

Fig. 1

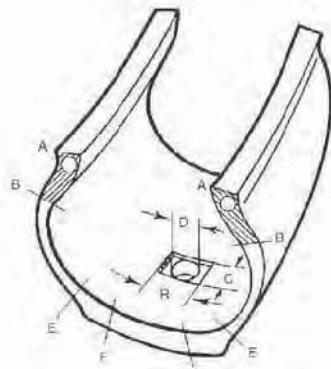


Fig. 2

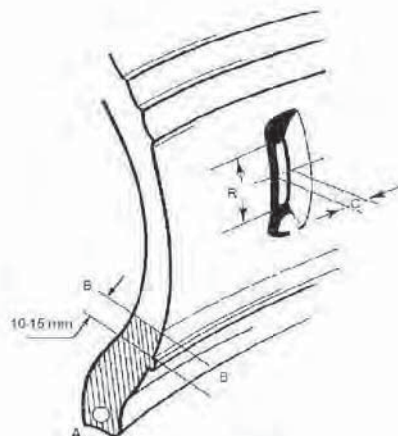


Fig. 3

**TURISMO.- CUADRO DE APLICACIÓN DE LOS PARCHES MCX, MSX, MFX**

| DIMENSIONES DE LA AVERÍA |             |  | Secciones de cubiertas, situación de la avería y recomendación del parche adecuado |                  |    |    |   |                  |    |    |    |   |                        |                  |    |    |    |
|--------------------------|-------------|--|--|------------------|----|----|---|------------------|----|----|----|---|------------------------|------------------|----|----|----|
| COSTADO                  |             | HOMBRO Y RODAMIENTO<br>Diámetro D (mm) | COSTADO  |                  |    |    |   | HOMBRO           |    |    |    |   | RODAMIENTO             |                  |    |    |    |
| Ancho C (mm)             | Alto R (mm) |  | Q  | T                | H  | V  | Z | Q                | T  | H  | V  | Z | Q                      | T                | H  | V  | Z  |
| -                        | -           | 3                                      | -  | -                | -  | -  | - | 10               | 10 | 10 | 10 | - | 10                     | 10               | 10 | 10 | 10 |
| 3                        | 3           | -                                      | 10   | 10               | 10 | 10 | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| 3                        | 6           | -                                      | 10   | 10               | 10 | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| 3                        | 13          | -                                      | 10   | 10               | -  | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| 3                        | 50          | -                                      | 12   | 12               | -  | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| -                        | -           | 6                                      | -  | -                | -  | -  | - | 10               | 10 | -  | -  | - | 10                     | -                | 10 | -  | -  |
| 6                        | 6           | -                                      | 10   | 10               | 10 | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| 6                        | 13          | -                                      | 10   | 10               | -  | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| 6                        | 50          | -                                      | 12   | 12               | -  | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| -                        | -           | 10                                     | -  | -                | -  | -  | - | MCX10<br>MSX10HD | -  | -  | -  | - | 15<br>MCX10<br>MSX10HD | 15               | -  | -  | -  |
| 10                       | 10          | -                                      | MCX10<br>MSX10HD   | MCX10<br>MSX10HD | -  | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| -                        | -           | 13                                     | -  | -                | -  | -  | - | -                | -  | -  | -  | - | MCX12<br>MSX12HD       | MCX12<br>MSX12HD | -  | -  | -  |
| -                        | -           | 20                                     | -  | -                | -  | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| 20                       | 40          | -                                      | MCX12<br>MSX12HD   | MCX12<br>MSX12HD | -  | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |
| -                        | -           | 25                                     | -  | -                | -  | -  | - | -                | -  | -  | -  | - | 14                     | 14               | -  | -  | -  |
| 25                       | 50          | -                                      | 14   | 14               | -  | -  | - | -                | -  | -  | -  | - | -                      | -                | -  | -  | -  |

Para que las cubiertas con índice de velocidad igual o superior a H puedan seguir manteniendo su mismo índice de velocidad, solo pueden ser reparadas según las limitaciones del cuadro.

**FURGONETA.- CUADRO DE APLICACIÓN DE LOS PARCHES MCX, MSX, MFX**

| DIMENSIONES DE LA AVERÍA |             |                           | Secciones de cubiertas, situación de la avería y recomendación del parche adecuado |        |            |
|--------------------------|-------------|---------------------------|--|--------|------------|
| COSTADO                  |             | HOMBRO<br>Diámetro D (mm) | COSTADO  | HOMBRO | RODAMIENTO |
| Ancho C (mm)             | Alto R (mm) |                           |  |        |            |
| -                        | -           | 6                         | -  | -      | 12         |
| -                        | -           | 8                         | -  | 20     | 15         |
| -                        | -           | 12                        | -  | -      | 15         |
| -                        | -           | 15                        | -  | -      | 20         |
| 15                       | 30          | -                         | 20   | -      | -          |

Las cubiertas de camioneta no superan, generalmente el índice de carga de 121, 1450 Kg y el símbolo de velocidad L, 120 km/h.

