

Tire Repair Catalog



vol.

Maruni

RADIAL TIRE PATCH

[MR-10]

with SUPER-VALKA REF.No. MODEL.No. Contents 28110 MR-10 20pcs.

MADE IN JAPAN

20 50

Maruni Tire Repair Catalog 2016 / Volume 24

The Only-one Tire Repair Manufacturer In Japan

Our job is to resurrect large products with small materials.

We provide high quality repair materials that promise even faster and even more thorough puncture repairs.

Maruni was founded in 1914 (3rd year of Taisho) as a specialized manufacturer of puncture repair materials for bicycle tires,

with a basic philosophy of "effectively utilizing the limited resources of the earth."

Since then, with the dramatic development of motorization, we developed repair materials for tires and tubes for motorcycles, automobiles, heavy trucks and construction vehicles. In addition, we have developed patching materials for iron, steel and civil engineering conveyor belts. We continue to steadily grow and evolve as a comprehensive repair material manufacturer.

During this time, we have designed and developed proprietary manufacturing equipment for each product, and we have established ourselves as the only domestic manufacturer with an integrated production system that starts with rubber raw materials and ends up as a final product. Our motto is to "provide our customers with safe, satisfactory products and services" and in addition to the domestic market, we export our products to the US, Europe and

over 60 countries worldwide to meet expansive global needs.

We aim to become an even more global company and continue our steady growth and progress.

Package Renewal

New product names are released along with new design patches and packages. The initial 'M' of "Maruni" is adopted for new tire patch's name in order to emphasise on our pride that "Maruni has been brought up with our customers".

<u>Previous product name</u> "GNR" / Radial Repair Patches »> "MR" / MARUNI RADIAL PATCH "GBT" / Bias Repair Patches >> "MB" / MARUNI BIAS PATCH "GUT" / Radial / Bias Repair patches >> "MU" / MARUNI UNIVERSAL PATCH "ONE PATCH" / Tube Repair Patches >> "TUBE PATCH" / TUBE REPAIR PATCH The new products packages have bar codes with them, which are useful for efficient merchandise control.



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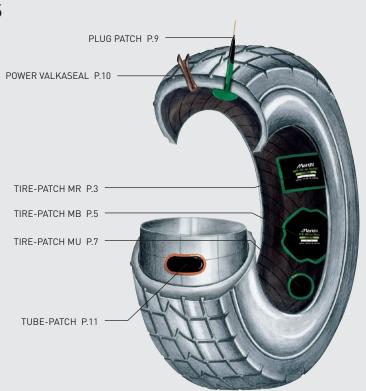
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DIRECTIONS



TIRE-PATCH MR Maruni Radial Patch

From passenger cars to heavy construction equipment, this product economically provides complete and permanent inner repairs for all radial tires. A wide variety of product types allows repair of any type or size of injury.



Product descriptions and compatible vehicle tires

| REF. No. | MODEL No. | SIZE (mm) | PLY | ΒΟΧ QTY | | | | | - | 50 | 100 |
|----------|-----------|------------|-----|---------|---|---|---|---|---|----|-----|
| 28108 | MR-08 | 48 × 68 | 1 | 20 pcs. | | | | | | | |
| 28110 | MR-10 | 56 × 77 | 1 | 20 pcs. | | | | | | | |
| 28112 | MR-12 | 70 × 120 | 1 | 10 pcs. | • | | | | | | |
| 28114 | MR-14 | 82 × 130 | 1 | 10 pcs. | | | | | | | |
| 28118 | MR-18 | 75 × 100 | 2 | 10 pcs. | • | | | | | | |
| 28120 | MR-20 | 85 × 135 | 2 | 10 pcs. | • | • | • | | • | • | |
| 28122 | MR-22 | 80 × 180 | 2 | 10 pcs. | | • | | | • | • | |
| 28124 | MR-24 | 75 × 220 | 2 | 10 pcs. | | • | • | | | | |
| 28125 | MR-25 | 119 × 133 | 3 | 10 pcs. | | | • | | | | |
| 28126 | MR-26 | 75 × 260 | 3 | 10 pcs. | | | • | | | | |
| 28128 | MR-28 | 75 × 330 | 3 | 10 pcs. | | | • | • | | | |
| 28135 | MR-35 | 130 × 180 | 4 | 10 pcs. | | | • | | | | |
| 28140 | MR-40 | 115 × 200 | 3 | 10 pcs. | | • | • | | • | | |
| 28142 | MR-42 | 130 × 270 | 4 | 10 pcs. | | | • | • | • | | |
| 28144 | MR-44 | 130 × 335 | 4 | 10 pcs. | | | • | | | | • |
| 28145 | MR-45 | 180 × 230 | 4 | 10 pcs. | | | • | | | | • |
| 28146 | MR-46 | 180 × 440 | 4 | 5 pcs. | | | • | | | | |
| 28150 | MR-50 | 180 × 580 | 5 | 5 pcs. | | | | | | | • |
| 28152 | MR-52 | 240 × 580 | 5 | 3 pcs. | | | | | | | • |
| 28155 | MR-55 | 260 × 330 | 5 | 5 pcs. | | | | | | | • |
| 28156 | MR-56 | 270 × 720 | 7 | 3 pcs. | | | | | | | |
| 28160 | MR-60 | 270 × 880 | 7 | 3 pcs. | | | | | | | • |
| 28162 | MR-62 | 325 × 1030 | 7 | 3 pcs. | | | | | | | • |
| 28165 | MR-65 | 330 × 420 | 6 | 5 pcs. | | | | | | | |
| 28168 | MR-68 | 350 × 760 | 7 | 3 pcs. | | | | | | | |
| 28175 | MR-75 | 450 × 530 | 8 | 3 pcs. | | | | | | | ٠ |
| 28180 | MR-80 | 150 × 190 | 2 | 5 pcs. | | | | | | • | |
| 28182 | MR-82 | 185 × 240 | 3 | 5 pcs. | | | | | | • | |
| 28184 | MR-84 | 210 × 290 | 3 | 5 pcs. | | | | | | • | |
| 28186 | MR-86 | 245 × 340 | 3 | 5 pcs. | | | | | | • | |

Application chart

| | | \bigcirc | \bigcirc | MR |
|-------------------------|-----------------|------------------|------------------------|----------|
| | W L mm max. | Dφ mm max. | W/D L mm mm max. | No. |
| | 4 12 | 6 | 10 10 | 08 |
| Q | 6 15 | 8 | 12 12 | 10 |
| | 20 37 | | 22 22 | 14 |
| | 4 12 | 4 | 88 | 08 |
| S | 6 15 | 6 | 10 10 | 10 |
| -00- | 15 32 | | 13 13 | 12 |
| н | 4 5 | 2 | 6 6 | 08 |
| | 6 7 | 3 | 77 | 10 |
| V | 3 4 | 3 | 7 7 | 10 |
| ZR | | | 3 3 | 10 |
| 165R-215R | 6 8 | 3 | 7 7 | 12 |
| 6-8PR | 12 25 15 22 | 6 | 14 14 | 18 |
| | 15 33 | 8 | 18 18 | 20 |
| | 8 10 10 13 | 6 8 | 10 10 12 12 | 18 20 |
| | 10 13 15 62 | 0 | 12 12 | 20 |
| \mathbf{O} | 20 52 | 10 | 18 18 | 22 |
| 6.00R-7.50R | 10 82 | | | |
| 7R-8.5R | 25 82 | 15 | 28 43 | 40 |
| 205 / -225 / | 1 Cable 82 | | | |
| | 2 Cables 62 | - | | 24 |
| | 6 13 | 8 | 12 12 | 20 |
| | 10 82 | | | |
| | 20 62 | 15 | 23 43 | 40 |
| | 10 115 | | | <i></i> |
| | 25 85 | 20 | 33 53 | 42 |
| | 20 135 | 05 | /0 70 | ,, |
| | 40 85 | 25 | 43 73 | 44 |
| 8.25R-10.00R 9R-11R | | | 17 27 | 25 |
| 11 / 235 / -285 / | | | 27 37 | 35 |
| | | | 42 62 | 45 |
| | 1 Cable 82 | | | 24 |
| | 2 Cables 62 | | | |
| | 1 Cable 123 | - | | 26 |
| | 3 Cables 63 | | 40 | |
| | 6 8 | 6 | 10 10 | 20 |
| | 10 63 | 10 | 18 23 | 40 |
| | 15 38 10 103 | | | |
| | | 20 | 28 53 | 42 |
| | 25 83 20 133 | | | |
| 11.00R-13.00R | 40 83 | 25 | 42 72 | 44 |
| 12R-15R | | | 12 22 | 25 |
| 12 / -13 / 295 / -365 / | | | 22 32 | 35 |
| | | | 42 62 | 45 |
| | 1 Cable 122 | | | |
| | 3 Cables 62 | | | 26 |
| 1 4.00R- | 1 Cable 142 | | | 28 |
| 14.00R- 16.5R / - | 2 Cables 82 | | | 20 |
| 15.5 / - | 12 32 | 10 | 14 14 | 40 |
| 385 / - | 10 102 | 20 | 22 32 | 42 |
| | 20 62 | | | |
| | 20 132 | 25 | 32 52 | 44 |
| | 30 62 | | | |
| | 40 102 | 30 | 42 72 | 46 |

