

Important Safety Warning

For your safety and protection against serious injury or death, the following safety precaution and maintenance instruction must be observed at all times.

IMPORTANT SAFETY CHECK LISTS

- Check tire air pressure periodically.
- Inspect tire for uneven treadwear, cracks, bulges or any sign of foreign material or trauma.
- Remember to check your tire load carrying capacity and speed ratings.
- Check your tire life. Tires must be replaced when tread is worn down to 2/32".
- Never overload your vehicle, check tire load carrying capacity or vehicle owner's manual for the maximum recommended load.

TIRE INFLATION PRESSURE

Warning : Under inflated and/or overloaded tires pose a safety risk. The National Highway Traffic Safety Administration (NHTSA) estimates that under inflated tires contribute to more than 600 fatalities and 33,000 injuries each year.

A tire can lose up to half of its air pressure and not appear to be flat! Do you know your tires are more likely than not under-inflated? Results of a tire pressure survey conducted by RMA (Rubber Manufacturers Association) show:

- Only 9% of vehicles had all 4 tires properly inflated
- 50% of vehicles had at least one tire under inflated
- 19% of vehicles had at least one tire under inflated by 8 PSI
- 26% of vehicles had at least one tire under inflated by 6 PSI
- 38% of vehicles had at least one tire under inflated by 4 PSI

Under Inflation: Under inflation (or tire over loading) lead to tire failures, which often result in serious personal injury or death. Among the mode of tire failures are tread/belt separations, sidewall flex breaks and crack formation, among others. Tires run hotter when under inflated which can lead or contribute to tire failure. Under Inflation also adversely affect fuel economy, tire wear and vehicle handling.

Proper Inflation: Proper tire inflation is essential for optimum performance and longevity of the tire. A U. S. Department of Energy study shows that "properly inflated tires can improve fuel efficiency by 3.3%.

So, what is the proper inflation for my tires and where can I find it? For original equipment tires or replacement tires with the same size and load rating, proper inflation is specified by the vehicle manufacturer shown on a placard that can be found on the door edge, door post, glove compartment door or gas tank door. It can also be found

in the owner's manual. For plus sized replacement tires consult your local dealer or tire manufacturer. Proper inflation information is NOT stamped on the sidewall of the tire. The inflation pressure shown on the sidewall of the tire is the maximum inflation pressure for that tire.

Check Tire Inflation Pressure Regularly. Tire inflation pressure must be checked at least once a month and before each and every long trip. The tire air pressure must be checked when the tires are cold, in the morning, before doing any driving. At all times visually check tires for nails or other objects embedded in the tread which can cause air leak. Also never bleed or reduce inflation pressure when tires are hot. Over inflation must also be avoided as it can cause uneven wear at the center of tire tread and make the tire more susceptible to road hazards.

Tire Pressure Monitoring System (TPMS): All new passenger, SUV and light truck vehicles manufactured since (indicate the model year) are required to be equipped with a tire pressure monitoring system. This system will warn drivers when a tire is 25% (8 PSI if the recommended inflation pressure is 32 PSI) under inflated. This warning may be too late to prevent tire damage caused by under inflation. TPMS units are NOT a replacement for monthly tire pressure checks with a tire gauge.

TIRE DAMAGE


Inspect your tires frequently for uneven wear, scrapes, bulges, separations, cuts, snags and other damage from road hazards. Damage from impact can occur to the inner part of your tire without being visible to the outside. If you have any doubt that your tire has been damaged from hitting a pothole, curb or debris on the road, tires must be removed from the wheel and inspected for damage by a qualified person such as Hankook authorized dealer. Uneven wear can lead to internal damage or separation.

TIRE LOAD

The load carrying capacity of the replacement tire must always equal or exceed the load carrying capacity of the original equipment tire. Tires that are loaded in excess of allowable maximum can build up heat to cause sudden air loss.

SPEED

When replacing tires, consult the placard or the owner's manual for correct size and speed rating. The speed rating of the replacement tires must be equal to or greater



TIRE AND LOADING INFORMATION

SEATING CAPACITY		TOTAL 6	FRONT 3	REAR 3
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The combined weight of the occupants and cargo should never exceed 671 kg or 1340 lbs.

TIRE	SIZE	COLD TIRE PRESSURE	SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION
FRONT	P245/70R17 108S	240 kPa, 35 PSI	
REAR	P245/70R17 108S	240 kPa, 35 PSI	
SPARE	P245/70R17 108S	240 kPa, 35 PSI	

Disregarding any of the safety precautions and instructions contained in this information sheet may result in tire failure or explosion causing serious personal injury or death.

than the speed rating of the tire being replaced to maintain the speed capability of the vehicle. Speed ratings do not imply that the vehicle can be safely driven at the maximum speeds for which the tire is rated. Serious injury or death may take place if you drive your vehicle in an unsafe or unlawful manner. Hankook's speed symbol designations are verified and comply with regulatory indoor test in accordance with ECE-R30,54 test. (Economic council for Europe : Procedure Load / Speed performance test for tires). These symbols are not applicable to the repaired tires.

Category	Maximum Speed	
G	90 km/h	55 mph
J	100 km/h	62 mph
K	110 km/h	68 mph
L	120 km/h	74 mph
M	130 km/h	80 mph
N	140 km/h	87 mph
P	150 km/h	93 mph
O	160 km/h	99 mph

Speed symbol can be shown from the tire size for example P205/60R15 90 **(H)**

Category	Maximum Speed	
R	170 km/h	105 mph
S	180 km/h	112 mph
T	190 km/h	118 mph
U	200 km/h	124 mph
H	210 km/h	130 mph
V	240 km/h	149 mph
W	270 km/h	168 mph
Y	300 km/h	186 mph

CHECK TIRE LIFE

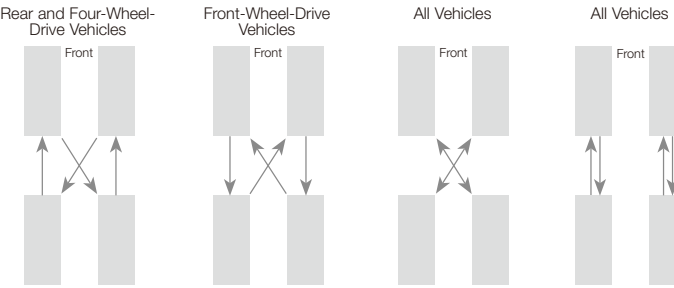
Tires have six built-in treadwear indicators that warn you when it is time to replace your tires. These indicators are raised ribs 2/32 inches height sections spaced intermittently in the bottom of the tread grooves. When they appear even with the outside of the tread, it is time to replace your tires immediately.

TIRE MOUNTING

Tire mounting and inflation can be dangerous and shall be done only by specially trained persons using proper tools and procedures. Always refer to the Rubber Manufacturers Association mounting procedure. Serious physical injury or death may result from explosion of tire / rim assembly due to improper mounting. A tire bead diameter must always match the diameter of the rim on which it is being mounted. When inflating /dismounting RV tires, approved OSHA safety cages must be used. Never stand, lean or reach over the assembly while inflating tires.