**CAMIÓN.- CUADRO DE APLICACIÓN DE LOS PARCHES MCX, MSX, MSXA, MHX, MFX, MFXA**

| DIMENSIONES DE LA AVERÍA |             |                 | Secciones de cubiertas, situación de la avería y recomendación del parche adecuado |        |            |  |                  |                  |   |                  |                  |
|--------------------------|-------------|-----------------|--|--------|------------|--|------------------|------------------|---|------------------|------------------|
| COSTADO                  |             | HOMBRO          | 6.50-7.50<br>7-10<br>215/85-255/85<br>215/75-265/75                                |        |            | 8.25-10.00<br>8-11<br>235/80-275/80<br>245/75-285/75 |                  |                  | 11.00-14.00<br>12-16.5<br>295/80-315/80<br>295/75-445/65<br>425/50-495/45 |                  |                  |
| Ancho C (mm)             | Alto R (mm) | Diámetro D (mm) | COSTADO  | HOMBRO | RODAMIENTO | COSTADO  | HOMBRO           | RODAMIENTO       | COSTADO   | HOMBRO           | RODAMIENTO       |
| -                        | -           | 3               | -  | 10     | 10         | -  | MCX10<br>MSX10HD | MCX10<br>MSX10HD | -   | MCX10<br>MSX10HD | MCX10<br>MSX10HD |
| 3                        | 3           | -               | 10   | -      | -          | 20   | -                | -                | 20  | -                | -                |
| -                        | -           | 6               | -  | 20     | 12         | -  | 20               | MCX12<br>MSX12HD | -   | 20               | MCX12<br>MSX12HD |
| 6                        | 6           | -               | 12   | -      | -          | 20   | -                | -                | 20  | -                | -                |
| 1 cable                  | 40          | -               | 20   | -      | -          | 20   | -                | -                | 20  | -                | -                |
|                          | 75          | -               | 22   | -      | -          | 22   | -                | -                | 22  | -                | -                |
|                          | 120         | -               | -  | -      | -          | 24   | -                | -                | 24  | -                | -                |
|                          | 150         | -               | -  | -      | -          | 26   | -                | -                | 26  | -                | -                |
| 2 cables                 | 20          | -               | 20   | -      | -          | 20   | -                | -                | 22  | -                | -                |
|                          | 40          | -               | 20   | -      | -          | 22   | -                | -                | 24  | -                | -                |
|                          | 60          | -               | 22   | -      | -          | 24   | -                | -                | 26  | -                | -                |
|                          | 130         | -               | -  | -      | -          | 26   | -                | -                | 26  | -                | -                |
| -                        | -           | 10              | -  | 22     | 20         | -  | 40               | 20               | -   | 40               | 20               |
| 10                       | 40          | -               | 20   | -      | -          | 26   | -                | -                | 40  | -                | -                |
|                          | 60          | -               | 22   | -      | -          | 26   | -                | -                | 40  | -                | -                |
|                          | 80          | -               | 26   | -      | -          | 26   | -                | -                | 42  | -                | -                |
|                          | 130         | -               | -  | -      | -          | 26   | -                | -                | 44  | -                | -                |
| -                        | -           | 13              | -  | 40     | 22         | -  | 40               | 25, 40           | -   | 40               | 25, 40           |
| 13                       | 40          | -               | 22   | -      | -          | 40   | -                | -                | 40  | -                | -                |
|                          | 70          | -               | 22   | -      | -          | 40   | -                | -                | 42  | -                | -                |
|                          | 95          | -               | 40   | -      | -          | 42   | -                | -                | 42  | -                | -                |
|                          | 130         | -               | -  | -      | -          | 44   | -                | -                | 44  | -                | -                |
| -                        | -           | 20              | -  | -      | 25, 40     | -  | 42               | 25, 42           | -   | 42               | 35, 42           |
| 20                       | 25          | -               | 22   | -      | -          | 40   | -                | -                | 42  | -                | -                |
|                          | 65          | -               | 24   | -      | -          | 42   | -                | -                | 42  | -                | -                |
|                          | 95          | -               | -  | -      | -          | 42   | -                | -                | 44  | -                | -                |
|                          | 130         | -               | -  | -      | -          | 44   | -                | -                | 44  | -                | -                |
| -                        | -           | 25              | -  | -      | 25, 40     | -  | 44               | 35, 42           | -   | 44               | 35, 44           |
| 25                       | 50          | -               | 40   | -      | -          | 42   | -                | -                | 44  | -                | -                |
|                          | 80          | -               | -  | -      | -          | 42   | -                | -                | 44  | -                | -                |
|                          | 100         | -               | -  | -      | -          | 44   | -                | -                | 44  | -                | -                |
| -                        | -           | 32              | -  | -      | -          | -  | -                | 44               | -   | 46               | 44               |
| 32                       | 50          | -               | -  | -      | -          | 42   | -                | -                | 44  | -                | -                |
|                          | 80          | -               | -  | -      | -          | 44   | -                | -                | 44  | -                | -                |
|                          | 100         | -               | -  | -      | -          | -  | -                | -                | 46  | -                | -                |
| -                        | -           | 40              | -  | -      | -          | -  | -                | -                | -   | -                | 44               |
| 40                       | 50          | -               | -  | -      | -          | -  | -                | -                | 44  | -                | -                |
|                          | 75          | -               | -  | -      | -          | -  | -                | -                | 46  | -                | -                |

