AFTERMARKET PRODUCTS CATALOGUE

GB

EDITION N°18

Chapter 1 Car valves and pressure sensors

Chapter 2 Truck valves, spuds and extensions

Chapter 3 Farm vehicle and earthmover valves

Chapter 4 Valve cores and caps

Chapter 5 Balancing products

Chapter 6 Inflation and compressed-air equipment

Chapter 7 Patches and repair products for tyres and tubes

Chapter 8 Repair tools and vulcanizing equipment

Chapter 9 Garage equipment and tools

Chapter 10 Tyre mounting and balancing machines

OTR TPMS

Chapter 11 Earthmover equipment

Chapter 12 P/N index: alphabetical and numerical
ETRTO index

HOW TO PLACE YOUR ORDER:

To avoid any confusion when placing your order,
we advise you to mention,
FOR EACH PRODUCT:

- the full Schrader P/N

example : **39000-00**

- the description
example: " MASTAIR inflating gauge"

- the quantity ordered
The packaging indicated in our price lists cannot be split.
We therefore reserve the right to round the requested quantity up to the next standard quantity up.

SYMBOLS USED IN THE CATALOGUE:

39000-00
Full Schrader P/N

Drawings

The valves, cores and caps figure in the catalogue at

SCALE 1
REAL SIZE

	Technical information about the product
	Product standards
	Website for more information
	Training at Schrader or on site
	Part storage: Store parts, products and liquids away from light, in a dry, clean place and adhere to storage temperatures
	High-quality product
	Spare parts
	Schrader After Sale Service
	Destruction in accordance with Directive 2002/96/EC
	Product sold for export only
	Identification of the different types of weights
	Safety sheet available
	Appropriate Personal Protection Equipment
	Compatible with EZ-Sensor
	Light product
	Better quality/price ratio

OUR ORGANISATION AT YOUR SERVICE

FRENCH CUSTOMERS

Call center: 03 81 38 56 60
(Answering machine in operation outside office hours and if all lines busy).

Tyre dealers and car accessories shops.

In France, on request, any order of products in stock booked by 3 pm can be delivered within 24 hours.

CUSTOMER SERVICE
Direct fax: +33 (0)3 81 38 56 81
E-mail: resale.info@schrader.fr
Website: www.SchraderInternational.com

EXPORT CUSTOMERS

+33 (0) 381 38 56 27
(Answering machine outside office hours)

Network of distributors in Europe, Africa, Middle-East, Far-East, Asia.

TECHNICAL SUPPORT AND TRAINING

Our TRAINING CENTRE has been set up to provide our customers with the skills required to use Schrader products.

- TPMS pressure sensors (repair, mounting, programming)
- Inflating gauges calibration
- Hot and cold cure tyre repair.
- Mounting and removal of up to EM 1, 3, and 5-piece tyres.
- Our training centre is approved for occupational training.
- Approval no. 43 25 0192825

Affix your Regional representative's business card here

TECHNICAL SUPPORT & AFTER SALES SERVICE

Schrader SAS: service SAV
Quai n° 3 - Rue Jean Mermoz
25300 Pontarlier - France
Tel: +33 (0) 381 38 56 17
Direct fax: +33 (0)3 4641 42

SCHRADER AUTOMOBILE EQUIPMENT MANUFACTURER

THE GROUP

SCHRADER is part of the Madison Dearborn Partners group ("MDP"), an equity investment company based in Chicago, Illinois (USA).
Since it was founded in 1992, MDP has invested in approximately 120 companies in the industrial, government services, distribution, finance, health, telecommunications and new technologies sectors.

THE COMPANY

In Pontarlier (France), SCHRADER designs, develops and manufactures products related to the control of pressure and fluids for wheels, air-conditioning and engine equipment. With 450 employees and a turnover of over 70 million Euro, Schrader provides the builders, equipment manufacturers, tyre and spares professionals, in the automobile, civil engineering and industrial fields.

OE PRODUCTS

SCHRADER, specialist in fluids management, develops and produces, for the main automobile manufacturers and equipment manufacturers, valves enabling the filling, bleeding, pressure measurement and regulation of the various pressure circuits on each vehicle.

SCHRADER participates in and manages the standardisation of valves for tyres (ETRTO, ISO), and other products (AFNOR, CEN, SAE, ISO), develops products that are increasingly high-tech and easy to use.

SCHRADER AFTERMARKET PRODUCTS AND TRADE SOLUTIONS

has a team of 35 people who deal personally with tyre professionals, automobile distributors and provides all the equipment and consumables used in the tyre and tyre maintenance business.

INNOVATION

To meet its customers' requirements, Schrader:
- Innovates in new products with enhanced functions.
- Adapts its products to the new automobile technologies.
- Takes the environment into account when designing and manufacturing products.
- Uses quality tools and design and qualification methods resulting from the continual improvement processes in the automobile and aeronautical industries.

Do you want to develop an idea, solve a problem?
Schrader is ready to innovate, design, develop to make your project successful.

SCHRADER also offers an international presence to its customers in terms of both logistics and project platforms.

EQUIPMENT FOR TYRE MAINTENANCE
Valves, weights, repair products, vulcanizers, inflation devices, tools and civil engineering products, tyre mounting and balancing machines.
A leader in the accessories sector, SCHRADER owes its success to a worldwide distribution strategy and being very customer focused.
Schrader's Strategy
A very high quality and competitive range.
A culture of innovation, technical support, planning development programs and a high-performance marketing media complete SCHRADER's strategy.

TPMS
World TPMS market leader, SCHRADER is a top flight supplier of automobile manufacturers and has developed a specific range for tyre maintenance specialists including sensors, tooling, consumables and sales support.

EARTHMOVER
A team dedicated to the global market ensuring customer support and distribution of all Schrader equipment necessary for the maintenance of all types of machinery.
Also offering a dedicated range of TPMS systems.

QHSE STRATEGY:

The Schrader Quality, Health, Safety and Environment (QHSE) strategy is based on respect for man and his environment, to meet its customers' expectations.

This improves Schrader's overall performance and aims to achieve zero error, zero quality incidents, zero accidents and to minimise the environmental impacts of our various activities, products and services, from the design phase onwards. SCHRADER adheres to current regulations, guarantees categorical compliance with standard examinations and the compliance of its instruments to the regulatory requirements for manometers, meets customers' requirements and other applicable requirements as well as HSE standards.

To do this, SCHRADER develops and implements a specific action plan with continuous improvement objectives.

Chapter 1

QUALITY AND SAFETY

With its experience supplying automobile manufacturers and tyre manufacturers, Schrader offers in the aftermarket a complete range of tubeless valves compliant with ETRO and ISO standards.

VALVE REPLACEMENT AND MAINTENANCE

Valves are subject to a lot of strain:
- Bending from centrifugal force
- Extreme temperature change due to their close proximity to brake drums or discs
- Poor weather conditions and salty air, road salt, etc.
- Natural ageing of the rubber
- Corrosion of aluminium valves
- Hydrocarbons

Rubber snap-in tubeless valves,
Schrader ORIGINAL,
50 years of experience = quality and safety.

MANUFACTURING AND LABORATORY TESTS

Rubber valves:
- Automatic 100% airtightness controls in production
- Ozone, bending and impact-proof
- Airtightness at temperatures from -40 to +100°C
- Blowout, placement and tear-off tests
- Over-pressure tests carried out at 13 bar for 2 mins.

Metal valves:
- Resistance to mechanical stresses
- Resistance to saline mist

SENSORS

- Schrader, leader in the TPMS market in Original Equipement with a 53% share in the world market
- Manufacturing plant in Northern Ireland
- Research and Development in France and Northern Ireland

CAR VALVES AND PRESSURE SENSORS

TRADITIONAL CAR VALVES

- Rubber tubeless valves (snap-in) 10
  TR412 - TR413 - TR414 - 414L - TR418
- High-pressure rubber tubeless valves (snap-in) 11
  TR600HP - TR801HP
  HP tubeless with nickel-coated brass base
- Rubber tubeless valves for inner tube 12
  TR13 - TR15 and ring
- Rigid plastic extension 12
- Metal tubeless valves in raw brass or in nickel-coated brass. (clamp-in) 13
  1533 - TR430 - TR416S - Especially for campers
- Metal tubeless valves in nickel-coated brass. (clamp-in) 14
  TR416S
- Light alloy tubeless valves (clamp-in) 14

TPMS PRESSURE SENSORS

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RUBBER TUBELESS VALVES

11,5 | COLD MAX 4,5 bar

• Valves mounting tools ref. S-4032-1 or 65027-67: see page 181.
• Check that rim holes are free from burrs and have a smooth, flat rust-free surface.
• NB: rubber valves must be mounted on all rim types (aluminium or steel) having a minimum thickness of 1,8 min. at maxi 3,5 mm.
• Very strong tools. • Over-pressure tests carried out at 13 bar.
• Cold and heat resistance -40° to +100°C.

(C) OE valves assembled complete with core and plastic cap.
(L) Standard AM valves assembled with core and sealing cap.
(A) Standard AM valves delivered paired (core and cap not mounted).

	TR 412 (V2.03.6)	Quantity per box	Packs of 100 per box
(L)	S-4040-2	10	
(L)	S-4040-3	100	
(L)	S-4040-5		10
(L)	S-4040-6		5
(A)	65884-69		10

	TR 413 (V2.03.1)	Quantity per box	Packs of 100 per box
(C)	R-1496-2	10	
(C)	R-1496-3	100	
(L)	S-4636-5		10
(L)	S-4152-6		5
(A)	42999-69		10

	TR 414 (V2.03.2)	Quantity per box	Packs of 100 per box
(C)	R-0756-2	10	
(C)	R-0756-3	100	
(L)	S-4638-5		10
(L)	S-4153-6		5
(A)	65840-69		10

	414 L (V2.03.8)	Quantity per box	Packs of 100 per box
(C)	R-1878-2	10	
(C)	R-1878-3	100	
(L)	S-4640-5		10
(L)	S-4154-6		5
(A)	35167-69		10

	TR 418 (V2.03.4)	Quantity per box	Packs of 100 per box
(C)	R-1799-2	10	
(C)	R-1799-3	100	
(L)	S-4642-5		10
(L)	S-4157-6		5
(A)	65839-69		10

TR 413 Chrome-plated	Quantity per box	Packs of 100 per box
33651-68	10	
33651-69	100	
33651-80		10

TR 414 Chrome-plated		
65788-69	100	
65788-80		10

SCHRADER Pressure to perfection

P/N suffix: -2 = per 10 -3 = per 100 -5 or -69 or -80 per 1000 (10 x 100) -6 per 500 (5 x 100)

HIGH-PRESSURE RUBBER TUBELESS VALVES

Standard AM valves assembled with core and cap.

Valves OE approved

11,5 MAXI COLD 5,5 bar

TR 600 HP (V3.23.1)	Quantity per box
43025-68	10
43025-69	100

16 MAXI COLD 7 bar

TR 801HP	Quantity per box
65664-68	10

- Standard AM valves assembled with core and cap.
- OE approved nickel-coated brass valves .

11,5 MAXI COLD 14 bar

	Quantity per box
65752-68	10
65752-69	100

	Quantity per box
65753-68	10
65753-69	100

	Quantity per box
65754-68	10
65754-69	100

P/N suffix: -68 = per 10 or -69 = per 100

TUBELESS VALVES OR VALVES FOR INNER TUBES AND EXTENSION

(C) OE valves assembled complete with core and plastic cap.
(L) Standard AM valves assembled with core and sealing cap.

11,5

TYPE Scooter	Quantity per box
41558-68	10

16

	TR 415 (V2.03.3)	Quantity per box	Packs of 100
(L)	S-4156-2	10	
(L)	S-4156-3	100	
(L)	S-4156-5		10

16

	TR 425	Quantity per box
(C)	S-4003-2	10

S-4694-2 Rigid plastic extension

Valves for inner tubes

Valves for cold cure with butyl rubber spud sold unbuffed.

S-4008-1	TR 13 (V2.01.1)	11,5
S-4010-1	TR 15 (V2.01.2)	16

R-0990-2	Intermediate ring for valve mounting **TR 13** in a 16-mm rim hole
R-0990-3	

SCHRADER Pressure to perfection

P/N suffix: -1 = per unit -2 or -68 = per 10 -3 = per 100 -5 = per 1000 (10x100)

BRASS TUBELESS VALVES

- High speeds (top-of-the-line vehicles): at high speeds, valves are subjected to stress due to the centrifugal force.
- Metal clamp-in tubeless valves are recommended for intensive use.
- Replace the sealing washer each time you remove the tyre.

8,5 — Nut tightening torque: 3 to 5 N.m.

TR 430 (V1.11.1) For motorcycles	Spare washer
S-4043-2	2 washers 35127-68

9,7 — Nut tightening torque: 12 to 15 N.m.

Nickel-coated	Spare washer
R-1533-2	R-1419-2

11,5 — Nut tightening torque: 3.5 to 4.6 N.m.

TR 416-S	Spare washer
R-2103-2	R-2105-2

For vans and campers

11,5 — Nut tightening torque: 12 to 15 N.m.

PRESSURE >4,5 bar POSSIBLE

(V2.04.1)	Spare washer
R-1510-2	R-1524-2

	Spare washer
R-1914-2	R-1524-2

65765-68	Nickel-coated

P/N suffix: -2 or 68 = per 10

METAL TUBELESS VALVES

In nickel-coated brass

11,5

Nut tightening torque: 3 to 6 N.m.

Also suitable for Michelin alu truck wheels.

TR 416-S (V2.05.1)	Spare washer
S-4042-2	35440-68

TR 416-S (V2.05.1)	Spare washer
S-4042-G	35440-68

TR 416-S	Spare washer
42039-68	35440-68
42039-69	

TR 416-S (V2.05.1)	Spare washer
S-4298-2	35440-68

In light alloy (for light alloy rims)

Nut tightening torque: 10 to 12 N.m.

Nut tightening torque: 7 to 10 N.m.

11,5 MAXI 210 km/h

65252-68	Motorcycle, bent

11,5

(V2.04.1)	Spare washer
R-1446-2	R-1524-2

9,7

	Spare washer
R-1578-2	R-1419-2

8,5

(V1.10.1) Type moto	Spare washer
R-1674-2	R-1709-2

SCHRADER Pressure to perfection

P/N suffix: -2 or -68 or -G = per 10 -69 = per 100

SCHRADER®, TPMS PIONEER

Spread of TPMS

Legislation on TPMS is being drafted worldwide. In order to improve safety, US law already requires a tyre pressure control system on all vehicles since 2007.
In Europe, further motivated by the concern to reduce CO_2 emissions, a law has been passed requiring tyre pressure control.

- *13 July 2009: the European Parliament in Strasbourg officially adopted regulation 661/2009, which fixed requirements for equipping vehicles with TPMS (Tyre Pressure Monitoring System).*
- *Effective date: 1 November 2012.*
- *Vehicles affected: category M1 (passenger cars, 9 seats max, less than 3.5 t).*
- *Any new car approved after 1 November 2012 must be equipped with TPMS.*
- *Any new car registered after 1 November 2014 must be equipped with TPMS.*

The early days of TPMS

In the early 1990s, Schrader developed the first generation of tyre pressure and temperature measuring sensors.
In 1993, Schrader filed the first TPMS patent. Other patents, like the "snap-in" valve one, have followed. In 1999, the Peugeot® 607 was the first mass produced car in Europe to be 100% equipped with TPMS, followed by the Renault® Laguna.

The system's benefits

Through continuous control of the pressure, the system:
- Prevents tyre bursts due to under-inflation.
- Improves passenger safety by reducing the risk of accident.
- Reduces fuel consumption and increases tyre lifetime.
- Prevents slow punctures.

Energy saving = reduction of CO_2 emissions = Financial saving.

Schrader®, leader in TPMS

Schrader's direct TPMS technology is used in over half the automobile production plants in the world.
In 2012, Schrader passed the threshold of 200 million sensors manufactured.
Schrader's latest innovation is the EZ-Sensor™ : first real programmable TPMS to be patented, designed to replace 90% of the TPMS sensors integrated in US, European and Asian cars. "EZ-Sensor™" simplifies the TPMS replacement process on the spares market by considerably reducing stock levels and reducing the maintenance costs of vehicles equipped with TPMS.

EZ-sensor™
Innovation by Schrader®

SCHRADER
Pressure to perfection

DESCRIPTION OF THE VARIOUS SENSORS IN EUROPE

(1)	(2)	(3)	(4)
Schrader SEL Gen2/Gen3	SEL Gen J	Schrader SEL Gen Alpha	Schrader SEL snap-in REV4 and REV5

(5)	(6)	(7)	(8)
VDO TG1B	VDO TG1C	VDO MB	Beru

(9)	(10)
EZ-Sensor™ snap-in	EZ-Sensor™ clamp-in

- **Complete metal tubeless clamp-in valve in aluminium:**
  - SCHRADER, fixed angle with rubber grommet or radial airtight rubber grommet **(1)** and **(2)**.
  - SCHRADER or VDO, variable angle with non-interchangeable valve **(5)**
  - SCHRADER or VDO, variable angle with interchangeable valve **(3)**, **(6)** and **(7)**
  - SCHRADER EZ-Sensor™ **(10)**

- **Complete rubber snap-in tubeless valve:** SCHRADER **(4)** and **(9)**

- **Complete aluminium valve with separate sensor:** BERU, valve available in different lengths. The electronic sensor and the valves must be ordered separately **(8)**

THREE REPROGRAMMING MODES

- **Using a reprogramming tool:** If a sensor is changed and replaced with a new one, a reprogramming tool (or diagnostic tool + TPMS sensor activator) is necessary to complete the learning. French cars (PSA, Renault), Opel Antara, Nissan, Fiat Ulysse, Lancia Phedra...
- **Automatic reprogramming while travelling (WAL:** Wireless Auto Location Technology): this technology automatically identifies and registers the sensor's ID (The car must be driven at 70 km/h for 20 minutes or until the warning lights go out). Opel, Chrysler, Ford, Hyundai, Jaguar, Land Rover, Mazda, Mercedes, Saab, VW, Volvo.
- **Reprogramming via the vehicle's menu:** manual procedure following manufacturer's instructions.

Schrader sensors operate directly by means of a "Direct system".
This is the most reliable and most accurate system on the market.
IMPORTANT : The fact that a vehicle has pressure sensors does not mean that the pressure and condition of the tyres should not be regularly checked.

Note: VDO and BERU: protected trademarks, owned by VDO and BERU. Schrader is a dealer of BERU products and only BERU is owner of the trademark and the instruction sheets.

SUPPORT & TRAINING

SCHRADER TPMS SUPPORT

+33 (0)381 38 57 67

Office hours

Dedicated websites	
www.tpmsmadesimple.com	Information for consumers
www.tpmsmadeeasy.com	Information for professionals
www.SchraderInternational.com	- "TPMS tool support" section, tool update site, professional diagnostics - TPMS catalogue, for the latest update on the sensors available

Schrader opens up the TPMS market for you

As the leading TPMS manufacturer in the industry, Schrader is consolidating its position as world safety technologies leader, instructing and informing legislators, consumers, automobile manufacturers and aftermarket servicing and repair networks.

The continual increase in the number of vehicles equipped with TPMS in the aftermarket has led to increased demand in servicing and repair facilities.

TPMS & EZ-sensor™ training with dedicated mechanical and electronic tools:

Our TRAINING CENTRE has been set up to provide our customers the skills required to use Schrader products.
• Approval no. 43 25 01928 25.

The Schrader range is the most complete on the market:

- Components for the maintenance of all types and makes of sensor,
- OE sensors for replacement,
- Special tools,
- Storage cabinet,
- Diagnostic and testing tools,
- Information in workshop,
- Technical hotline.

"Centre Expert TPMS" Label

Schrader is constantly developing its products and has information on the original equipment.

Our range provides you with the solution to meet most of your requirements.

PRECAUTION:

A pressure sensor in a wheel means that precautions must be taken when dismounting/remounting tyres.
Failure to follow these guidelines could lead to valve damage and therefore to a system failure.

Shop procedure posters on request:
- To identify the different types of electronic valve
- Pressure sensor dismounting/remounting procedures

MAINTENANCE INSTRUCTIONS

All sensors and accessories are listed in the vehicle table on pages 27-38 and are available on our website. (www.SchraderInternational.com).
NB: Each valve or accessory is different according to vehicles and car manufacturers.
The pieces must be adapted to the rim type and the vehicles.
Regular maintenance by a professional is vital to prevent corrosion, premature deterioration of the valves and to guarantee perfect airtightness.

We recommend changing valve accessories on each tyre change, using the appropriate tools

		(1) (2)	
Core 37992-69 in nickel-coated brass only. Apply the recommended tightness torque (0.23 to 0.56 Nm)	Hex nut in anodised aluminium 11 or 12 mm, with or without groove for coloured ring. Apply the recommended tightness torque given in tables	Rubber grommet (1) or radial airtight rubber grommet (2)	
		(1) (2)	
Core screwdriver pre-set to 0.40 N.m. NB, overtightening the core can break the valve (available page 21)	Torque wrench for tightening nuts (available page 20)	Rubber grommet tool (available page 21)	Use cutting pliers to remove a radial grommet
Plastic cap only	Zinc coated seal washer of the valve seal (for VDO sensors).	TORX®10 screw Apply the recommended tightness torque: 1.4 N.m	
4 coloured rings for vehicles with identification of wheel location (Renault). The valves in question are delivered with a ring of each colour not fitted.		TORX®10 screwdriver pre-set to 1.4 N.m (available page 21)	

MAINTENANCE TOOLS

Complete TPMS tool kit

	66691-67	
	Contents:	Spare
(1)	1 torque screwdriver 4 to 8.8 N.m	66692-67
(1b)	1 torque wrench	66698-67
(2)	1 socket 1/4, 11 mm	66693-67
(3)	1 socket 1/4, 12 mm	66694-67
(4)	1 nipple TORX® 20	65981-67
(5)	1 socket adaptor 11 and 12	66695-67
(6)	1 screwdriver TORX® 10 pre-set to 1.4 N.m	66696-67
(7)	1 core screwdriver pre-set to 0.4 N.m.	66697-67
(8)	1 seal removal tool	65784-68

TPMS torque tools

65062-67	65599-67	65600-67	65981-67
Torque tool Specially designed for tightening pressure sensor nuts	**Nipples and socket** For the tightening of the sensors' TORX® 10 and TORX® 20 screws		
Wrench 0 to 10 N.m with marks Contents: 1 torque wrench box 1 socket 1/4, 11 mm 1 socket 1/4, 12 mm 1 socket wrench head for dismounting	Socket for 1/4 nipple for torque tool 65062-67	1/4 nipple for socket 65599-67 for tightening of TORX®10 screws	1/4 nipple for socket 65599-67 for tightening of the TORX®20 screws of the BERU valves

P/N suffix: -67 = per unit -68 = per 10

MAINTENANCE TOOLS (continued)

65785-67	65784-68	66690-67 66690-68
TORX® 10 screwdriver	**Seal removal tool**	**Valve core screwdriver with torque**
Pre-set for the tightening of the sensors' assembly screws. Tightening torque: 1,4 N.m	To remove the rubber grommets	For tightening TPMS sensor cores Pre-set tightening torque: 0.40 N.m

Penetrating oil

65721-67 65721-12
"ACTION 7" Aerosol 400 ml. Cleans and lubricates sensor screws to make dismounting

TPMS cabinet

For storing all sensors, tools and accessories TPMS in a clean, safe place.

