

**Starfire**<sup>®</sup>  
**TIRES**

# 2019 PRODUCT MANUAL

**MID-YEAR UPDATE**



**QUALITY AND VALUE**

**CAR / SUV / PICKUP TRUCK / WINTER TIRES**

# **Starfire** TIRES 2019 PRODUCT LINE

## **CAR TIRES**



WR™



Solarus AS™

## **SUV / PICKUP TRUCK TIRES**



Solarus HT™



Solarus AP™

## **WINTER TIRES**



RS-W 5.0™



RS-W 7.0™





**STANDARD LIMITED WARRANTY**  
**40,000 MILE / 64,000 KM WARRANTY**  
**ASYMMETRICAL DESIGN**  
**PERFORMANCE**

The WR™ is an entry level all-season performance tire with a specially tuned, modern asymmetric tread design and stylized sidewall. The WR™ features a silica-infused tread compound coupled with a robust internal construction to give the customer a responsive, yet comfortable ride at an affordable price.

**Fitments:**

Mustang, Civic, Golf GTI

**UTQG**

TREADWEAR	TRACTION	TEMP.
380	A	A

**M+S Rated**

**ADVANCED TECHNOLOGY MOLD PROFILE**

Advanced technology mold profile provides for a square tread footprint which means more tread-to-road contact.

**ASYMMETRIC TREAD PATTERN**

Advanced 5-rib asymmetric tread pattern design reduces irregular wear by allowing tires to be rotated from one side of the car to the other. The result is sustained tire performance with even wear, less noise and increased overall tread life. The asymmetric pattern also allows the outside of the tread pattern to be tuned for dry handling and traction while the inside is optimized for wet and light snow conditions.

**CIRCUMFERENTIAL GROOVES**

Four, wide circumferential grooves provide superior hydroplaning resistance.

**M+S RATING**

Provides excellent year-round, all-season performance.

**SILICA-INFUSED TREAD COMPOUND**

The tread compound of the Starfire WR™ is infused with silica. The silica, in conjunction with the tread design features, leads to a better balance of all-weather performance.

**VARIABLE PITCH TREAD**

Computer designed to provide a quiet-running tire at highway speeds.

**ALWAYS CONSULT AND FOLLOW THE VEHICLE MANUFACTURER REPLACEMENT TIRE RECOMMENDATIONS AND WARNINGS.**

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Visit [cooperworld.net](http://cooperworld.net) for up-to-date spec information.



**WR™**

**Starfire®**  
TIRES

**CAR Performance**

Wheel Diam.	Material #	Sidewall Style	Tire Size, Load Range & Service Description	Approved Rim Widths	Max PSI	Max. Load	Overall Diam.	Sect. Width	Rev. Per Mile	Tread Depth (32 <sup>nds</sup> )	Ship Wt. (lbs.)	Ship Wt. (kg.)	UPC
16"	90000022297	BLK	205/50R16 87W	(6.5) 5.5-7.5	51	1201	24.13	8.4	859	10.5	21	9.4	029142815242
	90000022219	BLK	225/50R16 92W	(7.0) 6.0-8.0	51	1389	24.92	9.2	832	10.5	25	11.3	029142814412
	90000022167	BLK	245/50R16 97W	(7.5) 7.0-8.5	51	1609	25.71	10.0	806	10.5	28	12.5	029142813958
	90000022168	BLK	205/55R16XL 94W	(6.5) 5.5-7.5	50	1477	24.88	8.4	833	10.5	22	9.8	029142813965
	90000022169	BLK	215/55R16 93W	(7.0) 6.0-7.5	51	1433	25.28	8.9	820	10.5	22	10.0	029142813972
	90000022270	BLK	225/55R16 95W	(7.0) 6.0-8.0	51	1521	25.75	9.2	805	10.5	24	11.0	029142813989
17"	90000022271	BLK	245/40R17 91W	(8.5) 8.0-9.5	51	1356	24.76	9.8	837	10.5	25	11.3	029142813996
	90000022272	BLK	215/45R17XL 91W	(7.0) 7.0-8.0	50	1356	24.65	8.4	841	10.5	22	10.1	029142815006
	90000022273	BLK	225/45R17XL 94W	(7.5) 7.0-8.5	50	1477	25.00	8.9	829	10.5	23	10.7	029142815013
	90000022274	BLK	235/45R17 94W	(8.0) 7.5-9.0	51	1477	25.39	9.3	816	10.5	25	11.5	029142815020
	90000022275	BLK	245/45R17 95W	(8.0) 7.5-9.0	51	1521	25.75	9.6	805	10.5	26	11.7	029142815037
	90000022276	BLK	205/50R17XL 93W	(6.5) 5.5-7.5	50	1433	25.12	8.4	825	10.5	22	10.1	029142815044
	90000022277	BLK	225/50R17XL 98W	(7.0) 6.0-8.0	50	1653	25.91	9.2	800	10.5	24	10.9	029142815051
	90000022278	BLK	235/55R17 99W	(7.5) 6.5-8.5	51	1709	27.17	9.6	763	10.5	29	13.3	029142815068
18"	90000022279	BLK	225/40R18XL 92W	(8.0) 7.5-9.0	50	1389	25.12	9.1	825	10.5	24	10.9	029142815075
	90000022290	BLK	235/40R18XL 95W	(8.5) 8.0-9.5	50	1521	25.39	9.5	816	10.5	24	10.9	029142815082
	90000022291	BLK	245/40R18XL 97W	(8.5) 8.0-9.5	50	1609	25.75	9.8	805	10.5	26	11.7	029142815099
	90000022292	BLK	215/45R18XL 93W	(7.0) 7.0-8.0	50	1433	25.67	8.4	808	10.5	23	10.4	029142815204
	90000022293	BLK	225/45R18XL 95W	(7.5) 7.0-8.5	50	1521	25.98	8.9	798	10.5	25	11.3	029142815211
	90000022294	BLK	245/45R18 96W	(8.0) 7.5-9.0	51	1565	26.73	9.5	776	10.5	27	12.2	029142815228
	90000022295	BLK	235/50R18 97W	(7.5) 6.5-8.5	51	1609	27.28	9.6	760	10.5	27	12.2	029142815235



**STANDARD LIMITED WARRANTY  
50,000 MILE / 80,000 KM WARRANTY  
ALL-SEASON TOURING**

Designed for the consumer that just wants a good deal on a great tire, the Solarus AS™ has been optimized for all-season performance for cars and CUVs. It's ideal for people looking for plenty of miles, good traction and fuel economy.

**Fitments:**

Toyota Camry, Ford Escape, Honda Accord, Chrysler Pacifica

**UTQG**

	TREADWEAR	TRACTION	TEMP.
V / H-RATED	520	A	A
T-RATED	520	A	B

**M+S Rated**

**ADVANCED ALL-SEASON TREAD DESIGN**

When compared to the previous Starfire products the tread compound and tread profile have been enhanced to provide all-season traction in wet, dry and winter conditions while giving the driver plenty of miles.

**DEEP, LATERAL SHOULDER SLOTS**

This design uses lateral slots in the shoulder to help ensure excellent traction throughout the life of the tire.

**SHOULDER SIPE TECHNOLOGY**

Sipes in the shoulders and intermediate tread rows have carefully placed deep sections that provide biting edges for all-weather performance while maintaining tread block stability for handling for the life of the tire.

**SOLID CENTER RIB**

Provides a smooth ride and controlled handling.

**VARIABLE PITCH TREAD**

Computer-designed to reduce noise, the different sized elements work to provide a quiet-running tire at highway speeds.