TIRE ROTATION

For safety and maximizing tire life, rotate your tires at least every 7,500 miles or at the vehicle manufacturer's recommended mileage, if sooner. Each tire pressure must be checked after rotation and adjusted to the vehicle manufacturer's recommendation for the tire's new location on the vehicle. If irregular wear is evident, vehicle alignment or other mechanical problem should be checked.



TIRE REPAIR

Make sure any repair shall be done by a specially trained person who knows proper repair and inspection procedure. Never repair tires worn below the treadwear indicators (2/32nds of an inch of tread remaining tread depth). Punctures through the tread can be repaired if they are not too large, but punctures to the sidewall should not be repaired at any time. Tire's internal structural damage may occur during the service, even if the tire was properly repaired.

SERVICE ASSISTANT OR CUSTOMER SATISFACTION

First contact the nearest Hankook Dealer. For the dealer information or additional technical information, call the toll-free customer technical service number: 1-800-HANKOOK or log on to Hankook Tire Web Site: www.hankooktireusa.com

Limited Warranty

TERMS AND CONDITIONS FOR HANKOOK TIRES

ELIGIBILITY

This limited warranty applies to the original purchaser of any new tire manufactured by HANKOOK Tire Co., Ltd bearing Department of Transportation prescribed tire identification numbers and produced after 2004. Eligible tires shall be used on the vehicle on which they were originally installed according to the vehicle manufacturer's or Hankook's recommendation.

What is Warranted and For How Long

Should any tire covered by this limited warranty become unusable due to a workmanship or material related condition during its usable tread life (more than 2/32" remaining tread), Hankook will give a credit on the following conditions:

- During the First 25% of the original usable tread (For Medium and Heavy Duty TBR: 35%):
Tire will be replaced with a comparable new Hankook produced tire free of charge. Applicable taxes on the new tire and cost of mounting, balancing and any other charges in connection with the replacement of the tire are required to be paid by the owner.
 - After the First 25% of the original usable tread (For Medium and Heavy Duty TBR: 35%):
The amount of the credit will be determined by multiplying the pre-determined adjustment price for the tire (excluding taxes) by the percentage of original tread depth remaining on the tire.
- For F19,RA08, and TH06 the first 25% of tread depth is considered for the free replacement.
 - Free replacement workmanship warranty is not applicable to snow tires.

WHAT IS NOT COVERED

This limited warranty does not apply to tires which are being serviced under the following conditions:

- Outside of the Continental United States.
- Willful Abuse / Collision / Wreck / Fire.
- Continued use while flat or severe under/over inflation.
- Road Hazards including without limitation, puncture, cut, impact break, stone drill, bruise, bulge, snag, collision.
- Premature or irregular wear due to vehicle mechanical reason.
- Conditions resulting from without limitation, improper mounting/demounting, under inflation, improper tire size, improper repair, defect in vehicle, abuse.
- Ozone or weather cracking on tires over four (4) years old from the date of manufacture.

- Ride disturbance complaints after 2/32 tread wear.
- With less than 2/32" remaining depth.
- With the serial number cut or buffed.
- Racing & off road use and Misapplication.
- Tires 6 years or older from the date of manufacture or 5 years or older from the date of purchase.
- Loss of time or use, inconvenience or any incidental or consequential damage.

* Note: Consequential damage mentioned above may not apply to you based on States limitation.

Owner's General Obligation

In order to be eligible for HANKOOK's limited warranty program, the owner must observe the following:

- Present the tire to an authorized Hankook dealer in the Continental United States of America.
- Submit or present a copy of the original purchase receipt.
- Complete and sign a Hankook Claim Form which is available at any authorized dealer.
- End users should complete the warranty card which is available at authorized Hankook dealers for tread wear mileage warranty and mail it to Hankook Tire America Corp. (1450 Valley Road; Wayne, NJ 07470; Attn: Technical Department) within 30 days from the date of purchase.
- In order to take advantage of mileage warranty, you must submit tire rotation record which proves that all tires are rotated at least every 7,500 miles.
- If the tire owner abuses the tires by failing to observe safety warning and to maintain proper inflation pressure, vehicle alignment and tire rotation, expected tire performance and life may not be achieved and your safety can not be ensured.

Road Hazard Warranty

If the eligible tires are rendered unserviceable due to non-repairable road hazard during the first 25% of usable tread life, it will be replaced free of charge with a comparable Hankook produced tire. Adjustment procedure is prescribed in the Owner's General Obligation section. Taxes and service charges are not included. The eligible products under Road hazard warranty are as follows:

- VENTUS Line: Sport K104, ST RH06, HR II H405, H101, S1evo K107, R-S3 Z222, R-S2 Z212, V4ES H105, RH07, V12 evo K110
- OPTIMO: H411, H417, H418, H420, H426, H725, H725A, H727, H431
- Mileage Plus II (H725), H406, H420, P-METRIC RH03, P-METRIC RF08, P-METRIC RF10, RA23

- Exclusion
 - This warranty is not applicable to original equipment tires.
 - Repairable punctures are not covered under this warranty.
 - After 25% of usable tread depth, this warranty is no longer valid.

Treadwear Mileage Warranty

Hankook provides very competitive treadwear mileage Warranty as follows:

TREADWEAR MILEAGE WARRANTY	TIRE TYPE	REMARKS
100,000	Optimo H727	
80,000	Milage Plus II (725)	
70,000	Optimo H724	
65,000	Ventus AS RH07	
60,000	H418	
50,000	H725A, H101, H105*, H406, H411, H417, H420, H426, RA07,RH03, RH06*, RA23, RF08,RF10, H431	RH03, RF08 RF10 (P-Metric)
40,000	Dynapro AS RH03	LT-Metric RH03

H105* : Over 40 series only (Not applicable to 35 series or below).
RH06* : 24 inches and under.

- If the above eligible tire wears out (wears down to 2/32" remaining depth) before the warranty miles under the normal passenger use, Hankook will make an allowance for unused service toward the purchase of a new tire of the same size and type, prorated on warranted miles.
- The replacement allowance will be calculated by percentage of the warranted miles not received, multiplied to the pre-determined adjustment price of the tire at the time and place of the adjustment.
- To take advantage of this warranty, the owner shall submit warranty card which records the purchasing & vehicle information within 30 days from the date of purchase. (Warranty card must be mailed to Hankook Tire America. Corp.)
- To make a claim, tire rotation record shall be presented along with the claimed tire. (The cost of mounting, balance and other service charges or taxes shall be paid by the customer)
- This warranty is not applicable to original equipment tires.

Disclaimer

This warranty, or any warranty stated or referred to herein, is exclusive and in lieu of any other warranty regarding the quality of Hankook tires, whether expressed or implied and remedies for breach thereof shall be limited to those specifically provided herein. Any warranty of

merchantability of fitness for any particular purpose, if made, is limited in duration to the effective time period of this limited warranty.

Additional Information or Customer Service

If you have any question on product warranty, please first contact your nearest Hankook Tire Dealer. For dealer information, or if your question has not been handled to your satisfaction, contact the Hankook Tire Technical Department.

