TIRE

INFORMATION SERVICE BULLETIN

Volume 31/Number 2

LIGHT TRUCK TIRE REPAIR LIMITS

(LT-Metric, Numeric, High Flotation, and Wide Base)

Light truck (LT) tires are a large part of the North American tire market. This information is to supplement information contained in the RMA *Puncture Repair Procedures for Passenger and Light Truck Tires* wall chart. Always refer to the tire manufacturer's recommendations for its individual repair policy.

PUNCTURE REPAIRS FOR RADIAL LIGHT TRUCK TIRES

For tread area only punctures up to **1/4" (6 mm)**, use RMA's ***Puncture Repair Procedures for Passenger and Light Truck Tires*** wall chart. The chart covers tire sizes for light vehicles including all passenger car tires and some light truck tires through Load Range E. Light vehicles are motor vehicles with a gross vehicle weight rating (GVWR) of 10,000 lbs. or less. (For tires Load Range F and higher, refer to ***Puncture Repair Procedures for Truck/Bus Tires*** wall chart.)

NOTE: Puncture repairs should be confined to the tread area only as shown. The repair must be referred to a full-service repair facility[1] if the injury is larger than 1/4" or if the injury(ies) are located in the sidewall or bead areas.

SPOT REPAIRS FOR RADIAL AND BIAS LIGHT TRUCK TIRES

For injuries less than 25% of actual plies damaged, appropriate injury channel filling material is required. (Refer to Injury Chart 1.)

REINFORCEMENT REPAIR FOR RADIAL PLY LIGHT TRUCK TIRES

No reinforcement repairs are allowed for radial light truck tires. A section repair is required.

REINFORCEMENT REPAIRS FOR BIAS PLY LIGHT TRUCK TIRES

This type of repair is needed when from 25% to less than 75% of the actual plies have been damaged. The repair requires both a reinforcement repair unit and appropriate injury filling material (patch, plug, etc.). For further instructions, see RMA's Shop Bulletin No. 8 *Repairing Bias Ply Truck Tires in a Full-Service Facility*. Refer to repair manufacturer for the appropriate repair unit to be used. (Refer to Injury Chart 1.)

Continued ...

[1] A "full-service repair facility" is a facility with proper equipment, repair materials, and trained personnel to perform a full range of tire repairs off-the-rim, such as, puncture, spot, reinforcement, and section repairs.

RUBBER manufacturers association

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SECTION REPAIRS FOR RADIAL AND BIAS LIGHT TRUCK TIRES

Section repairs can be made to both bias and radial light truck tires by following instructions contained in RMA's Shop Bulletins No. 8 *Repairing Bias Ply Truck Tires in a Full-Service Repair Facility* and No. 42 *Section Repair of Radial Ply Truck Tires in a Full-Service Repair Facility*. Refer to repair manufacturer for the appropriate repair unit to be used. (Refer to Injury Size Chart 2.)

INJURY CHART 1

Number of Plies Damaged	Number of Acutal Plies* in Tire and Required Repair				
	4	**6**	**8**	**10**	**12**
1	R	SP	SP	SP	SP
2	R	R	R	SP	SP
3	S	R	R	R	R
4	S	R	R	R	R
5		S	R	R	R
6		S	S	R	R
7			S	R	R
8			S	S	R
9				S	S
10				S	S
11					S
12					S

KEY:
R = Reinforcement Repair (only in bias ply tires);
SP = Spot Repair; **S** = Section Repair

**The number of actual plies can be determined from the DOT required stamping on the tire sidewall. Consult state regulations for different specifications.*

Refer to repair materials manufacturer for the appropriate repair unit (patch, plug, etc.) to be used.

INJURY CHART 2

Bias Ply Light Truck Tire Load Range	**Maximum Injury Size Crown or Sidewall (Dimension*)**	
Load Range D (8 ply rating) & smaller	2"	(51mm)
Load Range E (10 ply rating)	2 1/2"	(64mm)

** Measurement is made across the widest point of the skive (opening) at the top ply.*

Radial Ply Light Truck Tire Size	**Maximum Injury Size Crown (Dimension*) | Sidewall (Width x Length)**	
7.50" & smaller	1" (25mm)	3/8" x 3 1/8" (10mm x 79mm)
>> OR <<		
ANY LT series tire	1" (25mm)	1" x 2" (25mm x 51mm)

** Measurement is made across the widest point of the skive (opening) at the innermost crown ply.*

Refer to repair materials manufacturer for the appropriate repair unit (patch, plug, etc.) to be used.

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