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# Solarus AS™



CAR All-Season Touring

Wheel Diam.	Material #	Sidewall Style	Tire Size, Load Range & Service Description	Approved Rim Widths	Max PSI	Max. Load	Overall Diam.	Sect. Width	Rev. Per Mile	Tread Depth (32 <sup>nds</sup> )	Ship Wt. (lbs.)	Ship Wt. (kg.)	UPC
14"	90000034441	BLK	185/60R14 82H	(5.5) 5.0-6.5	44	1047	22.76	7.4	911	9.5	21	9.4	029142922971
	<b>90000034440</b>	<b>BLK</b>	<b>175/65R14 82H</b>	<b>(5.0) 5.0-6.0</b>	<b>44</b>	<b>1047</b>	<b>22.95</b>	<b>6.9</b>	<b>903</b>	<b>9.0</b>	<b>15</b>	<b>6.9</b>	<b>029142922964</b>
	90000034442	BLK	185/65R14 86H	(5.5) 5.0-6.5	44	1168	23.46	7.4	884	9.5	21	9.4	029142922988
	90000034443	BLK	185/70R14 88H	(5.5) 4.5-6.0	44	1235	24.21	7.4	856	9.0	17	7.7	029142922995
	90000034277	BLK	195/70R14 91T	(6.0) 5.0-6.5	44	1356	24.76	7.8	837	9.0	18	8.2	029142922131
90000034278	BLK	205/75R14 95T	(5.5) 5.0-7.0	44	1521	25.94	8.0	799	9.0	19	8.5	029142922148	
15"	90000034444	BLK	185/60R15 84H	(5.5) 5.0-6.5	44	1102	23.46	7.4	884	9.0	17	7.9	029142923305
	90000034446	BLK	195/60R15 88H	(6.0) 5.5-7.0	44	1235	25.47	8.2	814	9.5	17	7.9	029142923329
	90000034448	BLK	205/60R15 91H	(6.0) 5.5-7.5	44	1356	24.88	8.4	833	9.0	19	8.6	029142923343
	90000034450	BLK	215/60R15 94H	(6.5) 6.0-7.5	44	1477	24.69	8.2	840	9.0	22	9.8	029142923367
	90000034445	BLK	185/65R15 88H	(5.5) 5.0-6.5	44	1235	25.00	7.9	829	9.5	18	8.2	029142923312
	90000034447	BLK	195/65R15 91H	(6.0) 5.5-7.0	44	1356	24.21	7.9	856	9.5	18	8.1	029142923336
	90000034449	BLK	205/65R15 94H	(6.0) 5.5-7.5	44	1477	26.46	8.2	784	9.0	19	8.7	029142923350
	90000034451	BLK	215/65R15 96H	(6.5) 6.0-7.5	44	1565	25.16	8.7	824	9.0	22	9.8	029142923374
	90000034279	BLK	205/70R15 96T	(6.0) 5.0-7.0	44	1565	26.18	8.1	792	9.0	20	9.3	029142922155
	90000034321	BLK	215/70R15 98T	(6.5) 5.5-7.0	44	1653	26.89	8.6	771	9.0	22	9.9	029142922179
90000034320	BLK	205/75R15 97T	(5.5) 5.0-7.0	44	1609	27.01	8.0	768	9.0	20	9.2	029142922162	
90000034322	BLK	215/75R15 100T	(6.0) 5.5-7.0	44	1764	27.56	8.5	752	9.0	22	9.8	029142922186	
90000034323	BLK	235/75R15 105T	(6.5) 6.0-8.0	44	2039	28.62	9.1	724	9.0	25	11.3	029142922193	
16"	90000034360	BLK	205/55R16XL 94V	(6.5) 5.5-7.5	50	1477	24.88	8.4	833	9.0	22	10.2	029142922704
	90000034452	BLK	205/55R16XL 94H	(6.5) 5.5-7.5	50	1477	24.88	8.4	833	9.0	21	9.5	029142923381
	90000034455	BLK	215/55R16XL 97H	(7.0) 6.0-7.5	50	1609	25.28	8.9	820	9.0	21	9.4	029142923411
	90000034453	BLK	205/60R16 92H	(6.0) 5.5-7.5	44	1389	26.61	9.0	779	9.0	20	8.9	029142923398
	90000034324	BLK	215/60R16 95T	(6.5) 6.0-7.5	44	1521	26.14	8.7	793	9.5	20	9.2	029142922209
	90000034361	BLK	215/60R16 95V	(6.5) 6.0-7.5	44	1521	26.14	8.7	793	9.0	20	9.1	029142922711
	90000034457	BLK	225/60R16 98H	(6.5) 6.0-8.0	44	1653	28.62	9.0	724	9.0	21	9.7	029142923435
	90000034331	BLK	235/60R16 100T	(7.0) 6.5-8.5	44	1764	27.09	9.4	765	9.0	27	12.2	029142922278
	90000034454	BLK	205/65R16 95H	(6.0) 5.5-7.5	44	1521	24.88	8.4	833	9.0	20	9.2	029142923404
	90000034456	BLK	215/65R16 98H	(6.5) 6.0-7.5	44	1653	26.97	8.7	769	9.0	22	9.9	029142923428
	90000034329	BLK	225/65R16 100T	(6.5) 6.0-8.0	44	1764	27.48	9.0	754	9.0	23	10.5	029142922254
	90000034326	BLK	235/65R16 103T	(7.0) 6.5-8.5	44	1929	28.03	9.4	740	9.0	25	11.2	029142922223
	90000034325	BLK	215/70R16 100T	(6.5) 5.5-7.0	44	1764	27.80	8.4	746	9.0	23	10.6	029142922216
90000034330	BLK	225/70R16 103T	(6.5) 6.0-7.5	44	1929	28.43	9.0	729	9.0	27	12.4	029142922261	
17"	90000034362	BLK	215/50R17XL 95V	(7.0) 6.0-7.5	50	1521	25.51	8.9	813	9.0	23	10.6	029142922728
	90000034364	BLK	225/50R17 94V	(7.0) 6.0-8.0	44	1477	25.91	9.2	800	9.0	23	10.4	029142922742
	90000034363	BLK	215/55R17 94V	(7.0) 6.0-7.5	44	1477	26.30	8.9	788	9.0	22	9.9	029142922735
	90000034365	BLK	225/55R17 97V	(7.0) 6.0-8.0	44	1609	26.77	9.2	774	9.0	26	11.9	029142922759
	90000034460	BLK	235/55R17 99H	(7.5) 6.5-8.5	44	1709	27.17	9.6	763	9.0	27	12.3	029142923466
	90000034332	BLK	215/60R17 96T	(6.5) 6.0-7.5	44	1565	27.17	8.7	763	9.0	23	10.2	029142922285
	90000034458	BLK	225/60R17 99H	(6.5) 6.0-8.0	44	1709	27.64	9.0	750	9.0	26	11.9	029142923442
	90000034463	BLK	235/60R17 102H	(7.0) 6.5-8.5	44	1874	28.11	9.4	738	9.0	28	12.5	029142923497
	90000034327	BLK	215/65R17 99T	(6.5) 6.0-7.5	44	1709	28.03	8.7	740	9.0	24	10.9	029142922230
	90000034459	BLK	225/65R17 102H	(6.5) 6.0-8.0	44	1874	28.46	9.0	728	9.0	34	15.7	029142923459
	90000034328	BLK	235/65R17 104T	(7.0) 6.5-8.5	44	1984	29.06	9.4	714	9.0	26	11.8	029142922247
90000034333	BLK	245/65R17 107T	(7.0) 7.0-8.5	44	2149	29.53	9.6	702	9.0	31	14.3	029142922292	
18"	90000034366	BLK	225/45R18 91V	(7.5) 7.0-8.5	44	1356	25.94	8.9	799	9.0	26	12.0	029142922766
	90000034367	BLK	235/45R18 94V	(8.0) 7.5-9.0	44	1477	26.34	9.3	787	9.0	27	12.2	029142922773
	90000034368	BLK	235/50R18 97V	(7.5) 6.5-8.5	44	1609	27.28	9.6	760	9.0	26	11.7	029142922780
	90000034461	BLK	225/55R18 98H	(7.0) 6.0-8.0	44	1653	27.76	9.1	747	9.0	26	11.8	029142923473
	90000034369	BLK	235/55R18 100V	(7.5) 6.5-8.5	44	1764	28.15	9.6	737	9.0	26	11.9	029142922797
	90000034462	BLK	225/60R18 100H	(6.5) 6.0-8.0	44	1764	28.62	9.0	724	9.0	27	12.4	029142923480
90000034464	BLK	235/60R18 103H	(7.0) 6.5-8.5	44	1929	29.17	9.4	711	9.0	29	13.0	029142923503	

New size - available summer 2019



**STANDARD LIMITED WARRANTY  
50,000 MILE / 80,000 KM WARRANTY  
HIGHWAY TOURING**

Designed for even treadwear and a quiet ride over the life of the tire, with excellent all-season traction and best-in-class 50K warranty.\* Comes with a full range of pickup sizes from light-duty hard metric to heavy-duty LT.

**Fitments:**

Various SUVs, CUVs and pickup trucks

**UTQG**

	TREADWEAR	TRACTION	TEMP.
SUV SIZES	500	A	A

**M+S Rated**

**EVEN WEAR TREAD PATTERN**

Concise, symmetric 5-rib highway pattern improves even wear and lengthens tire life.

**WET GRIP GROOVES**

Four separate center grooves force water out of tire to improve wet traction and resist hydroplaning.

**TRACTION SIPES**

Full-depth jagged edges or "sipes" inserted throughout tread design increase wet/snow traction.

**NOISE DAMPENING GROOVES**

Grooves narrow between tread blocks limiting airflow to provide a quieter ride.