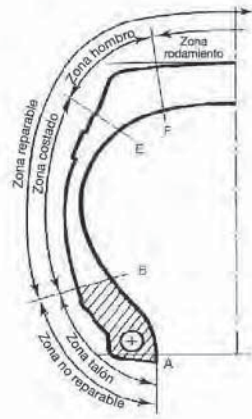


Fig. 1

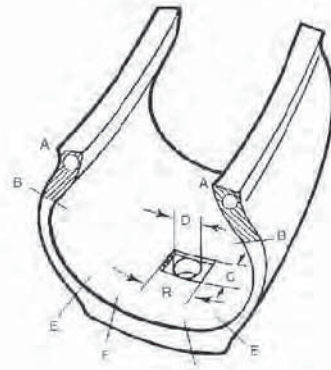


Fig. 2

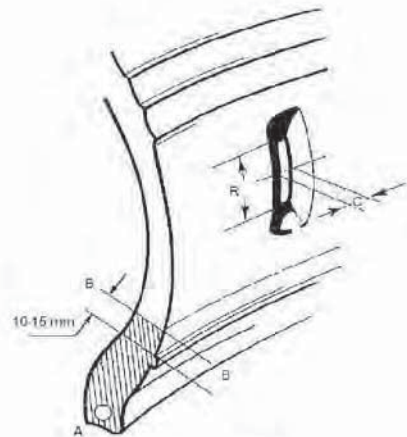


Fig. 3

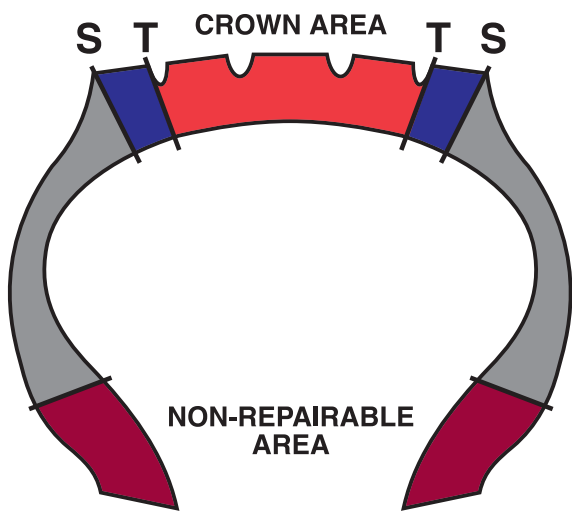
**TRACTOR.- CUADRO DE APLICACIÓN DE LOS PARCHES MCX, MSX, MFX**

| DIMENSIONES DE LA AVERÍA |             |                     | Secciones de cubiertas, situación de la avería y recomendación del parche adecuado     |        |            |  |        |            |
|--------------------------|-------------|---------------------|--|--------|------------|--|--------|------------|
| COSTADO                  |             | HOMBRO Y RODAMIENTO | 8.3-12.4<br>180/95-270/95<br>210/80-275/80<br>340/75<br>200/70-360/70<br>320/65-340/65 |        |            | 13.6-30.5<br>340/85-680/85<br>340/80<br>375/75-710/75<br>380/70-710/70<br>420/65-800/65<br>1000/50-1050/50 |        |            |
| Ancho C (mm)             | Alto R (mm) | Diámetro D (mm)     | COSTADO  | HOMBRO | RODAMIENTO | COSTADO  | HOMBRO | RODAMIENTO |
| -                        | -           | 10                  | -  | 20     | 12         | -  | 20     | 12         |
| 10                       | 10          | -                   | 12   | -      | -          | 12   | -      | -          |
|                          | 40          |                     | 20   | -      | -          | 20   | -      | -          |
|                          | 90          |                     | 24   | -      | -          | 24   | -      | -          |
| -                        | -           | 20                  | -  | 80     | 20         | -  | 80     | 20         |
| 20                       | 20          | -                   | 20   | -      | -          | 20   | -      | -          |
|                          | 50          |                     | 22   | -      | -          | 80   | -      | -          |
|                          | 75          |                     | 80   | -      | -          | 80   | -      | -          |
| -                        | -           | 25                  | -  | 80     | 80         | -  | 82     | 80         |
| -                        | -           | 30                  | -  | 82     | 80         | -  | 82     | 80         |
| -                        | -           | 40                  | -  | 82     | 80         | -  | 82     | 82         |
| 40                       | 85          | -                   | 80   | -      | -          | 82   | -      | -          |
|                          | 100         |                     | 82   | -      | -          | 82   | -      | -          |
| -                        | -           | 45                  | -  | 82     | 82         | -  | 84     | 82         |
| -                        | -           | 50                  | -  | 84     | 82         | -  | 84     | 82         |
| 50                       | 30          | -                   | 80   | -      | -          | 80   | -      | -          |
|                          | 70          |                     | 80   | -      | -          | 82   | -      | -          |
| -                        | -           | 55                  | -  | 84     | 82         | -  | 86     | 82         |
| 60                       | 125         | -                   | 84   | -      | -          | 84   | -      | -          |
| -                        | -           | 60                  | -  | -      | 82         | -  | 86     | 82         |
| 65                       | 100         | -                   | -  | -      | -          | 82   | -      | -          |
|                          | 125         |                     | -  | -      | -          | 84   | -      | -          |
| -                        | -           | 70                  | -  | -      | 84         | -  | 86     | 84         |
| 70                       | 45          | -                   | 80   | -      | -          | 82   | -      | -          |
| -                        | -           | 75                  | -  | -      | 84         | -  | 86     | 84         |
| 80                       | 75          | -                   | 82   | -      | -          | 82   | -      | -          |
| -                        | -           | 90                  | -  | -      | -          | -  | -      | 84         |
| 90                       | 65          | -                   | 82   | -      | -          | 84   | -      | -          |
| 100                      | 80          | -                   | 84   | -      | -          | 84   | -      | -          |
|                          | 135         |                     | -  | -      | -          | 86   | -      | -          |
| -                        | -           | 120                 | -  | -      | -          | -  | -      | 86         |
| 130                      | 130         | -                   | -  | -      | -          | 86   | -      | -          |

