

# BIAS TIRE INJURY APPLICATION CHARTS

## Passenger, Truck & Off-The-Road



### CX Passenger, Truck & OTR Bias Tire Repair Application

INJURY SIZE*		TIRE PLY RATING							
Inches	mm	4 Ply	6 Ply	8 Ply	10 Ply	12 Ply	14 Ply	16 Ply	18 Ply
1/4	6	CX 2	CX 2	CX 2	CX 2	CX 2	CX 2	CX 3	CX 3
3/8	10	CX 2	CX 2	CX 2	CX 2	CX 2	CX 3	CX 4-2	CX 5-3
1/2	13	CX 3-2	CX 3-2	CX 3-2	CX 4-2	CX 4-2	CX 4-2	CX 5-3	CX 7-3
3/4	19	CX 4-2	CX 4-2	CX 4-2	CX 5-3	CX 5-3	CX 5-3	CX 6-4	CX 6-4
1	25	CX 5-3	CX 5-3	CX 5-3	CX 5-3	CX 6-4	CX 6-4	CX 8-4	CX 9-6
1 1/2	38	CX 5-3	CX 5-3	CX 7-3	CX 7-3	CX 6-4	CX 6-4	CX 9-6	CX 9-6
2	51	CX 7-3	CX 7-3	CX 6-4	CX 8-4	CX 9-6	CX 9-6	CX 12-6	CX 12-6
2 1/2	64	CX 8-4	CX 8-4	CX 8-4	CX 8-4	CX 9-6	CX 12-6	CX 15-6	CX 15-6
3	76			CX 9-6	CX 9-6	CX 12-6	CX 12-6	CX 16-8	CX 16-8
4	102				CX 15-6	CX 15-6	CX 15-6	CX 16-8	CX 16-8
5	127							CX 18-8	CX 18-8

\*Reinforced repairs-down size one patch, i.e. 1 1/2" injury on 12 ply-rating tire. Section repair: 6-4, reinforced repair: 5-3.

## Skidder/Tractor & Farm Implement



### CX/SKD Bias Tire Repair Application

INJURY SIZE*		TIRE PLY RATING						
Inches	mm	4 Ply	6 Ply	8 Ply	10 Ply	12 Ply	14 Ply	16 Ply
1/8	3	CX 1	CX 1	CX 1	CX 1	CX 2	CX 2	CX 3
1/4	6	CX 1	CX 1	CX 1	CX 1	CX 2	CX 2	CX 3
3/8	10	CX 3-2	CX 3-2	CX 3-2	CX 3-2	CX 3-2	CX 4-2	CX 4-2
1/2	13	CX 4-2	CX 4-2	CX 4-2	CX 4-2	CX 4-2	CX 4-2	CX 5-3
3/4	19	CX 4-2	CX 4-2	CX 6-2	CX 6-2	CX 7-3	CX 7-3	CX 6-4
1	25	CX 6-2	CX 6-2	CX 7-3	CX 7-3	CX 7-3	CX 7-3	CX 8-4
1 1/2	38	CX 7-3	CX 7-3	CX 8-4	CX 8-4	CX 8-4	CX 8-4	SKD 5
2	51	CX 7-3	CX 7-3	CX 8-4	CX 8-4	CX 9-6	CX 9-6	SKD 6
2 1/2	64	CX 8-4	CX 8-4	CX 9-6	CX 9-6	CX 9-6	CX 9-6	SKD 7
3	76	CX 8-4	CX 9-6	CX 9-6	SKD 1	SKD 5	SKD 5	SKD 8
4	102	CX 8-4	SKD 1	SKD 1	SKD 2	SKD 5	SKD 5	SKD 8
5	127	CX 10-4	SKD 1	SKD 1	SKD 2	SKD 6	SKD 7	HDSKD 6
6	152	SKD 2	SKD 2	SKD 2	SKD 3	SKD 6	SKD 7	HDSKD 6
7	178	SKD 2	SKD 2	SKD 2	SKD 3	SKD 7	SKD 8	HDSKD 7
8	203	SKD 3	SKD 3	SKD 3	SKD 3	SKD 7	SKD 8	HDSKD 8
9	229		SKD 4	SKD 4	SKD 4	SKD 8	HDSKD 9	HDSKD 9
10	254		SKD 4	SKD 4	SKD 4			HDSKD 9

\*Reinforced repairs - downsize one patch i.e. 1 1/2" injury on 12 ply-rating tire. Section repair: 8-4, reinforced repair: 7-3.

## Earthmover/Off-The-Road



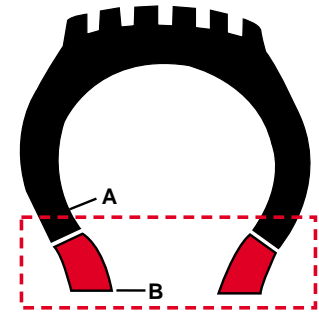
### EM/OTR Bias Tire Repair Application

INJURY SIZE*†		TIRE PLY RATING									
Inches	mm	2-4	6-8	10-12	14-16	18-20	22-24	26-28	30-36	38-44	46 & Over
1/2	13	4	4	4	4	4	6	6	6	6	6
1	25	4	6	6	6	6	6	6	6	6	8
1 1/2	38	4	6	6	6	6	6	8	8	8	8
2	51	4	6	6	8	8	8	8	8	8	10
2 1/2	64		6	6	8	8	8	10	10	10	12
3	76		6	8	10	10	10	10	10	12	14
4	102			8	10	10	10	12	12	12	14
5	127				10	10	12	12	12	14	16
6	152				12	12	12	14	14	16	16
7	178					12	14	14	16	16	18
8	203						14	16	18	18	18
9	229						16	16	18	18	20
10	254							18	18	20	20
11	279								20	20	20
12	305									20	20

\*For high speed, severe service, add length plus width of injury to determine "injury size".

†Reinforced repairs - downsize one patch i.e. 2" injury on 18 ply rating tire. Section repair: 8, reinforced repair: 6.

## BIAS TIRE



A-B  
NON-REPAIRABLE  
AREA

### TIRE SIZE

Passenger	2" (51mm)
Light Truck (7.00 - 8.75)	3 1/4" (80mm)
Heavy Duty (9.00 - 14.00)	4" (100mm)
16.00 - 18.00 (20.5 - 22.5)	5" (125mm)
21.00 - 29.5 (26.5 - 33.8)	6" (150mm)
30.00 - 33.00 (37.25 - 37.5)	7" (195mm)
36.00 - up	8" (200mm)

## Butterfly Sidewall Bias Tire Repair Application

INJURY SIZE*†		TIRE PLY RATING		
Inches	mm	12-16	18-22	24-30
1-3	25-76	1	2	2
4	102	1	2	2
5	127	2	2	3
6	152	2	3	3
7	178		3	4
8	203		4	4
9	229		4	5
10	254		5	5
11	279			5
12	305			5

### ATTENTION:

Tire repair unit selection charts are a guideline based on available industry information. O.E. Tire Manufacturers should be consulted for detailed repair limitations and information.