*\*Based on warranties disclosed on leading Value competitor websites (e.g. Milestar, GT Radial and Nexen)*

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**NEW!**

# Solarus HT™



**SUV / PICKUP TRUCK Highway Touring**

Wheel Diam.	Material #	Sidewall Style	Tire Size, Load Range & Service Description	Approved Rim Widths	Max PSI	Max. Load	Overall Diam.	Sect. Width	Rev. Per Mile	Tread Depth (32 <sup>nds</sup> )	Ship Wt. (lbs.)	Ship Wt. (kg.)	UPC
15"	90000035686	BLK	235/75R15 XL 109T	(6.5) 6.0-8.0	50	2271	28.62	9.3	724	10.5	27	12.3	029142932949
	90000035687	BLK	235/70R16 106T	(7.0) 6.0-8.0	44	2094	28.74	9.4	721	10.5	29	13.2	029142932956
16"	90000035688	BLK	245/70R16 107T	(7.0) 6.5-8.0	44	2149	29.33	9.8	707	10.5	32	14.6	029142932963
	90000035689	BLK	255/70R16 111T	(7.5) 6.5-8.5	44	2403	29.80	10.3	696	10.5	32	14.6	029142932970
	90000035720	BLK	265/70R16 112T	(8.0) 7.0-9.0	44	2469	30.24	10.8	686	10.5	34	15.6	029142932987
	90000035721	BLK	225/75R16 104T	(6.0) 6.0-7.5	44	1984	28.98	8.7	716	10.5	28	12.7	029142932994
	90000035735	BLK	LT225/75R16 E 115/112R	(6.0) 6.0-7.0	80	2680	29.25	8.6	709	13.5	34	15.3	029142933137
	90000035722	BLK	245/75R16 111T	(7.0) 6.5-8.0	44	2403	30.20	9.8	687	10.5	31	13.9	029142933007
	90000035736	BLK	LT245/75R16 E 120/116R	(7.0) 6.5-8.0	80	3042	30.31	9.6	684	13.5	38	17.3	029142933144
	90000035723	BLK	265/75R16 116T	(7.5) 7.0-9.0	44	2756	31.34	10.6	662	10.5	35	15.9	029142933014
	90000035737	BLK	LT265/75R16 E 123/120R	(7.5) 7.0-8.0	80	3415	31.50	10.6	658	13.5	41	18.6	029142933151
	90000035738	BLK	LT215/85R16 E 115/112R	(6.0) 5.5-7.0	80	2680	30.20	8.3	687	13.5	32	14.4	029142933168
	90000035739	BLK	LT235/85R16 E 120/116R	(6.5) 6.0-7.5	80	3042	31.50	9.3	658	13.5	37	16.6	029142933175
17"	90000035724	BLK	245/65R17 107T	(7.0) 7.0-8.5	44	2149	29.49	9.6	703	10.5	32	14.7	029142933021
	90000035725	BLK	265/65R17 112T	(8.0) 7.5-9.5	44	2469	30.39	10.6	682	10.5	36	16.3	029142933038
	90000035726	BLK	245/70R17 110T	(7.0) 6.5-8.0	44	2337	30.24	10.2	686	10.5	33	15.0	029142933045
	90000035727	BLK	265/70R17 115T	(8.0) 7.0-9.0	44	2679	31.34	10.6	662	10.5	37	17.0	029142933052
	90000035750	BLK	LT265/70R17 E 121/118R	(8.0) 7.0-8.5	80	3195	31.50	10.9	658	13.5	44	20.0	029142933182
	90000035751	BLK	LT245/75R17 E 121/118S	(7.0) 6.5-7.5	80	3195	31.54	10.0	657	13.5	43	19.4	029142933199
	90000035752	BLK	LT235/80R17 E 120/117R	(6.5) 6.0-7.5	80	3085	31.65	9.1	655	13.5	38	17.5	029142933205
18"	90000035641	BLK	245/60R18 105H	(7.0) 7.0-8.5	44	2039	29.69	9.6	698	10.5	33	15.2	029142932376
	90000035681	BLK	265/60R18 110T	(8.0) 7.5-9.5	44	2337	30.55	10.5	679	10.5	39	17.9	029142932598
	90000035731	BLK	235/65R18 106T	(7.0) 6.5-8.5	44	2094	30.08	9.4	689	10.5	35	15.9	029142933090
	90000035682	BLK	255/65R18 111T	(7.5) 7.0-9.0	44	2403	31.10	10.1	667	10.5	38	17.2	029142932901
	90000035683	BLK	265/65R18 114T	(8.0) 7.5-9.5	44	2601	31.50	10.7	658	10.5	40	18.4	029142932918
	90000035728	BLK	275/65R18 116T	(8.0) 7.5-9.5	44	2756	31.85	11.0	651	10.5	39	17.5	029142933069
	90000035684	BLK	255/70R18 113T	(7.5) 6.5-8.5	44	2535	32.09	10.2	646	10.5	39	17.6	029142932925
	90000035685	BLK	265/70R18 116T	(8.0) 7.0-9.0	44	2756	32.56	10.7	637	10.5	42	19.0	029142932932
19"	90000035730	BLK	245/55R19 103T	(7.5) 7.0-8.5	44	1929	29.69	9.8	698	10.5	33	15.2	029142933083
20"	90000035643	BLK	245/50R20 102H	(7.5) 7.0-8.5	44	1874	29.69	9.8	698	10.5	34	15.4	029142932390
	90000035644	BLK	255/50R20 XL 109H	(8.0) 7.0-9.0	50	2271	30.08	10.4	689	10.5	38	17.2	029142932802
	90000035642	BLK	275/55R20 XL 117H	(8.5) 7.5-9.5	50	2833	31.73	10.9	653	10.5	39	17.9	029142932383
	90000035729	BLK	275/60R20 115T	(8.0) 7.5-9.5	44	2679	32.87	10.9	631	10.5	40	18.1	029142933076

The SUV sizes of this new line will replace the SF-510™ in July 2019.

For dual max load and spacing, please call the Cooper Tire Consumer Relations Department for a proper fitment recommendation.



**STANDARD LIMITED WARRANTY  
50,000 MILE / 80,000 KM WARRANTY  
ALL-TERRAIN**

Able to capture fast-growing light All-Terrain market targeting consumers who drive mainly on pavement, but need occasional farm and/or dirt and gravel road capability. Comes in a broad range of fast-growing hard metric and LT tire sizes with large rim diameters.

**Fitments:**

Full-sized pickup trucks and various SUVs

**UTQG**

	TREADWEAR	TRACTION	TEMP.
SUV SIZES	500	A	A

**M+S Rated**

**ALL-PURPOSE CENTER BLOCKS**

Large sharp-angled tread blocks enhance traction on dirt paths and farmland, while still providing strong on-road performance.

**ANTI-HYDROPLANE GROOVES**

Wide grooves on each side help flush out water from the tire, improving wet traction and resistance to hydroplaning.

**ALL-SEASON SIPES**

Wet and snow traction strengthened via full-depth biting edges or "sipes".

**QUIET ZIG-ZAG PATTERN**

Zig-Zag tread pattern disrupts air flow through tread, reducing noise for a quiet ride.

**ALWAYS CONSULT AND FOLLOW THE VEHICLE MANUFACTURER REPLACEMENT TIRE RECOMMENDATIONS AND WARNINGS.**

Use the information on the vehicle placard and vehicle owner's manual to identify original equipment air pressure, tire size, speed rating and load carrying capacity. Cooper Tire reserves the right to change and improve construction, materials or specifications without notice or obligation. Please refer to the back of this book for important tire safety considerations and recommendations.

Visit [cooperworld.net](http://cooperworld.net) for up-to-date spec information.