| |) | W mm m | L mm ax. | D¢ mm max. | W/D | L mm nax. | MR No. |
|---------------|--------------------|------------|----------------|------------------|-----|-----------------|-----------|
| | | 10 | 12 | 5 | 13 | 18 | 20 |
| _1 | 5.00-7.50 | 10 15 | 53 33 | 5 | 13 | 23 | 22 |
| Ĩ. | | 10 | 12 | 5 | 13 | 13 | 20 |
| '0-0 ' | 7.00-10.00 | 10 20 | 73 52 | 10 | 22 | 33 | 40 |
| | | 20 30 | 73 63 | 15 | 27 | 38 | 42 |
| | | 20 | 22 | 10 | 22 | 33 | 20 |
| | 8.3-12.4 | 50 70 | 72 52 | 25 | 42 | 63 | 80 |
| → ← | 8-11 | 70 120 | 103 72 | 45 | 72 | 93 | 82 |
| 5-O | | 20 | 32 | 10 | 22 | 33 | 22 |
| | | 40 60 | 62 42 | 20 | 32 | 53 | 80 |
| | 13.6-30.5 12-15 | 70 100 | 102 72 | 45 | 72 | 93 | 82 |
| | | 80 120 | 132 82 | 60 | 92 | 113 | 84 |
| | | 100 160 | 162 102 | 85 | 132 | 153 | 86 |

| 100 SERIES | 75-80 SERIES | 65 SERIES | | L mm nax. | D¢ mm max. | W/D | L mm nax. | MR No. |
|---------------|----------------------|--------------|------------|-----------------|------------------|-----|-----------------|-----------|
| | | | 20 | 73 | 15 | 23 | 43 | 44 |
| 14.00-30.00 | 15.5-33.5 | 20/-50/ | 25 50 | 153 103 | 20 | 43 | 63 | 46 |
| 40 | 0 | 051 /51 | 25 50 | 253 153 | 35 | 53 | 83 | 50 |
| 16.00-40.00 | 6.00-40.00 17.5-50.5 | 25/-65/ | 50 100 | 253 153 | 55 | 93 | 123 | 52 |
| | 05/ /5/ | 50 100 | 303 203 | 60 | 93 | 143 | 56 | |
| 18.00-40.00 | 20.5-50.5 | 5 35/-65/ | 130 170 | 183 143 | 70 | 103 | 153 | 68 |
| 27.00-40.00 | 29.5-50.5 | 45/-65/ | 60 120 | 403 253 | 65 | 93 | 183 | 60 |
| 33.00-40.00 | 37.25-50.5 | 55/-65/ | 60 120 | 483 253 | 70 | 103 | 223 | 62 |
| 14.00-18.00 | 15.5-20.5 | 20/-35/ | | | | 43 | 73 | / - |
| 21.00-30.00 | 23.5-33.5 | 40/-50/ | | | | 28 | 53 | 45 |
| 16.00-21.00 | 17.5-23.5 | 25/-35/ | | | | 63 | 93 | |
| 24.00-30.00 | 26.5-33.5 | 40/-50/ | | | | 43 | 73 | 55 |
| 33.00-40.00 | 37.25-50.5 | 55/-65/ | | | | 28 | 53 | |
| 21.00-30.00 | 23.5-33.5 | 40/-50/ | | | | 83 | 113 | 65 |
| 33.00-40.00 | 37.25-50.5 | 55/-65/ | | | | 63 | 93 | |
| 27.00-40.00 | 29.5-50.5 | 45/-65/ | | | | 103 | 143 | 75 |

 $W \;$: Max. measurement of the damaged carcass cords in running direction.

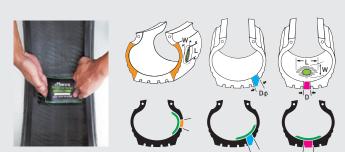
L : Max. measurement of the damaged carcass cords in radial direction.

 $\mathsf{D}\phi$: Max. measurement of the damaged carcass cords in shoulder section.

D : Max. measurement of the damaged breakers (belt plies).

Note: This internationally valid repair chart has been defined with values based on experience, taking into consideration many test bench controls for utmost safety. The maximum limits for repairable sizes must not be exceeded. Damage limitations that might exist in different countries have not been taken into consideration in this chart. In these cases, the tire repair specialist must take into consideration local driving, load and road condition to ensure safety.

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TIRE-PATCH MB/MS Maruni Bias Patch

Can be used on all types of bias tires from passenger cars to heavy construction equipment. This patch is developed to ensure safer, easier, more economical and durable repairs.



Properties

- Can be used on all types of bias tires from passenger cars to heavy construction equipment.
- A wide variety of product types to repair any type or size of injury.
- Select a patch depending on the type and location of injury (MB for tread, MS for sidewall)
- Provides permanent repairs. •
- Rubber is compounded to provide strength and to last longer. Also features a reinforcing inner layer composed of strong nylon fibers.
- The bonding and reinforcing layer are combined and will not separate.
- Can be cold cured (chemical self-vulcanizing) to enable quick and effective repairs.
- When cold cured, always use with SUPER VALKARN G / CFC FREE.
- Use with STEM and SEALINER / CFC FREE for more complete repairs.
- Can be hot cured as well. When hot curing, always use with THERMO LIQUID.

THERMO LIQUID ► P14

Associated products SUPER VALKARN G►P14/P17 SEALINER►P15/P17 日 STEM ► P9

Repair procedure details P21, 23

Product descriptions and compatible vehicle tires

| REF. No. | MODEL No. | SIZE (mm) | PLY | BOX QTY | | |
|---------------|-----------|-----------|-----|---------|------------------|----------------|
| 28301 | MB-01 | 60 | 1 | 30 pcs. | Nailhole Unit | MB- 01~02 |
| 28302 | MB-02 | 80 | 2 | 15 pcs. | Nathole Onit | MB-01~02 |
| 28303 | MB-03 | 91 | 2 | 10 pcs. | | |
| 28304 | MB-04 | 127 | 2 | 10 pcs. | | |
| 28305 / 28405 | MB/MS-05 | 165 | 4 | 10 pcs. | | MB-03~10 |
| 28306 / 28406 | MB/MS-06 | 240 | 6 | 10 pcs. | | |
| 28307 / 28407 | MB/MS-07 | 295 | 6 | 10 pcs. | Car & Truck | |
| 28308 / 28408 | MB/MS-08 | 345 | 6 | 10 pcs. | | MS- 05~10 |
| 28309 / 28409 | MB/MS-09 | 390 | 8 | 10 pcs. | | |
| 28310 / 28410 | MB/MS-10 | 450 | 8 | 5 pcs. | | |
| 28320 | MB-20 | 255 | 4 | 10 pcs. | | |
| 28321 | MB-21 | 370 | 4 | 5 pcs. | | |
| 28322 | MB-22 | 510 | 4 | 5 pcs. | | MB-20~25 |
| 28323 | MB-23 | 255 | 6 | 10 pcs. | Tractor | MIB- 20~25 |
| 28324 | MB-24 | 370 | 6 | 5 pcs. | | |
| 28325 | MB-25 | 510 | 6 | 3 pcs. | | |
| 28330 / 28430 | MB/MS-30 | 250 | 6 | 10 pcs. | | |
| 28331 / 28431 | MB/MS-31 | 350 | 6 | 10 pcs. | | MB- 30~35 |
| 28332 / 28432 | MB/MS-32 | 450 | 8 | 5 pcs. | Grader | |
| 28333 / 28433 | MB/MS-33 | 550 | 8 | 5 pcs. | & Earth Mover | |
| 28334 / 28434 | MB/MS-34 | 650 | 10 | 3 pcs. | | MS- 30~35 BEAD |
| 28335 / 28435 | MB/MS-35 | 750 | 12 | 3 pcs. | | |
| 28340 | MB-40 | 160 | 4 | 10 pcs. | 1 | |
| 28341 | MB-41 | 235 | 6 | 10 pcs. | Industrial Tires | MB-40~42 |
| 28342 | MB-42 | 265 | 8 | 10 pcs. | | |

