

Tire Repair Catalog







Maruni Tire Repair Catalog 2018 / Volume 25

MADE IN JAPAN

vol. 25

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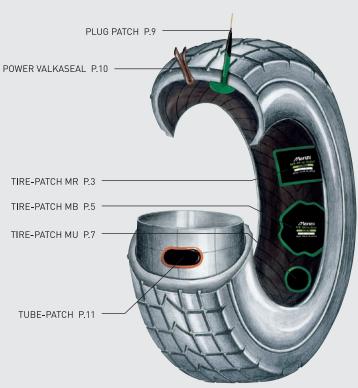
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DIRECTIONS



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.



Properties

- Can be used on all types or radial tires from passenger cars to heavy construction equipment.
- A wide variety of product types to repair any type or size of injury.
- Provides permanent repair.
- 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.



Repair procedure details P20

Product descriptions and compatible vehicle tires

REF. No.	MODEL No.	SIZE (mm)	PLY	BOX QTY	-	20 O	60	0 00	-0-0-00	-	F O	400
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.								•
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.							•	

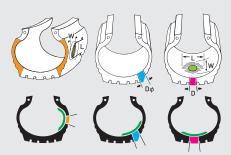
Application chart

	W L mm max.	Dφ mm max.	W/D L mm max.	MR No.
	4 12	6	10 10	08
Q	6 15	8	12 12	10
	20 37		22 22	14
	4 12	4	8 8	08
S	6 15	6	10 10	10
-0-0-	15 32		13 13	
н	4 5	2	6 6	
	6 7	3	7 7	
VZR	3 4	3	7 7	
ZR	6 8	2	3 3	_
165R-215R	6 8	3 6	14 14	
6-8PR	15 33	8	18 18	
	8 10	6	10 10	
	10 13	8	12 12	
	15 62			
.0_0.	20 52	10	18 18	22
6.00R-7.50R	10 82	1 E	20 /2	/0
7R-8.5R	25 82	15	28 43	40
205 / -225 /	1 Cable 82			24
	2 Cables 62			24
	6 13	8	12 12	20
	10 82	15	23 43	40
	20 62		20 40	
	10 115	20	33 53	42
	25 85			
0_00	20 135	25	43 73	44
8.25R-10.00R	40 85		17 07	25
9R-11R			17 27 27 37	
11 / 235 / -285 /			42 62	
	1 Cable 82			
	2 Cables 62			24
	1 Cable 123			
	3 Cables 63			26
	6 8	6	10 10	20
	10 63	10	18 23	40
	15 38	10	10 23	40
	10 103	20	28 53	42
	25 83			
0_00	20 133	25	42 72	44
11.00R-13.00R	40 83		12 22	25
12R-15R 12 / -13 / 295 / -365 /			12 22 22 32	
_,, 2,0, 2007			42 62	
	1 Cable 122		02	
	3 Cables 62			26
1/ 000	1 Cable 142			
14.00R- 16.5R / -	2 Cables 82			28
15.5 / -	12 32	10	14 14	40
385 / -	10 102	20	22 32	42
	20 62	20	22 32	+4
	20 132	25	32 52	44
	30 62			
	40 102	30	42 72	46

	١	W mm m	L mm	Dφ mm max.	W/D	L mm	MR No.
		10	12	5	13	18	20
	5.00-7.50	10 15	53 33	5	13	23	22
<u>I</u>		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
+ 6	8-11	70 120	103 72	45	72	93	82
6-0	3	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
	3	80 120	132 82	60	92	113	84
		100 160	162 102	85	132	153	86

100 SERIES	75-80 SERIES	65 SERIES	W mm m	L mm	Dφ mm max.	W/D mm	L mm	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
4/0	0		25 50	253 153	35	53	83	50
16.00-40.00	17.5-50.5	25/-65/	50 100	253 153	55	93	123	52
			50 100	303 203	60	93	143	56
18.00-40.00	20.5-50.5	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 21.00-30.00	15.5-20.5 23.5-33.5	20/-35/ 40/-50/				43 28	73 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





- $\ensuremath{\mathsf{W}}\xspace$: Max. measurement of the damaged carcass cords in running direction.
- $L\ : \mbox{Max.}$ 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.

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 /
- 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.