# Solarus AP™



SUV / PICKUP TRUCK **All-Terrain**

Wheel Diam.	Material #	Sidewall Style	Tire Size, Load Range & Service Description	Approved Rim Widths	Max PSI	Max. Load	Overall Diam.	Sect. Width	Rev. Per Mile	Tread Depth (32 <sup>nds</sup> )	Ship Wt. (lbs.)	Ship Wt. (kg.)	UPC
15"	90000035487	BLK	235/75R15 XL 109T	(6.5) 6.0-8.0	50	2271	28.62	9.3	724	11.0	27	12.3	029142931294
	90000035614	BLK	LT235/75R15 C 104/101R	(6.5) 6.0-7.0	50	1985	28.86	9.3	718	14.0	32	14.6	029142932123
	90000035613	BLK	31X10.50R15LT C 109R	(8.5) 7.0-9.0	50	2270	30.51	10.6	680	14.0	38	17.2	029142932116
16"	90000035488	BLK	235/70R16 106T	(7.0) 6.0-8.0	44	2094	28.74	9.4	721	11.0	29	13.2	029142931508
	90000035489	BLK	265/70R16 112T	(8.0) 7.0-9.0	44	2469	30.24	10.8	686	11.0	34	15.6	029142931515
	90000035615	BLK	LT225/75R16 E 115/112R	(6.0) 6.0-7.0	80	2680	29.29	8.8	708	14.0	34	15.3	029142932130
	90000035500	BLK	245/75R16 111T	(7.0) 6.5-8.0	44	2403	30.20	9.8	687	11.0	31	13.9	029142931522
	90000035616	BLK	LT245/75R16 E 120/116R	(7.0) 6.5-8.0	80	3042	30.47	9.8	680	14.0	36	16.4	029142932147
	90000035501	BLK	265/75R16 116T	(7.5) 7.0-8.0	44	2756	31.34	10.6	662	11.0	35	15.9	029142931539
	90000035617	BLK	LT265/75R16 E 123/120R	(7.5) 7.0-9.0	80	3415	31.65	10.5	655	14.0	41	18.6	029142932154
90000035618	BLK	LT235/85R16 E 120/116R	(6.5) 6.0-7.5	80	3042	31.73	9.3	653	14.0	37	16.6	029142932161	
17"	90000035502	BLK	245/65R17 107T	(7.0) 7.0-8.5	44	2149	29.49	9.6	703	11.0	32	14.7	029142931546
	90000035503	BLK	245/70R17 110T	(7.0) 6.5-8.0	44	2337	30.24	10.2	686	11.0	33	15.0	029142931553
	90000035623	BLK	LT245/70R17 E 119/116S	(7.0) 6.5-8.0	80	3000	30.55	9.8	679	14.0	40	18.0	029142932215
	90000035504	BLK	265/70R17 115T	(8.0) 7.0-8.5	44	2679	31.34	10.6	662	11.0	37	17.0	029142931560
	90000035619	BLK	LT265/70R17 E 121/118R	(8.0) 7.0-9.0	80	3195	31.65	10.7	655	14.0	44	20.1	029142932178
	90000035626	BLK	LT285/70R17 E 121/118S	(8.5) 7.5-9.0	80	3195	32.76	11.5	633	14.0	49	22.3	029142932246
	90000035620	BLK	LT245/75R17 E 121/118S	(7.0) 6.5-7.5	80	3195	31.50	9.8	658	14.0	43	19.4	029142932185
90000035625	BLK	LT235/80R17 E 120/117R	(6.5) 6.0-7.5	80	3085	31.81	9.3	652	14.0	38	17.5	029142932239	
18"	90000035485	BLK	265/60R18 110T	(8.0) 7.5-9.5	44	2337	30.55	10.5	679	11.0	39	17.9	029142931270
	90000035486	BLK	265/65R18 114T	(8.0) 7.5-9.5	44	2601	31.50	10.7	658	11.0	40	18.4	029142931287
	90000035505	BLK	275/65R18 116T	(8.0) 7.5-9.0	44	2756	31.85	11.0	651	11.0	39	17.5	029142931577
	90000035622	BLK	LT275/65R18 E 123/120S	(8.0) 7.5-9.5	80	3415	32.09	11.0	646	14.0	49	22.2	029142932208
	^ 90000035624	BLK	LT265/70R18 E 124/121S	(8.0) 7.0-9.0	80	3525	32.64	10.7	635	14.0	51	23.1	029142932222
	<i>HF Equivalent</i>		33X10.50R18LT E 121	(8.5) 7.5-9.5	80	3195	32.52	10.5					
90000035621	BLK	LT275/70R18 E 125/122S	(8.0) 7.0-8.5	80	3640	33.19	11.0	625	14.0	51	23.1	029142932192	
20"	90000035507	BLK	275/55R20 XL 117H	(8.5) 7.5-9.5	50	2833	31.73	10.9	653	11.0	39	17.9	029142931591
	90000035506	BLK	275/60R20 115T	(8.0) 7.5-9.5	44	2679	32.87	10.9	631	11.0	40	18.1	029142931584
	90000035612	BLK	LT275/65R20 E 126/123S	(8.0) 7.5-9.5	80	3750	34.09	11.0	608	14.0	55	24.9	029142932109

The light truck sizes of this new line replace the SF-510<sup>LT</sup>™.

^ The Solarus AP™ is offered in metric sizing of this high floatation equivalent. Dimensions are noted for your comparison.

For dual max load and spacing, please call the Cooper Tire Consumer Relations Department for a proper fitment recommendation.



**STANDARD LIMITED WARRANTY  
DIRECTIONAL - ASYMMETRICAL WINTER  
SEVERE WEATHER RATED  
STUDLESS**

The RS-W 5.0™ is a studless winter product ideally suited for the value-oriented consumer that commutes on highways or in metro areas.

**Fitments:**

Corolla, Cruze, Prius



**M+S Rated**

**HIGH DENSITY SIPING**

Many sipes packed into the tread lugs of this tire allow the tire to bite into the ice and snow to deliver exceptional grip and traction.

**FLEXIBLE TREAD COMPOUND**

The special formulated soft tread compound allows the tread blocks to remain flexible at cold temperatures to improve ride comfort and performance meanwhile increasing snow & ice surface traction and grip.

**INNOVATIVE ELONGATED TRIANGULAR BUTTRESS DESIGN**

An innovative elongated triangular buttress on the side of the outer circumferential grooves provide lateral support for handling purposes as the compound is extremely soft.

**ATTRACTIVE TREAD DESIGN**

The large surface area provides more rubber to come in contact with the road for a stable footprint and great handling.

**NEW SIDEWALL BUTTRESS DESIGN**

A new sidewall buttress was designed, carrying over the textured design to aid cornering & traction in deep snow plus a pleasing aesthetic finish to the tire.

**PATENTED TEXTURED TREAD SURFACE**

A patented textured tread surface with fine raised lines provides extra traction & grip on ice.

**3-D MICROGAUGE SIPING**

Enhances tread block stiffness for better response and control providing excellent braking and acceleration.

**OPTIMIZED TIRE PROFILE SHAPE**

Square shoulders provide flat, even pressure across the footprint and support while cornering.

**ALWAYS CONSULT AND FOLLOW THE VEHICLE MANUFACTURER REPLACEMENT TIRE RECOMMENDATIONS AND WARNINGS.**

Use the information on the vehicle placard and vehicle owner's manual to identify original equipment air pressure, tire size, speed rating and load carrying capacity. Cooper Tire reserves the right to change and improve construction, materials or specifications without notice or obligation. Please refer to the back of this book for important tire safety considerations and recommendations.

Visit [cooperworld.net](http://cooperworld.net) for up-to-date spec information.



# RS-W 5.0™



CAR Winter

Wheel Diam.	Material #	Sidewall Style	Tire Size, Load Range & Service Description	Approved Rim Widths	Max PSI	Max. Load	Overall Diam.	Sect. Width	Rev. Per Mile	Tread Depth (32 <sup>nds</sup> )	Tread Depth (mm)	Ship Wt. (lbs.)	Ship Wt. (kg.)	UPC
14"	90000033490	BLK	185/60R14 82T	(5.5) 5.0-6.5	44	1047	22.76	7.4	911	11.0	8.6	17	7.5	029142912347
	90000033491	BLK	185/65R14 86T	(5.5) 5.0-6.5	44	1168	23.46	7.4	884	11.0	8.6	17	7.8	029142912354
	90000033501	BLK	175/70R14 84T	(5.0) 4.5-6.0	44	1102	23.70	7.0	875	11.0	8.6	16	7.4	029142912453
15"	90000033492	BLK	195/55R15 85T	(6.0) 5.5-7.0	44	1135	23.43	7.9	885	11.0	8.6	18	8.4	029142912361
	90000033480	BLK	185/60R15 84T	(5.5) 5.0-6.5	44	1102	23.90	7.5	868	11.0	8.6	18	8.4	029142912248
	90000033466	BLK	195/60R15 88T	(6.0) 5.5-7.0	44	1235	24.41	8.0	849	11.0	8.7	20	8.9	029142912200
	90000033493	BLK	185/65R15 88T	(5.5) 5.0-6.5	44	1235	24.45	7.4	848	11.0	8.6	19	8.5	029142912378
	90000033465	BLK	195/65R15 91T	(6.0) 5.5-7.0	44	1356	24.88	7.9	833	11.0	8.7	20	9.2	029142911999
	90000033495	BLK	205/65R15 94T	(6.0) 5.5-7.5	44	1477	25.47	8.2	814	11.0	8.6	22	9.8	029142912392
16"	90000033464	BLK	205/55R16 91T	(6.5) 5.5-7.5	44	1356	24.88	8.2	833	11.0	8.7	21	9.7	029142911982
	90000033485	BLK	215/55R16 93T	(7.0) 6.0-7.5	44	1433	25.28	8.9	820	11.0	8.6	24	10.9	029142912293
	90000033497	BLK	225/55R16 95T	(7.0) 6.0-8.0	44	1521	25.75	9.2	805	11.0	8.6	26	11.6	029142912415
	90000033481	BLK	205/60R16 92T	(6.0) 5.5-7.5	44	1389	25.79	8.1	804	11.0	8.6	23	10.5	029142912255
	90000033467	BLK	215/60R16 95T	(6.5) 6.0-7.5	44	1521	26.02	8.7	797	11.0	8.7	24	11.1	029142912217
	90000033496	BLK	225/60R16 98T	(6.5) 6.0-8.0	44	1653	26.61	9.0	779	11.0	8.6	26	12.0	029142912408
	90000033483	BLK	215/65R16 98T	(6.5) 6.0-7.5	44	1653	27.01	8.6	768	11.0	8.6	25	11.5	029142912279
17"	90000033487	BLK	235/45R17 94T	(8.0) 7.5-9.0	44	1477	25.35	9.3	818	11.0	8.6	26	11.8	029142912316
	90000033499	BLK	245/45R17 95T	(8.0) 7.5-9.0	44	1521	25.67	9.6	808	11.0	8.6	27	12.2	029142912439
	90000033469	BLK	225/50R17 94T	(7.0) 6.0-8.0	44	1477	25.98	8.9	798	11.0	8.7	26	11.6	029142912231
	90000033468	BLK	215/55R17 94T	(7.0) 6.0-7.5	44	1477	26.34	8.7	787	11.0	8.7	24	11.1	029142912224
	90000033482	BLK	225/55R17 97T	(7.0) 6.0-8.0	44	1609	26.89	9.0	771	11.0	8.6	28	12.5	029142912262
	90000033488	BLK	225/60R17 99T	(6.5) 6.0-8.0	44	1709	27.64	8.9	750	11.0	8.6	28	12.8	029142912323
	90000033489	BLK	225/65R17 102T	(6.5) 6.0-8.0	44	1874	28.54	8.9	726	11.0	8.6	27	12.4	029142912330
18"	90000033498	BLK	225/45R18XL 95T	(7.5) 7.0-8.5	50	1521	25.94	8.9	799	11.0	8.6	26	11.8	029142912422
	90000033502	BLK	235/45R18 94T	(8.0) 7.5-9.0	44	1477	26.34	9.3	787	11.0	8.6	27	12.3	029142912460
	90000033486	BLK	245/45R18 96T	(8.0) 7.5-9.0	44	1565	26.65	9.6	778	11.0	8.6	28	12.8	029142912309
	90000033500	BLK	255/45R18 99T	(8.5) 8.0-9.5	44	1709	27.05	10.0	767	11.0	8.6	32	14.5	029142912446
	90000033494	BLK	245/50R18 100T	(7.5) 7.0-8.5	44	1764	27.68	10.0	749	11.0	8.6	29	13.2	029142912385
	90000033484	BLK	235/60R18 103T	(7.0) 6.5-8.5	44	1929	29.13	9.3	712	11.0	8.6	31	14.1	029142912286

