressure reaches 40 pounds, completely deflate the assembly, reposition the tire and/or tube on the rim, relubricate and reinflate. Inflating beyond 40 pounds air pressure when trying to seat the bead is a DANGEROUS PRACTICE that may break a tire bead (or even the rim) with explosive force, possibly resulting in serious injury or death. After the beads are fully seated, pressure may be increased above 40 psi to operating pressures, not to exceed the maximum labeled on the tire sidewall.

WARNING

Serious Injury May Result From:

- Tire failure due to underinflation/ overloading - follow owner's manual or tire placard in vehicle;
- Explosion of tire/rim assembly due to improper mounting - only specially trained persons should mount tires.
- WARNING

Tire changing can be dangerous and should be done by trained personnel using proper tools and procedures. Always read and understand any manufacturer's warning contained in their customer's literature or molded into the tire sidewall.

Failure to comply with these procedures may result in faulty positioning of the tire and/or rim parts, and cause the assembly to burst with explosive force, sufficient to cause serious physical injury or death. Never mount or use damaged tires or rims.

- 2. "Demounting and Mounting Procedures for Automobile Tires" (Wallchart)*
- 3. "Tire Replacement Guide for Light Trucks" (Wallchart)*

Consumer Inquires:

If questioned by a consumer on this matter, it is recommended that you stress the following areas:

- 1. Bridgestone tires are designed with adequate strength to withstand mounting and demounting stresses when correctly matched to rims of the correct diameter.
- 2. All Bridgestone 16" and 16.5" tires carry a safely warning permanently molded into the tire sidewall which directs trained personnel to mount only the approved matching rim (example: "Mount only on 16 inch diameter rims.")*

*Warning: Varies by tire size.

Mismatching Tire Bead & Rim Diameters 3/3

DECEMBER 1990

TECHNICAL BULLETIN

REF. NO. T9101TD

Mounting Tubeless Truck Tires

Lubricate Rubber

Proper mounting practices are mandatory to help ensure uniform tire/wheel assemblies for application to heavy duty trucks which use 22.5 and 24.5 bead diameter tubeless truck tires. Failure to follow the industry recommendations for mounting uniformity may result in improper tire bead/wheel fit and can lead to vehicle vibration and irregular tire wear.

Bridgestone recently conducted a tire mounting study involving tubeless tires of different brands, aspect ratios and bead diameters on new and used steel and aluminum wheels. Bridgestone tires included in this study were R299, R194-LP, R293 and R194 designs.

Results of the evaluation showed that regardless of the item combination checked, uniform assemblies were obtained when the following three practices were performed:

- 1. Clean the wheel or rim
- 2. Lubricate the tire and beads AND WHEEL/RIM BEAD SEAT
- 3. Check the assembly for concentricity

1. A used wheel/rim should be cleaned by wire brushing to remove rust, scale and build-up. Painting the cleaned metal with primer or anti-rust paint is recommended.

2. Before assembling tire and wheel/rim, lubricate tire beads and wheel/rim seat with a vegetable oil-based lubricant formulated for tire and wheel/rim use. Do not use petroleum- or solvent-based products, as they cause rubber deterioration.

Failure to lubricate the wheel/rim as well as the tire can lead to a non-uniform assembly.

The best initial balance is obtained by matching the tire's light spot (marked by a yellow dot or circle) at the wheel/rim valve.

3. To check the assembly for concentricity of a tire and wheel/rim, measure the distance between the tire-flange interface and the circumferential ring molded into the

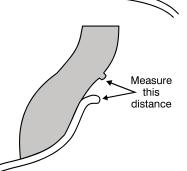
tire sidewall at four locations (90 degrees apart) around the tire-flange circumference. Distances measured should be within a 2/32" (1.5 mm) range for acceptable uniformity. If the ranges in distance within the same side of the tire are greater than this, break down assembly. re-lubricate and remount the tire.

Following these practices will reduce vehicle vibration and irregular wear occurrences. The first step in investigating these types of complaints should be the measurement of tire and wheel/rim concentricity to determine if non-uniform mounting is present, and the probable cause. If so,

break down assembly, re-lubricate tire and wheel and remount tire.

Lubricate

Metal



REMEMBER: CLEAN! LUBRICATE! CHECK! AND ALWAYS FOLLOW ALL OSHA, RMA, AND MANUFACTURER **MOUNTING SAFETY PRECAUTIONS!**

BRIDGESTONE FIRESTONE NORTH AMERICAN TIRE COMPANY, LLC Brigestone Technical Hotline 1-800-847-3272

DECEMBER 1987

TECHNICAL BULLETIN

REF. NO. T8701GD

Steam Cleaning Tires

CAUTION: Steam cleaning can damage a tire and render it unserviceable.

At many businesses throughout the United States, it is common practice to use "steam cleaning equipment" to wash trucks and tires.

Nozzle temperature on steam cleaning equipment typically reaches 280°F.

When a steam cleaning nozzle is held too close to the sidewall of a tire for as short a time as 45 seconds, a small spongy blister may appear on the sidewall. When this blister is cut open, one will observe reverted rubber resulting from the excessive localized heat.