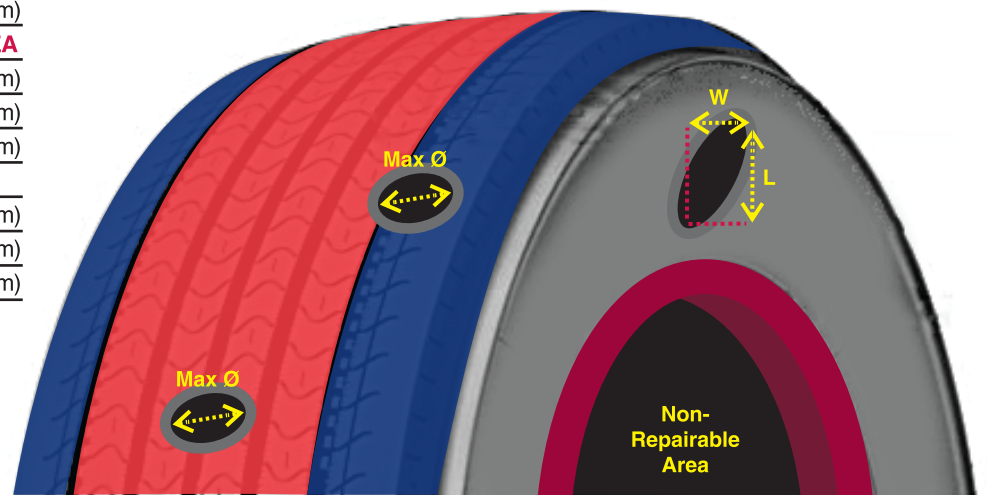
**MOVEDORAS.- CUADRO DE APLICACIÓN DE LOS PARCHES MCX, MSX, MHX, MFX, MFXA**

| DIMENSIONES DE LA AVERÍA |             |                 | Secciones de cubiertas, situación de la avería y recomendación del parche adecuado |       |       |                                   |       |       |   |       |       |   |       |       |
|--------------------------|-------------|-----------------|--|-------|-------|-----------------------------------|-------|-------|---|-------|-------|---|-------|-------|
| Ancho C (mm)             | Alto R (mm) | Diámetro D (mm) | 14.00-16.00<br>15.5-20.5<br>20/65-30/65  |       |       | 18.00-21.00<br>23.5-26.5<br>35/65 |       |       | 24.00-30.00<br>29.5-37.5<br>40/65-45/65 |       |       | 33.00-40.00<br>48/95-59/80<br>50/65-65/65 |       |       |
|                          |             |                 | COST.  | HOMB. | ROD.  | COST.                             | HOMB. | ROD.  | COST.                                   | HOMB. | ROD.  | COST.                                     | HOMB. | ROD.  |
| -                        | -           | 10              | -  | 44    | 42    | -                                 | 44    | 42    | -                                       | 44    | 42    | -   | 46    | 44    |
| 10                       | 75          | -               | 42   | -     | -     | 42                                | -     | -     | 42                                      | -     | -     | 44  | -     | -     |
| -                        | 110         | -               | 42   | -     | -     | 42                                | -     | -     | 44                                      | -     | -     | 44  | -     | -     |
| -                        | -           | 20              | -  | 46    | 45    | -                                 | 46    | 45    | -                                       | 50    | 45    | -   | 52    | 45    |
| 20                       | 50          | -               | 42   | -     | -     | 44                                | -     | -     | 44                                      | -     | -     | 50  | -     | -     |
| -                        | 140         | -               | 46   | -     | -     | 46                                | -     | -     | 46                                      | -     | -     | 50  | -     | -     |
| -                        | 200         | -               | 46   | -     | -     | 50                                | -     | -     | 50                                      | -     | -     | 50  | -     | -     |
| -                        | -           | 25              | -  | 46    | 45,46 | -                                 | 50    | 45,46 | -                                       | 52    | 45,46 | -   | 52    | 45,50 |
| 25                       | 125         | -               | 46   | -     | -     | 46                                | -     | -     | 46                                      | -     | -     | 50  | -     | -     |
| -                        | 200         | -               | 50   | -     | -     | 50                                | -     | -     | 50                                      | -     | -     | 52  | -     | -     |
| 30                       | 100         | -               | 46   | -     | -     | 50                                | -     | -     | 50                                      | -     | -     | 50  | -     | -     |
| -                        | 250         | -               | 50   | -     | -     | 50                                | -     | -     | 52                                      | -     | -     | 56  | -     | -     |
| -                        | -           | 40              | -  | 50    | 45,46 | -                                 | 50    | 45,50 | -                                       | 52    | 55,50 | -   | 56    | 55,52 |
| 40                       | 90          | -               | 46   | -     | -     | 50                                | -     | -     | 52                                      | -     | -     | 52  | -     | -     |
| -                        | 250         | -               | 50   | -     | -     | 50                                | -     | -     | 52                                      | -     | -     | 56  | -     | -     |
| -                        | 350         | -               | 56   | -     | -     | 56                                | -     | -     | 56                                      | -     | -     | 60  | -     | -     |
| -                        | 400         | -               | -  | -     | -     | 60                                | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| 45                       | 165         | -               | 50   | -     | -     | 50                                | -     | -     | 50                                      | -     | -     | 52  | -     | -     |
| -                        | 250         | -               | 52   | -     | -     | 52                                | -     | -     | 52                                      | -     | -     | 56  | -     | -     |
| -                        | 350         | -               | -  | -     | -     | 56                                | -     | -     | 56                                      | -     | -     | 60  | -     | -     |
| -                        | 400         | -               | -  | -     | -     | 60                                | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| -                        | -           | 50              | -  | 50    | 55,50 | -                                 | 52    | 55,50 | -                                       | 56    | 55,50 | -   | 56    | 65,52 |
| 50                       | 175         | -               | 50   | -     | -     | 50                                | -     | -     | 50                                      | -     | -     | 52  | -     | -     |
| -                        | 250         | -               | 52   | -     | -     | 52                                | -     | -     | 52                                      | -     | -     | 56  | -     | -     |
| -                        | 350         | -               | -  | -     | -     | 56                                | -     | -     | 56                                      | -     | -     | 60  | -     | -     |
| -                        | 400         | -               | -  | -     | -     | 60                                | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| -                        | 475         | -               | -  | -     | -     | -                                 | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| -                        | -           | 65              | -  | 56    | 55,52 | -                                 | 56    | 65,52 | -                                       | 68    | 65,52 | -   | 68    | 65,56 |
| -                        | -           | 70              | -  | -     | 55,52 | -                                 | 68    | 65,52 | -                                       | 68    | 65,52 | -   | 68    | 65,56 |
| 70                       | 200         | -               | 52   | -     | -     | 52                                | -     | -     | 52                                      | -     | -     | 56  | -     | -     |
| -                        | 250         | -               | -  | -     | -     | 56                                | -     | -     | 56                                      | -     | -     | 60  | -     | -     |
| -                        | 340         | -               | -  | -     | -     | -                                 | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| -                        | -           | 90              | -  | -     | -     | -                                 | 56    | 75,56 | -                                       | 60    | 75,60 | -   | -     | 75,60 |
| 90                       | 175         | -               | 52   | -     | -     | 52                                | -     | -     | 56                                      | -     | -     | 56  | -     | -     |
| -                        | 200         | -               | -  | -     | -     | 52                                | -     | -     | 56                                      | -     | -     | 68  | -     | -     |
| -                        | 250         | -               | -  | -     | -     | 56                                | -     | -     | 56                                      | -     | -     | 68  | -     | -     |
| -                        | 315         | -               | -  | -     | -     | 56                                | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| 100                      | 140         | -               | 52   | -     | -     | 52                                | -     | -     | 52                                      | -     | -     | 56  | -     | -     |
| -                        | 190         | -               | -  | -     | -     | 56                                | -     | -     | 56                                      | -     | -     | 68  | -     | -     |
| -                        | 265         | -               | -  | -     | -     | -                                 | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| 110                      | 125         | -               | 52   | -     | -     | 52                                | -     | -     | 56                                      | -     | -     | 56  | -     | -     |
| -                        | 175         | -               | -  | -     | -     | 56                                | -     | -     | 68                                      | -     | -     | 68  | -     | -     |
| -                        | 250         | -               | -  | -     | -     | -                                 | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| 120                      | 115         | -               | 52   | -     | -     | 52                                | -     | -     | 56                                      | -     | -     | 56  | -     | -     |
| -                        | 150         | -               | -  | -     | -     | 56                                | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| -                        | 225         | -               | -  | -     | -     | -                                 | -     | -     | 60                                      | -     | -     | 60  | -     | -     |
| -                        | -           | 125             | -  | -     | -     | -                                 | -     | 75    | -                                       | -     | 75,68 | -   | -     | 75,68 |
| 125                      | 100         | -               | -  | -     | -     | 68                                | -     | -     | 68                                      | -     | -     | 68  | -     | -     |
| -                        | 125         | -               | -  | -     | -     | 68                                | -     | -     | 68                                      | -     | -     | 68  | -     | -     |
| -                        | 175         | -               | -  | -     | -     | -                                 | -     | -     | 68                                      | -     | -     | 68  | -     | -     |
| 150                      | 75          | -               | -  | -     | -     | 68                                | -     | -     | 68                                      | -     | -     | 68  | -     | -     |
| -                        | 140         | -               | -  | -     | -     | -                                 | -     | -     | 68                                      | -     | -     | 68  | -     | -     |
| -                        | -           | 165             | -  | -     | -     | -                                 | -     | -     | -                                       | -     | 85    | -   | -     | 85    |
| 165                      | 125         | -               | -  | -     | -     | -                                 | -     | -     | 68                                      | -     | -     | 68  | -     | -     |