HANKOOK TIRE AMERICA CORPORATION

1-800-HANKOOK

Head Office: 1450 Valley Road, Wayne, NJ 07470

West Regional Office: 1-800-426-8252

Claim Adjustment Procedure

For all claims for adjustment, a claim form must be filled out. Completed claim form shall be mailed to Hankook Tire America Corp. office. Do not ship tires to Hankook. Hankook reserves the right to demand physical inspection of the tires on which adjustment is claimed. If Hankook exercises its right to inspect, it will do so by sending a written request to ship the tires to Hankook’s Claim Center.

A. If the examination shows that the tire is adjustable under the terms of our Warranty :

- 1. Be sure that the tire returned by the consumer bears our name and DOT number.
- 2. Measure the remaining tread depth in 32nds of an inch. Be sure to measure in grooves nearest the center line of the tire.
- 3. Refer to ORIGINAL TREAD DEPTH for the size and type of the returned tire.

Use the ORIGINAL TREAD DEPTH CHART to determine the percentage of credit due based on remaining tread depth.

- 4. Fill out the CLAIM ADJUSTMENT FORM completely, sign it yourself and have it signed by the owner of the tire.

B. Fill out each claim form with the following information for each tire being adjusted :

- 1. Pattern Name
- 2. Month, Day, & Year of Claim
- 3. Distributor's Name and Address
- 4. Dealer's Name and Address
- 5. Fleet (commercial use only) Name and Address
- 6. Owner's Name and Address
- 7. Size, Type, Ply-Rating of Tire
- 8. Material Number
- 9. MFG's Serial Number (commercial use only)
- 10. D.O.T. Number of Tire
- 11. Remaining Tread Depth (Inch)
- 12. Description of Defect
- 13. Details and Damages if Any Defect

This form must be accurately completed by the dealer and signed by the owner of the product. Incomplete forms will not be accepted.

C. Marking tires for physical inspection :

Please mark all tires being shipped to our claim center in the following manner.

- 1. Clearly state dealer's name.
- 2. Mark over identification (DOT) number with crayon and make clearly legible (Disregard if DOT has been cut & sent in with claim).
- 3. Tire condition - circle area of failure (a two-inch crayon mark around the condition). Ride complaints should be marked as “O.R.”

- 4. Claim number close to identification number using the last two digits of claim number. Example: If claim number is “H-00123” and the item is number “1”, then the number you would mark on the tire would be “23-1”.
- 5. Attach a copy of all claim forms to the packing list. vehicle alignment and tire rotation, expected tire packing list.

D. Forwarding claim forms to Hankook :

Retain “Dealer’s File Copy” for your records and forward all other copies to:

- 1. Western Area (AK, AZ, CA, CO, HI, ID, MT, NM, NV, OR, UT, WA, WY)

Hankook Tire America Corp.
11555 Arrow Route
Suite 105
Rancho Cucamonga, CA 91730
Attn: Technical Department

- 2. Other Areas
Hankook Tire America Corp.
1450 Valley Road
Wayne, New Jersey 07470
Attn: Technical Department

E. For photo inspection :

Accumulation of 30 tires or less: Enclose cut-out DOT numbers and a photograph of the tire with the claim form.

When an adjustment is received, Hankook will... Review the claim within thirty (30) days and either issue credit or request the tires to be shipped to our claim center for physical inspection. If we decide a physical inspection is necessary, we will send you a written request to ship the tires to a designated location. (NOTE: DO NOT send tires to our claim centers unless you are requested to do so.)

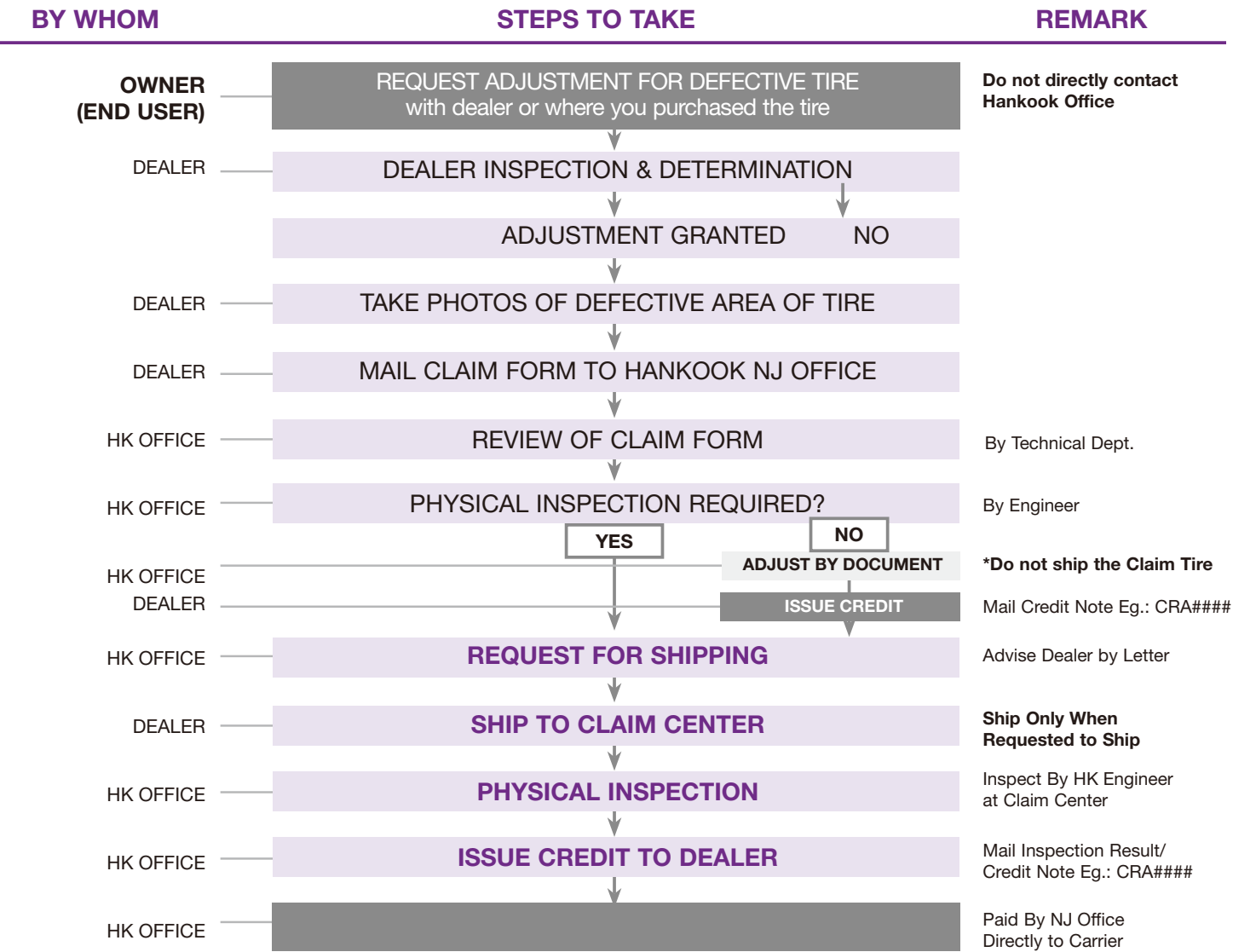
Tires must be held by you for thirty days or until credit has been received whichever is later. If tires are requested to be shipped for inspection during this period and are not available, claim will be disallowed and adjustment credit will not be issued.