SUPER VALKARN G►P14/P17 SEALINER►P15/P17 STEM ▶ P9 THERMO LIQUID ▶ P14



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	BEAD
28302	MB-02	80	2	15 pcs.	Nattriole Offit	MB- U1~U2	
28303	MB-03	91	2	10 pcs.			
28304	MB-04	127	2	10 pcs.			~ ~
28305 / 28405	MB/MS-05	165	4	10 pcs.	Car & Truck	MB- 03~10	BEAD
28306 / 28406	MB/MS-06	240	6	10 pcs.			
28307 / 28407	MB/MS-07	295	6	10 pcs.			
28308 / 28408	MB/MS-08	345	6	10 pcs.		MS- 05~10	BEAD
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	BEAD
28323	MB-23	255	6	10 pcs.	Tractor	MB- 20~25	40 40
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	_mm_ BEAD
28332 / 28432	MB/MS-32	450	8	5 pcs.	Grader		A (1)
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.			
28341	MB-41	235	6	10 pcs.	Industrial Tires	MB- 40~42	BEAD
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 (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)		
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 RATING	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		
40 _– 48	32	3/.	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 ${\rm G}$ / 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 $\operatorname{\mathsf{BUFFER}}/\operatorname{\mathsf{CFC}}$ 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

Industrial Tires



Perforations of tread, shoulder and sidewall

		MAX. INJURY (D	1)
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	-

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	-	-		

Nailhole Units

MAX. INJURY (D1)			
4mm (3/16 inch)	6mm (1/4 inch)		
MB No. 01	MB No. 02		



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 G / CFC FREE.
- Use 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



Repair procedure details P21,P23

Product descriptions

REF. No.	MODEL No.	SIZE (mm)	PLY	BOX QTY.
28350	MB-502	240	4	10 pcs.
28351	MB-503	240	6	10 pcs.
28352	MB-523	360	6	10 pcs.
28353	MB-524	360	8	10 pcs.
28354	MB-544	480	8	5 pcs.
28355	MR-5/5	/80	10	5 pcs

Application chart

Application chart									
				N	MAX. 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 / MU-SQUARE 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.



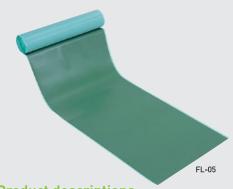
Associated products SUPER VALKARN G►P14/P17 SEALINER►P15/P17 STEM►P9



Repair procedure details

Product descriptions							
REF. No.	MODEL No.	DESCRIPTION					
28199	MU-A0	34mm 100 pcs./ box					
28200	MU-00	43mm 100 pcs./ box					
28220	MU-B0	52mm 50 pcs./ box					
28201	MU-01	65mm 50 pcs./ box					
28202	MU-02	78mm 50 pcs./ box					
28230	MU-S0	45mm 100 pcs./ box					
28231	MU-S1	60mm 50 pcs./ box					
28232	MU-S2	70mm 50 pcs./ box					

FLOATER GUM -Cushion Gum-



Product descriptions

REF. No.	MODEL No.	DESCRIPTION
29002	FL-02	2kg 0.8mm × 500mm × about 3.8m
29005	FL-05	5kg 0.8mm × 500mm × about 9.5m

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. \sim 10hours at 90°C \sim 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

1. Self or 2. Low Heat Pressure

Super Valkarn Super Valkarn G Valkarn G vice) Tire Patch

3. High Heat Pressure





FILLER GUM -Uncured Rubber Compound-

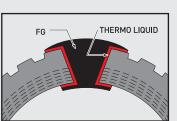


Product descriptions

REF. No. MODEL No.				
29962	FG-02	2kg 3.0mm × 500mm × about 1m		
29965	FG-05	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°C when direct sunlight and humidity are avoided



P23 Repair procedure details

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 -Filler Plug for Tubeless Tire-





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.

Product descriptions

STICK

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

PREMIUM 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.

Repair procedure details P19

Product descriptions

REF. No.	MODEL No.	DESCRIPTION	1
27950	PW-3505	base 35 × shaft 5mm	20 pcs./box
27954	PW-4007	base 40 × shaft 7mm	16 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

REF. No.	MODEL No.	QTY
27950	PW-3505	5 pcs.
27954	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.

The Milling Roller and the Carbide Cutter are optional.