Application chart



Perforations of tread, shoulder and sidewall (for sidewall repair use MS patch)

| | MAX. INJURY (D1) | | | | | | | | | | |
|-------------------|---------------------|--------------------|------------------|----------------------|------------------|------------------|-------------------|-------------------|--|--|--|
| PLY RATING | 11mm (7/16 inch) | 16mm (5/8 inch) | 25mm (1 inch) | 38mm (1-1/2 inch) | 50mm (2 inch) | 75mm (3 inch) | 100mm (4 inch) | 125mm (5 inch) | | | |
| 4 | MB No. 02 | MB No. 03 | MB No. 03 | MB No. 04 | MB No. 05 | MB No | MB No | MB No | | | |
| 6 - 8 | 03 | 03 | 04 | 04 | 05 | - | - | - | | | |
| 10 - 12 | 03 | 04 | 05 | 05 | 06 | 07 | 08 | - | | | |
| 14 - 16 | 03 | 04 | 06 | 06 | 06 | 07 | 08 | 10 | | | |
| 18 - 20 | 04 | 05 | 06 | 07 | 08 | 09 | 09 | 10 | | | |
| 22 - 24 | 05 | 06 | 07 | 08 | 09 | 09 | 10 | - | | | |
| MPT-Farmer 6 - 18 | 03 | 04 | 04 | 05 | 06 | 07 | 08 | 09 | | | |

Ply damages on tread, shoulder and sidewall up to half of the carcass thickness (for sidewall repair use MS patch)

| | | MAX. INJURY (D1) | | | | | | | | | | | |
|------------|-------------|------------------|-----------|--------------|-----------|-----------|-----------|----------|--|--|--|--|--|
| PLY RATING | 11mm | 16mm | 25mm | 38mm | 50mm | 75mm | 100mm | 125mm | | | | | |
| | (7/16 inch) | (5/8 inch) | (1 inch) | (1-1/2 inch) | (2 inch) | (3 inch) | (4 inch) | (5 inch) | | | | | |
| 8 - 12 | MB No. 02 | MB No. 02 | MB No. 03 | MB No. 03 | MB No. 05 | MB No. 06 | MB No. 07 | MB No | | | | | |
| 14 - 18 | 03 | 03 | 04 | 04 | 05 | 06 | 07 | 08 | | | | | |
| 20 - 24 | 04 | 04 | 05 | 05 | 06 | 07 | 08 | 08 | | | | | |

Grader & Earth Mover

Perforations of tread, shoulder and sidewall (for sidewall repair -max. 200mm/8inch- use MS patch)

| | | MAX. INJURY (D1) | | | | | | | | |
|-------|-------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| PLY R | ATING | 25mm (1 inch) | 50mm (2 inch) | 75mm (3 inch) | 100mm (4 inch) | 125mm (5 inch) | 150mm (6 inch) | 175mm (7 inch) | 200mm (8 inch) | 250mm (10 inch) |
| 8 - | - 12 | MB No. 30 | MB No. 30 | MB No. 30 | MB No. 31 | MB No. 32 | MB No. 32 | MB No. 32 | MB No | MB No |
| 14 - | - 18 | 30 | 30 | 31 | 32 | 32 | 32 | 33 | 33 | 34 |
| 20 - | - 26 | 30 | 31 | 31 | 32 | 33 | 33 | 34 | 34 | 35 |
| 28 - | - 36 | 31 | 32 | 32 | 33 | 34 | 35 | 35 | 35 | 35 / 32 |
| - 38 | - 44 | 31 | 32 | 33 | 35 | 35 | 34 / 31 | 35 / 32 | 35 / 33 | 35 / 33 |
| - 46 | - 50 | 32 | 33 | 34 | 34 / 32 | 34 / 32 | 35 / 32 | 35 / 32 | - | - |
| 52 - | - 58 | 32 | 33 | 35 | 34 / 32 | 35 / 32 | 35 / 33 | - | - | - |
| - 60 | - 68 | 33 | 34 | 34 / 31 | 35 / 32 | 35 / 33 | - | - | - | - |

Ply damages on tread, shoulder and sidewall up to half of the carcass thickness (for sidewall repair use MS patch)

| | MAX. INJURY (D1) | | | | | |
|------------|------------------|-------------------|-------------------|-------------------|--|--|
| PLY RATING | 50mm (2 inch) | 100mm (4 inch) | 150mm (6 inch) | 200mm (8 inch) | | |
| 8 - 12 | MB No. 30 | MB No. 31 | MB No. 31 | MB No. 32 | | |
| 14 - 18 | 30 | 31 | 31 | 32 | | |
| 20 - 26 | 30 | 31 | 32 | 32 | | |
| 28 - 36 | 30 | 31 | 32 | 33 | | |
| 38 - 44 | 31 | 32 | 33 | 34 | | |
| 46 - 50 | 31 | 33 | 34 | 35 | | |
| 52 - 58 | 31 | 34 | 34 | 35 | | |
| 60 - 68 | 32 | 34 | 35 | - | | |

Explanation of MB-30 series chart

Layering patches (if there are 2 to 3 sizes of patches listed in the chart)

1. Coat the bonding layer of the largest patch to be layered with \$ SUPER VALKARN G / CFC FREE. After letting dry for 20 to 30 minutes, attach FLOATER GUM to patch.

2. Coat the FLOATER GUM attached to the patch with SUPER VALKARN G / CFC FREE again and let dry for 10 to 20 minutes. Attach this to the tire.

3. Clean the top layer of the patch that was attached to the tire with LIQUID BUFFER / CFC FREE, buff and then remove any buff residue.

4. Coat the buffed surface of the patch attached to the tire and the bonding layer of the next sized patch with SUPER VALKARN G / CFC FREE. After letting dry for 10 to 20 minutes, layer the patch on.

Tractor

Perforations of tread, shoulder and sidewall

| | MAX. INJURY (D1) | | | | | |
|------------|------------------|-------------------|-------------------|--|--|--|
| PLY RATING | 75mm (3 inch) | 125mm (5 inch) | 175mm (7 inch) | | | |
| 4 - 6 | MB No. 20 | MB No. 21 | MB No. 22 | | | |
| 8 - 12 | 23 | 24 | 25 | | | |
| 14 - 16 | 24 | 25 | - | | | |



Industrial Tires

P

Perforations of tread, shoulder and sidewall

| | MAX. INJURY (D1) | | | | | | |
|------------|------------------|------------------|------------------|--|--|--|--|
| PLY RATING | 25mm (1 inch) | 50mm (2 inch) | 75mm (3 inch) | | | | |
| 6 - 8 | MB No. 40 | MB No. 40 | MB No | | | | |
| 10 - 12 | 41 | 41 | 42 | | | | |
| 14 - 16 | 41 | 42 | 42 | | | | |
| 18 - 20 | 42 | 42 | - | | | | |
| 22 - 24 | 42 | - | - | | | | |

do.

Nailhole Units



D1 : Max. measurement of the damaged carcass cords.

Note: This internationally valid repair chart has been defined with values based on experience, taking into consideration many test bench controls for utmost safety. The maximum limits for repairable sizes must not be exceeded. Damage limitations that might exist in different countries have not been taken into consideration in this chart. In these cases, the tire repair specialist must take into consideration local driving, load and road condition to ensure safety.