(sold empty)

	Description	Dimensions (mm)	Weight empty (kg)
65770-67	TPMS grey metal wall cabinet 3 tablets, key locked	l. 670 x h. 780 x depth 260	27

P/N suffix: -12 = per 12 -67 = per unit -68 = per 10

ACTIV'AIR® TPMS TOOL

- Valve forcer.
- Decodes and displays the sensor's information.
- Enables the vehicle's data to be downloaded and printed.

Place the tool on the tyre to start communication between sensor and tool.

- Make sure that the TPMS sensor is working correctly before and after the tyre is mounted.
- Check the pressure by scanning the valve.
- Choose a quick and easy solution to call the sensor, obtain its ID and its status.
- Register and/or print the report of the operations performed.

65997-67
Kit containing: 1 ActivAir tool with mini SD card 1 USB cable 1 protective case L. 200 x l.120 x th. 45 mm Instruction sheet

Free update the 1st year.

Multi-brand identification of original sensors

- Search by make, model, year.
- Decodes and posts sensor information: sensor ID, pressure, temperature and battery status.
- Indicates the Schrader P/N of the replacement sensor and maintenance accessories kit.
- Audit via USB mode - Easy downloading of sensor information to a PC or a laptop for printing.
- Comes with a storage case including USB cable.
- The update of the software and databases is available on **www.SchraderInternational.com, "TPMS tool supports"** section for registered tools.
  Only an updated tool guarantees conformity with the market's sensors.

P/N suffix: -67 = per unit

EXP'AIR® TPMS TOOL

Reading, activation, decoding and programming of EZ-sensor™ Innovation by Schrader®

Characteristics:

- Selection by make, model, year.
- Enables the defective sensor to be diagnosed on the vehicle's entry.
- Programs or copies the original sensor.
- Registers the new sensors via OBD plug.
- Recovers sensor information on a PC via USB port.
- Updating of the programs and databases is available at **www.SchraderInternational.com, "TPMS tool supports"** section for the registered tools.
  Only an updated tool guarantees conformity with the market's sensors.

Advantages:

- All-in-one tool to guarantee complete maintenance of the TPMS.
- The exact copy of a sensor avoids having to reprogram the vehicle.
- Is used without any computer or Internet connection.
- Patented Schrader EZ-Sensor™ technology.

66032-67	
Case contents: 1 ExpAir tool with mini SD card 1 USB cable 1 OBD 2 cable 1 PSA adaptor 1 rubber protector	Instruction sheet 1 storage case L. 340 x W. 260 x th. of 85 mm Rechargeable battery 1 Cd

Free update the 1st year.

TPMS -PAD TOOL for EZ-sensor™ Innovation by Schrader®

- Programs the EZ-sensor™, the market leader.
- For use in an office or at reception.

66731-67
Case contents: 1 TPMS Pad 1 USB cable 1 start-up instructions 1 CD (program and complete instructions) 1 storage case L. 102 x W. 102 x th. of 2.5 mm

Free update the 1st year.

Characteristics:

- Selection by make, model, year.
- Enables reading and testing of all OE sensors.
- Enables copying or creation of any OE sensor on an EZ-Sensor™.
- Connects onto a PC USB port.
- The update of the software and databases is available at **www.SchraderInternational.com, "TPMS tool supports"** section for registered tools.
  Only an updated tool guarantees conformity with the market's sensors.

Advantages:

- Doesn't require an Internet connection to work.
- No need to enter the VIN number.
- No battery required.
- Used independently of any diagnostic tool.
- The exact copy of a sensor avoids having to reprogram the vehicle.
- Prevents any risk of mounting the wrong spare sensor.

P/N suffix: -67 = per unit

EZ-sensor™
Innovation by Schrader®

For EZ-Sensors fitted on vehicles imported from the US, contact us.

SENSOR PROGRAMMABLE FOR TYRE MONITORING SYSTEM (TPMS)

Developed and manufactured by Schrader®, the TPMS market leader, EZ-Sensor™ is the first real programmable tyre pressure monitoring system (TPMS) to be patented, designed to replace 90% of the TPMS sensors integrated in US, European and Asian cars.

Programmable - Reliable - Easy

Characteristics:

- Schrader® patented technology provides a real programmable solution for the aftermarket, available in 2 high-speed versions: snap-in rubber valve and metal clamp-in valve.
- A single sensor is going to replace over 90% of the OE sensors available on the market.
- EZ-sensor™ guarantees identical performances to those of the OE sensors.
- EZ-sensor™ is blank at start and infinity-programmable for each vehicle.
- Developed and tested to:
  - fit most aluminium and steel rims in OE and AM.
  - for high-speed vehicles.

Advantages:

- Optimises sales opportunities for replacement and the after service.
- Optimises stock levels.
- Reduces the risk of installing the wrong part.
- Guarantees a faster and therefore cheaper TPMS service on equipped vehicles.
- A second set of tyres can be created for the vehicle (winter tyres).
- Works with Schrader® tools.

See mounting conditions page 25.

Programming of the EZ-Sensor™

Use the EXPAIR tool P/N 66032-67 page 23 or tool TPMS-PAD P/N 66731-67 page 23.

EZ-SENSOR™: patented trademark and model, the product of Schrader® technologyie

EZ-sensor™
Innovation by Schrader®

Starter kit

66745-67
EZ-Sensor™ STARTER KIT Contents: 1 TPMS PAD (66731-67) 4 x clamp-in EZ-Sensor™ (66741) 1 CD (program and instructions)

Sensors and Accessories

Circular, special "high-speed*" valve ID ring

66730-67 **66730-20** **66730-69** **66730-72**	Sensor **EZ-sensor™** **(snap-in)**

In applications with TPMS on the valves, the stresses on the rubber increase with the weight of the system, a bending angle of 25° maximum or a valve support is recommended for safety reasons.
In order to guarantee the quality of the valve in use, we have a speed class:
Class 1: speed < 210 Km/h

(*) according to the rim profile (follow the mounting instructions)

66741-67 **66741-20** **66741-69** **66741-72**	Sensor **EZ-sensor™** **(clamp-in)**

For speeds of over 210 Km/h, only clamp-in metal valves or valves approved by the valve and vehicle manufacturers are authorised.

Positioning lug to prevent mounting errors on the sensor

66742-68	66743-68	66744-KD
Box of 10 complete **snap-in** rubber valves with screw	Box of 10 complete **clamp-in** metal valves with screw	Box of 10 accessory kits for **clamp-in** valves

EZ-SENSOR™: patented trademark and model, the product of Schrader® technology

P/N suffix: -67 = per unit -KD = box of 10 kits individually packed in plastic bags -68 = per 10 -20 = per 20
-69 = per 100 -72= per 960

COMPLETE TYRE PRESSURE AND TEMPERATURE CONTROL, DISPLAY AND WARNING SYSTEM

- Prevents tyre bursts due to under-inflation.
- Reduces risk of accident.
- Optimises fuel consumption and increases tyre lifetime.
- Prevents slow punctures.

WIRELESS

65594-67
Kit contents: 1 receiver/display on dashboard 4 sensors for installation on each wheel 1 installation instructions The system comes ready for placement be a professional

- The speed of the sensors with snap-in rubber tubeless valves is limited to 180 km/h.
- Use of them is prohibited on circuits, in competition and beyond this speed. In this specific case, order clamp-in metal valves P/N 66086-67 or 66086-68.
- Maintenance accessories kit: P/N 66087-KD.

	65649-67	66118-68	66086-67 66086-68	66087-KD	65598-68 65598-69
Description	Complete spare sensor	Spare snap-in valve REV4 with TORX® 10 screw	Optional extra spare snap-in alu valve with TORX® 10 screw	Spare accessories kit for 66086	Spare TORX®10 screw
Torque (N.m)		Screw: 1,4	Screw: 1,4 / nut: 7	-	1,4

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ALPHABETICAL LIST

All sensors are delivered complete. BERU® Sensors : Order the correct valve by using the overall length or colour code.

Sensors presented in this catalogue are only available for vehicles sold in Europe (433,92 MHz).

Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
ALFA ROMEO									
Alfa 8C (920)	2007 --> 2009	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	(D)
AUDI									
A4 (8E) / S4 / Avant / Quattro	2004 --> 2007	Beru 0 532 207 007	RDE007	**65739-67**	Beru	--	4	4	D
A4 Cabrio	2004 --> 2008	Beru 0 532 207 007	RDE007	**65739-67**	Beru	--	4	4	D
A6 Allroad (4B)	2000 --> 2005	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
A6 Allroad (4F)	2006 --> 2009	Beru 0 532 207 007	RDE007 to chassis number N° 4F-9-043 000	**65739-67**	Beru	--	4	4	D
A6 Allroad (4F)	2009 -->	Beru 0 532 207 011	RDE011 from chassis number N° 4F-9-043 001	**66080-67**	Beru	--	4	4	D
A6 (4F) / S6 / Avant / Quattro	2004 --> 2009	Beru 0 532 207 007	RDE007 to chassis number N° 4F-9N043 000 4F-9Y000 220	**65739-67**	Beru	--	4	4	D
A6 (4F) / S6 / Avant / Quattro	2009 -->	Beru 0 532 207 011	RDE011 from chassis number N° 4F-9N043 001 4F-9Y000 221	**66080-67**	Beru	--	4	4	D
A8 / S8 (4D), (D2)	1999 --> 2002	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
A8 / S8 (4E), (D3)	2002 -->	Beru 0 532 207 001	RDE007	**65739-67**	Beru	--	4	4	D
R8	2007 -->2009	Beru 0 532 207 007	RDE007 to chassis number N° 42-9-003 540	**65739-67**	Beru	--	4	4	D
R8	2009 -->	Beru 0 532 207 011	RDE011 from chassis number N° 42-9-003 541	**66080-67**	Beru	--	4	4	D
RS6, RS6 plus	2000 -->	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
RS4 (8E) / Cabrio / Avant / Quattro	2006 -->	Beru 0 532 207 007	RDE007	**65739-67**	Beru	--	4	4	D
Q7 (4L)	2005 --> 2009	Beru 0 532 207 007	RDE007 to chassis number N° 4L-9-036 000	**65739-67**	Beru	--	4	4	D
Q7 (4L)	2009 -->	Beru 0 532 207 011	RDE011 from chassis number N° 4L-9-036 001	**66080-67**	Beru	--	4	4	D
Q7 3,0 TFSI (CJWC)	2010 -->	Beru 0 532 207 011	RDE011 from chassis number N°4L-9-036-001	**66080-67**	Beru	--	4	4	D
BENTLEY									
Continental GT (614)	2003 --> 2005	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
Continental GT (614)	2005 -->	Beru 0 532 207 007	RDE007	**65739-67**	Beru	--	4	4	D
Continental Flying Spur (611)	2005 -->	Beru 0 532 207 007	RDE007	**65739-67**	Beru	--	4	4	D

INFO :
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C The position of the vehicle valves is identified by coloured rings
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ALPHABETICAL LIST (CONT'D)

All sensors are delivered complete. BERU® Sensors : Order the correct valve by using the overall length or colour code.

Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
BMW									
All models BMW since 2011	2011 -->	Beru 0 532 207 012	RDE012	**66081-67**	Beru	--	4	4	D
Serie 5 (E39)	1998 --> 2003	Beru 0 532 207 002	RDE002	**65736-67**	Beru	--	4	4	D
Serie 5 (F10) ECE-Limousine: 520d, 523i (N52N, N53), 525d, 528i (N52N, N53), 530d, 535d, 535i, 550i, 550iX	2010 -->	Beru 0 532 207 012	RDE012	**66081-67**	Beru	--	4	4	D
Serie 5 (F11) ECE-Touring: 520d, 523i (N52N, N53), 525d, 528i (N52N, N53), 530d, 535d, 535i	2010 -->	Beru 0 532 207 012	RDE012	**66081-67**	Beru	--	4	4	D
"Serie 5 GT (F07) ECE: 530d, 530dX, 535d, 535dX, 535i, 535iX, 550i, 550iX"	2010 -->	Beru 0 532 207 012	RDE012	**66081-67**	Beru	--	4	4	D
Serie 6	2010 -->	Beru 0 532 207 012	RDE012	**66081-67**	Beru	--	4	4	D
Serie 7 (E38)	1998 --> 2001	Beru 0 532 207 002	RDE002	**65736-67**	Beru	--	4	4	D
Serie 7 (E65)	2001 --> 2006	Beru 0 532 207 002	RDE002	**65736-67**	Beru	--	4	4	D
Serie 7 (F01)-Limousine ECE: 730d, 730i, 740d, 740dX, 740i, 750i, 750iX, 760i	2010 -->	Beru 0 532 207 012	RDE012	**66081-67**	Beru	--	4	4	D
Serie 7 (F02)-Limousine ECE: 730Ld, 730Li, 740Li, 750Li, 750LiX, 760Li	2010 -->	Beru 0 532 207 012	RDE012	**66081-67**	Beru	--	4	4	D
Serie 7 (F04)-Hybrid Limousine ECE: Hybrid 7, 7L	2010 -->	Beru 0 532 207 012	RDE012	**66081-67**	Beru	--	4	4	D
X5 (E53)	1999 --> 2006	Beru 0 532 207 003	RDE003	**65737-67**	Beru	--	4	4	D
CADILLAC									
CTS	2006 --> 2007	SEL 90518110	25774007	**66050-67**	Gen J	66700-KD	8	--	A
CTS	2008 -->	SEL 90518390	20922901	**66074-67**	Snap-in rev4	Body + screw 66118-68	--	1,4	A
SRX	2005 --> 2006	SEL 90518110	25774007	**66050-67**	Gen J	66700-KD	8	--	A
STS	2005 --> 2008	SEL 90518046	25758221	**66116-67**	Gen J	66700-KD	8	--	D
XLR	2004 --> 2009	SEL 90518046	25758221	**66116-67**	Gen J	66700-KD	8	--	D
CHEVROLET									
Camaro	2012 -->	SEL 60518416	20925925	**66543-67**	Gen J	66700-KD	8	--	A
Corvette	2005 --> 2009	SEL 90518046	25758221	**66116-67**	Gen J	66700-KD	8	--	D
Corvette	2010 --> 2012	SEL 60518416	20925925	**66543-67**	Gen J	66700-KD	8	--	A
Trailblazer	2007 --> 2008	SEL 90518110	25774007	**66050-67**	Gen J	66700-KD	8	--	A

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SCHRADER Pressure to perfection

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ALPHABETICAL LIST (CONT'D)

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Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
CHRYSLER									
300 C	2006 -->	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	
300	2009 --> 2010	SEL 90518291	56029400AC-AD	**66113-67**	Gen alpha	66138-KD and body 43148-67	6	--	B
300	2011 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Sebring	2006 -->	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	B
Town & country van	2011 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Voyager	2007 -->	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	B
CITROEN									
Berlingo	2009 -->	SEL 90818333	9683420380	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
C4 & C4 coupe	2004 -->2008	VDO S180014805Z	S120123004	**65396-67**	TG1B	65659-KD	8	--	A
C4	2008 -->	SEL 90818333	9683420380	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
Picasso C4	2006 -->	SEL 90818333	9683420380	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
Picasso C4 restyles	2008 -->	SEL 90818333	9683420380	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
C5	2001 --> 2004	SEL 9634866180	--	**60311-67**	Gen2/Gen3	65656-KD	4,25	--	A
C5 II	2004 --> 2008	VDO S180014805Z	S120123004	**65396-67**	TG1B	65659-KD	8	--	A
C5 III	2008 -->	VDO S180014805Z	S120123004	**65396-67**	TG1B	65659-KD	8	--	A
C6	2005 -->	VDO S180014805Z	S120123004	**65396-67**	TG1B	65659-KD	8	--	A
C8	2002 --> 2005	Schrader	9634866180	**60311-67**	Gen2/Gen3	65656-KD	4,25	--	A
C8	2005 -->	VDO S180014805Z	S120123004	**65396-67**	TG1B	65659-KD	8	--	A
DS4	2010 -->	SEL 90818333	9683420380	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
DS5	2011 -->	SEL 90818333	9683420380	**65597-67**	Snap in REV4	Body + screw 66118-68	--	1,4	A

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ALPHABETICAL LIST (CONT'D)

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Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
DODGE									
Caliber	2007 -->	SEL 90518155 ou SEL 90518434	56029359AA-AB ou 56053031AC ou 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	
Challenger	2008 --> 2009	SEL 90518291	56029400AB-AC-AD	**66113-67**	Gen alpha	66138-KD and body 43148-67	6	--	B
Challenger	2010 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Charger	2009	SEL 90518291	56029400AC	**66113-67**	Gen alpha	66138-KD and body 43148-67	6	--	B
Charger	2010 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Dakota	2009-->	SEL 90518155 ou SEL 90518434	56029359AA-AB ou 56053031AC ou 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	
Durango	2011 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Grand caravan	2011 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Journey	2011 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Nitro	2007 -->	SEL 90518155 ou SEL 90518434	56029359AA-AB ou 56053031AC ou 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	
Ram series Pickup	2010 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
FERRARI									
California (F149)	2009 -->	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
550 Maranello Evoluzione (F133e)	2002 -->	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
575 M-Maranello	2002 --> 2006	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
Enzo (F140)	2003 --> 2004	Beru 0 532 207 005	RDE005	**65738-67**	Beru	--	4	4	D
612 Scaglietti (F137)	2004 -->	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
599 GTB (F141)	2004 -->	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
F430 / F430 spider (F131e)	2005 --> 2007	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
F430 / F430 spider (F131evo)	2007 -->	Beru 0 532 207 007	RDE007	**65739-67**	Beru	--	4	4	D
458 Italia (F142)	2009 -->	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
FXX	2005 --> 2006	Beru 0 532 207 005	RDE005	**65738-67**	Beru	--	4	4	D
FIAT									
Freemont	2011 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Ulysse	2002 --> 2005	SEL 9634866180	--	**60311-67**	Gen2/Gen3	65656-KD	4,25	--	A
Ulysse Nuovo 2F	2005 --> 2010	VDO S180014805Z	S12012004	**65396-67**	TG1B	65659-KD	8	--	A

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ALPHABETICAL LIST (CONT'D)

All sensors are delivered complete.

Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
FORD									
Explorer	2011 -->	SEL 90518346	BB5T-1A180-AA	**66137-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	A
Galaxy	2006 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
Mondeo IV	2007 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
Navigator	2011 -->	SEL 90518346	BB5T-1A180-AA	**66137-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	A
S-Max	2006 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
HYUNDAI									
i20	2008 -->	VDO S180084710Z	S180052012	**66040-67**	TG1C	66071-KU	8	--	B
i30	2007-->	VDO S180014820Z	S180030002	**65767-67**	TG1B	65768-KU	8	--	B
i30 cw	2009 -->	VDO S180014820Z	S180030002	**65767-67**	TG1B	65768-KU	8	--	B
ix20	2010 -->	VDO S180084710Z	S180052012	**66040-67**	TG1C	66071-KU	8	--	B
Veloster	2011 -->	SEL 90518481	52933-2V000	**66128-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
INFINITI									
G37 Sedan	2008 -->	SEL 90518294	40700JY00C	**65938-67**	Gen2/Gen3	65961-KD	8	--	A
G37 Coupe	2008 -->	SEL 90518294	40700JY00C	**65938-67**	Gen2/Gen3	65961-KD	8	--	A
J50 EX37	2008 -->	SEL 90518294	40700JY00C	**65938-67**	Gen2/Gen3	65961-KD	8	--	A
S51 FX37	2008 -->	SEL 90518294	40700JY00C	**65938-67**	Gen2/Gen3	65961-KD	8	--	A
JAGUAR									
XF	2007 -->	VDO S180084770Z	S180052022	**66043-67**	TG1C	66070-KU	8	--	B
XJ (X350)	2005 -->	VDO S180084770Z	S180052022	**66043-67**	TG1C	66070-KU	8	--	B
XK New	2006 -->	VDO S180084770Z	S180052022	**66043-67**	TG1C	66070-KU	8	--	B
X-Type	2007 -->	VDO S180084770Z	S180052022	**66043-67**	TG1C	66070-KU	8	--	B
JEEP									
Commander	2006 --> 2010	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	
Grand Cherokee	2006 --> 2010	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	
Grand Cherokee	2011 -->	SEL 90518358	56029398AA-AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Liberty	2010 -->	SEL 90518434	56029481AA-AB	**65722-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Wrangler	2007 -->2010	SEL 90518155 or SEL 90518434	56029359AA-AB or 56053031AC or 56029481AA-AB	**65722-67**	Gen alpha	66699-KD and body 43148-67	6	--	B
					or Snap-in REV5	Body + screw 66150-68	--	1,4	
Wrangler	2010 -->	SEL 90518358	56029398AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B