For optimum safe and satisfactory performance, winter tires should be used in sets of four.



**STANDARD LIMITED WARRANTY  
DIRECTIONAL WINTER  
SEVERE WEATHER RATED  
STUDLESS**

The RS-W 7.0™ is a studless winter tire ideally suited for the value-oriented CUV and SUV driver that commutes on highways or in metro areas.

**Fitments:**

Large SUVs, CUVs and pickup trucks



**M+S Rated**

**FLEXIBLE TREAD COMPOUND**

The special formulated soft tread compound allows the tread blocks to remain flexible in cold conditions to improve the ride comfort and performance meanwhile increase snow and ice surface traction and grip.

**ATTRACTIVE TREAD DESIGN**

The larger tread surface area provides more rubber to come in contact with the road for a stable footprint and great handling.

**HIGH DENSITY SIPING**

More sipes in the tread lugs of this tire allow the tire to bite into the ice and snow to deliver exceptional grip and traction.

**PATENTED TEXTURED TREAD SURFACE**

Patented textured tread surface with fine raised lines provides extra traction and grip on ice.

**3-D MICROGAUGE SIPING**

Enhances tread block stiffness for better response and control providing excellent braking and acceleration.

**WIDE, CIRCUMFERENTIAL GROOVES**

Wide, circumferential grooves are designed to channel water away from the tire for hydroplane resistance.

**NEW SIDEWALL BUTTRESS DESIGN**

A new sidewall buttress was designed, carrying over the textured design to aid cornering and traction in deep snow plus a pleasing aesthetic finish to the tire.

**INNOVATIVE ELONGATED TRIANGULAR BUTTRESS DESIGN**

An innovative elongated triangular buttress on the side of the outer circumferential grooves provide lateral support for handling as the compound is extremely soft.

**SOLID CENTER RIB**

The solid center rib provides the driver steering confidence and control.

**SNOW "SCOOPS"**

Snow scoops grabs and traps snow for better traction.

**ALWAYS CONSULT AND FOLLOW THE VEHICLE MANUFACTURER REPLACEMENT TIRE RECOMMENDATIONS AND WARNINGS.**

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Visit [cooperworld.net](http://cooperworld.net) for up-to-date spec information.



# RS-W 7.0™



SUV / PICKUP TRUCK *Winter*

Wheel Diam.	Material #	Sidewall Style	Tire Size, Load Range & Service Description	Approved Rim Widths	Max PSI	Max. Load	Overall Diam.	Sect. Width	Rev. Per Mile	Tread Depth (32 <sup>nds</sup> )	Tread Depth (mm)	Ship Wt. (lbs.)	Ship Wt. (kg.)	UPC
16"	90000025993	BLK	235/60R16 100T	(7.0) 6.5-8.5	44	1764	27.09	9.4	765	12.5	9.8	30	13.8	029142845911
	90000025996	BLK	225/70R16 103T	(6.5) 6.0-7.5	44	1929	28.43	9.0	729	12.5	9.8	28	12.8	029142845942
	90000028067	BLK	235/70R16 106T	(7.0) 6.0-8.0	44	2094	28.98	9.4	716	12.5	9.8	30	13.5	029142873396
	90000028068	BLK	245/70R16 107T	(7.0) 6.5-8.0	44	2149	29.53	9.8	702	12.5	9.8	31	14.2	029142873501
17"	90000028073	BLK	235/55R17 99T	(7.5) 6.5-8.5	44	1709	27.17	9.4	763	12.5	9.8	28	12.8	029142873556
	90000025995	BLK	215/60R17 96T	(6.5) 6.0-7.5	44	1565	27.17	8.7	763	12.5	9.8	28	12.8	029142845935
	90000025992	BLK	225/65R17 102T	(6.5) 6.0-8.0	44	1874	28.50	9.0	727	12.5	9.8	29	13.0	029142845904
	90000025994	BLK	235/65R17 104T	(7.0) 6.5-8.5	44	1984	29.06	9.4	714	12.5	9.8	31	14.2	029142845928
	90000028069	BLK	265/65R17 112T	(8.0) 7.5-9.5	44	2469	30.55	10.7	679	12.5	9.8	36	16.2	029142873518
18"	90000028074	BLK	235/50R18 97T	(7.5) 6.5-8.5	44	1609	27.28	9.4	760	12.5	9.8	29	13.0	029142873563
	90000028071	BLK	215/55R18 95T	(7.0) 6.0-7.5	44	1521	27.28	8.7	760	12.5	9.8	28	12.5	029142873532
	90000030989	BLK	225/55R18 98T	(7.0) 6.0-8.0	44	1653	27.76	9.0	747	12.5	9.8	28	12.6	029142898757
	90000031000	BLK	235/55R18 100T	(7.5) 6.5-8.5	44	1764	28.15	9.4	737	12.5	9.8	29	13.4	029142898764
	90000031001	BLK	255/55R18XL 109T	(8.0) 7.0-9.0	50	2271	29.02	10.2	715	12.5	9.8	31	14.1	029142898771
	90000031002	BLK	225/60R18 100T	(6.5) 6.0-8.0	44	1764	28.62	9.0	724	12.5	9.8	29	13.2	029142898788
	90000028070	BLK	265/60R18 110T	(8.0) 7.5-9.5	44	2337	30.51	10.7	680	12.5	9.8	35	15.9	029142873525
19"	90000028072	BLK	245/55R19 103T	(7.5) 7.0-8.5	44	1929	29.65	9.8	699	12.5	9.8	32	14.5	029142873549

For optimum safe and satisfactory performance, winter tires should be used in sets of four.

## Starfire® Brand Tire Size Matrix

Rim Diameter	Aspect Ratio	Size	Performance	All-Season	SUV and Light Truck				Winter		
			WR™	SOLARUS AS™	SOLARUS HT™	SF-510™	SOLARUS AP™	SF-510 LT™	RS-W 5.0™	RS-W 7.0™	
14	60	185/60R14		H						T	
	65	175/65R14		H							
		185/65R14		H						T	
	70	175/70R14								T	
		185/70R14		H							
		195/70R14		T							
	75	205/75R14		T							
	HF	27x8.50R14LT							C		
15	55	195/55R15								T	
	60	185/60R15		H						T	
		195/60R15		H						T	
		205/60R15		H							
		215/60R15		H							
	65	185/65R15		H						T	
		195/65R15		H						T	
		205/65R15		H						T	
		215/65R15		H							
	70	205/70R15		T							
		215/70R15		T							
	75	205/75R15		T							
		215/75R15		T							
		235/75R15		T	XL-T	S	XL-T / C	C			
	HF	30X9.50R15LT						C			
		31X10.50R15LT					C	C			
16	50	205/50R16	W								
		225/50R16	W								
		245/50R16	W								
	55	205/55R16	W-XL	V-XL / H-XL						T	
		215/55R16	W	H-XL						T	
		225/55R16	W							T	
	60	205/60R16		H						T	
		215/60R16		V / T						T	
		225/60R16		H						T	
		235/60R16		T							T
	65	205/65R16		H							
		215/65R16		H						T	
		225/65R16		T							
		235/65R16		T							
	70	215/70R16		T		S					
		225/70R16		T		S					T
		235/70R16			T	S	T				T
		245/70R16			T	S					T
		255/70R16			T	S					
		265/70R16			T	S	T				
	75	225/75R16			T / E	S	E	E			
		245/75R16			T / E	S	T / E	E			
		265/75R16			T / E	S	T / E	C / E			
		285/75R16						D			
	85	215/85R16			E			E			
		235/85R16			E		E	E			

Solarus HT and Solarus AP replace the SF-510s as of July 2019.