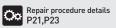
TIRE-PATCH MB-500'S Maruni Bias Patch





Properties

- The Maruni TIRE-PATCH MB-500 series is recommended for repairs of Off-The-Road (OTR) bias tires.
- Compared to the MB-30'S, these are designed specially for OTR tires.
 The reinforcement layer and bonding layer of the patch are compounded for
- self-vulcanization and reinforced with strong nylon fibers.
- The bonding and reinforcing layer are combined and will not separate.
 When cold cured always use with SUPER VALKARN 6 / CEC EPEE
- When cold cured, always use with SUPER VALKARN G / CFC FREE.
 Use with SEALINER / CFC FREE for more complete repairs.
- Ose with SEALINER / CFC FREE for more complete repairs.
 Can be hot cured as well. When hot curing, always use with THERMO LIQUID.
- Associated products SUPER VALKARN G ► P14/P17 THERMO LIQUID ► P14 SEALINER ► P15/P17



Product descriptions

| REF. | No. | MODEL No. | SIZE (mm) | PLY | BOX QTY. |
|------|-----|-----------|-----------|-----|----------|
| 2835 | 0 | MB-502 | 240 | 4 | 10 pcs. |
| 2835 | 1 | MB-503 | 240 | 6 | 10 pcs. |
| 2835 | 2 | MB-523 | 360 | 6 | 10 pcs. |
| 2835 | 3 | MB-524 | 360 | 8 | 10 pcs. |
| 2835 | 4 | MB-544 | 480 | 8 | 5 pcs. |
| 2835 | 5 | MB-545 | 480 | 10 | 5 pcs. |

Application chart

| | | | | Ν | 1AX. INJURY (D | 1) | | | |
|------------|--------------------|----------------------|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| PLY RATING | 16mm (5/8 inch) | 29mm (1-1/8 inch) | 50mm (2 inch) | 75mm (3 inch) | 100mm (4 inch) | 125mm (5 inch) | 150mm (6 inch) | 175mm (7 inch) | 200mm (8 inch) |
| 10 - 14 | MB No. 502 | MB No. 502 | MB No. 502 | MB No. 502 | MB No. 523 | MB No. 523 | MB No. 523 | MB No. 523 | MB No |
| 16 - 20 | 502 | 502 | 502 | 503 | 523 | 524 | 544 | 544 | 544 |
| 22 - 26 | 502 | 502 | 502 | 523 | 523 | 524 | 544 | 544 | - |
| 28 - 32 | 502 | 503 | 503 | 523 | 524 | 544 | 545 | 545 | - |
| 34 - 38 | 503 | 503 | 523 | 523 | 544 | 545 | 545 | - | - |
| 40 - 44 | 503 | 503 | 523 | 524 | 545 | - | - | - | - |
| 46 - 50 | 503 | 503 | 523 | 544 | - | - | - | - | - |
| 52 - 58 | 503 | 523 | 544 | 545 | - | - | - | - | - |
| 60 - 68 | 503 | 523 | 544 | - | - | - | - | - | - |

TIRE-PATCH MU Maruni Universal Patch





Properties

- Universal patch that can be used for both radial and bias tires.
 - Patches only for nail holes. Allows easier repairs of small injuries.
- Does not contain reinforcement cords. Flexible structure.
- The bonding and reinforcing layer are combined and will not separate.
- Always use with SUPER VALKARN G / CFC FREE.
- Use with STEM and SEALINER / CFC FREE for more complete repairs.
 - Economical.

Associated products SUPER VALKARN G►P14/P17 SEALINER►P15/P17 STEM►P9



| REI | No. | MODEL No. | DES | CRIPTION |
|-----|-----|-----------|------|---------------|
| 28 | 199 | MU-A0 | 34mm | 100 pcs./ box |
| 28 | 200 | MU-00 | 43mm | 100 pcs./box |
| 28 | 220 | MU-B0 | 52mm | 50 pcs./box |
| 28 | 201 | MU-01 | 65mm | 50 pcs./box |
| 28 | 202 | MU-02 | 78mm | 50 pcs./box |

FLOATER GUM -Cushion Gum-



Properties

- Cushion gum for the bonding layer of the MR, MB and MS tire patches.
- Absorbs shocks from the tire to prevent splitting, breakage and wear on the patch which ensures long-lasting repairs.
- Use in combination with patches to improve adhesion strength during the attachment process.
- Facilitates adhesion of larger sized patches. Use with SUPER VALKARN G / CFC FREE for • self-vulcanizing adhesion with the tire and patch.
- Can be used for both cold and hot curing. Shelf life: 2 years at 20°C when direct sunlight and humidity are avoided

1. SELF VULCANIZING (Floater Gum + Tire-Patch) more than 24 hours at 20°C, more than 48 hours at 10°C 2. LOW HEAT PRESSURE (Floater Gum + Tire-Patch) 30 min.~10hours at 90°C~110°C 3. HIGH HEAT PRESSURE (Floater Gum + Tire-Patch + Filler Gum) 60min.~20 hours at 130°C 30min.~20 hours at 150°C 20min.∼ 8 hours at 165°C



Repa procedure details Ö¢ P23

FILLER GUM -Uncured Rubber Compound-



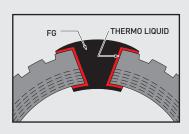
2kg 3.0mm × 500mm × about 1m

5kg 3.0mm × 500mm × about 2.5m

Properties

- Use for large injuries that cannot be filled with stems.
- Specially compounded to have the same strength as tire rubber after vulcanization.
- Use hot curing only.
- Apply 140°C heat for 4 minutes or more for each millimeter of thickness. • (Warm up times for equipment require a separate 20 to 30 minutes)
- Shelf life: 1.5 years at 20℃ when direct sunlight and humidity are avoided





Coat THERMO LIQUID onto the skived and buffer area of the tire inside and out. Build up the skive with FILLER GUM as illustrated in the left column. Allow slight overfilling at center of damage.

STICK

STICK / QWIK PLUG -Filler Plug for Tubeless Tire-



Product descriptions

29962

29965

FG-02

FG-05

| STICK (REFILL) | | | | | | |
|----------------|-----------|---------|--|--|--|--|
| REF. No. | MODEL No. | DESCRIP | | | | |

| REF. No. | MODEL No. | DESCRIPTION |
|----------|------------|-------------|
| 25910 | Stick-MINI | 25 pcs./box |

Properties

- Can be used for tubeless tires of motorcycles.
- Allows for easy repairs of small injuries from the outside, without having to remove the tire from the wheel.
- A "bullet" is embedded in the tip to allow easy insertion.
 - The construction is designed to prevent detachment while driving.
- By using SUPER VALKARN G / CFC FREE with the red bonding layer that appears after removing the green film, this vulcanizes the bonding layer with the tire to ensure a complete seal.
- Always use with SUPER VALKARN G / CFC FREE.

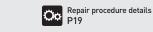
| REF. No. (CFC FREE) | C FREE) CONTENTS | | | | |
|---------------------|------------------|--------|--------------------|----------------------------|--|
| 25961 AP (26961) | Stick-MINI | 3 pcs. | RM-05 Reamer 1 pc. | Super Valkarn G 8ml 1 pc. | |
| 25965 BP (26965) | Stick-MINI | 4 pcs. | RM-05 Reamer 1 pc. | Super Valkarn G 8ml 2 pcs. | |
| 25967 SP (26967) | Stick-MINI | 2 pcs. | RM-05 Reamer 1 pc. | Super Valkarn G 8ml 1 pc. | |
| 25971 RP (26971) | Stick-MINI | 3 pcs. | - | Super Valkarn G 8ml 1 pc. | |

PLUG PATCH -Combination Patch-



Properties

- A convenient product that combines the stem and patch to enable effective repairs.
- Integrated stem with patch allows complete and thorough repair of injury holes.
- Can be used for injuries that are up to around 20° from the tire tread.
- Greatly reduces the number of procedures required for repair.
- Always use with SUPER VALKARN G / CFC FREE.



| REF. No. | MODEL No. | DESCRIPTION | | |
|----------|-----------|----------------------|--------------|--|
| 27950 | PW-3505 | base 35 × shaft 5mm | 40 pcs./box | |
| 27953 | PW-4007 | base 40 × shaft 7mm | 40 pcs./box | |
| 27956 | PW-5609 | base 56 × shaft 9mm | 20 pcs./ box | |
| 27959 | PW-8012 | base 80 × shaft 12mm | 6 pcs./box | |

27900 / 27930 (CFC FREE) PW PM-SET01 PROMOTION SET A special trial set.



Product descriptions

Product descriptions

| REF. No. | MODEL No. | QTY |
|----------------|----------------------------------|--------|
| 27950 | PW-3505 | 5 pcs. |
| 27953 | PW-4007 | 8 pcs. |
| 38186 / 38684 | Super Valkarn G 100ml / CFC FREE | 1 pc. |
| ★ 93028 | Milling Roller | 1 pc. |
| ★ 42395 | Carbide Cutter 75 × 4mm | 1 pc. |
| ★ 42378 | Carbide Cutter 80 × 6mm | 1 pc. |

★ Notice: The Milling Roller and the Carbide Cutter are optional.

STEM -Filler Plug-



Properties

- A filler, embedding type plug.
- Suitable for repairing injuries at a steeper angle.
- Always use with a patch to improve safety of injury repairs.
- By using SUPER VALKARN G / CFC FREE with the green bonding layer, this vulcanizes the bonding layer with the tire to ensure a complete seal.
- Always use with SUPER VALKARN G / CFC FREE.