# MSX Radial Repair Chart



| A-B NON-REPAIRABLE AREA            |                |
|------------------------------------|----------------|
| Passenger & Light Truck Tires      | 1 1/2" (40mm)  |
| TRUCK TIRE A-B NON REPAIRABLE AREA |                |
| 6.50-7.00 (165-195)                | 2 1/2" (65mm)  |
| 7.50-16.00 (205-385)               | 3" (75mm)      |
| 17.5-23.5 (425-600)                | 3 1/2" (90mm)  |
| AG TIRE A-B NON REPAIRABLE AREA    |                |
| 13.6-16.9 (345-430)                | 4" (100mm)     |
| 18.4-20.8 (465-530)                | 4 1/2" (115mm) |
| 23.1 & Larger (585 & larger)       | 5 1/2" (140mm) |



## MSX Radial Truck Tire Repair Chart



Tube-Type Tire Sizes █ Tubeless Tire Sizes █

| Sidewall Injury | Shoulder Injury Diameter (S-T Area) | Truck Tire Sizes |             |             | Crown Injury Diameter (T-T Area) |
|-----------------|-------------------------------------|------------------|-------------|-------------|----------------------------------|
|                 |                                     | Light Truck      | Heavy Truck |             |                                  |
| Width           | Length                              | 6.50-12.50       | 7.50-10.00  | 11.00-14.00 | Crown Injury Diameter (T-T Area) |
|                 |                                     | 1/4" (6mm)       | 1/4" (6mm)  | 10          |                                  |
| 5/16" (8mm)     | 5/16" (8mm)                         | 12               | 20          | 20          | 5/16" (8mm)                      |
| 1 Cable         | 1 1/2" (40mm)                       | 20               | 20          | 20          | 3/8" (10mm)                      |
| 1 Cable         | 3 1/8" (80mm)                       | 22               | 22          | 22          |                                  |
| 1 Cable         | 4 3/4" (120mm)                      | 22               | 24          | 24          |                                  |
| 1 Cable         | 6" (150mm)                          | 22               | 26          | 26          |                                  |
| 2 Cables        | 3/4" (20mm)                         | 20               | 20          | 22          |                                  |
| 2 Cables        | 1 1/2" (40mm)                       | 20               | 22          | 24          |                                  |
| 2 Cables        | 2 3/8" (60mm)                       | 22               | 24          | 26          | 1/2" (13mm)                      |
| 2 Cables        | 5 1/8" (130mm)                      | 22               | 26          | 26          |                                  |
| 3/8" (10mm)     | 1 1/2" (40mm)                       | 20               | 26          | 40          |                                  |
| 3/8" (10mm)     | 2 3/8" (60mm)                       | 22               | 26          | 40          |                                  |
| 3/8" (10mm)     | 3 1/8" (80mm)                       | 26               | 26          | 42          |                                  |
| 3/8" (10mm)     | 5 1/8" (130mm)                      | 26               | 42          | 44          |                                  |
|                 | 3/8" (10mm)                         | 24               | 24          | 24          | 3/4" (20mm)                      |
|                 |                                     |                  | 25          | 25          |                                  |
| 1/2" (13mm)     | 1 1/2" (40mm)                       | 22               | 40          | 40          |                                  |
| 1/2" (13mm)     | 2 3/4" (70mm)                       | 22               | 40          | 42          |                                  |
| 1/2" (13mm)     | 3 3/4" (95mm)                       | 40               | 42          | 42          |                                  |
| 1/2" (13mm)     | 5 1/8" (130mm)                      | 40               | 44          | 44          |                                  |
|                 | 1/2" (13mm)                         | 40               | 40          | 40          | 1" (25mm)                        |
| 3/4" (20mm)     | 1" (25mm)                           | 22               | 40          | 40          |                                  |
| 3/4" (20mm)     | 2 1/2" (65mm)                       | 24               | 42          | 42          |                                  |
| 3/4" (20mm)     | 4 3/8" (110mm)                      | 42               | 42          | 44          |                                  |
| 3/4" (20mm)     | 5 1/8" (130mm)                      | 44               | 44          | 44          |                                  |
|                 | 3/4" (20mm)                         | 40               | 42          | 42          |                                  |
|                 |                                     | 25               | 35          | 37          | 1 1/4" (32mm)                    |
| 1" (25mm)       | 2" (50mm)                           | 40               | 42          | 44          |                                  |
| 1" (25mm)       | 3 1/4" (80mm)                       | 42               | 44          | 44          |                                  |
| 1" (25mm)       | 4" (100mm)                          | 44               | 44          | 44          |                                  |
|                 | 1" (25mm)                           |                  | 44          | 44          |                                  |
|                 |                                     |                  | 35          | 37          |                                  |
| 1 1/4" (32mm)   | 2" (50mm)                           |                  | 42          | 44          | 1 1/2" (40mm)                    |
| 1 1/4" (32mm)   | 3 1/8" (80mm)                       |                  | 44          | 44          |                                  |
| 1 1/4" (32mm)   | 4" (100mm)                          |                  | 44          | 46          |                                  |
|                 |                                     |                  | 37          | 37          |                                  |
| 1 1/2" (40mm)   | 2" (50mm)                           |                  |             | 44          |                                  |
| 1 1/2" (40mm)   | 3" (75mm)                           |                  |             | 46          |                                  |