## Starfire® Brand Tire Size Matrix

Rim Diameter	Aspect Ratio	Size	Performance	All-Season	SUV and Light Truck			Winter		
			WR™	SOLARUS AS™	SOLARUS HT™	SF-510™	SOLARUS AP™	SF-510 LT™	RS-W 5.0™	RS-W 7.0™
17	40	245/40R17	W							
	45	215/45R17	W-XL							
		225/45R17	W-XL							
		235/45R17	W						T	
		245/45R17	W						T	
	50	205/50R17	W-XL							
		215/50R17		V-XL						
		225/50R17	W-XL	V					T	
	55	215/55R17		V					T	
		225/55R17		V					T	
		235/55R17	W	H						T
	60	215/60R17		T						T
		225/60R17		H					T	
		235/60R17		H						
	65	215/65R17		T					T	T
		225/65R17		H						T
		235/65R17		T		S				T
		245/65R17		T	T	S	T			
		265/65R17			T	S				T
	70	245/70R17			T	S	T/E	E		
		265/70R17			T/E	S	T/E	E		
		285/70R17					E	E		
	75	245/75R17			E		E	E		
	80	235/80R17			E		E	E		
18	40	225/40R18	W-XL							
		235/40R18	W-XL							
		245/40R18	W-XL							
	45	215/45R18	W-XL							
		225/45R18	W-XL	V					T-XL	
		235/45R18		V					T	
		245/45R18	W						T	
		255/45R18							T	
	50	235/50R18	W	V						T
		245/50R18							T	
	55	215/55R18								T
		225/55R18		H						T
		235/55R18		V						T
		255/55R18								T-XL
	60	225/60R18		H						T
		235/60R18		H					T	
		245/60R18			H					
		265/60R18					T			T
	65	235/65R18								
		255/65R18								
		265/65R18					T			
		275/65R18					T/E	E		
	70	255/70R18								
		265/70R18					E			
		275/70R18					E	E		
19	55	245/55R19				T				T
20	50	245/50R20				H				
		255/50R20				XL-H				
	55	275/55R20				XL-H	S	XL-H		
	60	275/60R20				T	S	T		
	65	275/65R20						E		

Solarus HT and Solarus AP replace the SF-510s as of July 2019.



# REPLACEMENT TIRE STANDARD LIMITED WARRANTY

## ELIGIBILITY

This warranty applies to the original purchaser of a replacement Starfire passenger or light truck tire and is not transferable. Eligible tires must be purchased new and used on the vehicle which they were originally installed. Proof of purchase is required for all warranty claims. Additionally, they must be the size, load index, and speed rating equivalent or greater than that specified by the vehicle manufacturer. This warranty applies to the 48 contiguous continental United States, Alaska, Hawaii, District of Columbia and Canada. For warranty exclusions see "WHAT ISN'T COVERED".

## STANDARD COVERAGE

If your replacement Starfire branded radial tire becomes unserviceable as a result of an eligible adjustable condition during the first 2/32" (1.6mm) of tread wear, it will be replaced with an equivalent new Starfire tire, FREE OF CHARGE. When the tread is worn more than 2/32" (1.6mm), a replacement charge will be required in order to obtain a replacement tire. You must present proof of purchase and be the original owner when requesting a replacement for your tire.

The replacement charge will be determined by multiplying the dealer's current selling price by the percentage of original tread depth worn from the tire. You must pay for mounting, balancing, and any other additional charges, such as taxes or the acceptance of a higher priced replacement tire.

## TREAD WEAR PROTECTION

The following Tread Wear Warranty is a prorated warranty (there is no free replacement period) based on mileage received, and is separate from the Standard Coverage & Extra Coverage Warranties just covered. No manufacturer or dealer can guarantee you a certain number of miles from a given tire. Driving habits, driving conditions, tire and vehicle maintenance all play a part in the tread life of a tire and all differ with each purchaser. The following replacement Starfire radial tires only are warranted against tread wear out prior to the applicable indicated mileage:

Tire	Miles/Km Warranted	Tire	Miles/Km Warranted
SF510	50,000 miles (80,000 km)	SF510LT	50,000 miles (80,000 km)
Solarus HT	50,000 miles (80,000 km)	RS-C 2.0	40,000 miles (64,000 km)
Solarus AP	50,000 miles (80,000 km)	SF340	40,000 miles (64,000 km)
Solarus AS	50,000 miles (80,000 km)	WR	40,000 miles (64,000 km)

The Tread Wear warranty is available provided that you:

1. are the original owner.
2. rotate your tires in accordance with prescribed rotation patterns at least every 8,000 miles (13,000 km) and it must be recorded.
3. present the tire for adjustment.
4. present this warranty booklet when requesting an adjustment and your original purchase receipt, date of purchase, vehicle type, model, odometer reading and rotation record are properly recorded.

If the tire wears to the tread wear indicators in less than the miles warranted, a pro-rated adjustment will be made according to actual mileage delivered. Your replacement cost will be determined by dividing the actual mileage delivered by the miles warranted and multiplying the result times the current selling price of an equivalent Starfire tire. You must pay for mounting and balancing and any other additional charges, such as taxes or the acceptance of a higher priced replacement tire.

## TREAD LIFE

When the tread becomes worn to 2/32" (1.6mm) anywhere on the tire (shown by tread wear indicators molded into the tread grooves), the tire is worn out. **WARNING**—for important safety information, you must read the section titled "Tire Service Life" and the Tire Safety Warnings section of this guide. Safety information is also located at [www.us.coopertire.com](http://www.us.coopertire.com) (and select: "Safety"); and, from your dealer.

## HOW TO OBTAIN AN ADJUSTMENT

Tire adjustments must be presented to your local Starfire dealer. You must present this booklet, proof of purchase and be the original owner when requesting a replacement for your tire. See "WHERE TO GO FOR WARRANTY REPLACEMENT".

## WHAT ISN'T COVERED

Adjustments will not be made for:

- A. Tires that become unserviceable due to:
  1. Conditions resulting from road hazards, such as (A) impact damage, (B) cuts, (C) snags, or (D) punctures, or (E) vandalism.
  2. Conditions such as, but not limited to, uneven, cupping, spotty, feathering tread wear resulting from (A) improper installation, (B) wheel misalignment, (C) tire/wheel assembly imbalance, (D) use of an improper rim, (E) improper mounting or dismounting, (F) misapplication, or (G) use of tire chains.
  3. Conditions resulting from consumer damage, such as (A) improper tire and vehicle maintenance, (B) misuse, (C) abuse, (D) accident, fire or chemical corrosion, (E) underinflation, (F) overloading, (G) over deflection, (H) failure to follow recommended rotation practices.
- B. Ride complaints after the first 2/32" (1.6mm) of tread wear.
- C. Ride complaints on tires branded "Blemish".
- D. Use in any commercial service (i.e. tires used for taxi service, delivery, etc.).
- E. Use in any racing or off road applications.

F. Ozone or weather checking on tires over (4) four years from date of manufacture or date of purchase. Proof of purchase is required. Without proof of purchase the manufacture date will be used to determine eligibility.

G. Tires stored improperly., OR

H. Tires that are:

1. Worn unevenly and/or show a difference of 2/32" (1.6mm) between the grooves.
2. Installed on any vehicle other than the vehicle on which they were first installed.
3. Sold or adjusted outside the 48 contiguous continental United States, Alaska, Hawaii, District of Columbia and Canada.
4. Acquired as used (tires purchased used, equipped on a pre-owned vehicle, etc.).
5. Altered in any manner (additional siping, buffing, stud pin holes, re-grooving, truing, etc.).
6. Worn to 2/32" (1.6mm) or more than 72 months old (based on date of purchase) whichever comes first. Proof of purchase is required. Without proof of purchase the manufacture date will be used to determine eligibility.
7. Improperly repaired or with repairs not conforming to the U.S. Tire Manufacturer's Association standards.

## NO ROAD HAZARD COVERAGE

Many dealers sell or provide their own warranty coverage for road hazards and/or repairs. Starfire Tire does not provide this coverage. Check with your dealer to determine if Road Hazard/Repair coverage is available from them.

## REPLACEMENT WARRANTY

If you receive a replacement tire under the terms of this Warranty, the replacement tire will be covered by the Warranty then currently given by Starfire for the replacement tire.

## WHERE TO GO FOR WARRANTY REPLACEMENT

You can obtain assistance in locating an independent Starfire dealer near you by visiting the dealer locator on our website at [www.us.coopertire.com](http://www.us.coopertire.com) or by calling 1-800-822-8686.