Product descriptions

| | REF. No. | MODEL No. | DESCRIPTION |
|---|----------|-----------|-----------------------------|
| | 20905 | SM-05 | shaft 5ϕ 24 pcs./box |
| | 20907 | SM-07 | shaft 7ϕ 24 pcs./box |
| Ĩ | 20910 | SM-10 | shaft 10 ϕ 10 pcs./box |
| | 20915 | SM-15 | shaft 15 ϕ 10 pcs./box |
| | 20920 | SM-20 | shaft 20 ϕ 5 pcs./ box |
| | 92702 | PW-02 | Pulling Wire |

Repair procedure details P20,P21

CARBIDE CUTTER Various sizes are available that correspond to all stem and plug patch sizes.

Contraction of the



| Carbide Cutter | | STEM | | PLUG PATCH | | Cutter | Injury | P/C | L/T | Truck |
|----------------|-----------|----------|-----------|------------|-----------|------------|------------|-----|-----|-------|
| REF. No. | SIZE (mm) | REF. No. | MODEL NO. | REF. No. | MODEL NO. | $(mm\phi)$ | $(mm\phi)$ | 170 | | HUCK |
| 42395 | 75 × 4 | 20905 | SM-05 | 27950 | PW-3505 | 4 | 3 | • | • | |
| 42378 | 80 × 6 | 20907 | SM-07 | - | - | 6 | 4 | • | • | • |
| 42378 | 80 × 6 | - | - | 27953 | PW-4007 | 6 | 4 | • | • | • |
| 42379 | 100 × 8 | 20910 | SM-10 | 27956 | PW-5609 | 8 | 6 | | • | • |
| 42380 | 110 × 10 | - | - | 27959 | PW-8012 | 10 | 8 | | | • |
| 42164 | 125 × 13 | 20915 | SM-15 | - | - | 13 | 12 | | | |
| 42168 | 140 × 18 | 20920 | SM-20 | - | - | 18 | 17 | | | • |

POWER VALKASEAL -Repair Strings-



Properties

- Can be used for tubeless radial and bias tires.
- Enables repairs of the tire tread only.
- A tire plug in which the non-vulcanized rubber outer surface is combined with an inner nylon fiber.
- Excellent cross-sectional design that plugs the injury by changing into a round shape when inserted (with explaining diagram).
- By using SUPER VALKARN G / CFC FREE with the gray bonding layer, this vulcanizes the bonding layer with the tire to ensure a complete seal.
- Repairs are possible from the outside with the tire still attached to the wheel.

Product descriptions POWER VALKASEAL



Section view After insertion

PVS

| I | L | 1 |
|----------|-----------|--------------------|
| REF. No. | MODEL No. | DESCRIPTION |
| 23830 | S-1060 | 100mm 60 pcs./ box |
| 23933 | L-1050 | 100mm 50 pcs./ box |
| 23938 | L-1430 | 140mm 30 pcs./ box |
| 23942 | L-2030 | 200mm 30 pcs./ box |

POWER VALKASEAL SET Products for tire retailers and garage related facilities such as automobile repair shops.







Product descriptions

23300 / 23330 (CFC FREE) POWER VALKASEAL PROMOTION SET PM-SET 01

| No. | REF. No. | CONTENTS | |
|-------|---------------|--------------------------------|---------|
| 1 | 23933 | L-1050 Power Valkaseal | 30 pcs. |
| 2 | 23938 | L-1430 Power Valkaseal | 20 pcs. |
| 3 | 92802 | SR-01 Screw Reamer L | 1 pc. |
| 4 | 92812 | IN-02 Insert Needle L | 1 pc. |
| 5 | 38008 / 38682 | Super Valkarn G 8ml / CFC FREE | 5 pcs. |

23103 / 23133 (CFC FREE) POWER VALKASEAL SET L-10

| No. | REF. No. | CONTENTS | |
|-----|---------------|----------------------------------|-------|
| 1 | 23933 | L-1050 Power Valkaseal | 1 box |
| 2 | 38188 / 38688 | Super Valkarn G 200ml / CFC FREE | 1 tin |
| 3 | 92802 | SR-01 Screw Reamer L | 1 pc. |
| 4 | 92812 | IN-02 Insert Needle L | 1 pc. |
| 5 | 92817 | ND-30 Spare Needle S | 1 pc. |
| 6 | 92830 | HX-25 Hexagon Wrench | 1 pc. |
| D | 92530 | KF-04 Knife | 1 pc. |

23107 / 23137 (CFC FREE) POWER VALKASEAL SET S -10

| No. | REF. No. | CONTENTS | |
|-----|---------------|----------------------------------|-------|
| 1 | 23830 | S-1060 Power Valkaseal | 1 box |
| 2 | 38188 / 38688 | Super Valkarn G 200ml / CFC FREE | 1 tin |
| 3 | 92804 | SR-02 Screw Reamer S | 1 pc. |
| 4 | 92905 | IN-05 Insert Needle S | 1 pc. |
| 5 | 92817 | ND-30 Spare Needle S | 1 pc. |
| 6 | 92830 | HX-25 Hexagon Wrench | 1 pc. |
| Ø | 92530 | KF-04 Knife | 1 pc. |

V-SEAL KIT Kits that combine POWER VALKASEAL with tools which can be carried in cars and motorcycles.





Product descriptions

| 23967/23987(CFC FREE) VK-0 | 23969/23989 (CFC FREE) VK-03 | | |
|--------------------------------|------------------------------|--------------------------------|--------|
| L-10 Power Valkaseal | 5 pcs. | S-10 Power Valkaseal | 3 pcs. |
| Super Valkarn G 8ml / CFC FREE | 2 pcs. | Super Valkarn G 8ml / CFC FREE | 1 pc. |
| SR-01 Screw Reamer L | 1 pc. | Combination Tool-02 | 1 pc. |
| IN-02 Insert Needle L | 1 pc. | Handy Bag | 1 pc. |

TIRE REPAIRS

TUBE-PATCH - Tube Repair Patch-



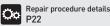
High quality repair patch that can be used for various types of tubes from bicycles to OTR tires. Popular worldwide.



Properties

- High quality repair patch that can be used for various types of tubes from bicycles to OTR tires.
- A wide variety of sizes are available.
- The bonding and reinforcing layer are combined and will not separate.
- The feather edges can be layered to allow repair injuries that are close together.
- Always use with VALKARN / CFC FREE.

Associated products VALKARN ►P14/P17



OVAL Standard Package Product descriptions

| REF. No. | MODEL No. | DESCRIPTION | |
|----------|-----------|--------------------------|--|
| 10403 | S | 24 × 34 mm 100 pcs./ box | |
| 10405 | М | 28 × 42 mm 50 pcs./ box | |
| 10409 | L | 33 × 53 mm 50 pcs./ box | |
| 10411 | L2 | 41 × 76 mm 30 pcs./ box | |
| 10413 | OV-01 | 41 × 107 mm 30 pcs./ box | |
| 10417 | OV-03 | 66 × 138 mm 10 pcs./ box | |
| 10420 | OV-05 | 91 × 159 mm 10 pcs./ box | |
| | | | |

ROUND Standard Package

Product descriptions

| REF. No. | MODEL No. | DESCRIPTION |
|----------|-----------|--------------------|
| 10302 | Q | 21mm 100 pcs./ box |
| 10304 | R | 25mm 100 pcs./ box |
| 10306 | S2 | 30mm 100 pcs./ box |
| 10308 | M2 | 40mm 50 pcs./ box |
| 10310 | L3 | 52mm 30 pcs./ box |
| 10314 | Q-03 | 61mm 30 pcs./ box |
| 10316 | R-03 | 76mm 30 pcs./ box |
| 10318 | R-04 | 108mm 10 pcs./ box |