Claim Procedure Flow Chart

In determining the cause for removal from service, always examine both the inside and outside of the tire body. If the tire is not entitled to adjustment, Hankook will advise the dealer; explain the reason for the failure and advise him/her of preventive maintenance.

Remember :


- 1. Adjustments will be made on a pro-rata basis, calculated on remaining usable tread depth and the predetermined adjustment price if there is no applicable special warranty program.
 - 2. Usable tread depth is the original depth less 2/32nds of an inch.
 - 3. When the tire is worn down to 2/32nds, the tire is considered worn out and the warranty expires.
- 4. Tires having had DOT or serial numbers previously cut or mutilated will not be adjusted.
 - 5. The result of physical inspections by Hankook will prevail over your findings to the contrary subject to your right to legally contest our findings.
 - 6. Where physical inspection is required, please refer to freight policy for shipping instruction and for tire marking.



NOTE : No freight will be paid where shipment of tire was not required. Where tires are shipped to wrong address or shipped where not requested, freight will be paid by shipper.

Claim Form Sample

Freight Policy



TIRE CLAIM FORM

HANKOOK TIRE AMERICA CORP.

Technical Department

1450 Valley Road., Wayne NJ 07470

Tel: 1-800-HANKOOK (426-5665)

DATE OF CLAIM

/ 2 /

Pattern Name : 1

OWNER'S COPY

H 1234567

DISTRIBUTOR		DEALER		FLEET (Commercial Use Only)		OWNER-USER	
NAME :		NAME :		NAME :		NAME :	
ADDRESS :		ADDRESS :		ADDRESS :		ADDRESS :	
3		4		5		6	
ACCT# :		ACCT# :		ACCT# :		ACCT# :	

ITEM NO.	SIZE / TYPE / PLY	FOR OFFICE USE ONLY	MATERIAL NO.	MFG'S SERIAL NO. (Commercial Use Only)	D.O.T. NUMBER	32NDS REMAINING	DESCRIPTION OF DEFECT
1	7		8	9	10	11	12
2							
3							
4							
5							
6							
7							
8							

OTHER, PLEASE DESCRIBE: 13

I hereby certify that the above described merchandise was sold in New/Unused condition to the Owner-User identified above and that all the foregoing statements are actually correct. Having discussed this adjustment claim in detail with the Owner-User, I am convinced that the merchandise presented for adjustment was not involved in a motor vehicle accident.

DEALER'S SIGNATURE 14

I hereby certify that I am the original Owner-User of the above described merchandise was not involved in a motor vehicle accident and that all the foregoing statements are factually correct.

OWNER-USER'S SIGNATURE 15

TIRES MUST BE HELD UNTIL FURTHER NOTICE, OR UNTIL CREDIT IS RECEIVED. SHOULD TIRES BE REQUESTED FOR INSPECTION AND BE UNAVAILABLE, ADJUSTMENTS CREDIT WILL NOT BE ISSUED.

INSTRUCTIONS : 30 OR MORE TIRES CALL TECHNICAL DEPARTMENT.
PLEASE INSERT : 1.CUT OUT D.O.T. NO. 2.PHOTOS SHOWING DEFECTIVE PARTS
RETAIN WHITE COPY FOR YOUR RECORDS.
RETURN BALANCE OF SET TO : HANKOOK TIRE AMERICA CORP.

NOTE : Please fill in completely the following items

1. Pattern Name
2. Month, Day, & Year of Claim
3. Distributor's Name and Address
4. Dealer's Name and Address
5. Fleet (commercial use only) Name and Address
6. Owner's Name and Address
7. Size, Type, Ply-Rating of Tire
8. Material Number
9. MFG's Serial Number (commercial use only)
- 10.D.O.T. Number of Tire
- 11.Remaining Tread Depth (Inch)
- 12.Description of Defect
- 13.Details and Damages if Any Defect
- 14.Signature of Dealer
- 15.Signature of Owner (User)

1. Do not ship tires to Hankook's Claim Centers unless we requested you to do so.
6. Please use one of the following freight companies to ship tires/tubes to Hankook's Claim Centers.

To : Edison, NJ
320 Mill Road
Edison, NJ 08817

- Con Way
- Yellow Freight

To: Rancho Cucamonga, CA
11555 Arrow Route
Suite 105
Rancho Cucamonga, CA 91730

- Con Way
- Yellow Freight

Not available for shipment from California and Nevada.

NOTE : Freight will not be paid by Hankook unless one of the above companies is used. Exceptions will be taken only in cases where none of these freight lines can pick-up in your area, and you further obtain our approval in advance.

2. Hankook Tire America Corp. will pay freight charges for all adjustment shipments requested by Hankook. Indicate Hankook Tire as the 3rd party to be billed on the freight bill of lading. Tires shipped on your own, not at Hankook's request, will be at your own expense. If sent collect, shipment will be refused and returned to you. This should reduce the freight bill by 40% to 60%.
3. When writing the bill of lading, the classification you assign to the adjustment tires should be:
"CLASS-60-ITEM #157235, Scrap Rubber Tires", having a value only for reclamation of raw material and not exceeding \$1.00 per pound.
4. Average weights for adjustment are:
A. All Passenger Tires: 20 Pounds/Each
B. Light Truck Tires: 40 Pounds/Each
C. Medium Truck Tires: 110 Pounds/Each
D. Tube Passenger Tires: 2 Pounds/Each
E. Tube Truck Tires: 8 Pounds/Each
5. If you wish to have rejected tires returned to you, please so indicate on the TIRE SHIPMENT REQUEST and return same to us. Any rejected tires that you request to be returned after a physical inspection will be shipped back to you freight collect.

General Terms & Policies

This Marketing Policy applies to all Hankook brand tires distributed by Hankook Tire America Corp. In this Marketing Policy, discounts and credits vary on the categories of products.