REPAIR UNITS SHOWN BOXED IN RED ARE LIMITED TO CROWN (T-T) AREA ONLY. ALL OTHERS SHOWN IN RED MAY BE USED FOR CROWN OR SIDEWALL INJURIES. NOTE: THIS SECTION REPAIR CHART IS A GUIDELINE ONLY. LOAD, SPEED AND HIGHWAY APPLICATION CAN AFFECT THE LIMITATIONS OF SECTION REPAIRS.

## MSX Radial Passenger Repair Chart



| Sidewall Injury | Through U Speed Rating | Speed Rated H, V, W, Y & Z, and Run Flat Tires | Crown Injury Diameter |
|-----------------|------------------------|--|-----------------------|
|                 |                        |  |                       |
|                 | 10                     | 10   | 1/4" (6mm)            |
| 1/4" (6mm)      | 1/2" (13mm)            | 10   | 3/8" (10mm)           |
| 1/4" (6mm)      | 2" (50mm)              | 12   |                       |
| 3/8" (10mm)     | 3/8" (10mm)            | 10   |                       |
| 3/8" (10mm)     | 1 1/2" (40mm)          | 12   |                       |
| 3/8" (10mm)     | 2" (50mm)              | 14   |                       |
| 1/2" (13mm)     | 1 1/2" (40mm)          | 12   |                       |
| 1/2" (13mm)     | 2" (50mm)              | 14   | 3/4" (20mm)           |
| 3/4" (20mm)     | 3/4" (20mm)            | 12   |                       |
| 3/4" (20mm)     | 1 1/2" (40mm)          | 12   |                       |
| 3/4" (20mm)     | 2" (50mm)              | 14   |                       |
| 1" (25mm)       | 1 1/2" (40mm)          | 14   |                       |
| 1" (25mm)       | 2" (50mm)              | 14   |                       |

REPAIR UNITS SHOWN IN RED MAY BE USED FOR CROWN OR SIDEWALL INJURIES. TO MAINTAIN THEIR SPEED RATING, PASSENGER TIRES CARRYING A SPEED RATING OF H, V, W, Y OR Z SHOULD ONLY BE REPAIRED IN THE CROWN (T-T) AREA WITH A MAXIMUM SIZE OF 1/4" (6mm).

## MSX Radial AG Tire Repair Chart



| Sidewall Injury | Shoulder Injury | Tractor Sizes    |                                     |                             | Crown Injury Diameter |
|-----------------|-----------------|------------------|-------------------------------------|-----------------------------|-----------------------|
|                 |                 | 8-11<br>8.3-12.4 | 12-15<br>13.6-23.5<br>440/65-600/65 | 24.5-30.5<br>620/75-1050/50 |                       |
| Width           | Length          |                  |                                     |                             |                       |
| 1/4" (6mm)      | 1/4" (6mm)      | 12               | 12                                  | 20                          | 3/8" (10mm)           |
| 3/8" (10mm)     | 3/8" (10mm)     | 12               | 12                                  | 20                          |                       |
| 3/8" (10mm)     | 1 1/2" (40mm)   | 20               | 20                                  | 22                          |                       |
| 3/8" (10mm)     | 5" (125mm)      | 26               | 26                                  | 26                          |                       |
|                 | 3/8" (10mm)     | 20               | 20                                  | 22                          |                       |
|                 |                 | 20               | 20                                  | 22                          |                       |
| 3/4" (20mm)     | 3/4" (20mm)     | 20               | 20                                  | 22                          | 3/4" (20mm)           |
| 3/4" (20mm)     | 3" (75mm)       | 22               | 80                                  | 80                          |                       |
|                 | 3/4" (20mm)     | 22               | 80                                  | 80                          |                       |
| 1 1/2" (40mm)   | 4" (100mm)      | 80               | 82                                  | 82                          |                       |
|                 | 1 1/2" (40mm)   | 80               | 82                                  | 82                          |                       |
|                 |                 | 80               | 82                                  | 82                          |                       |
| 2" (50mm)       | 3 1/4" (80mm)   | 80               | 82                                  | 84                          | 2 3/4" (70mm)         |
|                 | 2" (50mm)       | 82               | 84                                  | 84                          |                       |
| 2 1/2" (65mm)   | 3" (75mm)       | 80               | 82                                  | 84                          |                       |
| 2 1/2" (65mm)   | 4" (100mm)      |                  | 82                                  | 84                          |                       |
| 2 3/4" (70mm)   | 2 3/4" (70mm)   | 80               | 82                                  | 84                          |                       |
|                 | 2 3/4" (70mm)   |                  | 86                                  | 86                          |                       |
| 3 1/4" (80mm)   | 3 1/4" (80mm)   |                  | 82                                  | 84                          | 3 1/2" (90mm)         |
| 3 1/4" (80mm)   | 5 1/4" (130mm)  |                  | 84                                  | 86                          |                       |
| 3 1/2" (90mm)   | 4 1/2" (115mm)  |                  | 84                                  | 86                          |                       |
| 4" (100mm)      | 4" (100mm)      |                  | 84                                  | 86                          |                       |
| 4" (100mm)      | 6 1/2" (165mm)  |                  | 86                                  | 86                          |                       |
| 5" (125mm)      | 5" (125mm)      |                  | 86                                  | 86                          |                       |