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Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
KIA									
Cee'd - Procee'd	2007 --> 2011	VDO S180014820Z	S180030002	**65767-67**	TG1B	65768-KU	8	--	B
Optima 11 Optima hybrid	2011 -->	VDO S180084710Z	S180052012	**66040-67**	TG1C	66071-KU	8	--	B
Sorento	2009 -->	VDO S180084710Z	S180052012	**66040-67**	TG1C	66071-KU	8	--	B
Soul 1.6 CVVT	2008 -->	VDO S180084710Z	S180052012	**66040-67**	TG1C	66071-KU	8	--	B
Venga	2010 -->	VDO S180084710Z	S180052012	**66040-67**	TG1C	66071-KU	8	--	B
LAMBORGHINI									
Murciélago LP640 (US)	2007 -->	Beru 0 532 207 007	RDE007	**65739-67**	Beru	--	4	4	D
Gallardo (US)	2007 -->	Beru 0 532 207 007	RDE007	**65739-67**	Beru	--	4	4	D
LANCIA									
Phedra	2002 --> 2005	SEL 9634866180	--	**60311-67**	Gen2/Gen3	65656-KD	4,25	--	A
Phedra	2005 --> 2010	VDO S180014805Z	S120123004	**65396-67**	TG1B	65659-KD	8	--	A
Thema	2011 -->	SEL 90518358	56029398AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
Voyager	2011 -->	SEL 90518358	56029398AB	**66073-67**	Snap-in REV5	Body + screw 66150-68	--	1,4	B
LAND ROVER									
Discovery	2005 -->	VDO A2C59511308	S180052022/S120123002	**65741-67**	TG1B	65659-KD	8	--	B
Evoque	2011 -->	VDO A2C59511308	S180052022/S120123002	**65741-67**	TG1B	65659-KD	8	--	B
FreeLander	2005 -->	VDO S180084770Z	S180052022/S120123002	**66043-67**	TG1C	66070-KU	8	--	B
Range Rover (L30)	2002 --> 2003	Beru 0 532 207 003	RDE003	**65737-67**	Beru	--	4	4	B
Range Rover	2005 -->	VDO A2C59511308	S180052022/S120123002	**65741-67**	TG1B	65659-KD	8	--	B
Range Rover Vogue	2005 -->	VDO A2C59511308	S180052022/S120123002	**65741-67**	TG1B	65659-KD	8	--	B
LOTUS									
Elise	2008 -->	SEL 90518150 or SEL 90518408	13227143 or 12825085	**65717-67**	Gen2/Gen3	65657-KD	7,5	--	B
Evora	2010 -->	SEL 90518150 or SEL 90518408	13227143 or 12825085	**65717-67**	Gen2/Gen3	65657-KD	7,5	--	B
Exige	2008 -->	SEL 90518150 or SEL 90518408	13227143 or 12825085	**65717-67**	Gen2/Gen3	65657-KD	7,5	--	B
MASERATI									
Coupe (M145)	--> 2009	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
Coupe (M145)	2009 -->	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
Quattroporte (M139)	2004 --> 2009	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
Quattroporte (M139)	2010 -->	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
MAYBACH									
Maybach 57	2002 -->	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
Maybach 62	2002 -->	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
Landaulet	2009 -->	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D

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SCHRADER Pressure to perfection

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ALPHABETICAL LIST (CONT'D)

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Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
MAZDA									
CX7	2009 -->	VDO S180084720Z	S80052018	**66041-67**	TG1C	66072-KU	8	--	B
MX5	2010 -->	VDO S180084720Z	S80052018	**66041-67**	TG1C	66072-KU	8	--	B
3	2009 -->	VDO S180084720Z	S80052018	**66041-67**	TG1C	66072-KU	8	--	B
5	2010 -->	VDO S180084720Z	S80052018	**66041-67**	TG1C	66072-KU	8	--	B
6	2008 -->	VDO S180084720Z	S80052018	**66041-67**	TG1C	66072-KU	8	--	B
MERCEDES									
AMG E-Class (W210 AMG)	1999 --> 2002	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
AMG (W197 and other)	2010 -->	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
C-Class (204)	2008 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
CL-Class (216)	2009 --> 2012	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim et corps 43148-67	6	--	B
CLK (W209)	2007 --> 2009	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
CLK (W207)	2009 -->	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
CLS (C219)	2004 --> 2005	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
CLS (W219)	2005 --> 2009	VDO S180014730Z	S122228002	**65646-67**	MB	65661-KU	6	--	B
CLS (W218)	2009 --> 2016	SEL 90518384	A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
E-Class (W211)	2002 -->2005	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
E-Class (W211)	2005 --> 2009	VDO S180014730Z	S122228002	**65646-67**	MB	65661-KU	6	--	B
E-Class (W212)	2009 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
G-Class (463)	2007 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
GL-Class (X164)	2009 --> 2011	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
GLK-Class (X204)	2008 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B

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ALPHABETICAL LIST (CONT'D)

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Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
MERCEDES (SUITE)									
M-Class (W164)	2005 --> 2009	VDO S180014730Z	S122228002	**65646-67**	MB	65661-KU	6	--	B
M-Class	2009 --> 2016	SEL 90518384	A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
ML-Class (W166)	2011 --> 2016	SEL 90518384	A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
R-Class (W251)	2006 --> 2009	VDO S180014730Z	S122228002	**65646-67**	MB	65661-KU	6	--	B
R-Class	2009 --> 2016	SEL 90518384	A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
S-Class coupe (C215)	1999 --> 2005	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
S-Class (W220)	1999 --> 2005	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
S-Class (W221)	2005 --> 2009	VDO S180014730Z	S122228002	**65646-67**	MB	65661-KU	6	--	B
S-Class (W221)	2009 --> 2012	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
S-Class (W222)	2013 --> 2016	SEL 90518384	A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
SL (W230)	2005 --> 2011	VDO S180014730Z	S122228002	**65646-67**	MB	65661-KU	6	--	B
SL (W231)	2012 --> 2016	SEL 90518384	A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
SL-Roadster (R230)	2001 --> 2005	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
SLK (171/172)	2007 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
SLR (R199)	2004 -->	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
SLS (197)	2010 --> 2016	SEL 90518384	A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
Smart (451)	2007 --> 2014	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
Sprinter NVC 3 (906)	2006 --> 2011	VDO A2C59511309	S122228004	**65740-67**	MB	65958-KU	6	--	B
Sprinter	2011 --> 2016	SEL 90518279 or SEL 90518384	A0025409017 or A0035400217 or A0009054100	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B
Vito NVC 2 (639)	2006 -->	VDO A2C59511309	S122228004	**65740-67**	MB	65958-KU	6	--	B
Viano	2011 -->	VDO A2C59511309	S122228004	**65740-67**	MB	65958-KU	6	--	B
NISSAN									
GTR*	2009 -->	SEL 90518394	40700JY00C	**65938-67**	Gen2/Gen3	65961-KD	8	--	A
PRIMERA	2002 -->	SEL 70503059	40700AV600	**65191-67**	Gen2/Gen3	65657-KD	7,5	--	A

CAUTION: sensor maintenance to be carried out in approved GTR centers only (check with Nissan)

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Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
OPEL / VAUXHALL									
Ampera	2005 -->	SEL 90518407	13348393	**65889-67**	Gen2/Gen3	65657-KD	8	--	B
Antara	2008 -->	SEL 90518185	22853740	**65649-67**	Snap-in REV4	Body + screw 66118-67	--	1,4	B
Astra H	2004 --> 2009	SEL 90518451	13354312	**66157-67**	Gen2/Gen3	65657-KD	6	--	A
Astra J	2005 -->	SEL 90518352 or SEL 90518407	1331134 or 13327259 or 13348393	**65889-67**	Gen2/Gen3	65657-KD	8	--	B
Insigna	2008 -->	SEL 90518352 or SEL 90518407	1331134 or 13327259 or 13348393	**65889-67**	Gen2/Gen3	65657-KD	8	--	B
Signum	2002 --> 2009	SEL 13172567	--	**65335-67**	Gen2/Gen3	65657-KD	7,5	--	B
Vectra	2002 --> 2008	SEL 13172567 or SEL 24437708	--	**65335-67**	Gen2/Gen3	65657-KD	7,5	--	B
Vectra Estate	--> 2009	SEL 13172567	--	**65335-67**	Gen2/Gen3	65657-KD	7,5	--	B
Zafira B	2004 -->	SEL 90518451	13354312	**66157-67**	Gen2/Gen3	65657-KD	6	--	A
Zafira C	2009 -->	SEL 90518352 or SEL 90518407	1331134 or 13327259 or 13348393	**65889-67**	Gen2/Gen3	65657-KD	8	--	B
PEUGEOT									
1007 (KM)	2005 --> 2009	VDO S180014805Z	S120120001	**65396-67**	TG1B	65659-KD	8	--	A
207	2006 -->	VDO S180014805Z	S120120001	**65396-67**	TG1B	65659-KD	8	--	A
307	2003 --> 2007	VDO S180014805Z	S120120001	**65396-67**	TG1B	65659-KD	8	--	A
307 restyled	2007 -->	SEL 90818333	9673860880	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
308	2007 -->	SEL 90818333	9673860880	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
308 SW	2008 -->	SEL 90818333	9673860880	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
3008	2009 -->	SEL 90818333	9673860880	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
407 & 407 SW	2004 --> 2011	VDO S180014805Z	S120120001	**65396-67**	TG1B	65659-KD	8	--	A
407 coupe	2005 -->	VDO S180014805Z	S120120001	**65396-67**	TG1B	65659-KD	8	--	A
508	2011 -->	VDO S180014805Z	S120120001	**65396-67**	TG1B	65659-KD	8	--	A
5008	2009 -->	SEL 90818333	9673860880	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
607	2000 --> 2004	SEL 9634866180	--	**60311-67**	Gen2/Gen3	65656-KD	4,25	--	A
607 II	2004 --> 2010	VDO S180014805Z	S120120001	**65396-67**	TG1B	65659-KD	8	--	A
807	2002 --> 2005	SEL 9634866180	--	**60311-67**	Gen2/Gen3	65656-KD	4,25	--	A
807	2005 -->	VDO S180014805Z	S120120001	**65396-67**	TG1B	65659-KD	8	--	A
RCZ	2010 -->	SEL 90818333	9673860880	**65597-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A

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PORSCHE									
911 (997-1 Carrera)	2005 --> 2008	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
911 (997-2 Carrera)	2009 --> 2011	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
911 (997T - Turbo)	2007 --> 2009	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
911 (997T2 - Turbo)	2010 -->	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
991	2012 -->	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
997 (GT3)	2007 --> 2009	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
997 (GT3-2)	2010 -->	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
Boxster (987)	2005 --> 2008	Beru 0 532 207 001	RDE001 Chassis Nr WP0 ZZZ 98 Z 5 5 WP0 ZZZ 98 Z 6 5 WP0 ZZZ 98 Z 7 5 WP0 ZZZ 98 Z 8 5	**65735-67**	Beru	--	4	4	D
Boxster (987-2)	2008 -->	Beru 0 532 207 010	RDE010 Chassis Nr WP0 ZZZ 99 S 9 S	**66079-67**	Beru	--	4	4	D
Carrera GT	2003 -->2006	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
Cayenne (955 - 9PA)	2002 -->2006	Beru 0 532 207 005	RDE005 Chassis Nr WP0 ZZZ 9 PA 3 L WP0 ZZZ 9 PA 4 L WP0 ZZZ 9 PA 5 L WP0 ZZZ 9 PA 6 L	**65738-67**	Beru	--	4	4	D
Cayenne (955 - 9PA1)	2007 -->	Beru 0 532 207 007	RDE007 Chassis Nr WP0 ZZZ 9 PA 7 L WP0 ZZZ 9 PA 8 L WP1 ZZZ 9 PA 7 L WP1 ZZZ 9 PA 8 L	**65739-67**	Beru	--	4	4	D
Cayenne (955 - 92A)	2009 -->	Beru 0 532 207 011	RDE011 Chassis Nr WP0 ZZZ 9 PA A L A = year 2010 B = year 2011	**66080-67**	Beru	--	4	4	D
Cayman (987C)	2005 --> 2008	Beru 0 532 207 001	RDE001 Chassis Nr WP0 ZZZ 98 Z 6	**65735-67**	Beru	--	4	4	D
Cayman (987C2)	2009 -->	Beru 0 532 207 010	RDE010 Chassis Nr WP0 ZZZ 98 Z 9	**66079-67**	Beru	--	4	4	D
Panamera (970)	2009 -->	Beru 0 532 207 010	RDE010	**66079-67**	Beru	--	4	4	D
RENAULT									
Clio III	2005 -->	SEL 8200253215	--	**65336-67**	Gen2/Gen3	65655-KD	7,5	--	A
Espace IV	2002 -->	SEL 8200023746 (alu) SEL 8200169160 (steel)	--	**60234-67** alu rim **42323-67** steel rim	Gen2/Gen3	65654-KD alu rim 65655-KD steel rim	alu 4,25/ steel 7,5	--	A
Koleos	2008 -->	SEL 90518394	40700JY00C	**65938-67**	Gen2/Gen3	65961-KD	8	--	A
Laguna II	2002 --> 2005	SEL 8200023746 (alu) SEL 8200169160 (steel)	--	**60234-67** alu rim **42323-67** steel rim	Gen2/Gen3	65654-KD alu rim 65655-KD steel rim	alu 4,25/ steel 7,5	--	A
Laguna II restyled	2005 --> 2007	SEL 8200023746 (alu) SEL 8200169160 (steel)	--	**60234-67** jantes alu **42323-67** steel rim	Gen2/Gen3	65654-KD alu rim 65655-KD steel rim	alu 4,25/ steel 7,5	--	A
Laguna III	2007 -->	VDO S180084700Z	S180052004	**65939-67**	TG1C	65963-KU Body 43171-68	8	--	B
Latitude	2011 -->	VDO S180084700Z	S180052004	**65939-67**	TG1C	65963-KU Body 43171-68	8	--	B

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RENAULT (SUITE)									
Megane 1	2001 --> 2002	SEL 8200023746 (alu) SEL 8200169160 (steel)	--	**60234-67** alu rim **42323-67** steel rim	Gen2/Gen3	65654-KD alu rim 65655-KD steel rim	alu 4,25/ steel 7,5	--	A
Megane II	2002 --> 2008	VDO S180014810Z	S120123006	**65397-67**	TG1B	65658-KD	8,5	--	A + C
Megane III	2008 -->	VDO S180084700Z	S180052004	**65939-67**	TG1C	65963-KU body 43171-68	8	--	B
Modus	2005 -->	SEL8200253215	--	**65336-67**	Gen2/Gen3	65655-KD	7,5	--	A
Scénic 1	2001 --> 2003	SEL 8200023746 (alu) SEL 8200169160 (steel)	--	**60234-67** alu rim **42323-67** steel rim	Gen2/Gen3	65654-KD alu rim 65655-KD steel rim	alu 4,25/ steel 7,5	--	A
Scénic RX4	2001 --> 2003	SEL 8200023746 (alu) SEL 8200169160 (steel)	--	**60234-67** alu rim **42323-67** steel rim	Gen2/Gen3	65654-KD alu rim 65655-KD steel rim	alu 4,25/ steel 7,5	--	A
Scénic II	2003 --> 2008	VDO S180014810Z	S120123006	**65397-67**	TG1B	65658-KD	8,5	--	A + C
Scénic II restyled	2006 --> 2008	VDO (*)	S120123006A	**65397-67**	TG1B	65658-KD	8,5	--	A + C
Scénic III	2009 -->	VDO S180084700Z	S180052004	**65939-67**	TG1C	65963-KU body 43171-68	8	--	B
Vel Satis	2002 -->	SEL 8200023746 (alu) SEL 8200169160 (steel)	--	**60234-67** alu rim **42323-67** steel rim	Gen2/Gen3	65654-KD alu rim 65655-KD steel rim	alu 4,25/ steel 7,5	--	A

(*)/8200023746 black/ 8200169160 blue / 8200086582 grey / 8200293117 green

SAAB									
9.3	2002 --> 2005	SEL 24437708 or SEL 13172567	--	**65335-67**	Gen2/Gen3	65657-KD	7,5	--	B
9.3	2002 --> 2008	SEL 24437708 or SEL 13172567	--	**65335-67**	Gen2/Gen3	65657-KD	7,5	--	B
9.3	2007 -->	SEL 90518150 or SEL 90518408	13227143 or 12825085	**65717-67**	Gen2/Gen3	65657-KD	7,5	--	B
9.4X	2011 -->	SEL 90518390	20922901	**66074-67**	Snap-in REV4	Body + screw 66118-68	--	1,4	A
9.5	2002 -->2008	SEL 24437708 or SEL 13172567	--	**65335-67**	Gen2/Gen3	65657-KD	7,5	--	B
9.5	2007 -->	SEL 90518150 or SEL 90518408	13227143 or 12825085	**65717-67**	Gen2/Gen3	65657-KD	7,5	--	B
9.7X	2007 --> 2008	SEL 90518110	25774007	**66050-67**	Gen J	--	8	--	A
SMART									
Fortwo	2007 -->	SEL 90518384	--	**65971-67** alu rim **65970-67** steel rim	Gen alpha	65962-KD alu rim 65964-KD steel rim and body 43148-67	6	--	B

INFO :
A Diagnostic tool must be used to reprogram the vehicle with the ID code of the sensors
B Automatic reprogramming of the sensor ID code (use diagnostic tool if OBD connexion is available)
C The position of the vehicle valves is identified by coloured rings
D For sensor ID code reprogramming, refer to the vehicle users manual

P/N suffix: -1 or -67 or -KU= per unit -KD = box of 10 kits individually packed in plastic bags
-2 or -68 = per 10 -3 or -69 = per 100

ALPHABETICAL LIST (CONT'D)

All sensors are delivered complete. BERU® Sensors : Order the correct valve by using the overall length or colour code.

Vehicles	Vehicle production date	Manufacturer	N° on sensor	Complete AM sensor P/N	Sensor type	AM accessories	Nut torque (N.m)	Screw torque (N.m)	Reprogram.
VOLKSWAGEN									
CC (MY 2011)	2012 -->	Beru 0 532 207 013	RDE013	**66094-67**	Beru		4	4	D
New Beetle	2006 --> 2010	VDO S180014701Z	S122215002	**65644-67**	TG1B	65660-KD	8	--	B
Passat	2005 --> 2010	VDO S180014701Z	S122215002	**65644-67**	TG1B	65660-KD	8	--	B
Passat Syncro	2005 --> 2010	VDO S180014701Z	S122215002	**65644-67**	TG1B	65660-KD	8	--	B
Passat	2010 -->	Beru 0 532 207 013	RDE013	**66094-67**	Beru	--	4	4	D
Passat cc	2008 -->	Beru 0 532 207 013	RDE013	**66094-67**	Beru	--	4	4	D
Phaeton	2002 --> 2007	Beru 0 532 207 001	RDE001	**65735-67**	Beru	--	4	4	D
Phaeton (3D)	2007 --> 2010	Beru 0 532 207 007	RDE007 Chassis Nr 3D-8-000 001 --> 3D-9-100 001 3D-A-000 001 --> 3D-A-100 001	**65739-67**	Beru	--	4	4	D
Phaeton (2011)	2010 -->	Beru 0 532 207 011	RDE011 Chassis Nr 3D-B-000 001 --> 3D-B-100 000	**66080-67**	Beru	--	4	4	D
Tiguan (5N)	2009 -->	Beru 0 532 207 013	RDE013	**66094-67**	Beru	--	4	4	D
Touareg (7L)	2002 --> 2006	Beru 0 532 207 005	RDE005 Chassis Nr 7L-7-06 06 22	**65738-67**	Beru	--	4	4	D
Touareg	2007 -->	Beru 0 532 207 007	RDE007 Chassis Nr 7L-7-06 06 23	**65739-67**	Beru	--	4	4	D
Touareg 2011	2011 -->	Beru 0 532 207 011	RDE011 Chassis Nr 7P-B-000001 --> 7P-B-070 001	**66080-67**	Beru	--	4	4	D
VOLVO									
C30	2007 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
C70	2006 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
S40	2004 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
S60	2010 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
S80	2006 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
V50	2004 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
V60	2010 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
V70	2006 --> 2007	SEL 90518149	30748354	**65716-67**	Gen2/Gen3	65657-KD	7,5	--	B
V70	2007 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
XC60	2008 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
XC70	2006 --> 2007	SEL 90518149	30748354	**65716-67**	Gen2/Gen3	65657-KD	7,5	--	B
XC70	2007 -->	VDO S180084730Z	S180052020	**66042-67**	TG1C	66070-KU	8	--	B
XC90	2006 -->	SEL 90518149	30748354	**65716-67**	Gen2/Gen3	65657-KD	7,5	--	B

INFO :
A Diagnostic tool must be used to reprogram the vehicle with the ID code of the sensors
B Automatic reprogramming of the sensor ID code (use diagnostic tool if OBD connexion is available)
C The position of the vehicle valves is identified by coloured rings
D For sensor ID code reprogramming, refer to the vehicle users manual

SCHRADER Pressure to perfection

P/N suffix: -1 or -67 or -KU= per unit -KD = box of 10 kits individually packed in plastic bags
-2 or -68 = per 10 -3 or -69 = per 100

PRESSURE SENSORS

NUMERICAL LIST

All sensors are delivered complete.

EZ-sensor
Innovation by Schrader

The list of vehicles covered by the EZ-Sensor is updated regularly, contact - us for more information.

Complete AM sensor P/N	Vehicle production date
Vehicles	
42323-67 steel rim	
RENAULT Espace IV	2002 -->
RENAULT Laguna II	2002 --> 2005
RENAULT Laguna II restyles	2005 --> 2007
RENAULT Megane 1	2001 --> 2002
RENAULT Scénic 1	2001 --> 2003
RENAULT Scénic RX4	2001 --> 2003
RENAULT Vel Satis	2002 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	
60234-67 alu rim	
RENAULT Espace IV	2002 -->
RENAULT Laguna II	2002 --> 2005
RENAULT Laguna II restyles	2005 --> 2007
RENAULT Megane 1	2001 --> 2002
RENAULT Scénic 1	2001 --> 2003
RENAULT Scénic RX4	2001 --> 2003
RENAULT Vel Satis	2002 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	
60311-67	
CITROEN C5	2001 --> 2004
CITROEN C8	2002 --> 2005
FIAT Ulysse	2002 --> 2005
LANCIA Phedra	2002 --> 2005
PEUGEOT 607	2000 --> 2004
PEUGEOT 807	2002 --> 2005

Complete AM sensor P/N	Vehicle production date
Vehicles	
65129-67	
SAAB - 9.3	2002 --> 2005

Complete AM sensor P/N	Vehicle production date
Vehicles	
65191-67	
NISSAN Primera	2002 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	
65335-67	
OPEL Signum	2002 --> 2009
OPEL Vectra	2002 --> 2008
OPEL Vectra Estate	-->2009
OPEL Zafira	2004 --> 2009
SAAB 9.3	2002 --> 2008
SAAB 9.5	2002 --> 2008

Complete AM sensor P/N	Vehicle production date
Vehicles	
65336-67	
RENAULT Clio III	2005 -->
RENAULT Modus	2005 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	
65396-67	
CITROEN C4 & C4 coupe	2004 --> 2008
CITROEN C5 II	2004 --> 2008
CITROEN New C5 III	2008 -->
CITROEN C6	2005 -->
CITROEN C8	2005 -->
FIAT Ulysse Nuovo 2F	2005 --> 2010
LANCIA Phedra	2005 --> 2010
PEUGEOT 207	2006 -->
PEUGEOT 307	2003 -->2007
PEUGEOT 307 restyles	--> 2006 or 2007 (VDO or Snap-in Schrader)
PEUGEOT 407 & 407 SW	2004 --> 2011
PEUGEOT 407 coupe	2005 -->
PEUGEOT 508	2011 -->
PEUGEOT 607 II	2004 --> 2010
PEUGEOT 807	2005 -->
PEUGEOT 1007 (KM)	2005 --> 2009

Complete AM sensor P/N	Vehicle production date
Vehicles	
65397-67	
RENAULT Megane II	2002 -->
RENAULT Scénic II	2003 -->
RENAULT Scénic restyles	2006 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	
65597-67	
CITROEN Berlingo	2009 -->
CITROEN C4	2008 -->
CITROEN Picasso C4	2006 -->
CITROEN Picasso C4 restyles	2008 -->
CITROEN DS4	2010 -->
CITROEN DS5	2011 -->
PEUGEOT 307 restyles	2007 -->
PEUGEOT 308	2007 -->
PEUGEOT 308 SW	2008 -->
PEUGEOT 3008	2009 -->
PEUGEOT 5008	2009 -->
PEUGEOT RCZ	2010 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	
65644-67	
VW Passat	2005 --> 2010
VW Passat Syncro	2005 --> 2010
VW New Beetle	2006 --> 2010

Complete AM sensor P/N	Vehicle production date
Vehicles	
65646-67	
MERCEDES CLS (W219)	2005 --> 2009
MERCEDES E-Class (W211)	2005 --> 2009
MERCEDES M-Class (W164)	2005 --> 2009
MERCEDES R-Class (W251)	2006 --> 2009
MERCEDES S-Class (W221)	2005 --> 2009
MERCEDES SL (W230)	2005 --> 2011

Note : VDO and BERU are protected marks, only property of VDO and BERU. Schrader is distributor of BERU products. BERU mark and instruction leaflets are property of BERU.