Following categories are used :

1. PCR : Passenger Car Radial Tires (Including Z36 P235/75R15 XL, RF08, RH03 P-Metric, RA08)
2. LTR : Light Truck Radial Tires
3. TBR : Medium Truck Radial Tires (Tires over 17.5")

Credit Percentage Table 1

Remaining Tread Depth	ORIGINAL TREAD DEPTH (1/32")																					
	(1/32")	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5
	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2.5		7	7	6	6	6	5	5	5	5	4	4	4	4	4	4	3	3	3	3	3
	3.0		14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7	7	6	6	6
	3.5		21	20	19	18	17	16	15	14	14	13	13	12	12	11	11	10	10	10	9	9
	4.0		29	27	25	24	22	21	20	19	18	17	17	16	15	15	14	14	13	13	13	12
	4.5		36	33	31	29	28	26	25	24	23	22	21	20	19	19	18	17	17	16	16	15
	5.0		43	40	38	35	33	32	30	29	27	26	25	24	23	22	21	21	20	19	19	18
	5.5		50	47	44	41	39	37	35	33	32	30	29	28	27	26	25	24	23	23	22	21
	6.0		57	53	50	47	44	42	40	38	36	35	33	32	31	30	29	28	27	26	25	24
	6.5		64	60	56	53	50	47	45	43	41	39	38	36	35	33	32	31	30	29	28	27
	7.0		71	67	63	59	56	53	50	48	45	43	42	40	38	37	36	34	33	32	31	30
	7.5		79	73	69	65	61	58	55	52	50	48	46	44	42	41	39	38	37	35	34	33
	8.0		86	80	75	71	67	63	60	57	55	52	50	48	46	44	43	41	40	39	38	36
	9.0		100	93	88	82	78	74	70	67	64	61	58	56	54	52	50	48	47	45	44	42
	9.5			100	94	88	83	79	75	71	68	65	63	60	58	56	54	52	50	48	47	45
	10.0				100	94	89	84	80	76	73	70	67	64	62	59	57	55	53	52	50	48
	10.5					100	94	89	85	81	77	74	71	68	65	63	61	59	57	55	53	52
	11.0						100	95	90	86	82	78	75	72	69	67	64	62	60	58	56	55
	11.5							100	95	90	86	83	79	76	73	70	68	66	63	61	59	58
	12.0								100	95	91	87	83	80	77	74	71	69	67	65	63	61
	12.5									100	95	91	88	84	81	78	75	72	70	68	66	64
	13.0										100	96	92	88	85	81	79	76	73	71	69	67
	13.5											100	96	92	88	85	82	79	77	74	72	70
	14.0												100	96	92	89	86	83	80	77	75	73
	14.5													100	96	93	89	86	83	81	78	76
	15.0														100	96	93	90	87	84	81	79
	15.5															100	96	93	90	87	84	82
	16.0																100	97	93	90	88	85
	16.5																	100	97	94	91	88
	17.0																		100	97	94	91
	17.5																			100	97	94
	18.0																				100	97
	18.5																					100

Credit Percentage Table 2

Remaining Tread Depth	ORIGINAL TREAD DEPTH (1/32")																			
	(1/32")	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	9	8	8	7	7	6	6	6	5	5	5	5	4	4	4	4	4	4	4
	4	18	17	15	14	13	13	12	11	11	10	10	9	9	8	8	8	7	7	7
	5	27	25	23	21	20	19	18	17	16	15	14	14	13	13	12	12	11	11	11
	6	36	33	31	29	27	25	24	22	21	20	19	18	17	17	16	15	15	14	14
	7	45	42	38	36	33	31	29	28	26	25	24	23	22	21	20	19	19	18	18
	8	55	50	46	43	40	38	35	33	32	30	29	27	26	25	24	23	22	21	21
	9	64	58	54	50	47	44	41	39	37	35	33	32	30	29	28	27	26	25	25
	10	73	67	62	57	53	50	47	44	42	40	38	36	35	33	32	31	30	29	29
	11	82	75	69	64	60	56	53	50	47	45	43	41	39	38	36	35	33	32	32
	12	91	83	77	71	67	63	59	56	53	50	48	45	43	42	40	38	37	36	36
	13	100	92	85	79	73	69	65	61	58	55	52	50	48	46	44	42	41	39	39
	14		100	92	86	80	75	71	67	63	60	57	55	52	50	48	46	44	43	43
	15			100	93	87	81	76	72	68	65	62	59	57	54	52	50	48	46	46
	16				100	93	88	82	78	74	70	67	64	61	58	56	54	52	50	50
	17					100	94	88	83	79	75	71	68	65	63	60	58	56	54	54
	18						100	94	89	84	80	76	73	70	67	64	62	59	57	57
	19							100	94	89	85	81	77	74	71	68	65	63	61	61
	20								100	95	90	86	82	78	75	72	69	67	64	64
	21									100	95	90	86	83	79	76	73	70	68	68
	22										100	95	91	87	83	80	77	74	71	71
	23											100	95	91	88	84	81	78	75	75
	24												100	96	92	88	85	81	79	79
	25													100	96	92	88	85	82	82
	26														100	96	92	89	86	86
	27															100	96	93	89	89
	28																100	96	93	93
	29																	100	96	96
	30																			100

Adjustment Percentage For Customer

BASED ON MILEAGE RUN FOR MILEAGE WARRANTY TIRE

TABLE 3						
MILEAGE RUN	CREDIT % TO CUSTOMER					
	40,000	50,000	60,000	70,000	85,000	100,000
Under 999 Miles	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1,000 – 1,999	97.5%	98.0%	98.3%	98.6%	98.8%	99.0%
2,000 – 2,999	95.0%	96.0%	96.7%	97.1%	97.6%	98.0%
3,000 – 3,999	92.5%	94.0%	95.0%	95.7%	96.5%	97.0%
4,000 – 4,999	90.0%	92.0%	93.3%	94.3%	95.3%	96.0%
5,000 – 5,999	87.5%	90.0%	91.7%	92.9%	94.1%	95.0%
6,000 – 6,999	85.0%	88.0%	90.0%	91.4%	92.9%	94.0%
7,000 – 7,999	82.5%	86.0%	88.3%	90.0%	91.8%	93.0%
8,000 – 8,999	80.0%	84.0%	86.7%	88.6%	90.6%	92.0%
9,000 – 9,999	77.5%	82.0%	85.0%	87.1%	89.4%	91.0%
10,000 – 10,999	75.0%	80.0%	83.3%	85.2%	88.2%	90.0%
11,000 – 11,999	72.5%	78.0%	81.7%	84.3%	87.1%	89.0%
12,000 – 12,999	70.0%	76.0%	80.0%	82.9%	85.9%	88.0%
13,000 – 13,999	67.5%	74.0%	78.3%	81.4%	84.7%	87.0%
14,000 – 14,999	65.0%	72.0%	76.7%	80.0%	83.5%	86.0%
15,000 – 15,999	62.5%	70.0%	75.0%	78.6%	81.2%	85.0%
16,000 – 16,999	60.0%	68.0%	73.3%	77.1%	80.0%	84.0%
17,000 – 17,999	57.5%	66.0%	71.7%	75.7%	78.8%	83.0%
18,000 – 18,999	55.0%	64.0%	70.0%	74.3%	77.6%	82.0%
19,000 – 19,999	52.5%	62.0%	68.3%	72.9%	76.5%	81.0%
20,000 – 20,999	50.0%	60.0%	66.7%	71.4%	75.3%	80.0%
21,000 – 21,999	47.5%	58.0%	65.0%	70.0%	74.1%	79.0%
22,000 – 22,999	45.0%	56.0%	63.3%	68.6%	72.9%	78.0%
23,000 – 23,999	42.5%	54.0%	61.7%	67.1%	71.8%	77.0%
24,000 – 24,999	40.0%	52.0%	60.0%	65.7%	70.6%	76.0%
25,000 – 25,999	37.5%	50.0%	58.3%	64.3%	69.4%	75.0%
26,000 – 26,999	35.0%	48.0%	56.7%	62.9%	68.2%	74.0%
27,000 – 27,999	32.5%	46.0%	55.0%	61.4%	67.1%	73.0%
28,000 – 28,999	30.0%	44.0%	53.3%	60.0%	65.9%	72.0%
29,000 – 29,999	27.5%	42.0%	51.7%	58.6%	64.7%	71.0%
30,000 – 30,999	25.0%	40.0%	50.0%	57.1%	63.5%	70.0%
31,000 – 31,999	22.5%	38.0%	48.3%	55.7%	61.2%	69.0%
32,000 – 32,999	20.0%	36.0%	46.7%	54.3%	60.0%	68.0%
33,000 – 33,999	17.5%	34.0%	45.0%	52.9%	58.8%	67.0%
34,000 – 34,999	15.0%	32.0%	43.3%	51.4%	57.6%	66.0%
35,000 – 35,999	12.5%	30.0%	41.7%	50.0%	56.5%	65.0%
36,000 – 36,999	10.0%	28.0%	40.0%	48.6%	55.3%	64.0%
37,000 – 37,999	7.5%	26.0%	38.3%	47.1%	54.1%	63.0%
38,000 – 38,999	5.0%	24.0%	36.7%	45.7%	52.9%	62.0%
39,000 – 39,999	2.5%	22.0%	35.0%	44.3%	51.8%	61.0%
40,000 – 40,999	0.0%	20.0%	33.3%	42.9%	50.6%	60.0%
41,000 – 41,999		18.0%	31.7%	41.4%	49.4%	59.0%
42,000 – 42,999		16.0%	30.0%	40.0%	48.2%	58.0%
43,000 – 43,999		14.0%	28.3%	38.6%	47.1%	57.0%
44,000 – 44,999		12.0%	26.7%	37.1%	45.9%	56.0%
45,000 – 45,999		10.0%	25.0%	35.7%	44.7%	55.0%
46,000 – 46,999		8.0%	23.3%	34.3%	43.5%	54.0%
47,000 – 47,999		6.0%	21.7%	32.9%	41.2%	53.0%
48,000 – 48,999		4.0%	20.0%	31.4%	40.0%	52.0%
49,000 – 49,999		2.0%	18.3%	30.0%	38.8%	51.0%
50,000 – 50,999		0.0%	16.7%	28.6%	37.6%	50.0%
50,000 – 50,999			16.7%	28.6%	37.6%	50.0%
51,000 – 51,999			15.0%	27.1%	36.5%	49.0%
52,000 – 52,999			13.3%	25.7%	35.3%	48.0%