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# TRUFLEX/PANG MCX/MHX/MFX Off Road Radial Repair Chart



## RADIAL/OTR NON-REPAIRABLE AREA

|                             |               |
|-----------------------------|---------------|
| 14.00-16.00 (15.5-17.5)     | 3", 75mm      |
| 18.00-24.00 (20.5-29.5)     | 5", 125mm     |
| 27.00-33.00 (33.25-37.5)    | 6", 150mm     |
| 40/65-50/65 (40.5)          | 6 3/4", 170mm |
| 36.00                       | 8", 200mm     |
| 37.00-40.00 (50.5 & larger) | 10", 255mm    |

## DETERMINING CROWN INJURY REPAIR AREA (T-T AREA)

### Radial/OTR Crown Dimensions (T-T Area)

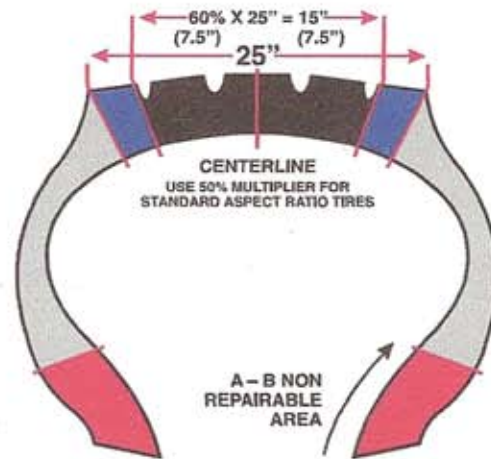
Crown is defined as 50% of tread face for standard aspect ratio tire sizes and 60% of tread face for wide base sizes. All measurements are taken on the outside surface of the tire.

### Standard Aspect Tire Size Example (24.00 R35):

If the tread face measures 24" (610mm) wide, 50% of that is 12" (300mm) - the crown area measurement, or 6" (150mm) on each side of the tread centerline. This is where the injury must be located to be considered as a crown area repair.

### Wide Base Tire Size Example (29.5 R29):

If the tread face measures 25" (635mm) wide, 60% of that is 15" (375mm) - the crown area measurement, or 7.5" (190mm) on each side of the tread centerline. This is where the injury must be located to be considered as a crown area repair.



| REPAIR UNIT DIMENSIONS |                   |                |
|------------------------|-------------------|----------------|
|                        | INCHES            | MILLIMETERS    |
| 42                     | 5" X 10"          | 125mm X 250mm  |
| 44                     | 5" X 13"          | 125mm X 330mm  |
| 45                     | 7 3/4" X 9 1/8"   | 195mm X 230mm  |
| 46                     | 5 1/2" X 16"      | 140mm X 405mm  |
| 50                     | 7 1/2" X 19 3/4"  | 190mm X 500mm  |
| 52                     | 10" X 22 1/2"     | 250mm X 570mm  |
| 55                     | 10 1/4" X 13"     | 260mm X 330mm  |
| 56                     | 10 1/2" X 29"     | 265mm X 735mm  |
| 60                     | 10 1/2" X 34"     | 265mm X 860mm  |
| 62                     | 12 3/4" X 40 1/2" | 325mm X 1030mm |
| 65                     | 13" X 16 1/2"     | 330mm X 420mm  |
| 68                     | 13 3/4" X 30"     | 345mm X 760mm  |
| 75                     | 17 3/4" X 20 3/4" | 450mm X 535mm  |
| 85                     | 22" X 28"         | 560mm X 710mm  |