Steam cleaning of tires can be harmful to tires when the nozzle is concentrated in one spot for a period of time.

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2013 MEDIUM TRUCK TIRE COMPARISON GUIDE



FS591 pg 6 Fuel-Efficient Premium Steer Radial

Premium long & regional haul all-position steer featuring a proprietary shoulder design with the Equalizer Rib[™] and Defense Groove[™] designs to combat the initiation and spread of irregular wear.

EPA SmartWay® verified and CARB compliant.

Replaces:

Continental **HSL2** Yokohama 101ZL, RY617



FS590 PLUS pg 8

Premium Steer Radial

Top-of-the-line all-position steer tire for long haul, regional haul and pickup & delivery. Features ULTI-Rib™ irregular wear reduction.

Replaces:

Continental HSL2 Yokohama 101ZL, RY617



FS507 PLUS pg 9

Fuel-Efficient Steer Radial with Low-Profile Version

All-position tire for long haul and regional haul service with low rolling resistance design.

EPA SmartWay® verified and CARB compliant.

Replaces:

Continental HSL2 Yokohama 101ZL, RY617



FS560 PLUS pg 11 Premium Steer Radial with Low-Profile & Modified Versions

All-position tire for use in urban, high-scrub service in pickup & delivery and regional haul applications.

Replaces:

Continental **HSR2** Yokohama RY023, 103ZR



FD691 pg 12 Fuel-Efficient Premium Drive Radial

Premium long and regional haul radial designed for tandem- and single-drive axle applications. Special cap and sidewall compounds and construction improves life of tread.

EPA SmartWay® verified and CARB compliant.

Continental HDL2 Eco Plus Yokohama 703ZL



FD695 PLUS pg 14 Fuel-Efficient Premium Drive Radial

Premium deep-tread drive with innovative low rolling resistance design and cool-running casing provides long tread life and superb fuel economy in long haul and regional haul service.

EPA SmartWay® verified and CARB compliant.

Replaces:

Continental HDL2 Eco Plus Yokohama 703ZL, TY557



FD690 PLUS pg 15 Premium Drive Radial

Ultra-deep, 29/32" drive tire that provides excellent traction in long haul, regional haul and pickup and delivery service.

Replaces:

Continental HDL2 DL Yokohama 703ZL, TY557



FD663 pg 17

Drive Radial

Deep-tread drive with slotted shoulders for excellent traction and high mileage in every type of hauling.

Replaces:

Continental HDR1 Yokohama SY767, TY303



FT491 pg 18 Fuel-Efficient Premium All-Position Radial

Premium radial suitable for all-position but designed for single- and tandem-axle trailer. Features Equalizer Rib[™] and Defense Groove[™] designs that combat irregular wear.

EPA SmartWay® verified and CARB compliant.

Replaces:

Continental HTL Eco Plus Yokohama RY587

2013 MEDIUM TRUCK TIRE COMPARISON GUIDE



FT455 PLUS

Fuel-Efficient All-Position Radial

Premium all-position rib pattern optimized for long, even wear on free-rolling axles in all types of service. Ultra-low rolling resistance design.

EPA SmartWay® verified and CARB compliant.

Replaces:

Continental HTL2 Eco Plus Yokohama RY587



FS400 pg 22

All-Position Radial

Ideal for on-highway intercity bus service requiring very heavy load capacity, and ultra-quiet ride.

Replaces:

Continental HSL1 Coach



FD600 pg 23

Drive Radial

Ideal for on-highway drive-axle intercity bus service requiring very heavy load capacity and superior traction in adverse conditions.

Replaces:

Continental HDR2



All-Position Radial

Designed for both on-highway and urban use, the XR4 employs a three-rib design with zig-zag grooves for long, even wear on all positions.

Replaces:

Continental LSR1



..... pg 26

FS820

On/Off-Highway All-Position Radial

Rugged five-rib design with tough cap/base compound that resists cuts for extra durability. Stone rejecter platforms protect the belts and improve retreadability.

Replaces:

Continental HSC1

Yokohama MY507, 501ZA



T819 pg 27

On/Off-Highway All-Position Radial

Rugged, four-rib on/off-highway all-position radial, featuring cut-resistant compounds for long tread life.

Replaces:

Continental **HSC1**

Yokohama MY507, 501ZA



..... pg 28

On/Off-Highway Drive Radial

A deep-tread on/off-highway drive tire offering excellent mileage, high traction and irregular wear resistance.

Replaces:

Continental HDC

Yokohama LY053



FD835 pg 29

On/Off-Highway Drive Radial

Deep tread on/off-highway drive radial offers super-tough tread compound for extra durability in severe-service applications.

Replaces:

Continental HDC

Yokohama LY053



T839 pg 31

On/Off-Highway

All-Position Wide Base Radial A wide base, deep tread on/off-highway drive that delivers solid traction, high flotation and

Replaces:

long tread life.

Continental HTC1

Yokohama MY507A, RY253

FIRESTONE TECHNICAL SERVICE (800) 847-3272



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201 Bridgestone Pkwy Lebanon, TN 37090

Home Office (615) 937-1000 535 Marriott Drive Nashville, TN 37214



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