TABLE 3						
MILEAGE RUN	CREDIT % TO CUSTOMER					
	40,000	50,000	60,000	70,000	85,000	100,000
53,000 – 53,999			11.7%	24.3%	34.1%	47.0%
54,000 – 54,999			10.0%	22.9%	32.9%	46.0%
55,000 – 55,999			8.3%	21.4%	31.8%	45.0%
56,000 – 56,999			6.7%	20.0%	30.6%	44.0%
57,000 – 57,999			5.0%	18.6%	29.4%	43.0%
58,000 – 58,999			3.3%	17.1%	28.2%	42.0%
59,000 – 59,999			1.7%	15.7%	27.1%	41.0%
60,000 – 69,000			0.0%	14.3%	25.9%	40.0%
61,000 – 61,999				12.9%	24.7%	39.0%
62,000 – 62,999				11.4%	23.5%	38.0%
63,000 – 63,999				10.0%	21.2%	37.0%
64,000 – 64,999				8.6%	20.0%	36.0%
65,000 – 65,999				7.1%	18.8%	35.0%
66,000 – 66,999				5.7%	17.6%	34.0%
67,000 – 67,999				4.3%	16.5%	33.0%
68,000 – 68,999				2.9%	15.3%	32.0%
69,000 – 69,999				1.4%	14.1%	31.0%
70,000 – 70,999				0.0%	12.9%	30.0%
71,000 – 71,999					11.8%	29.0%
72,000 – 72,999					10.6%	28.0%
73,000 – 73,999					9.4%	27.0%
74,000 – 74,999					8.2%	26.0%
75,000 – 75,999					7.1%	25.0%
76,000 – 76,999					5.9%	24.0%
77,000 – 77,999					4.7%	23.0%
78,000 – 78,999					3.5%	22.0%
79,000 – 79,999					1.2%	21.0%
80,000 – 89,999					0.0%	20.0%
81,000 – 81,999						19.0%
82,000 – 82,999						18.0%
83,000 – 83,999						17.0%
84,000 – 84,999						16.0%
85,000 – 85,999						15.0%
86,000 – 86,999						14.0%
87,000 – 87,999						13.0%
88,000 – 88,999						12.0%
89,000 – 89,999						11.0%
90,000 – 90,999						10.0%
91,000 – 91,999						9.0%
92,000 – 92,999						8.0%
93,000 – 93,999						7.0%
94,000 – 94,999						6.0%
95,000 – 95,999						5.0%
96,000 – 96,999						4.0%
97,000 – 97,999						3.0%
98,000 – 98,999						2.0%
99,000 – 99,999						1.0%
1000,000 & Over						0.0%

• To Dealer : The dealer credit amount will be calculated by the following formula:

*C= $\frac{\text{Warranted Miles} - \text{Actual Mileage Run}}{\text{Warrant Miles}} \times P$

C : Credit Amount P : The Predetermined Adjustment Price

Adjustment Credit for Treadwear Warranty

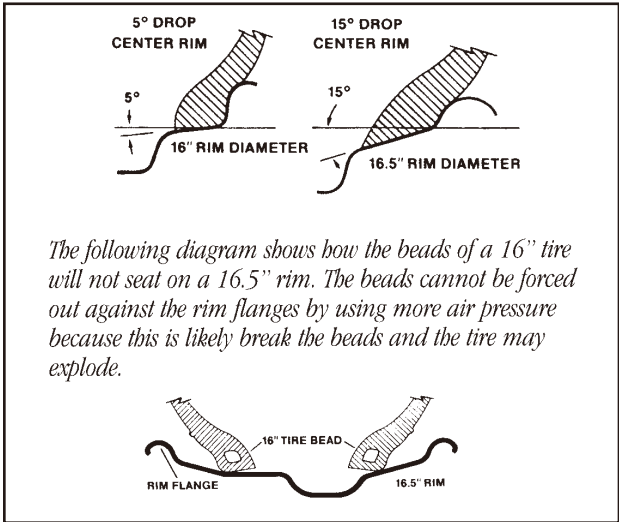
• To Customer : Customer must submit the worn-out tire, warranty registration card and verification card. The adjustment credit to the customer for a replacement tire will be calculated by dividing the difference between warranted miles and actual mileage run by warranted miles (see table 3) and then multiplying by the predetermined adjustment price. Mounting and balancing costs and applicable taxes must be paid by the customer. Fill out adjustment form as per instructions.

There is extreme danger in attempting to install 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 diameter tire designation and suffix letters.

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 diameter rim, it cannot be inflated enough to position itself against the rim flange. If an attempt is made to seat the tire bead by inflating, the tire bead may break with explosive force and could cause serious bodily injury or death.