TUBE-PATCH Promotion Package

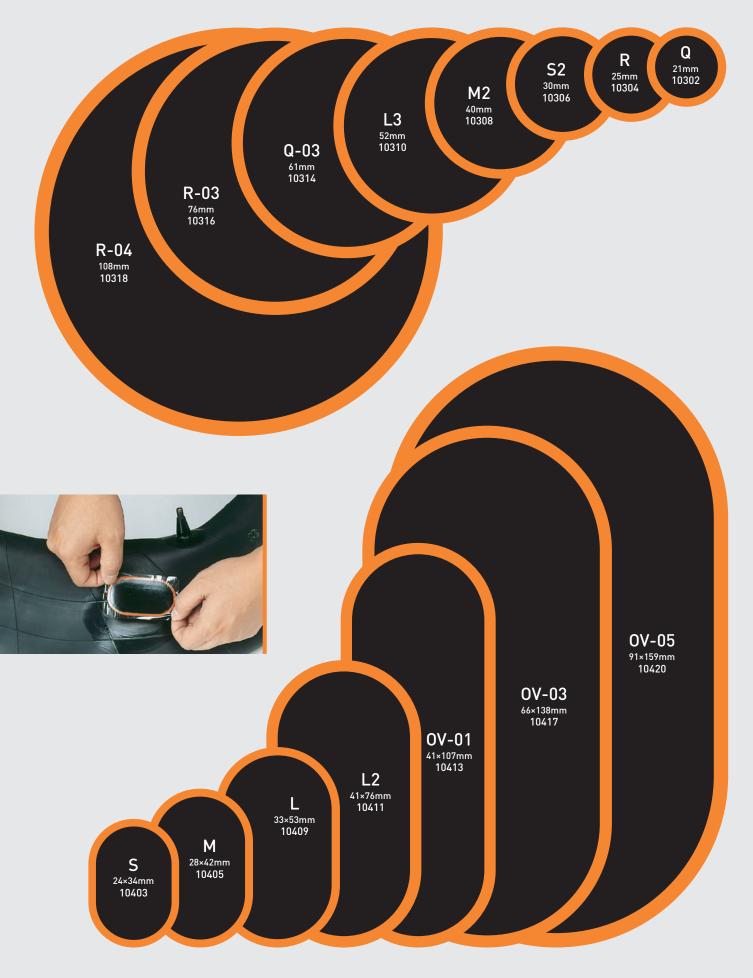


Properties

• A cost effective package that contains more quantities per box in the most popular sizes.

| REF. No. | MODEL No. | DESCRIPTION |
|----------|-----------|---------------------------------|
| 10306-PM | S2-PM | 30mm 270 pcs./ box (9×30sheets) |
| 10308-PM | M2-PM | 40mm 180 pcs./ box (6×30sheets) |
| 10310-PM | L3-PM | 52mm 120 pcs./ box (4×30sheets) |

Actual size illustration



PATCH RUBBER SHEET - Tube Repair Patch-





Properties

- For repairs of bicycle and motorcycle tubes.
- High quality and economical long sheet patches. Can be cut as needed to an optimal size.
- 2 layer construction with a durable rubber layer and bonding layer.
- Semi-cured and self-vulcanizes with use of VALKARN / CFC FREE.
- Always use with VALKARN / CFC FREE.

Product descriptions

| REF. No. | DESCRIPTION | |
|----------|---|--------------|
| 45516 | 0.6mm × 3" × 36" (0.6mm × 76.2mm × 914mm) 12 pcs./ box | |
| 45523 | 0.6mm × 548mm × 86m | 1 roll / box |
| 45781 | 1.1mm × 410mm × 270mm | 50 pcs./ box |

BB-PATCH -Tube Repair Patch-





Properties

- For repairs of bicycle and motorcycle tubes.
- Black colored so that the repair area blends with the tire.
- Always use with VALKARN / CFC FREE.

Product descriptions

| REF. No. | DESCRIPTION | | | | |
|----------|-------------|----------|---------------|--|--|
| 10502 | BB-Q | 21mm | 200 pcs./ box | | |
| 10504 | BB-R | 25mm | 256 pcs./ box | | |
| 10506 | BB-S2 | 30mm | 180 pcs./ box | | |
| 10513 | BB-S 2 | 4 × 34mm | 204 pcs./box | | |

CYCLE KIT A portable, pocket-sized bicycle and motorcycle tube repair kit in a compact case.



| 11218 / 11724 (CFC FREE) | CYCLE M | KIT CK-01 |
|--------------------------|---------|-----------|
| BB-Patch BB-R | 25mm | 3 pcs. |
| BB-Patch BB-S 24 | × 34mm | 2 pcs. |
| Valkarn / CFC FREE | 8ml | 1 рс. |
| Emery Paper | | 1 рс. |
| Valve Tubing | | 1 рс. |



Properties

- Vulcanizing cement for tire repairs.
- Use for repairing a wide variety of tires from bicycles to OTR tires.
- High quality and highly adhesive.
- Optimal adhesive for rough surfaces after buffing the inside of the tire.
 Outstanding heat resistance to prevent detachment of repair material while driving.
- Outstanding cold curing cement with no heating required.
- Always use with Maruni products.
- Non-Flammable.

Product descriptions

| REF. | No. | DESCRIPTION | | REF. No. | DESCF | RIPTION |
|------|-----|-------------|----------------|----------|--------------|---------------|
| 3800 | 8 | 8ml tube | 12 tubes / box | 38188 | 200ml tin | 12 tins / box |
| 3805 | 0 | 50ml tube | 12 tubes / box | 38190 | 1000ml tin | |
| 3818 | 6 | 100ml tin | 12 tins / box | 38190-BR | 1000ml tin v | vith Brush |

VALKARN -Vulcanizing Cement for Tube Repair-



Properties

- Vulcanizing cement for tube patches.
- Use for repairing a wide variety of tubes from bicycles to OTR tires.
 High quality and highly adhesive.
- Optimal adhesive strength for easy use. Smooth and easy to use.
- Outstanding heat resistance to prevent detachment of repair material while driving.
- Outstanding cold curing cement with no heating required.
- Always use with Maruni products.
- Non-Flammable.

Product descriptions

| REF. No. | DESCRIPTION | REF. No. | DESCRIPTION | l |
|----------|--------------------------|----------|-------------------------|---|
| 35008 | 8ml tube 12 tubes / box | 35188 | 200ml tin 12 tins / box | |
| 35022 | 22ml tube 12 tubes / box | 35190 | 1000ml tin | |
| 35050 | 50ml tube 12 tubes / box | 35190-BR | 1000ml tin with Brush | |
| 35186 | 100ml tin 12 tins / box | | | |

THERMO LIQUID -Vulcanizing Cement for Hotcure-



Properties

- Vulcanizing cement for hot curing.
- High quality and highly adhesive.
- Always use with Maruni products.
- Non-Flammable.

| REF. No. | MODEL No. | DESCF | RIPTION |
|----------|-----------|------------|---------------|
| 39188 | TL-200 | 200ml tin | 12 tins / box |
| 39190 | TL-1000 | 1000ml tin | |

BEAD SEALER - Tire Sealant-





Properties

- Prevents air leaks when there is damage to beads or the rim.
 Completely seals the gap between the tire and wheel rim to prevent even minute air leaks.
- Non-Flammable.

Product descriptions

| REF. No. | MODEL No. | DESCRIPTION |
|----------|-----------|-------------------------|
| 60121 | BS-02 | 200ml tin 12 tins / box |
| 60123 | BS-10 | 1000ml tin |

SEALINER -Inner Liner Sealant-



Properties

- To prevent air leaks, even minute ones, coats areas that have been buffed too much or where the inner liner has been removed.
- Coating SEALINER over the patch is effective to provide a more complete repair.
- Non-Flammable.

Product descriptions

| REF. No. | MODEL No. | DESCRIPTION |
|----------|-----------|-------------------------|
| 60132 | SL-02 | 200ml tin 12 tins / box |
| 60131 | SL-10 | 1000ml tin |

LIQUID BUFFER -Chemical Cleaner-



Properties

- Chemical cleaner for the inside of tires, tubes and conveyor belts.
- Can be used in place of machine buffing for small injuries.
- Non-Flammable.

Product descriptions

| REF. No. | MODEL No. | DESCRIPTION |
|----------|-----------|-------------------------|
| 60101 | LB-180S | 180ml spray type in tin |
| 60104 | LB-500S | 420ml spray type in tin |
| 60105 | LB-500 | 500ml tin |
| 60107 | LB-200 | 200ml _{tin} |

BEAD LUBE -Mounting / Demounting Fluid-



Properties

- Liquid bead lube, ideal for mounting and demounting large tires.
- Easily applied and removed.
- Non-Flammable.

| r roudet desemptions | | | | |
|----------------------|-----------|-------------|--|--|
| REF. No. | MODEL No. | DESCRIPTION | | |
| 60117 | BL-4000 | 4ℓ bottle | | |

BEAD WAX -Mounting / Demounting Cream-



60141

60144

EMERGENCY TIRE SEALANT KIT

Repair procedure details ▶http://www.maruni-ind.co.jp/english/

12 tins / box

4 tins / box



Easy emergency repair in case of flat tire Easy operation for anybody, and get out from emergency!

• NO NEED TO JACK UP •NO NEED TO CHANGE WITH SPARE TIRE





STEP2 | Fill up with air by air compressor

Properties

BWM-10

BWM-40

- Only for repairs of nail holes in passenger car tires.
- Allows easy temporary repairs in an emergency.
- Because this is a temporary repair, complete repairs are required at a tire retailer after using this product.