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| Sidewall Injury |                 | Shoulder Injury | Earthmover Tire Sizes                   |                                   |   |   | Crown Injury   |
|-----------------|-----------------|-----------------|---|-----------------------------------|---|---|----------------|
| Width           | Length          | Diameter Ø      | Inner liner removed on these sizes      |                                   |   |   | Diameter Ø     |
| Inches (mm)     | Inches (mm)     | Inches (mm)     | 14.00-16.00<br>15.5-20.5<br>20/65-30/65 | 18.00-21.00<br>23.5-26.5<br>35/65 | 24.00-30.00<br>29.5-37.5<br>40/65-45/65 | 33.00-40.00<br>48/95-59/80<br>50/65-65/65 | Inches (mm)    |
| 3/8" (10mm)     | 3" (75mm)       |                 | 42                                      | 42                                | 42                                      | 44  | 3/8" (10mm)    |
| 3/8" (10mm)     | 4 3/8" (110mm)  |                 | 42                                      | 42                                | 44                                      | 44  |                |
| 3/4" (20mm)     | 2" (50mm)       |                 | 45                                      | 45                                | 45                                      | 45  | 3/4" (20mm)    |
| 3/4" (20mm)     | 5 1/2" (140mm)  |                 | 42                                      | 44                                | 44                                      | 50  |                |
| 3/4" (20mm)     | 6" (200mm)      |                 | 46                                      | 46                                | 46                                      | 50  |                |
|                 |                 | 3/4" (20mm)     | 46                                      | 46                                | 50                                      | 50  |                |
|                 |                 |                 | 46                                      | 46                                | 50                                      | 52  |                |
| 1" (25mm)       | 5" (125mm)      |                 | 45                                      | 45                                | 45                                      | 45  | 1" (25mm)      |
| 1" (25mm)       | 8" (200mm)      |                 | 46                                      | 46                                | 46                                      | 50  |                |
|                 |                 | 1" (25mm)       | 50                                      | 50                                | 50                                      | 52  |                |
|                 |                 |                 | 46                                      | 50                                | 52                                      | 52  |                |
| 1 1/4" (30mm)   | 4" (100mm)      |                 | 46                                      | 50                                | 50                                      | 50  |                |
| 1 1/4" (30mm)   | 10" (250mm)     |                 | 50                                      | 50                                | 52                                      | 56  |                |
|                 |                 |                 | 45                                      | 45                                | 55                                      | 55  | 1 1/2" (40mm)  |
| 1 1/2" (40mm)   | 3 1/2" (90mm)   |                 | 46                                      | 50                                | 52                                      | 52  |                |
| 1 1/2" (40mm)   | 10" (250mm)     |                 | 50                                      | 50                                | 52                                      | 56  |                |
| 1 1/2" (40mm)   | 14" (350mm)     |                 | 56                                      | 56                                | 56                                      | 60  |                |
| 1 1/2" (40mm)   | 16" (400mm)     |                 |   | 60                                | 60                                      | 60  |                |
|                 |                 | 1 1/2" (40mm)   | 50                                      | 50                                | 52                                      | 56  |                |
| 1 3/4" (45mm)   | 6 1/2" (165mm)  |                 | 50                                      | 50                                | 52                                      | 52  |                |
| 1 3/4" (45mm)   | 10" (250mm)     |                 | 52                                      | 52                                | 52                                      | 56  |                |
| 1 3/4" (45mm)   | 14" (350mm)     |                 |   | 56                                | 56                                      | 60  |                |
| 1 3/4" (45mm)   | 16" (400mm)     |                 |   | 60                                | 60                                      | 60  |                |
|                 |                 |                 | 55                                      | 55                                | 55                                      | 65  | 2" (50mm)      |
| 2" (50mm)       | 7" (175mm)      |                 | 50                                      | 52                                | 52                                      | 52  |                |
| 2" (50mm)       | 10" (250mm)     |                 | 52                                      | 52                                | 52                                      | 56  |                |
| 2" (50mm)       | 14" (350mm)     |                 |   | 56                                | 56                                      | 60  |                |
| 2" (50mm)       | 16" (400mm)     |                 |   | 60                                | 60                                      | 60  |                |
| 2" (50mm)       | 19" (475mm)     |                 |   | 60                                | 60                                      | 60  |                |
|                 |                 | 2" (50mm)       | 50                                      | 52                                | 56                                      | 56  |                |
|                 |                 |                 | 55                                      | 65                                | 65                                      | 65  | 2 3/4" (70mm)  |
| 2 3/4" (70mm)   | 8" (200mm)      |                 | 52                                      | 52                                | 52                                      | 56  |                |
| 2 3/4" (70mm)   | 10" (250mm)     |                 |   | 56                                | 56                                      | 60  |                |
| 2 3/4" (70mm)   | 13 1/2" (340mm) |                 |   | 60                                | 60                                      | 60  |                |
|                 |                 | 2 1/2" (65mm)   | 56                                      | 56                                | 68                                      | 68  |                |
|                 |                 | 2 3/4" (70mm)   |   | 56                                | 68                                      | 68  |                |
|                 |                 |                 |   |                                   | 75                                      | 75  | 3 1/2" (90mm)  |
| 3 1/2" (90mm)   | 7" (175mm)      |                 | 52                                      | 52                                | 56                                      | 56  |                |
| 3 1/2" (90mm)   | 8" (200mm)      |                 |   | 52                                | 56                                      | 68  |                |
| 3 1/2" (90mm)   | 10" (250mm)     |                 |   | 56                                | 56                                      | 68  |                |
| 3 1/2" (90mm)   | 12 1/2" (315mm) |                 |   | 56                                | 60                                      | 60  |                |
|                 |                 | 3 1/2" (90mm)   |   | 56                                | 62                                      | 62  |                |
| 4" (100mm)      | 5 1/2" (140mm)  |                 | 52                                      | 52                                | 52                                      | 56  |                |
| 4" (100mm)      | 7 1/2" (190mm)  |                 |   | 56                                | 56                                      | 68  |                |
| 4" (100mm)      | 10 1/2" (265mm) |                 |   |                                   | 62                                      | 62  |                |
| 4 3/8" (110mm)  | 5" (125mm)      |                 | 52                                      | 52                                | 56                                      | 56  |                |
| 4 3/8" (110mm)  | 7" (175mm)      |                 |   | 56                                | 68                                      | 68  |                |
| 4 3/8" (110mm)  | 10" (250mm)     |                 |   |                                   | 62                                      | 62  |                |
| 4 3/4" (120mm)  | 4 1/2" (115mm)  |                 | 52                                      | 52                                | 56                                      | 56  |                |
| 4 3/4" (120mm)  | 6" (150mm)      |                 |   | 56                                | 60                                      | 60  |                |
| 4 3/4" (120mm)  | 9" (225mm)      |                 |   |                                   | 62                                      | 62  |                |
|                 |                 |                 |   |                                   | 75                                      | 75  | 5" (125mm)     |
| 5" (125mm)      | 4" (100mm)      |                 |   | 68                                | 68                                      | 68  |                |
| 5" (125mm)      | 5" (125mm)      |                 |   | 60                                | 60                                      | 60  |                |
| 5" (125mm)      | 7" (175mm)      |                 |   |                                   | 60                                      | 60  |                |
| 6" (150mm)      | 3" (75mm)       |                 |   | 68                                | 68                                      | 68  |                |
| 6" (150mm)      | 5 1/2" (140mm)  |                 |   |                                   | 68                                      | 68  |                |
|                 |                 |                 |   |                                   | 85                                      | 85  | 6 1/2" (165mm) |
| 6 1/2" (165mm)  | 5" (125mm)      |                 |   |                                   | 68                                      | 68  |                |

REPAIR UNITS SHOWN **(BORDERED IN RED)** ARE LIMITED TO CROWN (T-T) AREA ONLY. ALL OTHERS SHOWN IN **RED** MAY BE USED FOR CROWN, SHOULDER OR SIDEWALL INJURIES.  
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