Rims of different diameters and tapers cannot be interchanged. The top right diagrams illustrate the difference between rims of two different tapers and diameters.



**DEATH OR SERIOUS INJURY MAY RESULT FROM:
TIRE FAILURE DUE TO UNDER-INFLATION/OVER LOADING.
FOLLOW OWNER'S MANUAL OR TIRE PLACARD IN VEHICLE.
EXPLOSION OF TIRE/RIM ASSEMBLY MAY RESULT FROM IMPROPER MOUNTING.
DO NOT EXCEED 40 PSI TO SEAT BEADS.**

Only Specially Trained Persons Should Mount Tires.

TIRE MOUNTING PRECAUTIONS. WARNING TO AVOID INJURY.

1. CLEAN RIM. LUBRICATE RIM AND BEADS.
2. BE SURE BEADS ARE CENTERED.
3. DO NOT STAND OVER TIRE WHILE INFLATING.
4. AFTER BEADS SEAT, ADJUST TO RECOMMENDED INFLATION.

SPECIAL PRECAUTIONS FOR STEEL RADIAL TIRES.

- Moisture trapped inside tires can cause damage.
1. STORE TIRES IN DRY AREA.
 2. DRY INTERIOR BEFORE MOUNTING.
 3. INFLATE WITH COLD DRY AIR.

Deciding what to do when the wheels don't line up.

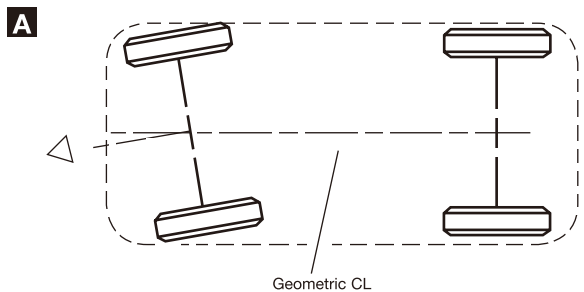
The vehicle center line of the chassis/body is found by measuring in equal distance from both sides of the vehicle.

The geometric center line is something a little different. It is determined by the midpoint between the front wheels and rear wheels. If the wheels or axles are not offset to one side, the geometric center line and vehicle center line will be identical. Should the front wheels or rear axle be slightly off center, however, the geometric center line will be at an angle to the vehicle center line. When the two lines do not coincide, tracking problems result.

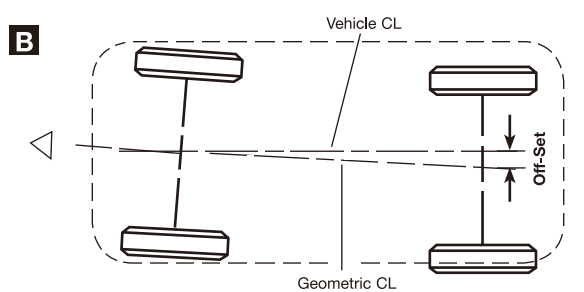
The rear wheels will not follow the front wheels because one set of wheels is offset from true center.

The third line we must deal with is the thrust line. This imaginary line also runs the length of the vehicle, and is determined by the total toe of the rear wheels. The thrust line divides the total toe in half. If toe for both rear wheels is zero (which is where it should be), the thrust line would be 90 degrees to the rear axle right up the center of the car.

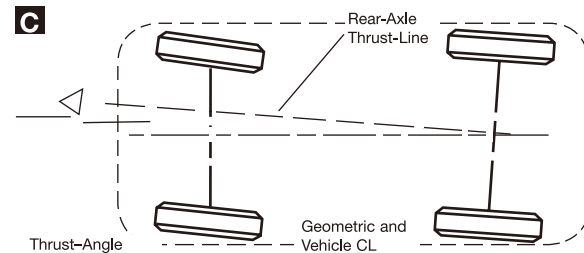
The geometric and vehicle center lines are one in the same in a properly aligned vehicle (shown in A).



If the rear axle is offset to one side (B) the geometric and vehicle center lines will be at an angle.



If the rear axle or wheels are toed to one side (C), the thrust line will not match up with the center line and the vehicle will pull-in this case to the left.



(Courtesy: Hunter Engineering)

Load Inflation Pressure Tables

Wide Base, Tubeless										
Tire size Tire Designation		The Load Limits (lbs.) at Various Cold Inflation Pressures (psi) (The pressure is minimum for the load)								
		80	85	90	95	100	105	110	120	130
385/65R22.5	S	6940	7350	7650	8050	8230	8510	8820	9050	9370(J)
425/65R22.5	S	8270	8740	9100	9370	9790	10100	10500(J)	10700	11400(L)
445/65R22.5	S	9090	9480	9870	10200	10600	11000	11400	11700	12300(L)

Tube Type												
Tire size Tire Designation		The Load Limits (lbs.) at Various Cold Inflation Pressures (psi) (The pressure is minimum for the load)										
		80	85	90	95	100	105	110	115	120	125	130
7.50R15TR	D	2460	2550	2640	2755(E)	2865	2975	3085(F)				
	S	2580	2690	2800	2910(E)	3040	3170	3305(F)				
8.25R15TR	D	2930	3040	3150	3260	3360	3470	3570(G)				
14PR	S	3080	3200	3340	3470	3590	3720	3830	3960	4070(G)		
8.25R15TR*	D				4080	4215	4340	4465	4590	4710	4830(J)	
18PR	S				4125	4275	4420	4565	4700	4835	4970(J)	
10.00R15TR	D	3980	4130	4300	4470(G)	4640	4805(G)	4990	5175	5355(H)	5435(J)	
	S	4170	4370	4540(F)	4715	4890	5070(G)	5270	5470	5670(H)	5905(J)	
8.25R20	D	3550(E)	3690	3820	3950(F)	4070	4200	4320(G)				
	S	3730	3890	4050(E)	4210	4350	4500(F)	4640	4790	4920(G)		
9.00R20	D	4200	4360	4520(F)	4670	4820	4970(G)					
	S	4410	4610(E)	4790	4970	5150(F)	5320	5490	5670(G)			
10.00R20	D	4760	4950	5205	5415(G)	5625	5840(G)	5895	5950	6005(H)		
	S	4990	5220	5510(F)	5730	5950	6175	6320	6465	6610(H)		
10.00R22	D	5070	5260	5510	5675(G)	5840	6005(G)	6205(H)	6405	6610(H)		
	S	5310	5550	5840(F)	6095	6350	6610(G)	6790	6970	7160(H)		
11.00R20	D	5190	5390	5675(F)	5785	5895	6005	6265	6525	6780(H)		
	S	5450	5690	6005(F)	6205	6405	6610(G)	6870	7130	7390(H)		
11.00R22	D	5520	5730	5840(F)	6095	6350	6610(G)	6790	6970	7160(H)		
	S	5790	6040	6395(F)	6650	6910	7160(G)	7380	7600	7830(H)		
12.00R20	D	5910	6140	6360	6610(G)	6790	6970	7160(H)	7390	7610(J)		
	S	6200	6480	6740	7160(G)	7380	7600	7830(H)	8050	8270(J)		
12.00R24	D	6650	6910	7160	7390(G)	7610	7830	8050(H)	8300	8540(V)		
	S	6980	7280	7580	8050(G)	8310	8570	8820(H)	9100	9370		
13/80R20	D			6315	6535	6745	6955	7165(J)				
	S			7085	7340	7570	7815	8045(J)				
14/80R20	S			7595	7860	8110	8365	8610	8850	9095(J)		

*OPERATING SPEED LESS THAN 55 MPH
Tire load limits at various inflation pressures are based upon Tire and Rim Association (TRA) standards and tables, except where there is no specification established by the TRA. In these few cases, the tire design is based upon the European Tire and Rim Technical Organization (ETRTO) whose standards govern these tire designs. To obtain recommendations for tires run in non-standard applications, customers and dealers should contact the Hankook Technical Service Department.