## CONDITIONS AND EXCLUSIONS

Any tire, no matter how well constructed, may fail in service or otherwise become unserviceable due to conditions beyond the control of the manufacturer. Nothing in this Warranty is intended to be a representation by Starfire that tire failure cannot occur.

## TIRE SERVICE LIFE

Starfire recommends that all passenger and light truck tires, including full-size spare tires, that are beyond 10 years from their date of manufacture, be replaced with new tires. Tires that are 10 or more years old should be replaced even if the tires appear to be undamaged and have not reached their tread wear limits. In some cases, a vehicle manufacturer may make a recommendation for tire replacement earlier than 10 years for their products based upon their understanding of the specific vehicle characteristics and application. If so, you should follow those vehicle manufacturer's specific recommendations for their vehicle.

## USED TIRES

Never purchase used tires! Previous usage may have damaged internal components. This damage may lead to sudden tire failure.

## STARFIRE DISCLAIMS ANY LIABILITY FOR LOSS OF TIME, OR USE, INCONVENIENCE, OR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES TO THE EXTENT PERMITTED BY LAW.

Some states do not allow exclusion of incidental or consequential damages. As a result, this limitation or exclusion may not apply to you.

## CONSUMER RIGHTS

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

## OWNER'S OBLIGATION

When making a claim, you must return the tire to be replaced to your Starfire dealer.

Proper vehicle and tire care is necessary to obtain the expected wear from a tire. It is your obligation to properly maintain your tires and the vehicle upon which they are mounted, including: (A) operating your tires at the inflation pressures recommended by the vehicle manufacturer, (B) keeping your tire/wheel assemblies in balance, (C) proper wheel alignment, and (D) rotation. You must check your tire's inflation pressure at least monthly and before long trips.

We recommend that you have your Starfire dealer inspect your tires any time you notice irregular or uneven tread wear and rotate them, if necessary. Also, they should be inspected by your dealer any time your vehicle is brought in for service.

For additional safety information please visit:

[www.ustires.org](http://www.ustires.org) [www.nhtsa.gov](http://www.nhtsa.gov) [www.safercar.gov](http://www.safercar.gov) [www.nsc.org](http://www.nsc.org)  
[www.tracanada.ca](http://www.tracanada.ca) [www.tc.gc.ca](http://www.tc.gc.ca)

**STARFIRE TIRE**  
**P.O. BOX 550 • FINDLAY, OHIO 45839**  
Visit our website at: [www.us.coopertire.com](http://www.us.coopertire.com)

# TIRE SAFETY

The purpose of this section is to provide tire service buyers, professionals and everyday consumers an understanding of the many factors that are essential to the proper care and service of tires.

This is not all inclusive and is not intended to eliminate in-depth, practical training, especially in areas such as: tire mounting and demounting; tire and wheel balancing; tire retreading; tire pressure monitoring systems (TPMS) and tire repairing. Personnel that service tires must receive professional training and certification. Tire manufacturers and industry organizations provide comprehensive, hands-on training programs for tire service professionals. For more information on TIA Certified Tire Service Technician Programs, please contact TIA at [www.tireindustry.org](http://www.tireindustry.org) or call 800-876-8372 x107 or call Cooper Consumer Relations team directly at 1-800-854-6288.

“WARNINGS” and “CAUTIONS” contained in all tire publications are important and must be followed. Questions pertaining to specific products or pieces of service equipment should be addressed directly to the manufacturer of that product.

Tires are designed and manufactured to meet strict governmental requirements, internal company standards, vehicle performance characteristics and driver expectations. Modern tire technology blends a unique mix of chemistry, physics and engineering to give drivers a high degree of tire performance that provides safety, reliability, efficiency, long wear and comfort. Tires are manufactured, inspected and tested to assure safety and satisfaction. As a result, properly cared-for tires will provide a longer service life.

## The Most Important Factors In Tire Safety, Performance and Service Life Are:

PROPER TIRE SIZE, TYPE AND LOAD CAPACITY (LOAD RANGE)	PROPER INFLATION PRESSURE	PROPER TIRE AND WHEEL ALIGNMENT	PROPER TIRE AND WHEEL BALANCE	PROPER TIRE TO RIM FITMENT
PROPER LOADING OF THE VEHICLE	PROPER TIRE REPAIRS	VEHICLE CONDITION AND MAINTENANCE	GOOD DRIVING HABITS	NEVER PURCHASE OR INSTALL USED TIRES

Tire and wheel servicing can be dangerous and if done improperly could cause serious injury if not death. Servicing tires should only be done by qualified and trained personnel, while using proper tools and practicing the proper procedures.

## INFLATION PRESSURE

Maintaining proper inflation pressure in tires is the single most important factor in extending tire life. Over and under inflation have negative effects on the tire by changing the tire’s footprint, which is the area contacting the road. When the tire is not contacting the road as design intended, the tread area will wear irregularly and therefore rapidly wear the tread surface. Likewise, it is air, not the tire actually carrying the load and absorbing shock. Any condition causing the tire to flex more as it is rolling down the road is causing heat buildup that can cause tire components and steel cord damage.

Correct inflation pressure for a vehicle is determined by the load carried for each tire.

**⚠ WARNING**

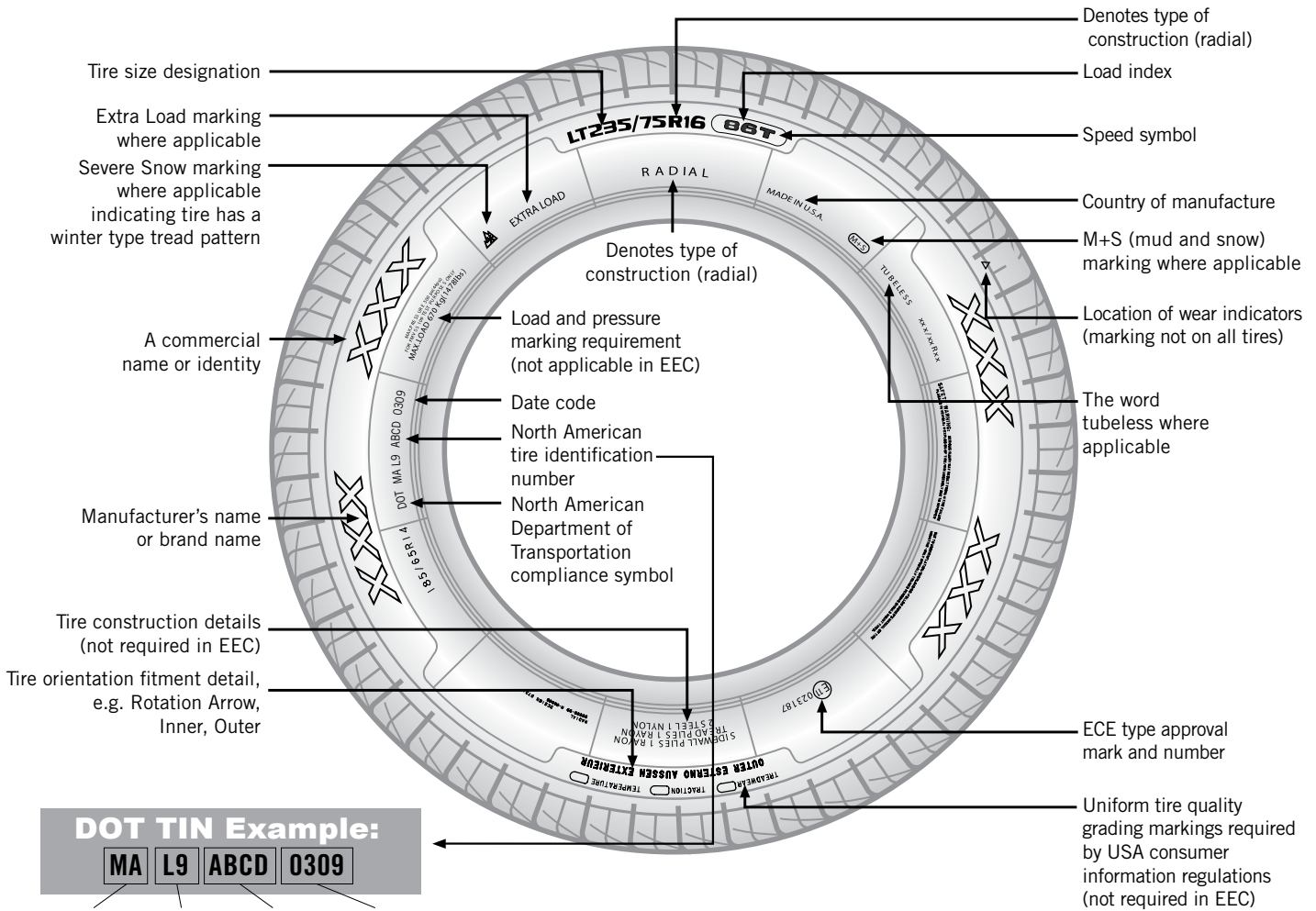
**Driving on tires with improper inflation pressure is dangerous.**

- Under inflation causes excessive heat buildup 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, including tread / belt separation, even at a later date, which could lead to an accident and serious personal injury or death.