P/N suffix: -67 = per unit

NUMERICAL LIST (CONT'D)

All sensors are delivered complete. BERU® Sensors : Order the correct valve by using the overall length or colour code.

Complete AM sensor P/N	Vehicle production date
Vehicles	

65649-67	
OPEL Antara	2008 -->

65716-67	
VOLVO S60	2006 -->
VOLVO V70	2006 -->
VOLVO XC70	2006--> 2007
VOLVO XC90	2006 -->

65717-67	
SAAB 9.3 et 9.5	2007 -->
LOTUS - Elise	2008 -->
LOTUS - Evora	2010 -->
LOTUS - Exige	2008 -->

65722-67	
CHRYSLER Jeep Commander	2006 -->
CHRYSLER Grand Cherokee Jeep	2006 -->
CHRYSLER 300 C	2006 -->
CHRYSLER Sebring	2006 -->
CHRYSLER Voyager	2007 -->
CHRYSLER Wrangler	2007 --> 2010
DODGE Caliber	2007 -->
DODGE Nitro	2007 -->
DODGE Dakota	2009 -->
JEEP - Commander	2006 -->
JEEP - Grand Cherokee	2006 --> 2010
JEEP - Liberty	2010-->

65735-67	
ALFA ROMEO 8C (920)	2007 --> 2009
AUDI A6 Allroad (4B)	2000 --> 2005
AUDI A8, S8 (4D) (D2)	1999 --> 2002
AUDI A8/S8 (4E) (D3)	2002 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	

65735-67 (suite)	
ALFA ROMEO 8C (920)	2007 --> 2009
AUDI A6 Allroad (4B)	2000 --> 2005
AUDI A8, S8 (4D) (D2)	1999 --> 2002
AUDI A8/S8 (4E) (D3)	2002 -->
AUDI RS6, RS6 plus	2000 -->
BENTLEY Continental GT (614)	2003 --> 2005
FERRARI 550 Maranello Evoluzione (F133e)	2002 -->
FERRARI 575 M-Maranello	2002 --> 2006
FERRARI 612 Scaglietti (F137)	2004 -->
FERRARI 599 GTB (F141)	2004 -->
FERRARI F430 / F430 spider (F131e)	2005 --> 2007
FERRARI F430 / F430 spider (F131evo)	2007 -->
MASERATI coupe (M145)	--> 2009
MASERATI quattroporte (M139)	2004 --> 2009
MAYBACH Landolet	2009 -->
MAYBACH 57	2002 -->
MAYBACH 62	2002 -->
MERCEDES AMG E-Class (W210 AMG)	1999 --> 2002
MERCEDES CLS (C219)	2004 --> 2005
MERCEDES E-Class (W211)	2002 -->2005
MERCEDES E-Class (W211)	2005 --> 2009
MERCEDES S-Class coupe (W215)	1999 --> 2005
MERCEDES S-Class (W220)	1999 --> 2005
MERCEDES SL-Roadster (R230)	2001 --> 2005
MERCEDES SLR (R199)	2004 -->
PORSCHE 911 (997-1 Carrera)	2005 --> 2008
PORSCHE 911 (987T Turbo)	2007 --> 2009
PORSCHE 997 (GT3)	2007 --> 2009
PORSCHE Boxter (987)	2005 --> 2008
PORSCHE Carrera GT	2003 -->2006
PORSCHE Cayman (987C)	2005 --> 2008
VW Phaeton	2002 --> 2007

65736-67	
BMW serie 3 (E46)	1999 --> 2004
BMW serie 5 (E39)	1998 --> 2003
BMW serie 7 (E38)	1998 --> 2001
BMW serie 7 (E65)	2001 --> 2006

Complete AM sensor P/N	Vehicle production date
Vehicles	

65737-67	
BMW X5 (E53)	1999 -->2006
LAND ROVER Range Rover	2006 -->
LAND ROVER Range Rover (L30)	2002 --> 2003

65738-67	
FERRARI Enzo (F140)	2003 --> 2004
FERRARI FXX	2005 --> 2006
PORSCHE Cayenne (955-9PA)	2002 -->2006
VW Touareg (7L)	2002 --> 2006

65739-67	
AUDI A4 (8E) / S4 / Avant / Quattro	2004 --> 2007
AUDI A4 Cabrio	2004 --> 2008
AUDI A6 Allroad (4F)	2006 --> 2009
AUDI A6 (4F) / S6 / Avant / Quattro	2004 --> 2009
AUDI Q7 (4L)	2005 --> 2009
AUDI R8	2007--> 2009
AUDI RS4 (8E) / Cabrio / Avant / Quattro	2006 -->
BENTLEY Continental Flying Spur (611)	2005 -->
BENTLEY Continental GT (614)	2005 -->
LAMBORGHINI murciélago LP640 (US)	2007 -->
LAMBORGHINI Gallardo (US)	2007 -->
PORSCHE Cayenne (955 - 9PA1)	2007 -->
VW Phaeton (3D)	2007 --> 2010
VW Touareg	2007 -->

65740-67	
MERCEDES Viano	2011 -->
MERCEDES Vito NVC 2 (639)	2006 -->
MERCEDES Sprinter NVC 3 (906)	2006 --> 2011
MERCEDES Viano	2011-->
MERCEDES Vito NVC 2 (639)	2006 -->

Note : VDO and BERU are protected marks, only property of VDO and BERU. Schrader is distributor of BERU products. BERU mark and instruction leaflets are property of BERU.

P/N suffix: -67 = per unit

NUMERICAL LIST (CONT'D)

All sensors are delivered complete.

Complete AM sensor P/N	Vehicle production date
Vehicles	

65741-67	
LAND ROVER discovery	2005 -->
LAND ROVER Evoque	2011 -->
LAND ROVER free lander	2005 -->
LAND ROVER range rover	2005 -->
LAND ROVER range rover vogue	2005 -->

65767-67	
HYUNDAI i30	2007 -->
HYUNDAI i30 SW	2009 -->
KIA Cee'd - Pro cee'd	2007 --> 2011

65889-67	
OPEL Astra J	2005 -->
OPEL Ampera	2005 -->
OPEL Insigna	2008 -->
OPEL zafira C	2009 -->

65938-67	
NISSAN GTR	2009 -->
INFINITI G37 Sedan	2008 -->
INFINITI G37 coupe	2008 -->
INFINITI J50 EX37	2008 -->
INFINITI S51 FX37	2008 -->
RENAULT Koleos	2008 -->
VW Phaeton (2011)	2010 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	

65939-67	
RENAULT Laguna III	2007 -->
RENAULT Latitude	2011 -->
RENAULT Megane III	2008 -->
RENAULT Scénic III	2009 -->

65970-67 steel rim	
MERCEDES AMG (W197 and other)	2010 -->
MERCEDES C-Class (204)	2008 -->
MERCEDES CL-Class (216)	2009 -->
MERCEDES CLK (W207)	2009 -->
MERCEDES CLK (W209)	2007 --> 2009
MERCEDES CLS (W218)	2009 -->
MERCEDES E-Class (W212)	2009 -->
MERCEDES G-Class (463)	2007 -->
MERCEDES GL-Class (X164)	2007 -->
MERCEDES GLK-Class (X204)	2007 -->
MERCEDES M-Class	2009 -->
MERCEDES ML-Class (W166)	2011 -->
MERCEDES R-Class	2009 -->
MERCEDES S-Class (W221)	2009 -->
MERCEDES SL (W231)	2012 -->
MERCEDES SLK (171/172)	2007 -->
MERCEDES SLS (197)	2010 -->
MERCEDES Sprinter	2011 -->
SMART Fortwo	2007 -->

65971-67 jantes alu	
MERCEDES AMG (W197 and other)	2010 -->
MERCEDES C-Class	2008 -->
MERCEDES CL-Class (216)	2009 -->
MERCEDES CLK (W207)	2009 -->
MERCEDES CLK (W209)	2007 --> 2009
MERCEDES CLS (W218)	2009 -->
MERCEDES E-Class (W212)	2009 -->
MERCEDES G-Class (463)	2007 -->
MERCEDES GL-Class (X164)	2007 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	

65971-67 jantes alu (suite)	
MERCEDES GLK-Class (X204)	2007 -->
MERCEDES M-Class	2009 -->
MERCEDES ML-Class (W166)	2011 -->
MERCEDES R-Class	2009 -->
MERCEDES S-Class (W221)	2009 -->
MERCEDES SL (W231)	2012 -->
MERCEDES SLK	2007 -->
MERCEDES SLS (197)	2010 -->
MERCEDES Sprinter	2011 -->
SMART	2007 -->

66040-67	
KIA Sorento	2009 -->
KIA Optima 11 - Optima Hybryd	2011 -->
KIA Soul 1.6 CVVT	2008 -->
KIA Venga	2010 -->
HYUNDAI i20	2008 -->
HYUNDAI ix20	2010 -->

66041-67	
MAZDA - CX7	2009 -->
MAZDA - MX5	2010 -->
MAZDA - 3	2009 -->
MAZDA - 5	2010 -->
MAZDA - 6	2008 -->

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P/N suffix: -67 = per unit

NUMERICAL LIST (CONT'D)

All sensors are delivered complete. BERU® Sensors : Order the correct valve by using the overall length or colour code.

Complete AM sensor P/N	Vehicle production date
Vehicles	

66042-67	
FORD Galaxy	2006 -->
FORD Mondeo IV	2007 -->
FORD S-Max	2006 -->
VOLVO C30	2007 -->
VOLVO C70	2006 -->
VOLVO S40	2004 -->
VOLVO S60	2010 -->
VOLVO S80	2006 -->
VOLVO V50	2004 -->
VOLVO V60	2010 -->
VOLVO V70	2007 -->
VOLVO XC60	2008 -->
VOLVO XC70	2007 -->

66043-67	
JAGUAR X350 Limousine	2006 -->
JAGUAR X-Type	2007 -->
JAGUAR XK New	2006 -->
JAGUAR XF	2007 -->
JAGUAR XJ (X350)	2005 -->
LAND ROVER FreeLander	2005 -->

66050-67	
CADILLAC CTS	2006 --> 2007
CADILLAC SRX	2005 --> 2006
CHEVROLET trailblazer	2007 --> 2008
SAAB 9.7X	2007 --> 2008

Complete AM sensor P/N	Vehicle production date
Vehicles	

66073-67	
CHRYSLER - 300	2011 -- >
CHRYSLER - Town & Country Van	2011 -- >
DODGE - Challenger	2010 -->
DODGE - Charger	2010 -->
DODGE - Durango	2011 -->
DODGE - Grand caravan	2011 -->
DODGE - Journey	2011 -->
DODGE - Ram series Pickup	2010 -->
FIAT - Freemont	2011 -->
JEEP - Grand Cherokee	2011 -->
LANCIA Thema	2011 -->
LANCIA Voyager	2011 -->

66074-67	
SAAB 9.4X	2011 -->
CADILLAC CTS	2008 -->

66079-67	
FERRARI California (F149)	2009 -->
FERRARI 458 Italia (F142)	2009 -->
MASERATI coupe (M145)	2009 -->
MASERATI quattroporte (M139)	2010 -->
PORSCHE 911 (997-2 Carrera)	2009 --> 2011
PORSCHE 911 (997T2 Turbo)	2010 -->
PORSCHE 991	2012 -->
PORSCHE 997 (GT3-2)	2010 -->
PORSCHE Panamera (970)	2009 -->
PORSCHE Cayman (987C-2)	2009 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	

66080-67	
AUDI Q7 3,0 TFSI (CJWC)	2010 -->
PORSCHE Cayenne (955 - 92A)	2009 -->
VW Phaeton (2011)	2010 -->
VW Touareg (2011)	2011 -->

66081-67	
All models BMW since 2011	2011 -->
BMW Serie 3 (E91)	2009 -->
BMW serie 3 coupe (E92)	2009 -->
BMW Serie 3 M3 (E90)	2009 -->
BMW Serie 3 M3 cabriolet (E93)	2009 -->
BMW serie 5 (F10) ECE - Limousine : 520d, 523i (N52N, N53), 525d, 528i (N52N, N53), 530d, 535d, 535i, 550i, 550iX	2010 -->
BMW serie 5 (F11) ECE-Touring: 520d, 523i (N52N, N53), 525d, 528i (N52N, N53), 530d, 535d, 535i	2010 -->
BMW serie 5 GT (F07) ECE: 530d, 530dX, 535d, 535dX, 535i, 535iX, 550i, 550iX	2010 -->
BMW serie 7 (F01)-Limousine ECE:730d, 730i, 740d, 740dX, 740i, 750i, 750iX, 760i	2010 -->
BMW serie 7 (F02)-Limousine ECE:730Ld, 730Li, 740Li, 750Li, 750LiX, 760Li	2010 -->
BMW serie 7 (F04)-Hybrid Limousine ECE:Hybrid 7, 7L	2010 -->

66094-67	
VOLKSWAGEN - CC (MY 2011)	2012 -->
VOLKSWAGEN - Passat	2010 -->
VOLKSWAGEN - Passat cc	2008 -->
VOLKSWAGEN - Tiguan (5N)	2012 -->

66113-67	
CHRYSLER - 300	2009--> 2010
DODGE - Challenger	2008 --> 2009
DODGE - Charger	2009

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P/N suffix: -67 = per unit

NUMERICAL LIST (CONT'D)

All sensors are delivered complete.

Complete AM sensor P/N	Vehicle production date
Vehicles	

66116-67	
CADILLAC - STS	2005 --> 2008
CADILLAC - XLR	2004 --> 2009
CORVETTE	2005 --> 2009

66128-67	
HYUNDAI - Veloster	2011 -->

66137-67	
FORD - Explorer	2011 -->
FORD - Navigator	2011 -->

Complete AM sensor P/N	Vehicle production date
Vehicles	

66157-67	
OPEL - Astra H	2004 --> 2009
OPEL - Zafira	2004 - 2009

66543-67	
CHEVROLET Camaro	2012 -->
CHEVROLET Corvette	2010 --> 2012

Complete AM sensor P/N	Vehicle production date
Vehicles	

66730-67 66730-20 66730-69 66730-72	
EZ-Sensor™ Europe mounted on a snap-in valve	List of possible applications: please contact us

66741-67 66741-20 66741-69 66741-72	
EZ-Sensor™ Europe mounted on a clamp-in valve	List of possible applications: please contact us

Note : VDO and BERU are protected marks, only property of VDO and BERU. Schrader is distributor of BERU products. BERU mark and instruction leaflets are property of BERU.

P/N suffix: -67 = per unit -20 = per 20 -69 = per 100 -72 = per 960

PRESSURE SENSORS ACCESSORIES

EZ-sensor™
Innovation by Schrader®

The list of vehicles covered by the EZ-Sensor is updated regularly, contact - us for more information.

NUMERICAL LIST

AM spare part accessories
Concerned sensor

43148-67
For sensor 65722-67
For sensor 65970-67
For sensor 65971-67
Naked body sold without core and cap

43148-67
For sensor 65939-67
For sensor 66040-67
For sensor 66042-67
Valve body with mounted core and cap

43211-68
For sensor 66041-67
For sensor 66043-67
Valve body with mounted core and cap

65598-68 et 65598-69
Torx® 10 screw for snap-in valve type REV4/REV5
Torque : 1,4 N.m

65654-KD
For sensor 60234-67

65655-KD
For sensor 42323-67
For sensor 65336-67

AM spare part accessories
Concerned sensor

65656-KD
For sensor 60311-67

65657-KD
For sensor 65129-67
For sensor 65191-67
For sensor 65335-67
For sensor 65716-67
For sensor 65717-67
For sensor 65889-67
For sensor 66157-67

65658-KD
For sensor 65397-67

65659-KD
For sensor 65396-67
For sensor 65741-67

65660-KD
For sensor 65644-67

AM spare part accessories
Concerned sensor

65661-KU
For sensor 65646-67

65731-67 (RDV001, L=43 mm)
For sensor BERU®

65732-67 (RDV002, L=48 mm)
For sensor BERU®

65733-67 (RDV003, L=49 mm)
For sensor BERU®

65734-67 (RDV004, L=51 mm)
For sensor BERU®

65958-KU
For sensor 65938-67

65961-KD
For sensor 65938-67

65962-KD
For sensor 65971-67

Note : VDO and BERU are protected marks, only property of VDO and BERU. Schrader is distributor of BERU products. BERU mark and instruction leaflets are property of BERU.

SCHRADER Pressure to perfection

P/N suffix: -67 or -KU= per unit -KD = box of 10 kits individually packed in plastic bags -68 = per 10 -3 or -69 = per 100

PRESSURE SENSORS ACCESSORIES

EZ-sensor Innovation by Schrader

The list of vehicles covered by the EZ-Sensor is updated regularly, contact - us for more information.

NUMERICAL LIST (CONT'D)

AM spare part accessories
Concerned sensor

65963-KU
For sensor 65939-67

65964-KD
For sensor 65970-67

66070-KU
For sensor 66042-67
For sensor 66043-67

66071-KU
For sensor 66040-67

66072-KU
For sensor 66041-67

AM spare part accessories
Concerned sensor

66086-67 and 66086-68
For sensor 65597-67 (REV4), 66128-67 (REV4), 65649-67 (REV4), 66137-67 (REV5), 65722-67 (REV5), 66073-67 (REV5), 66074-67 (REV4)
Maximum designed speed > 180 kph but < 250 kph : replace the rubber valve with a metal valve.

66087-KD
For sensor 66086-67 et 66087-68

66118-68
For sensor 65597-67 (REV4)
For sensor 65649-67 (REV4)
For sensor 66074-67 (REV4)
For sensor 66128-67 (REV4)
Speed until 180 km/h. For higher speed, mount a metal valve 66086-67

66138-KD
For sensor 66113-67

66150-68
For sensor 65722-67 (REV5)
For sensor 66073-67 (REV5)
For sensor 66137-67 (REV5)
Speed until 180 km/h. For higher speed, mount a metal valve 66086-67

AM spare part accessories
Concerned sensor

66151-67 (RDV005, L=56 mm)
For sensor BERU®

66699-KD
For sensor 65722-67

66700-KD
For sensor 66050-67
For sensor 66116-67
For sensor 66543-67

66742-68
For sensor 66730 EZ-sensor Innovation by Schrader
Speed until 210 km/h and according rim profile. For higher speed, mount a metal valve 66743.

66743-68
For sensor 66741 EZ-sensor Innovation by Schrader
EZ-Sensor for clamp-in valve does not have any vehicle's speed limitation in combination with the use of any compatible OE or aftermarket rim.

66744-KD
For sensor 66743-68

Keyed to prevent incorrect installation of the sensor.

Note : VDO and BERU are protected marks, only property of VDO and BERU. Schrader is distributor of BERU products. BERU mark and instruction leaflets are property of BERU.

SCHRADER TUBELESS VALVES: RELIABILITY GUARANTEED

The mounting of tubeless tyres may be hindered if the wrong valve is used.
Schrader tubeless valves for trucks give the best results due to our high-quality manufacturing.

Schrader offers a complete line of valves suited to every type of rim.
Automatic controls in production: dimensions, 100% airtightness.
Material resistance laboratory tested (temperature and overpressure resistance).

TRUCK VALVES
SPUDS AND EXTENSIONS

- Tubeless valves for drop-centre rims 48
  Rim hole 9.7 mm
- Tubeless valves in nickel-coated brass for ALCOA* rims 49
  Rim hole 9.7 mm
- Tubeless valves for drop-centre rims 51
  Rim hole 16 mm
- Tubeless valves for drop-centre rims 53
  Rim hole 20.5 mm
- Nickel-coated valves with guiding flange 55
- Valves for inner tubes (universal screw-on) 56
- Spuds for universal screw-on valves 56
- Flexible extensions and clamping lugs 59
- Rigid plastic extensions 61
- Rigid brass extensions 62
- Loose wheel nut indicators 63
  CHECKPOINT® - DUSTITE® - CHECKLINK®- CHECKLOCK®

** ALCOA: protected trademark, property of ALCOA*

BRASS TUBELESS VALVES

For drop-centre rims 9,7

- Nut tightening torque: 12 to 15 N.m.
- Replace the O-ring each time you remove the tyre.

		ETRTO n°	B	Spare washer
(1)	R-1487-2	(V3.20.6)	85	R-1419-2
(1)	R-1487-7	(V3.20.6)	85	
(2)	R-1898-2		80	
(2)	R-1898-7		80	
(3)	R-1680-2	(V3.20.12)	70	
(3)	R-1680-7	(V3.20.12)	70	
(4)	R-1485-2	(V3.20.4)	60	
(4)	R-1485-7	(V3.20.4)	60	
(5)	R-1798-2	(V3.20.2)	60	
(6)	R-1500-2	(V3.20.7)	50	
(7)	R-1486-2	(V3.20.5)	40	
(7)	R-1486-7	(V3.20.5)	40	

(V3.22.1)	Spare washer
R-2123-2	R-1419-2
R-2123-3	
R-2123-7	

Valve with oval shape foot **for vehicles equipped with** Mercedes (Actros), Scania, Man, Volvo **disc brakes**. Zinc bichromate nut.

(V3.20.1)	Spare washer
R-0964-2	R-1419-2

	Spare washer
R-2021-2	R-1419-2

SCHRADER Pressure to perfection

P/N suffix: -2 = per 10 -3 = per 100 -7 = per 250

TUBELESS VALVES IN NICKEL-COATED BRASS - ALCOA* ALLOY RIMS

For drop-centre rims 9,7

• Nut torque: 12 to 15 N.m.

