

NAIL HOLE REPAIR CHART - CROWN AREA ONLY

			1-Piece Repair (Injury Angle < 25 degrees)			2-Piece Repair (Injury Angle > 25 degrees)			
TIRE TYPE	Injury Size	Carbide Cutter	Combi With Pilot Wire	Patch-N-Plug Non-Reinforced	Patch-N-Plug Reinforced	Stem Unit/w Pilot Wire	Universal Patch	Radial Patch	Radial Cord Reinforced
Passenger	1/4"/6mm	CC-6	KX-387	KX-381	KX-375	KX-378	KX-UP-45	KX-MX10	KX-5101
Light Truck	1/4"/6mm	CC-6	KX-387	KX-381	KX-375	KX-378	KX-UP-55	KX-MX12	KX-5102
Heavy Duty Truck	1/4"/6mm	CC-6	KX-387	KX-381	KX-375	KX-378	NA	KX-MX14	KX-5102
	3/8"/10mm	CC-10	KX-388	KX-382	KX-376	KX-379	NA	KX-MX20	KX-5103

RADIAL TIRE SECTION REPAIR CHART

W = Width L = Length C = Max. Dia.	1 = Sidewall 2 = Tread 3 = Shoulder		
Heavy Truck		Sidewall Injury	Crown Injury
		Injury Inches	
8.25-10.00 9R-11R 235/-285/	11.00-14.00 12R-15R 295/-365/	W	L C
MX 20	MX 20	1 Cable	1-1/2" (37mm) 3/8" (10mm)
MX 22	MX 22	1 Cable	3-1/8" (78mm)
MX 24	MX 24	1 Cable	4-3/4" (120mm)
MX 20	MX 22	2 Cables	3/4" (20mm)
MX 22	MX 24	2 Cables	1-1/2" (37mm)
MX 24	MX 40	2 Cables	2-3/4" (70mm)
MX 24	MX 40	3/8" (10mm)	1" (25mm)
MX 24	MX 40	3/8" (10mm)	1-1/2" (37mm)
MX 24	MX 42	3/8" (10mm)	2-3/8" (60mm)
MX 44	MX 44	3/8" (10mm)	5-1/8" (128mm)
MX 40	MX 40	1/2" (12mm)	1-1/2" (37mm) 1/2" (12mm)
MX 40	MX 42	1/2" (12mm)	2-3/4" (70mm)
MX 42	MX 42	1/2" (12mm)	3-3/4" (95mm)
MX 44	MX 44	1/2" (12mm)	5-1/8" (128mm)
MX 40	MX 40	3/4" (20mm)	1" (25mm) 3/4" (20mm)
MX 40	MX 42	3/4" (20mm)	2-1/2" (62mm)
MX 42	MX 42	3/4" (20mm)	4-3/8" (110mm)
MX 44	MX 44	3/4" (20mm)	5-1/8" (128mm)
MX 42	MX 44	1" (25mm)	2" (50mm) 1" (25mm)
MX 42	MX 44	1" (25mm)	3-1/8" (78mm)
MX 44	MX 44	1" (25mm)	4" (100mm)
MX 42	MX 44	1-1/4" (31mm)	2" (50mm) 1-1/4" (31mm)
MX 44	MX 44	1-1/4" (31mm)	3-1/8" (78mm)
MX 44		1-1/4" (31mm)	4" (100mm)
MX 44	MX 44	1-1/2" (37mm)	2" (50mm) 1-1/2" (37mm)
MX 44		1-1/2" (37mm)	3-1/8" (78mm)

Radial Tire Patch Selection

- A. Only after the injury has been properly skived/prepared can the correct patch be selected.
- B. Measuring the injury:
 - Sidewall Injuries: Measure the length (L) and width (W) of the injury.
 - Tread/Crown Injuries:
 - 1) If the skived/dressed injury is round, measure only the maximum diameter (C) of the injury at the body ply.
 - 2) If the skived/dressed injury is oval or oblong shaped, measure both the length (L) and the width (W) of the injury at the body ply.
 - 3) If the maximum measurement of (C) is greater the L and W measurement, select the larger of the patches.
- C. Using the Tire Size column on the Application Charts, find the injury area column – Sidewall, Tread/Crown or Shoulder – and go down the corresponding column until you match the measured size of the injury to the correct patch.

BIAS PLY TIRE SECTION REPAIR CHART

Inches	mm	Ply Rating							
		4	6	8	10	12	14	16	18
3/8"	(10mm)	470	470	470	470	470	470	471	472
1/2"	(12mm)	470	470	470	471	472	472	472	473
3/4"	(20mm)	470	470	470	471	472	472	473	473
1"	(25mm)	470	470	471	472	472	473	473	474
1 1/2"	(37mm)	471	471	471	472	473	474	474	474
2"	(50mm)	473	473	473	474	474	474	474	
2 1/2"	(62mm)	474	474	474	474	474			

Bias Tire Patch Selection

- A. Only after the injury has been properly skived can the correct patch be selected.
- B. When measuring the injury, always measure the longest damage of the top damaged ply.
- C. Note the ply rating of the tire. (This can be found embossed into the sidewall of the tire).
- D. Find the injury size on the Application Chart, read across the chart to find the correct patch based on the tire ply rating.