STEM with wire -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.	DESCI	RIPTION
20905	SM-05	shaft 5ϕ	40 pcs./box
20907	SM-07	shaft 7ϕ	30 pcs./box
20910	SM-10	shaft 10 ϕ	20 pcs./box
20915	SM-15	shaft 15 ϕ	10 pcs./box
20920	SM-20	shaft 20 ϕ	5 pcs./box

Repair pro Repair procedure details

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



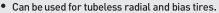
Carbide	Cutter	9	STEM	PLUG PATCH		Cutter Injury		P/C	L/T	Truck
REF. No.	SIZE (mm)	REF. No.	MODEL NO.	REF. No.	MODEL NO.	$ (mm\phi) (mm\phi)$		P/C		ITUCK
42395	75 × 4	20905	SM-05	27950	PW-3505	4	3	•	•	•
(0000	80 × 6	20907	SM-07	-	-	6	4	•	•	•
42378	80 × 6	-	-	27953	PW-4007	6	4	•	•	•
42379	100 × 8	20910	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







- 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



Repair procedure details P25

POWER	VAI	κΛ¢	FΛI
PUVVER	VAL	-NAS	

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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.	
(7)	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
ĺ	2	38188 / 38688	Super Valkarn G 200ml / CFC FREE	1 tin
Ì	3	92804	SR-02 Screw Reamer S	1 pc.
ĺ	4	92905	IN-05 Insert Needle S	1 pc.
1	5	92817	ND-30 Spare Needle S	1 pc.
ĺ	6	92830	HX-25 Hexagon Wrench	1 pc.
Ì	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.





23967/23987(CFC FREE) VK-0	2	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.	

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.

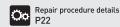


Properties

- 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.





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	0V-01	41 × 107 mm 30 pcs./ box
10417	0V-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

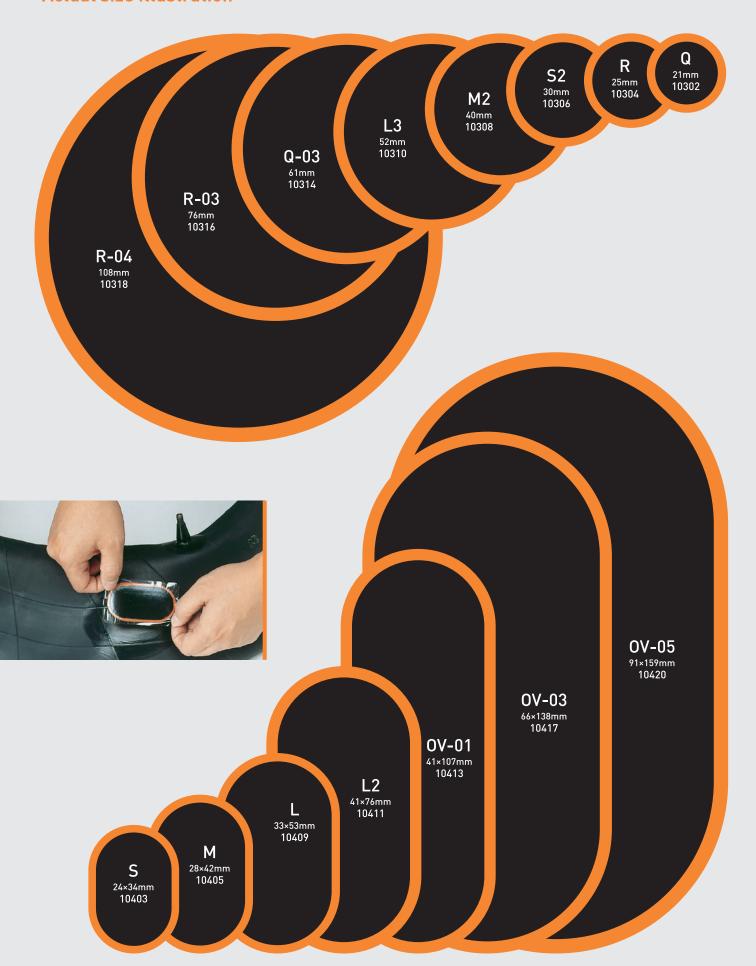


Properties

• 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-



BB-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.		DESCRIPT	ON	
10502	BB-Q	21mm	200 pcs./ box	
10504	BB-R	25mm	256 pcs./box	
10506	BB-S2	30mm	180 pcs./ box	ĺ
10513	BB-S	24 × 34mm	204 pcs./box	Ī

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



•			
11218 / 11724 (CFC F	REE) CYCLE	KIT CK-0	1
BB-Patch BB-R	25mm	3 pcs.	
BB-Patch BB-S	24 × 34mm	2 pcs.	
Valkarn / CFC FREE	8ml	1 pc.	
Emery Paper		1 pc.	
Valve Tubing		1 pc.	

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.
- Non-Flammable.