• Nut torque:
10 to 12 N.m.
• Replace the O-ring each time you remove the tyre.

		TR n°	B	Spare washer
(1)	33645-68	TR 543 C	35	41361-68
(2)	S-4295-2	TR 543 D	35	
(3)	S-4297-2	TR 544 D	50	
(4)	42132-68	TR 545 D	66	

(V3.20.1)	Spare washer
41534-68	R-1419-2

(V3.22.1) 2123 nickel-coated	Spare washer
42729-68	R-1419-2

	Spare washer
42168-68	41686-68

P/N suffix: -2 or -68 = per 10

** ALCOA: protected trademark, property of ALCOA*

TUBELESS VALVES IN NICKEL-COATED BRASS - ALCOA* ALLOY RIMS

For drop-centre rims 9,7

Nut tightening torque: 9 to 16 N.m.

65769-68 Alcoa 40 MS-00N

65757-68 Alcoa 54 MS-00N

Alcoa 60 MS-00N	Spare washer
41684-68	41686-68

65760-68 TR 554 D

65758-68 Alcoa 70 MS-07N2

P/N suffix: -68 = per 10

** ALCOA: protected trademark, property of ALCOA*

TUBELESS VALVES

For drop-centre rims 16

Nut tightening torque:
4 to 6 N.m.

		TR n°	ETRTO n°	A	Spare washer
(1)	R-2027-2	TR 575	(V3.21.1)	29	37519-68
(1)	R-2027-7	TR 575	(V3.21.1)	29	
(2)	S-4591-2	TR 501	(V3.21.2)	38	
(3)	65394-68	TR 500	(V3.21.3)	51	
(4)	65395-68	TR 570	(V3.21.4)	79	
(5)	65402-68	TR 572	(V3.21.4)	95	

(4) and (5) bendable valves

TR 575 (V3.21.1) Short washer	Spare washer
41788-68	35439-68

Nut tightening torque:
13 to 15 N.m.

TR 570 C (V3.21.9)	Spare washer
41518-68	37519-68

Valve Scania	Spare washer
R-2112-2	41672-67

Nut tightening torque:
33 to 37 N.m.

	Spare washer
R-1581-1	R-1421-2
R-1581-2	

For drop-centre rims 16

P/N suffix: -2 or -68 = per 10 -7 = per 250

TUBELESS VALVES

For flat rims 20,5

R-1051-2 (V3.15.2) For underground

R-1089-2 (V3.15.1) For underground

R-1013-2 (V3.16.1)

R-0915-2

- Nut torque: 25 to 31 N.m.
- Replace the O-ring each time you remove the tyre. (washer **R-1420-2**, nut **R-1250-2**)

R-0907-2 (V3.18.1)

R-1265-2

For flat rims 20,5

Nut torque:
25 to 31 N.m.
• Replace the O-ring each time you remove the tyre.
(washer **R-1420-2**, nut **R-1250-2**)

P/N suffix: -2 = per 10

GUIDING FLANGE VALVES - NICKEL-COATED VALVES

For industrial wheel with airtight ring.

R-2101-2

R-2102-2

R-2160-2

41703-68 Plastic obturator

P/N suffix: -2 or 68 = per 10

Straight and single-bend universal screw-on valves

- Valves come assembled with washer R-0569-3.
- Replace the sealing washer each time you remove the tyre.

		ETRTO n°	A
(1)	R-0752-2	(V3.02.17)	156,6
(2)	R-0751-2	(V3.02.13)	133,5
(3)	R-1005-2		86
(4)	R-1003-2	(V3.02.5)	47,5

R-0572-2

R-0570-2 (V3.02.2)

R-0576-2 (V3.02.3)

R-0750-2

		ETRTO n°	A
(1)	R-1158-2	(V3.02.14)	138,5
(2)	R-1157-2	(V3.02.12)	132
(3)	R-1021-2	(V3.02.10)	115
(4)	R-1156-2	(V3.02.9)	99,5

Spuds for universal screw-on valves

(V3.08.2)	Vulcanization
S-4014-2	Hot cure
S-4142-1	Cold cure

- Spuds are sold unbuffed.
- Sealing washer **R-0569-3**.

SCHRADER Pressure to perfection

P/N suffix: -1 = per unit -2 = per 10

Low single and double-bend universal screw-on valves

Change the sealing washer each time you remove the tyre **(R-0569-3)**.

R-1221-2

		A
(1)	R-1081-2	51,5
(2)	R-1465-2	61,5

Double-bend universal screw-on valves

R-0781-2

R-0578-2

R-0579-2

R-1198-2 (V3.04.2)

Low triple-bend universal screw-on valves

R-1007-2 (V3.07.1)

Triple-bend universal screw-on valves

Change the sealing washer each time you remove the tyre **(R-0569-3)**.

P/N suffix: -2 = per 10

FLEXIBLE EXTENSIONS AND LUGS

Straight flexible extensions

	L (mm)
R-0980-2	R 75
R-0795-2	R 105
R-1325-2	R 125
R-1145-2	R 140
R-1488-2	R 160
R-0723-2	R 180
R-0723-9	R 180
R-0743-2	R 210
R-0743-9	R 210
R-0940-2	R 270
R-0720-2	R 340
R-0873-2	R 370
R-0797-2	R 430
R-0721-2	R 490
R-1463-2	2 R 210 + 1 R 1431

Rotating nut tightning torque: 0.3 to 0.5 N.m.

Bent flexible extensions

	L (mm)
R-1011-2	RC 140
R-0916-2	RC 210
R-1422-2	RC 280
R-1104-2	RC 360
R-1104-9	RC 360
R-1511-2	RC 460

Clamping lugs for the flexible extensions

R-1431-2
R-1431-3
R-1431-6

R-1144-2
R-1144-3
R-1144-6

S-4998-2

- The number included in the description corresponds to the total length in mm.
- Michelin-steel = metal braid.
- When mounting extensions, make sure the rim hole is free of sharp edges that could damage the extension while driving.

MICHELIN
A better way forward

P/N suffix: -2 = per 10 -9 = per 50 -3 = per 100 -6 = per 500

ARAMID FLEXIBLE EXTENTIONS

Straight flexible extensions

ONLY FOR EXPORT

	L (mm)
41315-71	75
41316-71	105
41317-71	125
41318-71	140
41319-71	160
41320-71	180
41321-71	210
41322-71	270
41323-71	340
41324-71	370
41325-71	430
41326-71	490
41327-71	695

Bent flexible extensions

	L (mm)
41776-99	360

Rotating nut tightness torque: 0.3 to 0.5 N.m.

SCHRADER Pressure to perfection

P/N suffix: -71 =per 50 -99 = per 200

SCHRADER RIGID PLASTIC 100% AIRTIGHT EXTENSIONS

Valve mouth mounting torque:
0.4 to 0.7 N.m.

Long skirt

Short skirt

	Total length A (mm)	Useful length B (mm)
42214-68	71	53,5
42214-69	71	53,5
42215-68	111	97,5
42215-69	111	97,5
42216-68	150	132,5
42216-69	150	132,5
42217-68	170	152,5
42217-69	170	152,5
42218-68	180	161
42218-69	180	161

	Total length A (mm)	Useful length B (mm)
42563-68	61	53,5
43249-68	101	93,5
42564-68	140	132,5

P/N suffix: -68 = per 10 -69 = per 100

BRASS EXTENTIONS

Rigid bent extensions

Rotating nut tightness torque: 0.3 to 0.5 N.m.

R-1197-2
R-1197-3

42253-68
42253-69

Straight rigid nickel-coated brass extensions

(1) Short skirt

		Total length (A mm)	Useful length (B mm)
(1)	S-4584-2	42,5	34
(2)	S-4577-2	62,5	54
(2)	S-4551-2	86,5	78
(2)	S-4531-2	93,7	78
(2)	S-4529-2	102,5	94
(2)	S-4517-2	109,7	94
(2)	S-4504-2	128,7	113
(2)	S-4134-2	140,7	127
(2)	R-3552-2	178	152

(2) Long skir

Valve mouth mounting torque: 0.3 to 0.7 N.m.

P/N suffix: -2 or -68 = per 10 -3 or -69 = per 100

CHECKPOINT®-DUSTITE®-CHECKLINK®-CHECKLOCK®

SAFE

DANGER

Improve safety in the blink of an eye

CHECKPOINT® is a loose wheel nut indicator widely used in the transport industry to improve conformity with and adaptation to fleet safety regulations, on daily wheel checks and on visual checking of safety standards. **CHECKPOINT®** indicates the precise location of loose.

CHECKPOINT®

Wheels without hub cap

- The size in millimetres corresponds to the size of the nut, from flat end to flat end. The sizes of the indicators are always individually marked on the products.
- High-resistance polypropylene products.
- Indication of wheel overheating (melts at over 120°C).

	Qty of CHEKPOINT® per pack	Ø (mm)
66732-69	100	19
66733-69		23
65910-69		27
65911-69		30
65912-69		32
65913-69		33
66542-69		41

Position the **CHECKPOINT®** with the neck ring against the nut.

DUSTITE® LR

Wheels with hub cap

DUSTITE® LR is both a dust cap and a loose wheel nut indicator used on hub caps with bolt access.

Push the **DUSTITE® LR** down to the bottom of the nut. Use the arrows as grips to remove them.

	Qty of DUSTITE® LR per pack	Ø (mm)
65914-71	50	32
65915-71		33

CHECKLINK®

Loose wheel nut indicator with retention eyelets.

	Qty of CHECKLINK® per pack	Ø (mm)
66021-71	50	30
66022-71		32
66023-71		33

CHECKLOCK® SQ

Stainless steel nut locker, with centre-to-centre spacing of 335 mm.

	Qty of CHECKLOCK® per pack	Ø (mm)
66734-68	10	32
66735-68		33

The bore of "large-bore" valves is **3 times** greater than the "standard bore".
The bore of "super large bore" valves is **12 times** greater than the "standard bore".

With the development of vehicles and EM tyres, the use of super large bores (SLB) provides a quicker, more effective service.

BORE DIAMETER GAUGE:

Large bore (LB): 5 mm (0.19")

Super large bore (SLB): 11 mm (0.44")

FARM VEHICLES AND EARTHMOVER VALVES

- Hydro-flation connectors and ballasting pump 66
- Hydro-flation valves for inner tubes 67
- Hydro-flation valves for American type tubeless (LB) 68
- Valves for euro type inner tubes (LB) 69
- Tubeless or euro inner tube valves (LB) 70
- Valves and spuds for American type tubeless (LB) 72
- Extensions and clamping lugs (LB) 74
- Tubeless valves, spuds and extensions (SLB) 75

HYDRO-FLATION CONNECTORS AND BALLASTING PUMP

- Operating pressure: 7 bar.
- Supply with filtered and lubricated air. (see page 105).

67115-67 BALLASTING PUMP
For water ballasting (or other antifreeze products) of tractor and earthmover tyres.
Pneumatic diaphragm pump. Flow 140 L/min.
Delivered complete with pressure gauge, air regulator and lubricator.
Suction hoses L = 4 m and filling hoses L = 3m, connections on hydro-flation valve.
Dimensions: 40 x 40 x 50 cm - Weight: 19 kg.

67152-67 3-way valve for pump 67115-67

37-099	67120-67	65922-67	66779-67
Complete ballasting connector 1/2"	Repair kit for hydro-flation connector 37-099	Spare nipple for hydro-flation connector 37-099 (teflon washer included)	Quick coupler for water ballasting

65021-67	65022-67
Connector for 80% water ballasting	Agricultural drainage tool

P/N suffix: -67 = per unit

HYDRO-FLATION VALVES FOR INNER TUBES

(V4.03.1)

R-1224-2	TR 218 A / hot
S-4015-1	TR 218 A / cold (*)

(*) COLD CURE VALVES:
- (*) Thoroughly buff the tube.
- Apply a thin layer of tyre cement for cold cure.
- Never use other products. Never use gas.
- Let dry completely.
- Remove protective film.
- Place the valve on the prepared surface.
- Roll with a knurling wheel to eliminate any trapped air.
- Remove valve core to pierce a hole with a pointed nail or awl.

For cold vulcanisation, valve S-4047-1, because of its large diameter, has real advantages and fits much better than the standard model.

Rim nut torque: 13 to 15 N.m.

S-4011-2	Metal for repair

Grease the coupler washer before mounting.

S-4046-2	Hot
S-4047-1	Cold (*)

(V9.14.1)

R-1225-2 R-1225-3	S-4385-1
Polyamide rim nut	Cap for farm valve hole

(V4.02.1) Hydro-flation nipple	O-ring seal
R-1139-2	S-4013-2

HYDRO-FLATION VALVES FOR AMERICAN TYPE TUBELESS (LB) 16

• Nut torque: 5 to 6.1 N.m.
• Grease the coupler washer before mounting.
(Nut **R-0884-2**, washer **S-4033-2**, rubber grommet **S-4031-2**)

(V5.15.4)

S-4020-1 TR 623 A

(V5.15.2)

S-4029-1 TR 621 A

(V5.15.3)

S-4021-1 TR 622 A

R-1840-2
R-1840-3
R-1840-9
65258-77

(V5.15.1)
TR 618A

42176-68 Hydro-flation valve with rubber

66852-67 TR618A short

SCHRADER Pressure to perfection

P/N suffix: -1 = per unit -2 and -68 = per 10 -9 = per 50 -3 = per 100 -77= per 250

VALVES FOR EURO TYPE INNER TUBES (LB)

R-0772-1 TRJ 1175 C

R-0789-1 TRJ 1076 E

R-0828-1

R-0770-1 TRJ 1014

- Change the sealing washer each time you remove the tyre.
- Valves come assembled with washer **R-0776-2**.

R-0775-1 Hot cure rubber spud

P/N suffix: -1 = per unit

TUBELESS OR EURO INNER TUBE VALVES (LB)

R-1025-1

		A
(1)	**R-0823-1**	50
(2)	**R-0825-1**	75
(3)	**R-0826-1**	100
(4)	**R-0827-1**	130

Grease the coupler washer before assembly. (O-ring **S-4012-2**)

		A
(1)	**R-0822-1**	60
(2)	**R-1124-1**	100

R-0824-1

(V5.03.1)

R-1009-1 For valves placed 100 mm from hook

SCHRADER Pressure to perfection

P/N suffix: -1 = per unit

TUBELESS OR EURO INNER TUBE VALVES (LB)

Swivel valves

R-0966-1

Grease the coupler washer before mounting. (O-ring **S-4012-2**)

R-1125-1

For inner tubes 20,5

R-1109-1 Extension for spuds R-0965-1 and R-0829-1 (O-ring seal **S-4012-2**)

Tubeless 20,5

Metal spud for swivel valve.

Nut tightening torque 19 to 22 N.m. (O-ring seal **R-1420-2**)

R-0965-1	R-0829-1
Metal spud for countersunk rim hole	Metal spud for non-countersunk rim hole

P/N suffix: -1 = per unit

VALVES FOR AMERICAN TYPE TUBELESS (LB)

For spud 20,5

(V5.04.1)

R-1837-1 TRJ 650

S-4038-1 TRJ 655

- Valve mounting torque: 7.7 to 8.8 N.m.
- Grease the coupler washer before mounting.
- These valves are used with spud R-1842-1. (O-ring **S-4012-2**)

S-4037-1 TRJ 652

(V5.04.2)

S-4039-1 TRJ 651

P/N suffix: -1 = per unit

VALVES FOR AMERICAN TYPE TUBELESS (LB)

For spud 20,5

Nut mounting torque
7.7 to 8.8 N.m.

(V5.03.1) TRJ 670	Spare seal
R-0979-1	S-4012-2

S-4030-1 TRJ 671

Nut tightening torque
19 to 22 N.m.

(V5.10.1) TR SP2 Spud	Spare seal
R-1842-1	TR RG 22 R-1642-2

66780-67 TR-SP3 Screwable spud 1/2'' NPT

66784-67 Repair spud. Replacement without dismounting the tyre

Monoblock 20,5

S-4022-1 (V5.09.1) TRJ 691

Nut tightening torque 19 to 22 N.m.

S-4023-1 TRJ 690

EXTENSIONS (LB)

Flexible extensions

- Equipped with 2 locking nuts and a caulking nut to screw onto the valve.
- Delivered without cap or core (to be recovered from the valve).

	Useful L. (mm)
66757-67	140
66758-67	162
66759-67	178
66760-67	210
66761-67	305
66762-67	343
66763-67	406
66764-67	470
66765-67	546
66766-67	597
66767-67	635
66768-67	749
66769-67	813

Foldable extensions

	Useful L. (mm)
66747-67	102
66748-67	203
66749-67	254
66750-67	305
66751-67	406
66752-67	457
66753-67	521
66754-67	622
66755-67	749
66756-67	813

- Equipped with 2 locking nuts and a caulking nut to screw onto the valve.
- Delivered without cap or core (to be recovered from the valve).

Rigid brass extensions

(1) Equipped with hexagonal cap.
(2) Equipped with hexagonal cap and 2 nuts.

		Useful L. (mm)
(1)	66770-67	51
(1)	66771-67	76
(1)	66772-67	102
(1)	66773-67	127
(2)	66774-67	153
(2)	66775-67	203
(2)	66776-67	229
(2)	66777-67	254
(2)	66778-67	630

Clamping lug

66792-67

P/N suffix: -67 = per unit

VALVES FOR AMERICAN TYPE TUBELESS (SLB) 20,5

TEMPORARY USE

66793-67	66794-67	66785-67	66781-67	66782-67
TR-SP8 Spud	**TR-SP8** Long spud	Repair spud. Replacement without dismounting the tyre	Spud with screwable valve 1/2" NPT	Spud without screwable valve 1/2"NPT

66786-67	66789-67	66790-67
Directionable 90° elbow	Fixed elbow spud 85, screwable 1/2"NPT	Directionable elbow spud 85° with locknut

66783-67 Complete inflation/ballasting connector **TR-AD-8** for connection onto air pipe 1/2"

- During inflation, the air pressure in the tyre can be checked by connecting an inflating gauge onto the system.
- Reduces inflating time by 60% and deflating time by 80%.
- Can be used to ballast tyres with a liquid on SLB valves.

P/N suffix: -67 = per unit

VALVES FOR AMERICAN TYPE TUBELESS (SLB)

Assembly kit for on-site repair

66788-67 Case contents:
1 complete valve mounted with core and cap (1)
1 rotating coupler (2)
1 extender (3)
2 rings (4)
2 nuts (5)

66787-67 Hose coil 15 m 1/2" for kit 66788-67

66791-67 Clamping lug for SLB extension

Example of a complete assembly

Hydraulic tool

For use with an air-hydraulic foot or hand pump.

66804-67 Hydraulic tightening tool for assembly of the SLB valve above.

P/N suffix: -67 = per unit

VALVES FOR AMERICAN TYPE TUBELESS (SLB) 20,5

66097-67 Valve **TR-CH-8**

For Caterpillar	66098-67	66099-67
Valve angle	15°	15°

P/N suffix: -67 = per unit

Chapter 4

MAINTAINING THE CORRECT TYRE PRESSURE IS THE BEST WAY TO ENSURE PASSENGER SAFETY AND EXTEND TYRE LIFE.
CORES AND CAPS COMPLIANT WITH ETRTO, ISO... STANDARDS,
CAN GUARANTEE THE RIGHT PRESSURE LEVEL.

The cores and caps sold in the aftermarket are all OE products, the same as factory-installed ones, and are approved by both car and tyre manufacturers.
The core and sealing cap work together to effectively seal the valve.

CORES

- The VALVE CORE is designed to keep the air inside the tyre or in the air-conditioning circuits
- Replace it each time you change your tyre
- When inflating your tyre, use a coupler in good condition and clean air
- Adhere to the recommended tightening torques
- To install the core at the correct torque, use tool 66690-67

The cores listed in this catalogue are only for use on automobiles.

CAPS

- The SEALING CAP is the only cap that guarantees that the valve is airtight
- The cap protects the entire inside of the valve (inlet, core) by preventing foreign matter getting into the functional part of the valve core and by preventing plunger leakage

VALVE CORES AND CAPS

- Cores 80
- Caps 80
- Air-conditioning products R134A and 1234yf 81

VALVES CORES AND CAPS

Standard flow

Cores

	37992-69 37992-80	43078-69
Body material	Nickel-plated brass	Nickel-plated brass
Seal	Teflon	Teflon
Torque (N.m)	0,23 to 0,56	0,23 to 0,56
Operating pressure (bar)	0 to 14	0 to 14
Use	Core specially recommended for pressure sensors	Core specially recommended for bead-balanced wheels

Caps

	60166-71	R-0638-3	33792-69
Body material	Chrome-plated for valves 33651-68 and 33653-68	Sealing cap with core remover Nickel-plated brass	Knurled sealing cap Nickel-plated brass
Torque (N.m)	0,2 to 0,35	0,2 to 0,35	0,2 to 0,35
ETRTO		V9.04.4	V9.04.3

NBR : Nitrile-butadiene.