1kg in plastic container / Gold Label

4kg in plastic container / Gold Label

- Improves mileage and more environmentally friendly since the cars don't need to carry a spare tire.
- The included air compressor can be used anywhere and at any time by connecting it to the cigarette lighter socket.

| - | |
|-----------------------|--|
| REF. No. | 27202 |
| MODEL No. | ETSK-02 |
| COMMODITY DESCRIPTION | EMERGENCY TIRE SEALANT |
| COMPONENT | PROPYLENE GLYCOL, SYNTHETIC FIBER AND OTHERS |
| APPLICATION | EMERGENCY TIRE REPAIR FOR PASSENGER CAR TIRES |
| CONTENT | 500ml |
| COMMODITY DESCRIPTION | HIGH-POWER AIR COMPRESSOR |
| INPUT VOLTAGE | DC12V |
| MAX PRESSURE | 450kPa |
| OUTSIDE DIMENSIONS | 148(W) × 65 (H) × 126 (D)mm |
| WEIGHT | 640g |
| ELECTRIC CORD | 3m (available length) |
| AIR HOSE | 520mm (available length) |
| FUSE | 10A (fuse) |
| | |
| ACCESSORIES | BICYCLE-ADAPTER, BALL-ADAPTER, VALVE CORE DRIVER, VALVE CORE, MANUAL |

CFC FREE SUPER VALKARN G -Vulcanizing Cement for Tire Repair-



Properties

- Vulcanizing cement for tire repairs.
- Use for repairing a wide variety of tires from bicycles to OTR tires.
- High quality and highly adhesive.
- Optimal adhesive for rough surfaces after buffing the inside of the tire.
- Outstanding heat resistance to prevent detachment of repair material while driving. •
- Outstanding cold curing cement with no heating required. •
- Always use with Maruni products. •
- Flammable. •

Product descriptions



CFC FREE VALKARN -Vulcanizing Cement for Tube Repair-



Properties

- Vulcanizing cement for tube patches.
- Use for repairing a wide variety of tubes from bicycles to OTR tires.
- High quality and highly adhesive.
- Optimal adhesive strength for easy use. Smooth and easy to use.
- Outstanding heat resistance to prevent detachment of repair material while driving.
- Outstanding cold curing cement with no heating required.
- Always use with Maruni products.
- Flammable.

Product descriptions

| | | - | | | |
|---|----------|--------------------------|----------|-------------------------|--|
| | REF. No. | DESCRIPTION | REF. No. | DESCRIPTION | |
| | 35682 | 8ml tube 12 tubes / box | 35688 | 200ml tin 12 tins / box | |
| | 35684 | 22ml tube 12 tubes / box | 35690 | 1000ml tin | |
| | 35692 | 50ml tube 12 tubes / box | 35690-BR | 1000ml tin with Brush | |
| ſ | 35686 | 100ml tin 12 tins / box | | | |

BEAD SEALER -Tire Sealant-CFC FREE





Properties

- Prevents air leaks when there is damage to beads or the rim.
- Completely seals the gap between the tire and wheel rim to prevent even minute air leaks.
- Flammable.

Product descriptions

| i i ou det desemptions | | |
|------------------------|-----------|-------------------------|
| REF. No. | MODEL No. | DESCRIPTION |
| 60122 | BS-02 | 200ml tin 12 tins / box |
| 60124 | BS-10 | 1000ml tin |

CFC FREE SEALINER -Inner Liner Sealant-





Properties

- To prevent air leaks, even minute ones, coats areas that have been buffed too much or where the inner liner has been removed.
- . Coating SEALINER over the patch is effective to provide a more complete repair. •
- Flammable

Product descriptions MODEL No. DESCRIPTION REF. No. 60133 SL-02 200ml tin 12 tins / box 60134 **SL-10** 1000ml tin

CFC FREE LIQUID BUFFER -Chemical Cleaner-



Properties

- Chemical cleaner for the inside of tires, tubes and conveyor belts.
- Can be used in place of machine buffing for small injuries.
- Flammable.

Product descriptions

| REF. No. | MODEL No. | DESCRIPTION |
|----------|-----------|-------------|
| 60603 | LB-200 | 200ml tin |
| 60605 | LB-500 | 500ml tin |

TOOLS -Tools for tire repair-



| No. | REF. No. | MODEL No. | DESCRIPTION |
|-----|----------|-----------|------------------------------------|
| 1 | 92501 | RC-01 | Ratchet (without reamer) |
| 2 | 92506 | RR-01 | Ratchet Reamer S (6mm) |
| 3 | 92508 | RR-02 | Ratchet Reamer M (8mm) |
| 4 | 92510 | RR-03 | Ratchet Reamer L (10mm) |
| 5 | 92504 | RM-05 | Reamer (for QWIK PLUG KIT) |
| 6 | 92802 | SR-01 | Screw Reamer (for *P.V.S. L) |
| Ø | 92804 | SR-02 | Screw Reamer (for *P.V.S. S) |
| (8) | 92812 | IN-02 | Insert Needle L (for *P.V.S. L-10) |

| No. | REF. No. | MODEL No. | DESCRIPTION | |
|-----|----------|-----------|-------------------------------------|--|
| 9 | 92905 | IN-05 | Insert Needle S (for *P.V.S. S-10) | |
| 10 | 92906 | IN-06 | Insert Needle LL (for *P.V.S. L-14) | |
| 1 | 92817 | ND-30 | Spare Needle S (for *P.V.S. L,S-10) | |
| 12 | 92818 | ND-57 | Spare Needle LL (for *P.V.S. L-14) | |
| 13 | 93124 | - | Milling Roller V-4mm (width) | |
| 14 | 93126 | - | Milling Roller V-6mm (width) | |
| 15 | 93032 | - | Scraper | |

*P.V.S.=Power Valkaseal

6

018

PLUG PATCH

Repair example 1

Attaching PLUG PATCH(PW-4007) to P/C (passenger) radial treads.

PLUG PATCH ►P9 CARBIDE CUTTER ►P9 SUPER VALKARN G ►P14/P17 SEALINER ►P15/P17 LIQUID BUFFER ►P15/P18





Use LIQUID BUFFER / CFC FREE to lift oil and stains from the inside of the guidelines on the attachment side.



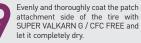
Use a scraper to scrape off the lifted oil and stains.

Buff the attachment side of the tire with a low speed air buffer.

Use an air vacu any scraps and

Use an air vacuum to thoroughly remove any scraps and residue.







Apply one drop of SUPER VALKARN G / CFC FREE to the injured area as well.



Coat the tapered portion (black) of the PLUG PATCH with SUPER VALKARN G / CFC FREE. After loosening the tire spreader, insert the wire of the PLUG PATCH into the puncture flaw from the inside while taking care not to touch the patch attachment surface.



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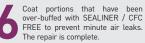


Pressure bond with a milling roller from the center outwards to prevent air from entering the patch.



Cut the plug so that there is still 2 to 3mm in length protruding from the tire.





TIRE-PATCH MR & STEM

Repair example 2

Applying STEM(SM-10) and TIRE-PATCH (MR-20) to T/B (truck and bus) radial tire treads. TIRE-PATCH MR ►P3 STEM ►P9 CARBIDE CUTTER ►P9 SUPER VALKARN G ►P14/P17 SEALINER ►P15/P17 LIQUID BUFFER ►P15/P18









Prepare the injured area by inserting a carbide cutter into it 2 to 3 times from the inner and outer side of tire.



Attach the STEM to a pulling wire.



Peel off the seal and coat with SUPER VALKARN G / CFC FREE.



Apply SUPER VALKARN G / CFC FREE to the injury as well.



Insert the pulling wire to pass through the injury from the inside of the tire.



Pull the pulling wire with pliers from the outside. Once the tip of the STEM appears, grasp the tip and pull until it has almost but not quite comes out.



Cut so that the STEM protrudes 2 to 3 mm in length from the inside of the tire.

•



Adjust the patch so that the injury is in the center of the patch and outline an area slightly larger than the patch. Make sure to match the bead section of tire and bead direction of the patch.



Use LIQUID BUFFER / CFC FREE to lift oil and stains and remove with a scraper.



Buff the attachment side of the patch with a low speed air buffer.



Use an air vacuum to thoroughly remove any scraps and residue.



Evenly and thoroughly coat the patch attachment side of the tire with SUPER VALKARN G / CFC FREE and let it completely dry.



After loosening the tire spreader, peel off the film of the patch and attach it to the tire while taking care not to touch the patch attachment surface. Make sure to match the bead section of tire and bead direction of the patch.