**Consult the vehicle placard, certification label, owner’s manual and/or the Tire & Rim Association Load and Inflation tables for the recommended inflation pressures.**

# HOW TO READ A TIRE SIDEWALL



**DOT TIN Example:**

MA	L9	ABCD	0309
----	----	------	------

Manufacturer Plant Code ID    Tire Size Code    Manufacturer Construction Code    Date of Manufacturer (week / year)



## TIRE SIZE DESIGNATIONS

The following is an explanation of size designation systems presently in use for passenger vehicle tires:

Load Identification				Service Description		
235	/	75	R 15	EXTRA LOAD	109	T
P235	/	75	R 15	STANDARD LOAD	105	T
LT235	/	75	R 15	C	104/101	R
Nominal Section Width (mm)		Nominal Aspect Ratio (Ratio of Height to Width)	Construction Code ("R" = Radial)	Rim Diameter (inches)	Load Range	Load Index (Single/Dual)

## METRIC TIRE SIZES

No prefix in the tire size indicates this is a Passenger Tire in European Metric. The (P) in the tire size indicates this is a Passenger Tire in P-Metric and (LT) in the size indicates this is a Light Truck Tire in Light Truck Metric.

**HIGH FLOATATION (CONVENTIONAL LIGHT TRUCK) TIRE SIZES**

Load Identification				Service Description		
33	X	12.50	R 15LT	C	108	R
Nominal Overall Diameter (inches)		Nominal Section Width (inches)	Construction Code ("R" = Radial)	Rim Diameter (inches)	Load Range	Load Index (Single)

## DOT TIRE IDENTIFICATION NUMBER

The “DOT” symbol certifies the tire manufacturer’s compliance with U.S. Department of Transportation (U.S. DOT) tire safety performance standards. Next to these letters is the tire identification number (TIN) - also known as the tire “serial” number. The first two digits are the factory code indicating where the tire was made. The last four digits are numbers identifying the week and year of manufacture (Example: “0316” means third week of the year 2016). Other characters in between the first four and last four are optional manufacturer’s codes for tire type, make, etc. All tires produced after September 2009 must have the full TIN on the intended outboard side of the tire and at least a partial TIN on the intended inboard side. The partial TIN does not include the date code.

## M+S RATED

The letters “M” and “S” indicate the tire is intended for limited mud and snow service. This mark may be found in several formats that may include: “MS,” “M/S,” or “M&S.”

## TUBELESS

The tire must be marked either “tubeless” (tire does not use an inner tube) or “tube type” (tire requires an inner tube).

## RADIAL

A tire with radial construction must show the word “RADIAL” on the sidewall. A radial tire is also delineated by the character “R” in the size designation. Other tire size suffix letters are included, when necessary, as part of the tire size to differentiate between tires for service conditions which may require different loads and inflations and/or tires, which must be used on different type rims. (Example: 7.50-15LT, 7.50-15ST, 7.50-15NHS, 7.50-15TR)

### ADDITIONAL OPTIONAL SUFFIX LETTERS

**LT** – Light truck

**ST** – Special trailer

**TR** – Tires for service on trucks, buses or other heavy vehicles. This suffix is intended to differentiate between truck tires and light vehicle tires with similar size designations.

**ML** – Mining and logging tires used in intermittent highway service.

**MH** – Tires for mobile homes.

**HC** – Identifies a 17.5 rim diameter code tire for use on low platform trailers.

**NHS** – Not for highway service.

## LOAD INDEX

The load index is a numerical code (104/101 in the example) associated with the maximum load a single tire can carry at the speed indicated by its speed symbol under specified service conditions. The numeric load index is a code ranging from 65 to 170 that represents the maximum load carrying capacity for a single tire. In the example, single and dual application load indices are listed. The maximum weight (load carrying capacity) is also stamped on the lower sidewall of the tire.

## SPEED SYMBOL

The speed symbol is a letter indicating the speed at which a tire has been tested to carry a load corresponding to its load index. In the example above, the speed symbol “R” in the service description means a maximum speed rating of 106 miles per hour (170 km/h). Excessive speed is not only unlawful and may cause injury, but inflation pressure needs to be adjusted while load carrying capacities decrease. Consult the rim/wheel manufacturer for rim/wheel load and inflation capacities.

<b>F</b> . . . . . 50 mph / 80km/h	<b>R</b> . . . 106 mph / 170km/h
<b>G</b> . . . . . 56 mph / 90km/h	<b>S</b> . . . 112 mph / 180km/h
<b>J</b> . . . . . 62 mph / 100km/h	<b>T</b> . . . 118 mph / 190km/h
<b>K</b> . . . . . 68 mph / 110km/h	<b>U</b> . . . 124 mph / 200km/h
<b>L</b> . . . . . 75 mph / 120km/h	<b>H</b> . . . 130 mph / 210km/h
<b>M</b> . . . . . 81 mph / 130km/h	<b>V</b> . . . 149 mph / 240km/h
<b>N</b> . . . . . 87 mph / 140km/h	<b>W</b> . . . 168 mph / 270km/h
<b>P</b> . . . . . 93 mph / 150km/h	<b>Y</b> . . . 186 mph / 300km/h
<b>Q</b> . . . . . 99 mph / 160km/h	<b>Z</b> . . 149+ mph / 240+km/h

**TIRE PLY COMPOSITION AND MATERIAL USED**

This identifies the number of plies and the type of cord materials in the tire tread and sidewall areas. A bias ply tire typically has multiple plies in the sidewall, versus an all-steel radial tire, which generally has a single sidewall ply. The body ply(s) functions as the structure of the tire and provide the strength to contain the inflation pressure.

**MAXIMUM LOAD CARRYING CAPACITY AT MAXIMUM COLD INFLATION PRESSURE**

If the tire size is one that can be used as either a single application (such as passenger and SUV tires) or as a dual application (such as for a full-sized pickup truck), a maximum load and maximum cold inflation will be stated for each application. In this example of a LT235/75R15 Load Range C with a 104/101R service description, molded in the sidewall:

MAX LOAD SINGLE 900 kg (1985 lbs.) AT 350 kPa (50 psi) MAX PRESSURE COLD  
 MAX LOAD DUAL 825 kg (1820 lbs.) AT 350 kPa (50 psi) MAX PRESSURE COLD

...indicating the maximum load of the tire and the corresponding maximum cold inflation pressure for that load when used as a single and dual applications. Sidewall markings are given in both metric and imperial units.

**UTQG**

The DOT requires tire manufacturers to grade passenger car tires based on three performance factors: **Treadwear**, **Traction**, and **Temperature Resistance**.

**TREADWEAR:** The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course under specified test conditions as one graded 100.

However, it is erroneous to link treadwear grades with your projected tire mileage. The relative performance of tires depends upon the actual conditions of their use and may vary due to driving

habits, service practices, differences in road characteristics and climate.

**TRACTION:** The traction grades, from highest to lowest, are AA, A, B and C. They represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete.

**TEMPERATURE:** The temperature grades are A (the highest), B and C, representing the tire's resistance to the generation of heat when tested under controlled conditions on a specified indoor laboratory test wheel.

**DIAGRAMMATIC COMPARISON OF LOW PROFILE TIRES (ASPECT RATIO)**

Profile	70	65	60	55	50	45	40	35
Tire Width								

## TIRE SPECIFICATION DEFINITIONS



### RIM DIAMETER

The diameter of the rim in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

### MAXIMUM AIR PRESSURE (PSI / KPA)

Also referred to as inflation pressure, correct inflation pressure for a vehicle is determined by the load carried for *each* tire. Refer to your vehicle's placard or owner's manual to determine the proper pressure required.

### OVERALL DIAMETER

How tall the tire is. This is calculated by using the section height x 2 (unloaded but inflated) and adding the nominal rim diameter.

### REVOLUTIONS PER MILE / KILOMETER (REVS)

Measured as the number of revolutions a tire makes in a mile or kilometer at 55 mph / 90 kph at maximum inflation pressure and maximum load. REVs vary with a change in speed, inflation and load.

### TREAD DEPTH

Measured from the tread's surface to the base of the tire at designated tread depth indicators as marked on the tire. Also referred to as "non-skid."

### DUAL SPACING

The minimum distance allowed between the wheel's center line in a dual application.

### SECTION WIDTH

How wide the tire is including normal sidewalls but not including protective side ribs, bars or other decorations such as raised lettering.



**Starfire**  
TIRES



Visit [cooperworld.net](http://cooperworld.net) for up-to-date spec information.

Customer Service: **800.847.3777**

Consumer Relations: **800.854.6288**

Home Office: **419.423.1321** or **800.537.9523**

For complete product and warranty details, please visit [www.coopertire.com](http://www.coopertire.com).

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