Caps

	S-4000-3	30307-63 30307-53	R-1424-3	37900-63	42321-69	37900-58 37900-65
	With dust cap	With dust cap	High-temperature with washer	High-temperature with washer (nitrogen inflated)	-	High-temperature with washer
Body material	Polyethylene	Polyethylene	Polyamide	Polyamide	Polyamide	Polyamide
Seal	-	-	NBR	NBR	NBR	NBR
Torque (N.m)	0,2 to 0,3	0,2 to 0,3	0,2 à 0,35	0,2 à 0,35	0,2 à 0,35	0,2 à 0,35
Use	-	-	-	-	Specially for Schrader and VDO pressure sensors	For the identification of bead-balanced tyres

Large bore

Cores

	R-0765-2	S-4587-2	R-0821-2
			Non-return brass core
Body material	Enamelled brass	Enamelled brass	Brass
Seal	Nitryl	Teflon	Silicon
Torque (N.m)	0,7 to 1,1	0,4 to 0,7	0,8 to 1,1
Operating pressure (bar)	0 to 14	0 to 20	0 to 14

Caps

S -4653-2	R-0766-2
With metal core remover	Knurled sealing cap
Brass	Brass
-	NBR
0,3 to 0,5	0,3 to 0,5
-	-

P/N suffix: -2 = per 10 -71 = per 50 -3 or -63 or -65 or -69 = per 100 -53 or -80 = per 1000 -58 = per 5000

AUTOMOBILE AIR-CONDITIONING PRODUCTS R134a AND 1234yf

Standard short cores

	42996-68	43000-68	43001-68
Valve washer	CR	FPM	HNBR
Torque (N.m)	0,4 to 0,8	0,4 to 0,8	0,4 to 0,8
Fluid	R134a	R134a 1234yf	R134a

Special core

	32361-68
Valve washer	HNBR
Torque (N.m)	0,56 to 1,13
Fluid	R134a

Large bore cores

- HNBR : hydrogenated nitrile butadiene
- CR: polychloroprene.
- FPM: fluorocarbon.
- EPDM: ethylene propylene diene rubber

	37478-68	42393-68	41734-68
Valve washer	CR	EPDM	FPM
Torque (N.m)	0,7 to 2,2	0,7 to 2,2	0,8 to 2,2
Fluid	R134a	R134a 1234yf	R134a 1234yf

Caps

	41143-20	41199-20	43380-20	43374-20
Use	High pressure	Low pressure	Low pressure	High pressure
Thread	M8 x 1	M8 x 1	M8 x 1	M8 x 1
Washer	NBR SBR	NBR SBR	NBR SBR	NBR SBR
Torque (N.m)	0,6 to 1,15	0,6 to 1,15	0,6 to 1,15	0,6 to 1,15
Fluid	R134a	R134a	1234yf	1234yf

NBR SBR:
nitrile-butadiene
styrene-butadiene

Boxes

66158-67

For R134a
Contents:
10 cores 42996
10 cores 37478
10 cores 42393
20 caps 41143
20 caps 41199
1 valve core screwdriver
65290-67

66818-67

For 1234 yf
Contents:
10 cores 43000
10 cores 41734
10 cores 42393
20 caps 43380
20 caps 43374
1 valve core screwdriver
65290-67

P/N suffix: -67 = per unit 68 = per 10 -20 = per 20

CAR WEIGHTS

Schrader provides
a complete range of
STEEL and ZINC weights.

TRUCK WEIGHTS

A range of weights for balancing truck tyres and rims in steel and aluminium with clamp or adhesive attachment.

TRUCK BALANCING BEADS

The beads will automatically balance the complete wheel assembly whatever the wheel position on both trucks and trailers thanks to the centrifugal force effect.

BALANCING PRODUCTS

- Car weights for steel and aluminium rims 84
- Adhesive motorcycle and car weights 85
- Tools for weights 86
- Weights for vans 87
- Weights for trucks 87
- Truck balancing beads 88

BALANCE WEIGHTS

WEIGHTS IN ZINC

Weights with built-in springs for steel rims

Weights OE
approved by FIAT. "Zinc coated"

Zinc coated	Weight mass (g)	Quantity per box
S-6483-44	5	100
S-6511-44	10	100
S-6512-44	15	100
S-6513-44	20	100
S-6514-44	25	100
S-6515-44	30	100
S-6516-44	35	50
S-6517-44	40	50
S-6518-44	45	50
S-6519-44	50	50

Weights with built-in springs for aluminium rims

Weights OE
approved by FIAT. "Zinc coated"

Zinc coated	Weight mass (g)	Quantity per box
41796-44	5	100
41797-44	10	100
41798-44	15	100
41799-44	20	100
41800-44	25	100
41801-44	30	100
41802-44	35	50
41803-44	40	50
41804-44	45	50
41805-44	50	50

Weights with built-in springs for steel rims

Raw Zinc	Weight mass (g)	Quantity per box
65900-67	5	100
65901-67	10	100
65902-67	15	100
65903-67	20	100
65904-67	25	100
65905-67	30	100
65906-67	35	50
65907-67	40	50
65908-67	45	50
65909-67	50	50

P/N suffix: -44 or -67 = 1 box

ADHESIVE WEIGHTS FOR ALLOY RIMS

WEIGHTS IN STEEL

EXTRA THIN Zinc-coated steel	No. of bars per box	Division	Dimensions (mm)
65684-67 (adh. Norton)	50	4 x 5 g + 4 x 10 g = 60g	Ép. 3,6 larg. 19 long. 148
65685-67 (adh. Norton)	100		
65920-67 (adh.std)	100		
66121-67	100		Ép. 4 larg. 19 long. 140

WEIGHTS IN ZINC

EXTRA SLIM Zinc Bichromate	No. of bars per box	Division	Dimensions (mm)
65506-67	50	12 x 2,5 g = 30g	Ép. 2,5 larg. 19 long. 140

WEIGHTS IN LEAD

MOTORCYCLE	No. of bars per box	Division	Dimensions (mm)
33622-39	50	4 x 5 g + 4 x 10 g = 60g	Ép. 4.8 larg. 15 long. 108.5
66122-67	100	7 x 5 g + 6 x 2,5 g = -50g	Ép. 7 larg. 11 long. 105

WEIGHTS IN STEEL

For alloy rims	Description	Weight (kg)	Dimensions (mm)
65744-67	Wall dispenser for adhesive weights 65743-67 and 66089-67, cutting tool incorporated.	5,2	500 x 420 (sold empty)
65745-67	Stand option.	8,1	
65743-67	Roll of 1200 adhesive epoxy steel weights of 5g. Th. 3.5 width 17	6	Th. 2,7 Ø = 33,5
66089-67	Roll of 1200 adhesive zinc-coated steel weights of 5g. Th. 3.5 width 19	6	Th. 2,5 Ø = 30

P/N suffix: -67 or -39 = per unit (= 1 box for weights)

TOOLS FOR WEIGHTS

	Description
65463-67	All-purpose balance weight plier with soft head
65797-67	Adhesive weights remover tool
66119-67	Rubber wheel with 6mm adaptor stem for removing glue residue from rims (max 4000 rpm)

Van weights

WEIGHTS IN LEAD

	Weight mass (g)	Quantity per box
41211-67	30	50
41212-67	40	50
41213-67	50	50
41214-67	60	50
41215-67	70	25
41216-67	80	25

P/N suffix: 67 = per unit (= 1 box for weights)

BALANCE WEIGHTS

WEIGHTS IN LEAD

Weights with built-in springs for truck tubeless steel rims

Weights OE approved by R.V.I.

	Weight mass (g)	Quantity per box
60219-39	50	50
60220-39	75	50
60221-39	100	50
60222-39	150	25
60223-39	200	25
60224-39	250	25
60225-39	300	20

Plasticised adhesive weights for truck aluminium rims

- Operating temperature of up to 150° C.
- Grey metal epoxy coating to avoid corrosion of rim
- With re-positionable adhesive.

	Weight mass (g)	Quantity per box
33762-67	50	10
33763-67	75	10
33764-67	100	10
33765-67	125	10
33766-67	150	10
33767-67	200	10

	No. of bars per box	Division	Dimensions (mm)
66120-67	25	5 x 20 g = 100g	Th. 8 width 15 length 108.5

Weights for ALCOA* type truck aluminium rims

- Metallic grey epoxy coating to avoid corrosion of the rim. Two models are required for old rims: range for the rim exterior (2) and range for the interior (1).
- For new rims, the model for the interior (1) is standardised for both sides of the rim.

(2) (1) (Hooks included)

Exterior	Interior	Weight mass (g)	Quantity per box
(2)	(1)		
41789-67	41792-67	75	10
41790-67	41793-67	100	10
41791-67	41794-67	125	10

41795-39	Spare hooks (box of 10)

** ALCOA: protected trademark, property of ALCOA*

P/N suffix: -39 or -67 = 1 box

Electrostatic cling balancing beads

- The beads automatically balance the complete wheel assembly whatever the wheel position, on both trucks and trailers thanks to the centrifugal force effect.
- The wheel assembly remains balanced even when the vehicle is stopped.
- Tyre is balanced during its life time.
- No machinery needed.
- The product is environmentally friendly.
- Increases fuel economy and tyre life.

	Contents		No. of packs per box
65115-67	113 g	4 oz	96
65116-67	142 g	5 oz	76
65117-67	170 g	6 oz	64
65118-67	227 g	8 oz	52
65119-67	282 g	10 oz	40
65120-67	340 g	12 oz	36
65121-67	397 g	14 oz	32
65122-67	454 g	16 oz	28

Each pack of beads is sold with one core 43078 and one red cap 37900.

- Balancing beads: Airtightness must be checked after handling.

INSTRUCTIONS

- To achieve maximum results, refer to recommended quantities chart for each tyre size. Open the outer package and throw the inner bag into the tyre.
This method permits use of an inflating gauge to seat the tyre on the rim.
- The pressure inside the tyre will collapse the bag containing the beads.
- The beads will automatically balance the complete wheel assembly.
- To remove the beads inside the tyre before retreading, use the vacuum cleaner page 154.

	Description	Torque (N.m)
37900-65	Cap for identification of bead-balanced tyres.	0.2 to 0.35
37900-58		

	Description	Torque (N.m)	Operating pressure (bar)
43078-69	Core specially recommended for bead-balanced wheels.	0.23 to 0.56	0 to 14

P/N suffix: -67 = per unit (bag) -65 or -69 = per 100 -58 = per 5000

BALANCING BEADS

Table according to tyre type

TYRE SIZE	1 ton +
	VANS
14“	
215/75 R14	4 oz.
205/70 R14	4 oz.
215/70 R14	4 oz.
15“	
700 R15	4 oz.
7.50 R15	6 oz.
8.25 R15	6 oz.
9 R15	8 oz.
10 R15	8 oz.
215/80 R15	4 oz.
195/75 R15	4 oz.
205/75 R15	4 oz.
215/75 R15	4 oz.
225/75 R15	4 oz.
235/75 R 15	4 oz.
245/75 R15	4 oz.
255/75 R15	4 oz.
265/75 R15	4 oz.
215/70 R15	4 oz.
235/70 R15	4 oz.
245/70 R15	4 oz.
255/70 R15	4 oz.
265/70 R15	4 oz.
285/70 R15	4 oz.
315/70 R15	5 oz.
215/65 R15	4 oz.
245/65 R15	4 oz.
225/60 R15	4 oz.
325/60 R15	5 oz.
16“	
6.50 R16	4 oz.
7.50 R16	4 oz.
8.25 R16	6 oz.
11 R16	8 oz.
215/85 R16	4 oz.
225/85 R16	4 oz.
235/85 R16	4 oz.
245/85 R16	4 oz.
255/85 R16	5 oz.
265/85 R16	5 oz.
275/85 R16	5 oz.
205/80 R16	4 oz.
325/80 R 16	6 oz.
195/75 R16	4 oz.
225/75 R16	4 oz.
235/75 R16	4 oz.
245/75 R16	4 oz.
265/75 R16	6 oz.
285/75 R16	6 oz.
295/75 R16	6 oz.
315/75 R16	6 oz.
215/70 R16	4 oz.

TYRE SIZE	1 ton +
225/70 R16	4 oz.
235/70 R 16	4 oz.
245/70 R16	4 oz.
255/70 R16	4 oz.
265/70 R16	4 oz.
275/70 R16	4 oz.
305/70 R16	4 oz.
315/70 R16	6 oz.
355/70 R16	6 oz.
365/70 R16	6 oz.
395/70 R16	6 oz.
195/65 R16	4 oz.
215/65 R16	4 oz.
225/65 R16	4 oz.
245/65 R16	4 oz.
255/65 R16	4 oz.
305/65 R16	4 oz.
345/65 R16	6 oz.
375/65 R16	6 oz.
215/60 R16	4 oz.
225/60 R16	4 oz.
235/60 R16	4 oz.
285/60 R16	4 oz.
255/55 R16	4 oz.
315/55 R16	4 oz.
345/55 R16	5 oz.
355/55 R16	5 oz.
375/55 R16	6 oz.
245/50 R16	4 oz.
16.5“	
8 R16.5	5 oz.
8.75 R16.5	6 oz.
9.50 R16.5	6 oz.
10 R16.5	6 oz.
12 R16.5	8 oz.
17 “	
235/80 R17	6 oz.
235/75 R17	6 oz.
245/75 R17	6 oz.
255/75 R17	6 oz.
285/75 R17	8 oz.
245/70 R17	6 oz.
255/70 R17	6 oz.
265/70 R17	6 oz.
275/70 R17	6 oz.
285/70 R17	6 oz.
305/70 R17	8 oz.
315/70 R17	8 oz.
355/70 R17	8 oz.
225/65 R17	4 oz.
235/65 R17	4 oz.
245/65 R17	4 oz.
255/65 R17	5 oz.
265/65 R17	6 oz.
305/65 R17	6 oz.

TYRE SIZE	1 ton +
375/65 R17	8 oz.
225/60 R17	4 oz.
235/60 R17	4 oz.
255/60 R17	6 oz.
275/60 R17	6 oz.
285/60 R17	6 oz.
225/55 R17	4 oz.
255/55 R17	4 oz.
275/55 R17	5 oz.
345/55 R17	5 oz.
255/50 R17	4 oz.
17.5“	
8 R17.5	5 oz.
8.5 R17.5	6 oz.
9 R17.5	6 oz.
9.5 R17.5	8 oz.
10 R17.5	8 oz.
11 R17.5	8 oz.
225/90 R17.5	8 oz.
205/80 R17.5	8 oz.
225/80 R17.5	8 oz.
205/75 R17.5	6 oz.
215/75 R17.5	6 oz.
225/75 R17.5	6 oz.
235/75 R17.5	6 oz.
245/75 R17.5	6 oz.
195/70 R17.5	6 oz.
205/70 R17.5	6 oz.
245/70 R17.5	6 oz.
215/70 R17.5	6 oz.
235/70 R17.5	6 oz.
195/60 R17.5	6 oz.
205/60 R17.5	6 oz.
225/60 R17.5	6 oz.
18“	
7.50 R18	8 oz.
255/70 R18	5 oz.
265/70 R18	5 oz.
275/70 R18	6 oz.
275/65 R18	6 oz.
285/65 R18	6 oz.
325/65 R18	6 oz.
355/65 R18	6 oz.
395/65 R18	8 oz.
245/60 R18	4 oz.
255/60 R18	5 oz.
265/60 R18	5 oz.
275/60 R18	6 oz.
285/60 R18	6 oz.
325/60 R18	6 oz.
375/60 R18	8 oz.
395/60 R18	8 oz.
255/55 R18	4 oz.
275/55 R18	4 oz.
285/55 R18	4 oz.

TYRE SIZE	1 ton +
285/50 R18	4 oz.
375/50 R18	6 oz.
19“	
255/55 R19	4 oz.
255/50 R19	4 oz.
275/45 R19	4 oz.
285/45 R19	4 oz.
20“	
325/75 R20	8 oz.
275/65 R20	6 oz.
275/60 R20	6 oz.
325/60 R20	6 oz.
355/60 R20	6 oz.
275/55 R20	4 oz.
285/55 R20	4 oz.
255/50 R20	4 oz.
285/50 R20	4 oz.
305/50 R20	6 oz.
325/50 R20	6 oz.
355/50 R20	6 oz.
325/45 R20	6 oz.
275/40 R20	6 oz.
315/35 R20	6 oz.
22“	
325/55 R 22	6 oz.
335/55 R 22	6 oz.
325/50 R 22	6 oz.
305/45 R 22	6 oz.
305/40 R 22	6 oz.
285/35 R22	5 oz.
24“	
325/45 R24	6 oz.

The colour in this table corresponds to the pack colour.

BALANCING BEADS

Table according to tyre type

The colour in this table corresponds to the pack colour.

TYRE SIZE	Single	Paired
		4X4
14"		
27/8.50 R14	4 oz.	
15"		
29/9.50 R15	4 oz.	
30/9.50 R15	4 oz.	
33/9.50 R15	6 oz.	
31/10.50 R15	4 oz.	
33/10.50 R15	6 oz.	
31/11.50 R15	4 oz.	
32/11.50 R15	6 oz.	
31/12.50 R15	5 oz.	
32/12.50 R15	6 oz.	
33/12.50 R15	6 oz.	
35/12.50 R15	6 oz.	
36/12.50 R15	8 oz.	
37/12.50 R15	8 oz.	
35/13.50 R15	8 oz.	
31/14.50 R15	6 oz.	
33/14.50 R15	8 oz.	
36/14.50 R15	10 oz.	
38/15.50 R15	10 oz.	
33/16.50 R15	8 oz.	
36/16.50 R 15	10 oz.	
40/17 B15	10 oz.	
44/18.50 B15	12 oz.	
16"		
32/9.50 R16	6 oz.	
35/10.50 R16	6 oz.	
31/12.50 R16	6 oz.	
32/12.50 R16	6 oz.	
33/12.50 R16	6 oz.	
34/12.50 R16	6 oz.	
35/12.50 R16	6 oz.	
36/12.50 R16	8 oz.	
37/12.50 R16	8 oz.	
33/14.50 R16	8 oz.	
36/14.50 R16	10 oz.	
38/15.50 R16	10 oz.	
16.5 "		
31/10.50 R16.5	4 oz.	
33/12.50 R16.5	6 oz.	
35/12.50 R16.5	6 oz.	
37/12.50 R16.5	8 oz.	
33/14.50 R16.5	8 oz.	
35/14.50 R16.5	8 oz.	
38/15.50 R16.5	10 oz.	
33/16.50 R16.5	8 oz.	
36/16.50 R16.5	10 oz.	
40/17 B16.5	10 oz.	
44/18.5 B 16.5	12 oz.	

TYRE SIZE	Single	Paired
17"		
33/12.50 R17	6 oz.	
35/12.50 R17	6 oz.	
37/12.50 R17	8 oz.	
37/13.50 R17	10 oz.	
40/13.50 R17	10 oz.	
18"		
35/12.50 R18	6 oz.	
37/12.50 R18	8 oz.	
20"		
35/12.50 R20	6 oz.	
37/12.50 R20	8 oz.	
		TRUCKS
19,5"		
8 R19.5	6 oz.	8 oz.
9 R19.5	6 oz.	8 oz.
18 R19.5	14 oz.	
280/75 R19.5	8 oz.	
285/75 R19.5	8 oz.	
225/70 R19.5	6 oz.	8 oz.
245/70 R19.5	6 oz.	8 oz.
265/70 R19.5	8 oz.	8 oz.
275/70 R19.5	8 oz.	10 oz.
285/70 R19.5	8 oz.	10 oz.
305/70 R19.5	10 oz.	12 oz.
385/65 R19.5	12 oz.	14 oz.
445/65 R19.5	14 oz.	
385/55 R19.5	12 oz.	14 oz.
425/55 R19.5	14 oz.	
435/50 R19.5	14 oz.	
445/45 R19.5	14 oz.	
20"		
7.50 R20	8 oz.	10 oz.
8.25 R20	8 oz.	10 oz.
9.00 R20	10 oz.	12 oz.
10.00 R20	10 oz.	12 oz.
11.00 R20	12 oz.	14 oz.
12.00 R20	12 oz.	14 oz.
12.50 R20	12 oz.	14 oz.
13/80 R20	12 oz.	14 oz.
14/80 R20	12 oz.	14 oz.
14.00 R20	16 oz.	16 oz.
365/80 R20	16 oz.	16 oz.
395/80 R20	16 oz.	16 oz.
20.5"		
525/65 R20.5	20 oz.	
615/65 R20.5	20 oz.	
22"		
10.00 R22	12 oz.	
11.00 R22	12 oz.	
22.5"		
9 R22.5	8 oz.	10 oz.
10 R22.5	8 oz.	10 oz.
11 R22.5	10 oz.	12 oz.

TYRE SIZE	Single	Paired
12 R22.5	12 oz.	14 oz.
13 R22.5	12 oz.	
15 R22.5	12 oz.	
16 R22.5	14 oz.	
16.5 R22.5	14 oz.	
18 R22.5	16oz.	
235/80 R22.5	6 oz.	8 oz.
255/80 R22.5	8 oz.	10 oz.
275/80 R22.5	10 oz.	12 oz.
295/80 R22.5	12 oz.	14 oz.
315/80 R22.5	14 oz.	
365/80 R22.5	14 oz.	
245/75 R22.5	8 oz.	10 oz.
265/75 R22.5	8 oz.	10 oz.
285/75 R22.5	10 oz.	12 oz.
295/75 R22.5	10 oz.	12 oz.
315/75 R22.5	12 oz.	
345/75 R22.5	12 oz.	
350/75 R22.5	14 oz.	
235/70 R22.5	6 oz.	8 oz.
255/70 R22.5	8 oz.	10 oz.
11/70 R22.5	8 oz.	10 oz.
265/70 R22.5	8 oz.	10 oz.
275/70 R22.5	10 oz.	12 oz.
305/70 R22.5	10 oz.	12 oz.
315/70 R22.5	10 oz.	12 oz.
365/70 R22.5	12 oz.	
485/45 R22.5	16 oz.	
495/45 R22.5	16 oz.	
365/65 R22.5	12 oz.	
385/65 R22.5	12 oz.	
425/65 R22.5	14 oz.	
445/65 R22.5	16 oz.	
285/60 R22.5	10 oz.	
295/60 R22.5	10 oz.	
305/60 R22.5	10 oz.	
315/60 R22.5	10 oz.	
385/55 R22.5	12 oz.	
455/55 R22.5	16 oz.	
275/50 R22.5	10 oz.	12 oz.
445/50 R22.5	16 oz.	
24"		
11.00 R24	14 oz.	
12.00 R24	14 oz.	
14.00 R24	16 oz.	
445/70 R24	16 oz.	
495/70 R24	16 oz.	
24.5"		
11 R24.5	10 oz.	12 oz.
12 R24.5	14 oz.	14 oz.
285/75 R24.5	10 oz.	12 oz.
305/75 R24.5	10 oz.	12 oz.
315/75 R24.5	10 oz.	12 oz.
275/80 R24.5	10 oz.	12 oz.
295/80 R24.5	10 oz.	12 oz.

MECHANICAL GAUGES

Schrader offers a full range of mechanical inflating gauges and pressure gauges for tyre professionals, made in Pontarlier.

- Devices designed by Schrader:
  DIGITAIR - UNIVAIR - MASTAIR - MAESTRO
- Devices under Michelin license:
  EURODAINU - EURODAIRA

USING INFLATING GAUGES

For best use of inflating gauges, we recommend that you:

- Check that the needle is positioned at zero ± 0.1 bar before each use
- Make sure you regularly bleed the compressed air network
- Use filtered, non-lubricated air
- Connect the device to a hose reel
- Regularly check airtightness intake and outlet valves
- Not overtighten the intake side coupler
- Never lock the inflating gauge handle while in use

Puncture prevention products contained in tyres are corrosive and prevent gauges from functioning correctly.

Follow the user instructions for water-ballasted tyres.

SAFETY RECOMMENDATION:

Length of outlet hose:

L = 1,50 m

L = 3 m

L = 6 m

Standard device delivered with one hose L = 1.50m.

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"DIRECCTE" APPROVAL FOR GAUGE APPROVAL
No. 11.10.821.008.4 of 26 July 2011
Regional directorate for competition, consumption, labour and employment.