Pressure bond with a milling roller from the center outwards to prevent air from entering the patch.





TIRE-PATCH MB & STEM

Repair example 3

Applying STEM(SM-15) and TIRE-PATCH (MB-04) to T/B (truck and bus) bias tire treads.

TIRE-PATCH MB ►P5 STEM ▶P9 CARBIDE CUTTER ► P9 SUPER VALKARN G ►P14/P17 SEALINER ▶P15/P17 LIQUID BUFFER ►P15/P18







the patch and outline an area slightly larger than the patch. Make sure to match the bead section of tire and bead direction of the patch.



Perform steps 1~8 on page 20 to fill the 8 injury with the STEM.

Adjust the patch so that the injury is in the center of

Perform steps 10~13 on page20. $0 \sim 13$



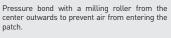


center outwards to prevent air from entering the patch.



Remove the film from the patch and attach to the tire without touching the attachment side. Make sure to match the bead section of tire and bead direction of the patch.





is still 2 to 3mm in length protruding. Using SEALINER / CFC FREE to finish will ensure a more thorough repair. The repair is complete.

TIRE-PATCH MU & STEM

Repair example 4

8

Applying STEM(SM-07) and TIRE-PATCH(MU-01) to T/B (truck and bus) radial tire treads.

TIRE-PATCH MU ►P7 STEM ▶P9 CARBIDE CUTTER ▶P9 SUPER VALKARN G ▶P14/P17 SEALINER ►P15/P17 LIQUID BUFFER
P15/P18





injury with the STEM.



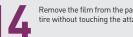
Adjust the patch so that the injury is in the center of the patch and outline an area slightly larger than the patch.



10~13

Perform steps 10~13 on page 20.





Remove the film from the patch and attach to the tire without touching the attachment side.

Perform steps 1~8 on page 20 to fill the



Pressure bond with a milling roller from the center outwards to prevent air from entering the patch.



Cut the STEM on the outside of the tire so that there 2 to 3mm in length protruding. Using SEALINER / CFC FREE to finish will ensure a more thorough repair. The repair is complete.

021

TUBE-PATCH

Repair example 5

Applying TUBE-PATCH (M2) to T/B (truck and bus) tubes.

TUBE-PATCH ►P11 VALKARN ►P14/P17 LIQUID BUFFER ►P15/P18







Mark the injured area with chalk to identify the area.

4





Use LIQUID BUFFER / CFC FREE to lift oil and stains from around the injury.



Use a rag to thoroughly remove oil and stains. 4



Place patch on the injury and use marking chalk to outline an area slightly larger than the patch.



Buff the attachment area of the tube.



Use an air vacuum to thoroughly remove any scraps and residue.



Thoroughly coat the patch attachment area on the tube with VALKARN / CFC FREE and let completely dry.



Remove the aluminum portion of the patch taking care not to touch the attachment side.



Apply the patch.



Thoroughly pressure bond with a milling roller from the center outwards to prevent air from entering the patch.



Remove the film to complete the repair.

FILLER GUM, FLOATER GUM & TIRE-PATCH MS

Repair example 6

the sections.

Attaching FILLER GUM, FLOATER GUM, and TIRE-PATCH (MS-05) to the side of T/B (truck and bus) bias tires. This is for side, shoulder and large injuries that cannot be repaired with STEM, perform hot curing using filler gum.





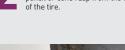
Buff the area surrounding the injury on the inside of the tire with a low speed air buffer.

area on the inside with THERMO

above the tire, use a milling

roller to pressure bond.

LIQUID and let it completely dry.



remove any scraps and residue.

the injury from the inside of the

tire, and thoroughly pressure

bond with a milling roller.

of the tire.

Prepare the injury so that it becomes to be cone-shaped using a pencil or cone rasp from the outside of the tire. prepare injury from the outside of the tire with a low speed air buffer.

Use marking chalk to mark a cross on the inside of the tire with the center of the injury at the center of the cross.



Measure the diameter and depth of the injury.

appropriate size to fill the injury,

remove the film and heat on a

plate or other devices to soften.

Coat the entire injury from the outside with THERMO LIQUID and let it completely dry.

layering it in the injury taking care

not let air enter.

outside.





023



TIRE-PATCH MS ►P5 FLOATER GUM ►P8 FILLER GUM ►P8 SUPER VALKARN G ►P14/P17 THERMO LIQUID ►P14 SEALINER ►P15/P17 LIQUID BUFFER ►P15/P18



Perform hot curing by using a spotter. (Approximately 4 minutes for each 1 millimeter of thickness + warm up times for the spotter requires a separate 20 to 30 minutes)





Apply MS-05 from the inside of the tire and outline an area slightly larger than the patch. Make sure to match bead section of tire and bead direction of patch.



Use LIQUID BUFFER / CFC FREE to lift oil and stains from the inside of the guidelines on the attachment side.



Use a scraper to scrape off the lifted oil and stains.

Z



222 Buff the attachment side of the patch with a low speed air buffer.

Use an air vacuum to thoroughly remove any scraps and residue.



taking care not to touch the patch attachment side and coat with SUPER VALKARN G / CFC FREE. Let it completely dry.

Remove the film from the patch



Attach FLOATER GUM to the patch attachment side and pressure bond with a milling roller while taking care not to let air enter. Remove any air by piercing the FLOATER GUM with a needle.



Cut off extra FLOATER GUM while leaving an area slightly larger than the patch.



Remove the film from the FLOATER GUM that was attached to the patch taking care not to touch the attachment side.

Coat the attachment area of the

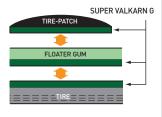
Coat the attachment area of the FLOATER GUM with SUPER VALKARN G / CFC FREE and let completely dry.



Coat the attachment area of the tire with SUPER VALKARN G/CFC FREE and let completely dry.



After the SUPER VALKARN G / CFC FREE coating on the tire and the FLOATER GUM have completely dried, loosen the tire spreader and apply the patch. Complete the repair by pressure bonding with a milling roller from the center outwards to prevent air from entering the patch.



How to apply SUPER VALKARN G/ CFC FREE when using FLOATER GUM.

Repairing tires from the outside

POWER VALKASEAL

Repair example 7

Attaching POWER VALKASEAL (L-1050) to PC (passenger) radial tire treads.

POWER VALKASEAL ► P10 SUPER VALKARN G ► P14/P17 SCREW REAMER L ► P18 INSERT NEEDLE L ► P18







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| E-Mail | sales@maruni-ind.co.jp | Employees | 50 | |
| President | Suguru Asano | Bank | The Bank of Tokyo-Mitsubishi UFJ,Ltd., Ikuno and Imazato branches. Resona Bank, Limited, Ikuno Branch | |
| Foundation / Establishmen | Foundation 1914 t Establishment 1948 | | | |

History

- 1914 Great grandfather of current president founded to sell rubber in Osaka city.
- 1933 Grandfather of current president created his own business and started to sell tires and tubes for bicycles.
- 1948 Established Maruni Industry Co., ltd, manufactured and sold rubber cements as "Earth" brand.
- 1956 Developed patches for tube repair in place of the old method "Using wasted tube".
- 1960 Production and Technical department contributed implementation of mass production. 50% of production were exported to overseas and commendation of Japanese minister as contributed company of export was awarded for years. Also, in the tax field, awarded as "quality company" for years.
- 1973 Advanced equipments and machines in factory , and successfully developed the world's first "Stick", which was "Bullet shape "tire repair material for tubeless passenger tire, and entered in automobile tire field.

- 1976 Developed conveyor patches for big size conveyor belt for quarry and received good reputation in worldwide markets. At the same time, developed and produced hammer-ball which protected filters from clogging, and entered in quarry field.
- 1983 Promoted automation in factory and established mass production system. Chemicals Evaluation and Research Institute, Japan provided us "usage of certificate" since we passed strict standards for quality, technique and equipment.
- 1987 Entered in tire repair for big truck and heavy-construction-equipment. Established credibility as only one manufacture of tire repair material of tires, tubes and conveyor belts in Japan.
- 1998 Marked our 50th anniversary and started to build warehouse & build delivery center, which was completed in 1999.
- 2002 Started to operate Chinese factory in Shantou, Guangdong province.
- 2008 Marked our 60th anniversary.
- 2011 Acquired certification of ISO 9001:2008.
- 2015 Dissolved joint venture company in Shantou, China. Started to produce all tire repair materials in Japanese factory.





MARUNI INDUSTRY CO., LTD

- since 1948-

MADE IN JAPAN



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