Product descriptions

	•				
REF. No.	DESCRIPTION		REF. No.	DESCRIPTION	
38008	8ml tube 12 tubes / box		38188	200ml tin 12 tins / box	
38050	50ml tube 12 tubes / box		38190	1000ml tin	
38186	100ml tin 12 tins / box		38190-BR	1000ml tin with 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.	DESCR	IPTION
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 w	ith 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.	DESCRIPTION
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
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.

REF. No.	MODEL No.	DESCRIPTION
60117	BL-4000	4ℓ bottle

BEAD WAX -Mounting / Demounting Cream-



Properties

- Lubricates the bead sections for easier mounting and demounting of tires.
- Allows smoother mounting and demounting of tires to protect the tires and wheels from damage.
- Ohman af amada.

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Product descriptions

REF. No.	MODEL No.	DESCRIPTION	
60127	BWC-10	1kg in plastic container / Green Label	12 tins / box
60130	BWC-40	4kg in plastic container / Green Label	4 tins / box
60136	BWE-10	1kg in plastic container / Red Label	12 tins / box
60139	BWE-40	4kg in plastic container / Red Label	4 tins / box
60141	BWM-10	1kg in plastic container / Gold Label	12 tins / box
60144	BWM-40	4kg in plastic container / Gold Label	4 tins / box

EMERGENCY TIRE SEALANT KIT

BWE-10

Repair procedure details

http://www.maruni-ind.co.jp/english/



Properties

- 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.
- 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.

Product descriptions

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		

Easy emergency repair in case of flat tire

Easy operation for anybody, and get out from emergency!



STEP1 | Inject emergency tire sealant to the tire



STEP2 | Fill up with air by air compressor

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

REF. No.	DESCRIPTION	REF. No.	DESCRIPTION	
38682	8ml tube 12 tubes / box	38688	200ml tin 12 tins / box	
38692	50ml tube 12 tubes / box	38690	1000ml tin	
38684	100ml tin 12 tins / box	38690-BR	1000ml tin with Brush	

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.	. No. DESCRIPTION		REF. No.	DESCRIPTION	
35682	8ml tube 12 tubes / box		35688	200ml tin 12 tins / box	ı
35684	22ml tube 12 tubes / box		35690	1000ml tin	
35692	50ml tube 12 tubes / box		35690-BR	1000ml tin with Brush	Ì
35484	100ml tin 12 tins / hov				

CFC FREE 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.
- Flammable.

Product descriptions

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

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

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	92504	RM-05	Reamer (for Stick-MINI)	
2	92802	SR-01	Screw Reamer (for *P.V.S. L)	
3	92804	SR-02	Screw Reamer (for *P.V.S. S)	
4	92812	IN-02	Insert Needle L (for *P.V.S. L-10)	
5	92905	IN-05	Insert Needle S (for *P.V.S. S-10)	
6	92906	IN-06	Insert Needle LL (for *P.V.S. L-14)	
Ī	92817	ND-30	Spare Needle S (for *P.V.S. L,S-10)	
8	92818	ND-57	Spare Needle LL (for *P.V.S. L-14)	

No.	REF. No.	MODEL No.	DESCRIPTION	
9	93124	-	Milling Roller	V-4mm (width)
10	93126	-	Milling Roller	V-6mm (width)
(11)	93032	-	Scraper	

*P.V.S.=Power Valkaseal

PLUG PATCH



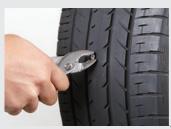
VIDEO

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









Prepare the injured area by inserting a carbide cutter into it



Prepare the injured area by also inserting the carbide cutter 2 to 3 times from the inside of tire as well.



Adjust the PLUG PATCH so that the injured area is in the center of the patch and then outline an area slightly larger than the patch.



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



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 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.



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



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.



Use pliers to grasp and pull out the wire.



roller from the center outwards to prevent air from entering the



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



Coat portions that have been over-buffed with SEALINER / CFC FREE to prevent minute air leaks. The repair is complete.

TIRE-PATCH MR & STEM



VIDEO

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









Use pliers to remove foreign objects and mark with chalk to identify the injured area.



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.



Cut the STEM on the outside of the tire so that there 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 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













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.



Perform steps 10~13 on page20.



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.



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



Cut the STEM on the outside of the tire so that there 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

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







Perform steps 1~8 on page 20 to fill the 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



Perform steps 10~13 on page 20.



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



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



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.