"DIRECCTE" approves the quality insurance system implemented by SCHRADER SAS for the manufacture of **mechanical manometers** for automobile vehicle tyres covered by E.C.-approved certificate models and for the affixing of their E.C. initial verification marks.

INFLATION AND COMPRESSED AIR EQUIPMENT

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ELECTRONIC INFLATING GAUGE WITH HANDLE

DIGIT'AIR® graduated from 0.10 to 11 bar

for inflating and checking of pressure

Compliant to standard EN12645.

AIR OR NITROGEN USE

Digital display – High performance of low pressure accuracy even with heavy weight applications

• Technology:

- Pressure range from 0.10 bar to 11 bar
- Resolution of 0.01 bar
- Operating temperature: -25°C to +60°C
- Easy to read thanks to the 12-mm high figures, last, smallest digit displayed
- Visual checking of the correct functioning of digits on each pressurisation
- Product available in different measuring units (bar, psi*, kPa*)
- Gauge turns on when pressurised (connection to the valve)
- Turns off automatically when pressure is withdrawn or with constant pressure for over 10 seconds
- Duration of battery lifetime: 10 years after manufacture in temperate environment (the battery is non-replaceable)
- Automatic recalibration to zero on each inflation for zero measurement deviation
- Air pressure measurements displayed when the buttons are released
- User alert in the event of a fault

• Design - Strength:

- Proven design of Univ'Air and Eurodainu inflating gauges
- Air inlet connector F G 1/4
- Watertight performance reinforced with a transparent dial
- Very high measuring accuracy with this level of accuracy maintained in the event of an impact on the device
  Strength: high technology plastic components.
- Safety handle
- Corrosion resistant internal mechanism.
- Air filtered in the indicator mechanism by stainless steel and nickel silver micro-porous filter
- Device resistant to accidental high pressure of 15 bar

	Graduation	7 x 13 mm hose		Air inlet side coupler	Use
		L (m)	Hose P/N		
39900-00	0,10 to 11 bar	1,5	39064-00	F-G 1/4	
39901-00	1,4 to 160 psi *	1,5	39064-00	F-G 1/4	
39902-00	10 kPa to 1100 kPa *	1,5	39064-00	F-G 1/4	

* Sold for export only and according to local regulations.

For DIGIT'AIR

39766-67	65088-67	65089-67
Intermediate-sized quick coupler for inflating gauges with a G 1/4 air inlet coupler	Teflon-coated threaded quick coupler G 1/4	Grooved junction coupler for hose ø int. 6 - 7 mm conical threaded G 1/4

P/N suffix: -00 or -67 = per unit

MECHANICAL INFLATING GAUGES WITH HANDLE

UNIV'AIR® graduated from 0.7 to 11 bar

for inflating and checking of pressure

AIR OR NITROGEN USE

- EC approval certificate model LNE - 6952 rev. 3 of 1 July 2008.
- Conform to the European Directive 86/217/EC and to standard AFNOR EN 12645.

(1)

- Air inlet connector F G 1/4.
- Watertight performance reinforced with a transparent dial.
- Very high measuring accuracy with this level of accuracy maintained in the event of an impact on the device.
- Strength: high technology plastic components.
- Safety handle.
- Corrosion resistant internal mechanism.
- Air filtered in the indicator mechanism by stainless steel and nickel silver micro-porous filter.
- Device resistant to accidental high pressure of 13.75 bar in compliance with the standard.

(2)

		Graduation	7 x 13 mm hose		Air inlet side coupler	Use
			L (m)	Hose P/N		
(1)	**39700-00**	0,7 to 11 bar	1,5	39064-00	F- G 1/4	
(1)	**39701-00**	0,7 to 11 bar	3	40117-67	F- G 1/4	
(1)	**39703-00**	0,7 to 11 bar	6	40122-67	F- G 1/4	
(2)	**39702-00**	0,7 to 11 bar / 10 to 160 psi *	1,5	39064-00	F- G 1/4	

* Sold for export only and according to local regulations.

For UNIV'AIR and EURODAINU

39766-67	65088-67	65089-67
Intermediate-sized quick coupler for inflating gauges with a G 1/4 air inlet coupler	Teflon-coated threaded quick coupler G 1/4	Grooved junction coupler for hose ø int. 6 - 7 mm conical threaded G 1/4

P/N suffix: -00 or -67 = per unit

MECHANICAL INFLATING GAUGES WITH HANDLE

EURODAINU graduated from 0.7 to 11 bar

for inflating and checking of pressure

AIR OR NITROGEN USE

• EC approval certificate model LNE - 6951 rev. 3 of 1 July 2008.
• Conform to the European Directive 86/217/EC and to standard AFNOR EN 12645.

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(1)

- Air inlet connector F G 1/4.
- Watertight performance reinforced with a transparent dial.
- Rubber protector around the measuring system.
- Very high measuring accuracy with this level of accuracy maintained in the event of an impact on the device.
- Robustness: IXEF material in glass fibre-reinforced high technology plastic.
- Safety handle.
- Corrosion resistant internal mechanism.
- Air filtered in the indicator mechanism by stainless steel and nickel silver micro-porous filter.
- Device resistant to accidental high pressure of 13.75 bar in compliance with the standard.

(2)

		Graduation	7 x 13 mm hose		Air inlet side coupler	Use
			L (m)	Hose P/N		
(1)	**R-1822-Z**	0,7 to 11 bar	1,5	39064-00	F-G 1/4	
(1)	**38879-58**	0,7 to 11 bar	3	40117-67	F-G 1/4	
(1)	**35864-58**	0,7 to 11 bar	3	39065-00	F-G 1/4	
(1)	**38902-58**	0,7 to 11 bar	6	40122-67	F-G 1/4	
(2)	**R-1821-Z**	0,7 to 11 bar / 10 to 160 psi *	1,5	39064-00	F-G 1/4	

* Sold for export only and according to local regulations.

For UNIV'AIR and EURODAINU

39766-67	65088-67	65089-67
Intermediate-sized quick coupler for inflating gauges with a G 1/4 air inlet coupler	Teflon-coated threaded quick coupler G 1/4	Grooved junction coupler for hose ø int. 6 - 7 mm conical threaded G 1/4

P/N suffix: -Z or -58 or -67 = per unit

MECHANICAL INFLATING GAUGES WITH BUTTONS

MAST'AIR graduated from 0.7 to 12 bar
for inflating and checking of pressure

MAESTRO graduated from 0.7 to 6 bar
for inflating and checking of pressure

AIR OR NITROGEN USE

- EC approval certificate model LNE-10839 rev. 0 of 10 July 2007.
- Compliant with European Directive 86/217/E.C. and standard AFNOR EN 12645.

(1)

ADVANCED TECHNOLOGY AND DESIGN
- Built in + / – buttons make inflating virtually effortless.
- Rotatable nipples (air inlet/outlet) make for simple and easy handling.
- Quick pressure adjusting.
- Slanted, coloured dial for easy read-out.

SOLID CONSTRUCTION.
- Shock-resistant ABS material.
- Hangs anywhere thanks to its handy bracket.
- Watertight glass shield.

(2)

		Graduation	7 x 13 mm hose		Air inlet side coupler	Use
			L (m)	Hose P/N		
(1)	**39000-00**	0,7 to 12 bar	1,5	39064-00	R-0987-2 (Drake)	
(1)	**39093-00**	0,7 to 12 bar	3	40117-67	R-0987-2 (Drake)	
(1)	**39002-00**	0,7 to 12 bar	1,5	39064-00	G 1/4 (39066-67)	
(1)	**39001-00**	0,7 to 12 bar	3	39065-00	R-0987-2 (Drake)	
(1)	**39100-00**	0,7 to 12 bar / 10 to170 psi *	1,5	39064-00	R-0987-2 (Drake)	
(1)	**39106-00**	0,7 to 12 bar / 10 to 170 psi *	1,5	39064-00	G 1/4 (39066-67)	
(1)	**39104-00**	0,7 to 12 bar / 10 to 170 psi *	3	40117-67	R-0987-2 (Drake)	
(1)	**39101-00**	0,7 to 12 bar / 10 to170 psi *	3	39065-00	R-0987-2 (Drake)	
(2)	**39003-00**	0,7 to 6 bar	1,5	39064-00	R-0987-2 (Drake)	
(2)	**39004-00**	0,7 to 6 bar	1,5	39064-00	G 1/4 (39066-67)	
(2)	**39103-00**	0,7 to 6 bar / 10 to 85 psi *	1,5	39064-00	R-0987-2 (Drake)	
(2)	**39111-00**	0,7 to 6 bar / 10 to 85 psi *	1,5	39064-00	G 1/4 (39066-67)	

* Sold for export only and according to local regulations.

For MASTAIR and MAESTRO

39066-67	39080-67	R-0153-1	39766-67
Adaptor G 1/4 for Mastair and Maestro	Adaptor G 1/4 with filter for Mastair and Maestro	Intermediate-sized quick coupler for inflating gauges with a coupler R-0987-2 (Drake) (see quick F couplers page 106)	Intermediate-sized quick coupler for inflating gauges with a G 1/4 air inlet coupler

P/N suffix: -1 or -00 or -67 = per unit

EURODAIRA graduated from 0.7 to 12 bar

for checking of pressure

AIR OR NITROGEN USE

(1)

(2)

		Graduation	7 x 13 mm hose L (m)	Angled air chucks	Use
(1)	**38048-99**	0,7 to 12 bar	0,5	R-0415-1	
(1)	**38038-99**	0,7 to 12 bar	0,5	R-0933-1	
(1)	**38049-99**	0,7 to 12 bar / 10 to 170 psi *	0,5	R-0415-1	
(1)	**38039-99**	0,7 to 12 bar / 10 to 170 psi *	0,5	R-0933-1	
(2)	**R-1782-1**	0,7 to 12 bar	0,5	-	
(2)	**R-1781-1**	0,7 to 12 bar / 10 to 170 psi *	0,5	-	

* Sold for export only and according to local regulations.

Electronic pressure gauges with digital display

for checking of pressure

- Easy to read: wide LCD screen.
- Default display in bars.
- Accuracy: ± 1%.
- 1 interchangeable battery CR2032 Lithium 3V.
- Automatic reset to zero.
- Automatic turn-off.

(1)

(2)

CE Conform to the European directive 2004/108/EC and Standard EN 61000-4-2.

AIR OR NITROGEN USE

		Graduation	Hose L (mm)	Chuck		Utilisation
				L (mm)	Réf. pipe	
(1)	**66031-67**	0.3 à 11.6 bar 5 à 168 psi 35 à 1160 KPa	400	265	66018-67	
(2)	**66037-67**			185	R-0933-1	

P/N suffix: -1 or -99 or -67 = per unit

PRESSURE GAUGES

Programmable electronic gauges graduated from 0.35 to 7 bar/5 to 100 PSI/35 to 700 KPA

For checking pressure

(1)

Conform to the European Directive 2004/108/EC and Standard EN 61000-4-2.

AIR OR NITROGEN USE

MICHELIN

© 2012 Michelin

- Special for low pressure.
- Default display in bar.
- Accuracy: ± 1 %.
- 0.05 bar increments 0.05.
- Easy to read: wide screen.
- Blue backlit dial.
- White lighting.
- Durable rubber grip handle.
- Programming of desired pressure.
- Automatic reset to zero.
- Automatic turn-off.
- Storage pockets.
- 2 interchangeable batteries CR2032 Lithium 3V.
- Blister packed.

(2)

		Dial	Weight (g)	Use
(1)	**66126-67**	Rectangular	57	
(2)	**66127-67**	Round	222	

Tread depth gauge & electronic pressure gauge

2 functions on one tool

Compliant with Standards EN 61000-6-3:2007 and 61000-6-1:2007.

TREAD DEPTH GAUGE & ELECTRONIC PRESSURE GAUGE WITH DIGITAL DISPLAY:

- Easy to read: wide LCD screen.
- Automatic turn-off.
- Backlit dial.
- 2 interchangeable batteries CR2032.
- Tread depth or pressure gauge selection function.
- Blister packed.

TREAD DEPTH GAUGE:

- Graduated from 0 to 15 mm (0 to 19/32'').
- Zone colour according to depth (<1.6 mm =red-coloured zone / 1.6 à 3.2 mm = yellow-coloured zone / >3.2 mm = green-coloured zone).
- Accuracy: 0.3 mm
- Resolution: 0.1 mm

PRESSURE GAUGE:

- 0.35 to 6.8 bar (5-99 psi or 35-680 Kpa or 0.4-7.00 kg/cm²).
- Accuracy: ± 1%.
- Display resolution: 0.05 bar.

66185-67	

PRESSURE GAUGES AND INFLATORS

Electronic pressure gauges with digital display

For checking pressure

Schrad'DIGITAL

(1)

Compliant with Standards
EN 61000-6-3:2007 & EN 61000-6-1:2007.

AIR OR NITROGEN USE

- Special for low pressure.
- Accuracy: ± 1 %.
- 0.05 bar increments 0.05.
- Can be used from -10 to 50°C.
- Easy to read: wide LCD screen.
- Backlit dial (1).
- Durable rubber grip handle.
- 3 interchangeable LR44 batteries (included).
- Blister packed.

		Graduation	Use
(1)	**60226-67**	0,35 to 10 bar	
(2)	**65044-67**	0,35 to 7 bar	

MOTORCYCLE

(2)

Pre-programmable electronic wall tyre inflators

AIR USE

For inflating, deflating and adjusting pressure after programming the desired pressure

- Reading precision: 0.02 bar.
- Inside or outside installation (IP66).
- Operating temperature: 0 to 60°C.
- Aluminium cabinet
- Ergonomic design, easy to use.
- Large backlit LCD display.
- Information on Psi or KPa equivalent (65786-67).
- 230 V required electrical supply
- Automatic zero setting before each use.
- Dimensions: 269 x 285 x 106 mm.
- Max air intake pressure: 15 bar.
- Conical thread F-G 1/4 air inlet connection.
- Conical thread F-G 1/4 outlet.
- Attachment hook for hose.
- Weight: 5.4 kg.

		Graduation	Description	Use
(1)	**66541-67**	0,3 to 10 bar	LNE approved for France	
(2)	**65786-67**	0,3 to 12,5 bar	Sold with bar as default but can be reprogrammed for PSI or KPA. Sold for export only and according to local regulations in Europe	

Inflators sold without hose or coupler: order separately

40058-67	Hose ø7x13 mm, L = 10 m for passenger cars use, woven braid with 1 clamp connector R-0985 valve side, quick coupler + G 1/4 inflator side
40059-67	Hose ø7x13 mm, L = 20 m for trucks use, woven braid with 1 clamp connector R-0985 valve side, quick coupler + G 1/4 inflator side

(1)

(2)

P/N suffix: -67 = per unit

Hose 7x13 for inflating gauges

	39064-00	40117-67	39065-00	40122-67
Description	For DIGITAIR, UNIVAIR, EURODAINU, MAESTRO & MASTAIR		For UNIVAIR, EURODAINU & MASTAIR (Earthmover)	
Length (m)	1,5	3	3	6
Type	Woven braid, rotating nut, nipple R-0985-2		Woven braid, rotating nut, nipple R-0984-1	

Hose 5x10 for EURODAIRA pressure gauges

Use an ear clamp ø 10 mm to mount it on the gauge	R-0416-1	S-4451-1
Description	For EURODAIRA with chuck	For EURODAIRA without chuck
Length (cm)	50	50
Recommendation	Use an ear clamp ø 10 mm to mount it on the gauge	

Inflating chucks

	Description	Use
R-0415-1	Makes pressure checking easier on valves that are difficult to get to or twin valves	
R-0933-1		
66018-67	Double nipple specially designed for twin wheels	

Mobile nipples for chucks

Hand-tightened only

	R-0038-1	R-0904-1
Description	For chuck R-0415-1	For chuck R-0933-1
Spare washer	R-0518-2	R-0917-2
Use		

Tube deflator

	R-0634-1
Description	Suctions out the air from inner tubes
Utilisation	

P/N suffix: -1 or -00 or -67 = per unit

INFLATION NIPPLES AND COUPLERS

Couplers for hoses internal ø 7 mm

Ring for secure connection onto valve by locking of clamps.

	R-0985-2	R-0985-1	R-0986-2	(*) R-0987-2	32264-67	R-1430-2
Description	Valve side inflation nipple for hose 7 x 13 mm (Spare washer R-0518-2)	Nipple R-0985-2 in skin-pack for display purposes (Spare washer R-0518-2)	House coupler, outlet side for hose 7 x 13 mm	Rotating nipple inlet side for hose 7 x 13 mm	Quick inflating nipple clamp coupler, valve side	Collet for hose 7 x 13

Other connectors

Change the washer regularly.

	41291-68 41291-09	R-0517-2	R-1296-1	(*) R-3500-2
Description	Inflation nipple valve side for 8 mm hose (Spare washer R-0518-2)	Valve side inflation nipple for hose 5 x 10 mm (Spare washer R-0518-2)	Nipple for adapting EM to truck	Rotating nipple for flexible hose extensions ø int. of 5 mm

Large bore connectors

Ring for secure connection onto valve by locking of clamps.

	R-0984-1	R-0767-1	32266-67	R-0737-1
Description	Earthmover inflation nipple for hose ø int. 7 mm (Spare washer R-0917-2)	Standard / LB intermediate mobile nipple (Spare washer R-0917-2)	Quick LB clamp inflation nipple, valve side	Fixed nipple with LB mouth to Truck adaptor valve (remove the EM valve core beforehand). Inflates even faster

	R-0736-2	(*) R-0697-1
Description	Ring for mounting of large-bore valves on truck spuds	Mobile nipple to adapt LB mouths to trucks

(*) Knurled nipples: hand-tightened only.

P/N suffix: -1 or -67 = per unit -2 or -68 = per 10 -9= per 500

AIR CANNONS, PUMP RINGS

- Maximum operating pressure: 10 bar.
  Filtered and lubricated air supply (see page 105).
- Safety components: glycerine bath manometer, safety valve with calibration certificate, tank test certificate.

Air cannons

For installing beads of tubeless tyres

65063-00

	65063-00 BOOST'AIR 20	65751-67 BOOST'AIR 35
For	Truck inflation	For trucks with large-size wheels, farm vehicles small EM
Tank (L)	20	35
Weight (kg)	10,5	16
Length (mm)	520	670
Type of rim	1-piece	1-piece

Rigid pump rings

60806-67

60807-67

60808-67

60814-67

60809-67

60810-67

60816-67

60817-67

60811-67

	Size (")	Use
60806-67	13	
60807-67	14	
60808-67	15	
60814-67	16	
60809-67	17,5	
60810-67	19,5	
60816-67	20	
60817-67	24	
60811-67	22,5	
60818-67	26	

Spare washers

65211-67	13
65212-67	14
60815-67	15
65213-67	16
65214-67	17,5
65215-67	19,5
60812-67	22,5

Flexible pump rings

	Size (")	Use
65789-67	16,5 to 17,5	
65790-67	19,5	
65791-67	22,5 to 24,5	

P/N suffix: -00 or -67 = per unit

AUTOMATIC WINDERS AND HOSES

Compliant to Machines Directive 2006/42/CE

- Automatic winders with spiral leaf spring and 180° directionable base.
- Epoxy-coated steel sheet cabinet
- Reel mounted on 2 sealed ball bearings.
- Stainless steel-brass rotating washer.
- Hose guide and end stop.
- Installation: wall fixture, height 2 m.

INTENSIVE USE

	Description	max. dimensions (depth x h x th.) (mm)	Hose length (m)	Weight (kg)
S-0335-1	Open-drum woven braided hose int. ø 7 x 13 mm sold with rotating nipple R-0987-2. Max operating pressure: 15 bar	410 x 360 x 230	10	12
S-0336-1		435 x 460 x 240	20	18
S-0337-1		540 x 500 x 270	30	25

Hose coils

	Hose length (m)	Ø (mm)	Braid type	Operating pressure (bar)
R-1152-1	10	7 x 13	Metal	20
R-1153-1	20			
R-1018-1	30			
S-6570-1	10	7 x 13	Woven	15
S-6571-1	20			
S-6572-1	30			

- Automatic winder with spiral leaf spring and 180° directionable base.
- Epoxy-coated steel sheet cabinet
- Hose guide and end stop.
- Connecting kit provided.
- Installation: wall fixture, height 2.50 m.
- Sold without outlet connector.

ECO WINDER

	Description	max. dimensions (depth x h x th.) (mm)	Hose length (m)	Weight (kg)
66667-67	Closed-drum winder Polyurethane / PVC hose int. ø 8 x 12 mm sold with threaded nipple G 1/4 Max operating pressure: 12 bar	350 x 160	15	7
66668-67	Spare hose 15 m for winder 66667-67			
65082-67	Tapped quick coupler G1/4			

	S-0339-1	S-0341-1
Description	Hose for pneumatic lug wrench. Woven braid hose Max operating pressure:15 bar	
Max. dimensions (depth x h x th.) (mm)	435 x 460 x 240	540 x 500 x 270
Hose length (m)	20	25
Ø hose (mm)	13 x 21	9 x 16
Weight (kg)	30	26

Coiled hoses

	Length (m)
65100-67	4
65255-67	6
65101-67	8

Polyurethane hose 6.5 x 10 mm.
Equipped with fixed-rotating male couplers G 1/4.
Working pressure: 9 bar.

Hose coils

	Hose length (m)	Ø (mm)	Braid type
S-0346-1	15	9 x 16	Woven braid for pneumatic lug wrench
S-0347-1	25		
S-0348-1	12	13 x 21	
S-0349-1	20		
60233-67	25	19 x 27	

Progressive blow gun with

	Description
65098-67	Progressive blow gun with tapped curved nozzle G 1/4 on metal insert Max operating pressure: 10 bar Max. flow: 380 litre/min at 6 bar.
65099-67	Blowing assembly, coiled hose L = 4 m. Fitted with blow gun 65098-67

SCHRADER Pressure to perfection

P/N suffix: -1 or -67 = per unit

COMPRESSED-AIR EQUIPMENT

Air treatment unit "GLOBAL FRL SYSTEM"

an entirely modular air treatment system

Clean and Dry air

(1) Complete unit FRL 1/2"

- Complete compact FRL system 1/2".
- Alloy body.
- Maxi pressure 17 bar.
- BSPP connection.
- Metal tanks.
- Operating temperature: -10 to +65.5 °C.
- Use special oil P/N 65775-67.

(2) Combined filter-regulator unit 1/2"

Coalescing Filter 1/2" with inter-module plate (complementary item): order P/N 66146-67 + 66147-67.

COMPLETE UNIT: Filter + Regulator + Lubricator 1/2" (photo 1) : order P/N 66141-67 + 66142-67 + 65414-67 + 66143-67 + 66144-67 x 2.

MODULAR UNIT: Filter + Regulator 1/2" (photo 2) : order P/N 66145-67 + 65414-67 + 66143-67 + 66144-67.

