

Types of Repairs & Repair Limits

- **Puncture Repair:**
 - An injury in the tread (crown) area only caused by a small, sharp object penetrating the innerliner of the tire.
 - The injury can be a maximum of 1/4" (6mm) in passenger tires & 3/8" (10mm) on light and medium truck tires.
 - (See next page for puncture repair procedures)
 - **Spot Repair:**
 - A rubber only repair that penetrates less than 25% of the body plies.
 - An area to be spot repaired must not exhibit any cord damage except in the case of Bias-Ply tires, which may have up to 25% of the cord plies injured.
 - **Reinforcement Repair:**
 - An injury which penetrates between 25% and up to 75% of the body plies.
 - A cord reinforced repair unit is required on the inner liner of the tire.
 - **Section Repair:**
 - An injury that penetrates 75% or more of the body plies and exceeds the puncture repair limits.
 - (See following pages for section repair procedures)
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Section Repair Limits for Radial Tires

Tire Size	Crown Limits	Sidewall Limits
Passenger: P195R and smaller	1/2" (13mm)	3/8" (9mm) x 2" (50mm) or 3/4" (19mm) x 1 1/2" (38mm)
P205R and larger	3/4" (19mm)	3/8" (9mm) x 2 3/4" (70mm) or 3/4" (19mm) x 2" (50mm)
Light Truck:	1" (25mm)	3/8" (9mm) x 3 1/8" (80mm) or 1" (25mm) x 2" (50mm)
Truck: 8.25R - 14.00R	1-1/2" (38mm)	3/4" (19mm) x 5 1/8" (130mm) or 1 1/4" (32mm) x 4" (102mm) 1 1/2" (38mm) x 3 1/8" (80mm)

* Wider repairs must be shorter in length

Section Repair Limits for Bias-Ply Tires

Non-Repairable Areas

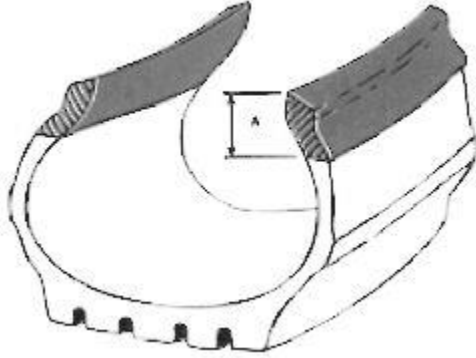
Highway Service Drive Trailer Applications		
Ply Rating	Crown	Sidewall
Up to 8	1" (25mm)	1" (25mm)
10 - 14	2" (51mm)	1" (25mm)
16 - 20	2-1/2" (64mm)	1 1/4" (32mm)

Highway Service Drive Trailer Applications		
Ply Rating	Crown	Sidewall
Up to 8	2" (51mm)	1 1/2" (38mm)
10 - 14	3" (76mm)	1 1/2" (38mm)
16 - 20	3-1/2" (89mm)	1 3/4" (45mm)

Non-Repairable Areas

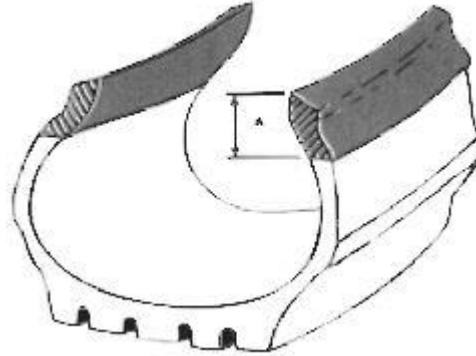
Radial Tire Non-Repairable

(Measure from toe of bead down innerliner)



Bias-Ply Tire Non-Repairable

(Measure from toe of bead down innerliner)



Passenger:		2-1/2" (64mm)
Light Truck:		2-1/4" (57mm)
Truck:	7.50	3-1/2" (89mm)
	8.50	3-1/4" (83mm)
	9.00 - 12.00	4" (102mm)

Tire Size	
7.00 - 8.75	3-1/4" (80mm)
9.00 - 14.00	4" (100mm)
16.00 - 18.00	5" (125mm)
21.00 - 29.50	6" (150mm)

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