TUBE-PATCH



VIDEO

Repair example 5

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

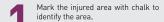
TUBE-PATCH ▶P11 VALKARN ▶P14/P17 LIQUID BUFFER ▶P15/P18













For rupture injuries, round the sides of the injury to prevent the injury from enlarging.



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



Use a rag to thoroughly remove oil and



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

FILLER GUM, FLOATER GUM & TIRE-PATCH MS



Repair example 6

Attaching FILLER GUM, FLOATER GUM, and TIRE-PATCH (MS-05) to the side of T/B (truck and bus) bias tires.

VIDEO

This is for side, shoulder and large injuries that cannot be repaired with STEM, perform hot curing using filler gum.



Use a rotary gorge on the outside of the tire to remove the injured sections.



Prepare the injury so that it becomes to be cone-shaped using a pencil or cone rasp from the outside of the tire.



Buff the area surrounding the 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.



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



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



Measure the diameter and depth of the injury.



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



Coat the FILLER GUM attachment area on the inside with THERMO LIQUID and let it completely dry.



Apply 1 piece of FILLER GUM to the injury from the inside of the tire, and thoroughly pressure bond with a milling roller.



Cut the FILLER GUM to an appropriate size to fill the injury, remove the film and heat on a plate or other devices to soften.



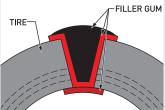
Fill the injury with FILLER GUM by layering it in the injury taking care not let air enter.



Once the FILLER GUM has been layered so that it rises slightly above the tire, use a milling roller to pressure bond.



Remove the FILLER GUM film that was attached to the inside of the tire.



The cross-section of the tire at this point is as shown.



Place cellophane on top of the FILLER GUM on the inside and outside.

TIRE-PATCH MS ▶P5 FLOATER GUM ▶P8 FILLER GUM ▶P8 THERMO LIQUID ▶P14 SEALINER ▶P15/P17 LIQUID BUFFER ▶P15/P18

SUPER VALKARN G ▶P14/P17



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



Shape the injury with a low speed air buffer or similar tool.



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



Use LIQUID BUFFER / CFC FREE to lift oil and stains from the inside of the guidelines on the attachment $% \left(t\right) =\left(t\right) \left(t\right) \left($



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



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



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



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



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.



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 FLOATER GUM with SUPER VALKARN G / CFC FREE and let completely dry.



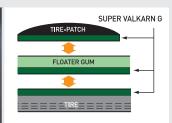
the tire with SUPER VALKARN G / CFC FREE and let completely



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.

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





Remove foreign objects with pliers and mark the injured area with chalk to identify the area.



Thoroughly coat the SCREW REAMER with SUPER VALKARN G / CFC FREE.



Insert the SCREW REAMER L into the injury and turn clockwise to adjust the flaw. Repeat this procedure 2 to 3 times. Remove the SCREW REAMER L while turning clockwise.



Remove the polyfilm from the POWER VALKASEAL.



Apply POWER VALKASEAL to the INSERT NEEDLE L.



Coat POWER VALKASEAL with SUPER VALKARN G / CFC FREE.



Insert POWER VALKASEAL into the tire. Do not rotate while inserting, insert straight.



nsert fully.



Remove the INSERT NEEDLE L straight.



This is how it appears from the inside.



Cut so that there is 2 to 3mm in length protruding from both edges on the outside of the tire. The repair is complete.



MARUNI INDUSTRY CO., LTD.

Location 3-11-1, SHARIJI, IKUNO, OSAKA 544-0022, JAPAN

Phone 81-6-6716-4171 FAX 81-6-6715-1700

Home Page http://www.maruni-ind.co.jp/
E-Mail sales@maruni-ind.co.jp

President Suguru Asano
Foundation / Foundation 1914
Establishment Establishment 1948

Capital 45 million yen

Properties Office Factory

Delivery Center

Employees 50

Bank MUFG Bank, Ltd.

lmazato branches.

Resona Bank, Limited, Ikuno Branch

History

- 1914 Mr. Shigematsu Nishioka founded to sell rubber in Osaka city.
- 1933 Mr. Iwao Nishioka 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.
- 1980 Mr. Kiyoshi Nishioka assumed the presidency.

- 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.
- 2012 Mr. Takashi Sunamura assumed the presidency.
- 2015 Mr. Suguru Asano assumed the presidency.
 Dissolved joint venture company in Shantou, China.
 Started to produce all tire repair materials in Japanese factory.
- 2018 Marked our 70th anniversary.





MARUNI INDUSTRY CO., LTD.

- since 1948 -

MADE IN JAPAN

Note

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