Tubeless												
Tire size Tire Designation		The Load Limits (lbs.) at Various Cold Inflation Pressures (psi) (The pressure is minimum for the load)										
		80	85	90	95	100	105	110	115	120	125	130
9R17.5HC	D	3020	3180	3335	3495	3650	3810	3970(H)				
	S	3385	3555	3730	3900	4070	4240	4410(H)				
10R17.5	D	3620	3765	3895	4030	4160	4290	4410(H)				
	S	3745	3910	4070	4225	4380	4530	4675(H)				
11R17.5HC	D	3980	4130	4280	4430	4570	4170	4850(H)				
	S	4170	4370	4540	4170	4880	5050	5210	5370	5530(H)		
9R22.5	D	3550	3690	3860(E)	4005	4150	4300(F)	4425	4550	4675(G)		
	S	3730	3890	4080(E)	4235	4390	4540(F)	4675	4810	4940(G)		
10R22.5	D	4230	4410	4585(F)	4760	4940(F)	5075(G)	5210	5355			
	S	4480	4675(E)	4850	5025	5205(F)	5360	5515	5675(G)			
11R22.5	D	4760(F)	4950	5205(F)	5415	5625	5840(G)	5895	5950	6005(H)		
	S	4990	5220	5510(F)	5730	5950	6175(G)	6320	6465	6610(H)		
11R24.5	D	5070	5260	5510	5675	5840	6005(G)	6205	6405	6610(H)		
	S	5310	5550	5840	6095	6350	6610(G)	6790	6970	7160		
12R22.5	D	5190	5390	5675(F)	5785	5895	6005(G)	6265(H)	6525	6780(H)		
	S	5450	5690	6005	6205	6405	6610	6870	7130	7390(H)		
225/70R19.5	D	3000(E)	3115	3245	3415(F)	3490	3615	3750(G)				
	S	3195(E)	3315	3450	3640(F)	3715	3845	3970(G)				
245/70R19.5	D	3415	3515	3655	3860(F)	3940	4075	4300(G)	4345	4540(H)		
	S	3640	3740	3890	4080(F)	4190	4335	4540(G)	4620	4805(H)		
265/70R19.5	D	3750	3930	4095	4300	4405	4415	4675(G)				
	S	3970	4180	4355	4540	4685	4850	5070(G)				
285/70R19.5	D				4850	5070	5290	5435	5555	6575(H)		
	S				5160	5395	5635	5785	5980	6175(H)		
245/75R22.5	D	3640	3615	3765	3970	4055(G)						
	S	3860	3975	4140	4300	4455	4610	4675(G)				
265/75R22.5	D	3860	4040	4205	4410	4525	4685	4805(G)				
	S	4300	4440	4620	4805	4975	5150	5205(G)				
255/70R22.5	D	3970	4110	4275	4410	4455	4610	4675(G)	4915	5070(H)		
	S	4190	4370	4550	4675	4895	5065	5205(G)	5400	5510(H)		
275/70R22.5 16PR	D	4190	4410	4685	4905	5115	5400	5610	5895	6105	6395(H)	
	S	4550	4785	5095	5325	5555	5865	6095	6405	6635	6940(H)	
295/75R22.5	D	4540	4690	4885	5070(F)	5260	5440	5675(G)	5795	6005(H)		
	S	4940	5155	5370	5510(F)	5780	5980	6175(G)	6370	6610(H)		
315/80R22.5* 20PR	D	5535	5750	5960	6165	6370	6570	6770	6965	7160(J)	8025	8225(L)
	S	6225	6495	6760	7020	7280	7530	7780	8025	8270(J)	8275	9000(L)
315/80R22.5*	D		6140	6360	6645	6855	7065	7330	7540	7805	7935	8255(M)
22PR	S		7450	7705	8045	8300	8555	8885	9125	9445	9610	10000(M)
285/75R24.5	D	4540	4740	4930	5205(F)	5310	5495	5675(G)	5860	6175(H)		
	S	4940	5210	5420	5675(F)	5835	6040	6175(G)	6440	6780(H)		

Hankook Replacement Recommendations:
Tire Service Life for Passenger Car and Light Truck Tires.

There is no hard and fast rule to measure service life of a tire. Tires are made with various types of raw materials and a variety of rubber compounds all having varying performance properties. Once a tire is designed and manufactured to achieve given performance property and put into use, it is still subjected to varying conditions such as weather, storage, and still further varying use conditions such as load, speed, inflation pressure, maintenance and road condition. Since all these factors affect the service life of a tire, it just is not possible to predict with accuracy or scientific validity service life of a tire.

Tires unquestionably degrade over time, whether in use or not in use. Some tire and vehicle manufacturers published warnings to consumers of their products to the effect that tires should be replaced after six years of manufacture. Certain industry organizations issued statements concurring with six year service life for tires. Depending on severity of adverse use conditions or non-use, many tires degrade fast enough to require replacement before six years of service life. Others in perfectly favorable use conditions may enjoy service life of more than six years.

The following recommendations are intended to give consumers some idea concerning service life of a tire.

Hankook always insist and mandate that consumers properly maintain and periodically inspect their tires. Even if a consumer properly maintain and periodically inspect the tire, most tires will require replacement before 10 years of manufacture regardless of tread-wear. It is recommended that tires in service 10 years or more from the date of manufacture must be replaced even if it was never used.

Date of manufacture can be determined by reading the Department of Transportation (DOT) code on the sidewall. The entire code will be printed on outbound side of the tire. The DOT code will end with the week and year of manufacture. For example, a tire with DOT code reading 1GFN AVN 1408, was manufactured during the 14th week of 2008.

Consumers must regularly have tires inspected by qualified tire dealers throughout its life. Further tires that are over five years of age should be inspected at least twice a year and more frequently if the use is heavy.

Consumers must always be vigilant of their tires performance, condition, inflation pressure, and any other issues that could affect the life of a tire.

Consumers properly maintain, including proper inflation pressures, and periodically inspect your tires. Failure to do so might result in separation or performance loss resulting in vehicle damage, injury or even death.

For original equipment tires, acquired when purchasing a new vehicle, should follow all of vehicle manufacturers recommendations.

HANKOOK TIRE AMERICA CORPORATION
Technical Department
1-800-HANKOOK

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