	66141-67	66146-67	66142-67	66145-67	66143-67
Type	5 µm particle filters	Coalescence filter absorbing 0.01 µm	Regulator	Filter/Regulator 5 µm filter element	Lubricator
Orifice (")	1/2	1/2	1/2	1/2	1/2
Description	Tank with sight gauge, manual bleed	Tank with sight gauge, manual bleed	8 bar pressure release valve with decompression Plastic nut for panel mounting	Tank without sight gauge, manual bleed 8 bar pressure release valve with decompression Sold with plastic nut for panel mounting	Tank with oil mist sight gauge, standard viewing dome
Max. flow (dm3/s)	38	11	67	64	47
Dimensions h x width x depth (mm)	188 x 60 x 60	209 x 60 x 60	136 x 60 x 60	245 x 60 x 60	182 x 60 x 60
Weight (g)	280	320	410	530	310
Additional information	-	Place a particle filter upstream	Delivered without gauge: order separately	Delivered without gauge: order separately	-

	66148-67	65414-67	66144-67	66147-67	66149-67	66554-67
Description	Manifold block 4 tapped ports: inlet/outlet 3/4" - top 1/4" - bottom 1/2" Max. flow: 64 dm3/s Dimensions : h 48 x width 66 x depth 73mm Weight: 340 g	Double graduation gauge 0-20 bar. /0-285 PSI Weight 53 g	Wall connection/fixture bracket kit 1/2" with 2 O-rings for hole ø 22.1 mm	1/2" connection kit with 2 O-rings for hole ø 22.1 mm	Connection kit for 1/2" to 3/4" Must be ordered with 2 x 66147-67	Connection kit for 1/2" to 1/4" Must be ordered with 2 x 66147-67

P/N suffix: -67 = per unit

COMPRESSED AIR CONNECTORS

- Automatic sleeve couplers featuring a clamp attachment system: effortless connection and total tightness.
- Abrasion, shock, crushing and vibration resistant materials.
- Optimum flow adapted to all pneumatic tools thanks to contoured plug.
- Operating temperature: -15 to +70° C.

A first pull in the direction of the arrow allows decompression of the compressed air.

A second pull in the opposite direction allows the connector to disconnect safely.

Description	P/N	Tapping (Gas BSP)	Ø air passage (mm)	Flow (L./min.) at 6 Bar	Maxi operating pressure (bar)	Use
Threaded quick coupler	**65082-67**	G 1/4	6	883	16	
	66617-67	G 1/2	6	883	16	
	65090-67	G 1/2	11	4160	16	
	66739-67	G 3/4	11	4160	16	
Threaded quick Y-shaped double coupler	**66738-67**	G 1/2	6	883	16	

Description	P/N	Thread (Gas BSP)	Ø air passage (mm)	Flow (L./min.) at 6 Bar	Maxi operating pressure (bar)	Use
Threaded quick coupler	**65083-67**	G 1/4 teflon-coated	6	883	16	

Description	P/N	For hose int. Ø (mm)	Ø air passage (mm)	Flow (L./min.) at 6 Bar	Maxi operating pressure (bar)	Use
Grooved coupler	**65084-67**	6 - 7	6	883	16	
	66813-67	9	8	1800	16	
	66618-67	13	8	1800	16	
	65091-67	13	11	4160	16	

Miscellaneous

According to assemblies, use adaptor 65591-67 M1/4''-M1/4''(see page 227).

	65491-67	65578-67	65579-67
Description	Quick filter nipple for all air-hydraulic devices (except impact wrenches, see page 184) conical threaded G 1/4	360° bi-directional coupler. Keeps the hose straight and strain-free Improves handling and use of pneumatic tools and inflating gauges. F inlet: G 1/4 M outlet: G 1/4 Flow: 0 to 45 m3/h under 7 bar	Pre-set line regulator Mounted upstream of the pneumatic tool, the regulator adjusts the pressure to avoid an air over-consumption and an overpressure on tools. (except impact wrenches, see page 184) Inlet/Outlet F: G1/4 Maximum inlet pressure: 18 bar, outlet pressure: 8 bar Max. flow: 700 l/min

P/N suffix: -67 = per unit

COMPRESSED AIR CONNECTORS

Description	P/N	Tapping (Gas BSP)	Ø air passage (mm)	Flow (L./min.) at 6 Bar	Maxi operating pressure (bar)	Use
Internal threaded quick coupler	**65086-68**	G 1/4	6	883	16	
	65087-68	Michelin pitch with flat seal	6	883	16	

Description	P/N	Conical threaded (Gas BSP)	Ø air passage (mm)	Flow (L./min.) at 6 Bar	Maxi operating pressure (bar)	Use
External threaded quick coupler	**65088-67** **65088-68**	G 1/4 teflon-coated	6	883	16	
	66619-67	G 1/2 teflon-coated	8	1800	16	
	65093-67	G 1/2 teflon-coated	11	4160	16	
	65845-67	G 3/4 teflon-coated	11	4160	16	

Description	P/N	For hose int. Ø (mm)	Ø air passage (mm)	Flow (L./min.) at 6 Bar	Maxi operating pressure (bar)	Use
Grooved coupler	**65085-68**	6 - 7	6	883	16	
	66620-67	13	8	1800	16	
	66814-67	13	9	1800	16	
	65092-67	13	11	4160	16	
Grooved double junction coupler	**65270-67**	6 - 7	6	883	15	
	65780-67	12 - 13	11	4160	15	

Description	P/N	For hose int. Ø (mm)	Conical threaded (Gas BSP)	Ø air passage (mm)	Flow (L./min.) at 6 bar	Maxi operating pressure (bar)	Use
Grooved junction coupler	**65089-67** **65089-68**	6 - 7	G 1/4	6	883	15	
	65094-67 **65094-68**	13	G 1/2	11	4160	15	

Ear collars

	67244-68	**65095-68**	**65096-68**	**65097-68**	**67163-68**
For tube Ø ext. (mm)	13	16	20	27	29

P/N suffix: -67 = per unit -68 = per 10

THERE IS A SPECIFIC SCHRADER PRODUCT FOR EVERY KIND OF REPAIR

- According to the model of tyre to be repaired and up to 63"
- Depending on the kind of repair: puncture or injury

Several possibilities:

- PRP, plug repair patches "mushrooms"
- Patches
- All repair products (solution, cushion gum, filler compound…)
- Injury skiving tools, vulcanizing machines, bearing media, vulcanizers and special devices are presented in chapter 8

TECHNICAL SUPPORT AND TRAINING

- Our TRAINING CENTRE has been set up to provide our customers with the skills required to use Schrader products
- In particular in hot and cold cure tyre repair. Our training centre is approved for occupational training
- Approval n°. 43 25 01928 25

SDS

The **LABELLING SYMBOLS FOR HIGH-RISK PRODUCTS** are given for information purposes only. The products are liable to change and their safety sheets are at your disposal.
We recommend wearing gloves and protective goggles when executing repairs.

CE

Aware of the changes in the law and to the "C.M.R." decree, Schrader is offering chlorinated and aromatic hydrocarbon free products that comply with the "REACH" regulation.
Our patches comply with repair standards ECE-R108 and R109.

STORAGE OF PARTS:

To maintain the expiry dates, store the parts, products and solutions:

- In a clean dry place
- Away from sunlight and heat

- Recommended temperature: between 15 and 30° C (save specific product info)

Keep the containers closed

- Complete repair instructions can be found in the box or on request
- Follow the corresponding fitting and application instructions to make repairs according to professional practice codes, i.e. adhering to reparability criteria and performing each operation according to a well defined procedure, whatever the repair

PATCHES AND REPAIR PRODUCTS FOR TYRES AND TUBES

- PRC: Tube repair parts 110
- PRP: Tyre repair parts ("mushrooms" type) 112
- PRF: Parts for cold tyre repair 114
- TRP: Plugs for cold tyre repair 115
- SR: Patches for radial tyre repair 116
- SRR: Retread patches for radial tyre repair 120
- SD and SD-GC: Patches for bias tyre repair 122
- EMX-SL: Patches for earthmover tyre repair 126
- Emergency repair inserts 128
- Solutions for patches and brushes 129
- Miscellaneous repair products 130
- Rubbers and talc 131
- Material for rubbers 132
- SLIME* range: Sealing liquid, emergency repair 133

*SLIME, protected trade mark

PRC
TUBE REPAIR PARTS

• PRC expiry date: 5 years after date of manufacture.
• Once the repair is complete, powder the part with talc to prevent the PRC sticking to the tyre (see talc, page 131).

Box of parts

	Dimensions of parts (mm)	Quantity per box					
			Round patches				
66260-67	Ø 25	100	X				
66261-67	Ø 30	100		X	X		
66262-67	Ø 34	30		X	X		
66263-67	Ø 43	30		X	X		
66264-67	Ø 50	30			X	X	X
66265-67	Ø 80	30			X	X	X
66266-67	Ø 94	10				X	X
66267-67	Ø 116	10				X	X
			Oval patches				
66268-67	47 x 25	100	X				
66269-67	74 x 37	30		X	X		
66270-67	90 x 47	30		X	X		
66271-67	147 x 79	10				X	X
66272-67	186 x 94	10				X	X

Solutions and tools

• Solution expiry date QUARTZ: 2 and a half years after date of manufacture.
• Stir the solution before use.

R-5027-1	R-5028-1	66315-67	66317-67	66316-67	66381-67	66382-67
Wire brush	Stitcher roller	Tin of **QUARTZ** solution 235 ml SDS	Set 235 ml tin **QUARTZ** 66315-67 + topbrush 66381-67 SDS	Tin of **QUARTZ** solution 945 ml SDS	Topbrush for 235 ml tin	Topbrush for 945 ml tin

P/N suffix: -67 (PRC) = per box -1 or -67 (Tools/Solution) = per unit

PRC
TUBE REPAIR PARTS

Choose the repair part according to the size of the injury on the tube.

PRP
TYRE REPAIR PARTS

PRP 3 - PRP 4,5 - PRP 6 - PRP 8 - PRP 10

Dismount then mark the hole on the inside.

Measure the injury to choose the correct PRP. Drill out the puncture to size from the inside, at the correct angle. (Tool turns at between 1500 and 5000 revs/min max).

Lightly buff, until curring-bladder pattern disappears and remove dust. (Tool turns between 1500 and 5000 rev/min max).

Spread the solution over the buffed area. Leave 5 mins to dry. Put a drop of solution in the hole's channel.

Remove the protective foil without touching the adhesive surface.

Pull outwards steadily.

Roll down the patch from the centre outwards.

After remounting and inflating, cut (without pulling). (On the sidewall, leave 1 or 2 mm for rivet consolidation effect).

RAPID AND RELIABLE REPAIR:
- Specially designed for punctures made by nails, screws, bolts... even in the tyre sidewall.
- The tyre must be dismounted to assess its condition and suitability for repair.
- Repair from the inside of the tyre. This is the only way of ensuring a quality reliable and safe repair.
- Structure of tyre protected against moisture optimising the possibilities of retreading.
- PRP range adapted for all types of tyre according to the table below.
- Total compatibility with all Michelin tyres.
- Quick and easy repair. Efficient, permanent and immediately ready for further service (Number of repairs allowed per tyre is not limited except for motorcycles).

A: Tread
NR: Non-repairable area

B: Sidewall

- (1) Up to "V" speed symbol inclusive for 2 repairs maxi.
  (2) Up to "T" speed symbol inclusive.
- In any case, conform to local legislation that can be different in each country.

	USE MICHELIN TYRES		BIAS-PLY						RADIAL-PLY									
			A			B			A					B				
			PRP 3	PRP 6	PRP 10	PRP 3	PRP 6	PRP 10	PRP 3	PRP 4,5	PRP 6	PRP 8	PRP 10	PRP 3	PRP 4,5	PRP 6	PRP 8	PRP 10
(1)	Scooter 10'' (Zone T)		X						X									
(1)	Motorbike & scooter (Zone T)		X	X (1)					X	X(1)	X(1)							
(2)	Passenger car		X	X		X	X		X	X	X			X(2)				
(2)	Van & 4x4		X	X		X	X		X	X	X			X(2)				
(2)	Truck								X	X	X	X	X	X				
(2)	Farm		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
(2)	Road works & Earthmover								X	X	X	X	X	Use of PRP not recommended				
(2)	Handling & cranes								X	X	X							
(2)	Double X Type F								X	X	X	X	X					
(2)	XM27/37 A2 B & A8								X	X	X	X	X					

SCHRADER
Pressure to perfection

PRP
TYRE REPAIR PARTS

Box of parts

- Parts also recommended for RUN-FLAT tyres.
- PRP expiry date: 3 years after date of manufacture.

	S-4953-8	42866-67 (1) 42903-67 (2)	S-4956-8 (1) 42392-67 (2)	42868-67	S-4955-8
ø parts (mm)	3	4,5	6	8	10
Quantity per box	40	40 (1) 80 (2)	24 (1) 48 (2)	12	10

Repair kits

S-4252-8 Mini kit

24 PRP Ø 6 mm
Solution: 5 x 20 ml
1 Angular milling cutter Ø 6 mm

S-4958-8 Kit

40 PRP Ø 3 mm
24 PRP Ø 6 mm
Solution: 10 x 20 ml
1 Angular milling cutter Ø 3 mm
1 Angular milling cutter Ø 6 mm
1 spherical rasp
1 roller

Solutions and tools

- **SAPHIR** solution expiry date:
2 years after date of manufacture.
- Detailed instructions provided inside each box and with each kit or supplied on request.

Angular milling cutters	Ø (mm)	plug
S-4946-1	3	3
65580-67	4,5	6
S-4947-1	6	6
65581-67	8	6
S-4954-1	10	8

S-4394-1	R-5028-1	S-4933-1 S-4933-9	S-4948-1 S-4948-0
Spherical rasp ø 40, 6 mm plug	Stitcher roller	Tube of solution **SAPHIR** 20 ml MICHELIN SDS	Tube of solution **SAPHIR** 100 ml MICHELIN SDS

Stem (mm)	3	4,5	6	8	10
F. adaptor for conventional quick coupling	65446-67	65818-67	65308-67	65447-67	65448-67
F. adaptor for metric quick coupling	65476-67	65746-67	67250-67	65427-67	65428-67

PRF
COLD REPAIR FOR RADIAL AND BIAS TYRES

- Use **JADE** chemical vulcanizing solution
- PRF expiry date:
5 years after date of manufacture.

Solution page 129

Box of parts

	Dimensions of parts (mm)	Quantity per box
66200-67	Ø 35	100
66201-67	Ø 35	500
66202-67	Ø 40	100
66203-67	45 x 45	50
66204-67	45 x 45	500
66205-67	60 x 60	50
66206-67	60 x 60	500
66207-67	69 x 69	50

TYRE USE	Tyre speed symbol	T =ø (mm) max TREAD injury prepared	PRF Ø 35mm	PRF Ø 45mm	PRF Ø 60mm	PRF Ø 69mm	Max number of repairs
	<J	3	X				2
		4.5		X			2
		6 (max)			X		2
	J<V	3 (max)	X				1
	<H	3	X				Unlimited
		4.5		X			Unlimited
		6			X		Unlimited
	H, V, Z	3	X				1
		4.5		X			1
		6 (max)			X		1
		4.5			X		Unlimited
		6			X		Unlimited
		8				X	Unlimited

- Tread repairs only.
- Speed code restrictions:
comply with local laws that can be different in each country.

P/N suffix: -67 = per box

TRP
TYRE REPAIR PLUGS FOR RADIAL AND BIAS TYRES

Box of parts

	For hole (ø mm)	Plug (ø mm)	Quantity
66350-67	6	7	20
66351-67	8	10	20
66352-67	10	11	20
66353-67	13	17	20

- Radial and bias tyre tread repairs.
- Shoulder and sidewall repairs possible in some cases.
Comply with local laws, which can be different in each country.
- TRP are covered with self-vulcanizing gum.
- Always reinforce the repair using a PRF or a patch (two-part repair).
- If the angle of the injury is over 25°, use a TRP instead of a PRP and make a two-part repair.
- The TRP's diameter is larger than the hole's, allowing compression, which guarantees a durable repair.
- Refer to the repair tables for the PRF or patches used.
- TRP expiry date: 3 years after date of manufacture.

- Remove the blue protection strip from the part before placing it.
- Use the JADE cold solution.
- Use air buffer maxi speed 1200 rev/min page 141.

TYRE USE	Tyre speed symbol	T=ø (mm) max prepared TREAD injury	TRP	PRF or patch	Max no. of repairs
	<J	6	**66350-67**	**66205-67**	2
	<H	6	**66350-67**	**66205-67**	Unlimited
	H, V, Z	6	**66350-67**	**66205-67**	1
		6	**66350-67**	**66207-67**	Unlimited
		8	**66351-67**		Unlimited
		10	**66352-67**		Unlimited
		13	**66353-67**	See patch table	Unlimited

Angular milling cutters and bell cutter

S-4947-1	65581-67	S-4954-1	66360-67
Angular milling cutter Ø 6 mm, plug 6 for 66350-67	Angular milling cutter Ø 8 mm, plug 6 for 66351-67	Angular milling cutter Ø 10 mm, plug 8 for 66352-67	Bell cutter ø 13 with drill guide and plug 6 for 66353-67

Solution page 129

Stem (mm)	6	8	10
F. adaptors for conventional quick coupling	**65308-67**	**65447-67**	**65448-67**
F. adaptors for metric quick coupling	**67250-67**	**65427-67**	**65428-67**

P/N suffix -67 (TRP) = per box -1 or -67 (Tools) = per unit

S.R.
PATCHES FOR RADIAL TYRES

- For cold or hot Vulcanization.
- For tread, shoulder and sidewall injuries: centre of injury = centre of patch.
- <=>The direction of the arrow printed on the patch indicates the radial bead to bead direction.

	Description	Dimensions of parts (mm) W. x L.	Number of plies	Quantity per box					
66220-67	SR110	65x80	1	20	X	X	X		
66221-67	SR112	70x115	1	10	X	X	X	X	
66222-67	SR114	75x145	1	10	X				
66223-67	SR115	75x90	1	20			X	X	
66224-67	SR120	75x125	2	10		X	X	X	
66225-67	SR122	75x165	2	10		X	X	X	
66226-67	SR124	75x215	2	10		X	X		
66227-67	SR125	100x125	3	10		X	X		
66228-67	SR126	75x250	3	10		X	X	X	
66229-67	SR128	75x330	3	10			X		
66230-67	SR135	125x170	4	10			X		
66231-67	SR140	100x200	3	10		X	X		
66232-67	SR142	125x250	4	5			X		X
66233-67	SR144	125x330	4	5			X		X
66234-67	SR145	195x230	4	5					X
66235-67	SR180	150x195	2	5				X	
66236-67	SR182	190x250	3	5				X	
66237-67	SR184	215x290	3	5				X	
66238-67	SR186	245x340	3	5				X	
66239-67	SR146	140x405	4	5			X		X
66240-67	SR150	190x500	5	3					X
66241-67	SR152	250x570	5	3					X
66242-67	SR155	260x330	5	3					X
66243-67	SR156	255x755	7	3					X
66244-67	SR160	265x860	7	3				X	X
66245-67	SR162	325x1030	7	1					X
66246-67	SR165	330x420	6	3					X
66247-67	SR168	345x760	7	3					X
66248-67	SR175	450x535	8	1					X
66249-67	SR185	530x730	8	1					X

- Parts also recommended for RUNFLAT tyres (according to recommendations in table).
- Use the **JADE** vulcanizing solution.
- Hot: use the **BLACK CEMENT** solution.
- SR patch expiry date: 5 years after date of manufacture.
- Detailed instructions provided inside each box.
- See REP marking page 157.

Solutions page 129

P/N suffix: -67 = per box

S.R.
PATCHES FOR RADIAL TYRES

DB NON-REPAIRABLE AREA			
	40mm (1½")		
		14.00-16.00 (15.5-17.5)	75mm (3")
6.50-7.00 (165-195)	65mm (2½")	18.00-24.00 (20.5-29.5)	125mm (5")
7.50-16.00 (205-385)	75mm (3")	27.00-33.00 (33.25-37.5)	150mm (6")
17.5-23.5 (425-600)	90mm (3½")	40/65-50/65 (40.5)	170mm (6 ¾")
		36.00	200mm (8")
		37.00-40.00 ≥50.5)	255mm (10")

Maximum prepared injury limits			Tyres to be repaired	
S		T ØC	<=T	H, V, W, Y, & Z, Run-Flat
A	R			
		6mm (¼")	66220-67#	66220-67*
6mm (¼")	13mm (½")		66220-67	
13mm (½")	40mm (1½")	13mm (½")	66221-67#	
13mm (½")	50mm (2")		66222-67	
20mm (¾")	20mm (¾")	20mm (¾")	66603-67#	
20mm (¾")	40mm (1½")		66221-67	
20mm (¾")	50mm (2")		66222-67	
25mm (1")	40mm (1½")	25mm (1")	66222-67#	
25mm (1")	50mm (2")		66222-67	

Fig.1

D-B: Non-repairable area
C: Maximum diameter of damaged radial cords
A: Width of injury
R: Length of injury
H: Shoulder
T: TREAD

Fig.2

T: Tread
S: Sidewall
H: Shoulder
B-D: Non-repairable area

Note: The dimensions in the table are in metric and imperial.
* TREAD ONLY
# TREAD OR SIDEWALL
◊TREAD, SHOULDER OR SIDEWALL
(1) This table is only a guide. Increase the patch by one size for tyres used in difficult conditions.
(2) This table is only a guide.
Load, speed and motorway use can affect the performance of the repairs.

(1) see above

Maximum prepared injury limits				Tyres to be repaired		
S		H ØC	T ØC	8.-11 8.3-12.4	12.-15 13.6-23.5 440/65-600/65	24.5-30.5 620/75-1050/50
A	R					
			10mm(⅜")	66221-67 or 66223-67	66221-67 or 66223-67	66224-67
		10mm(⅜")		66224-67	66224-67	66225-67
6mm(¼") 10mm(⅜") 10mm(⅜") 10mm(⅜")	6mm(¼") 10mm(⅜") 40mm(1½") 125mm(5")			66221-67 66221-67 66224-67 66228-67	66221-67 66221-67 66224-67 66228-67	66224-67 66224-67 66225-67 66228-67
			20mm(¾")	66224-67	66224-67	66225-67
		20mm(¾")		66225-67	66235-67	66235-67
20mm(¾") 20mm(¾")	20mm(¾") 75mm(3")			66224-67 66225-67	66224-67 66235-67	66225-67 66235-67
			40mm(1½")	66235-67	66236-67	66236-67
		40mm(1½")		66235-67	66236-67	66236-67
40mm(1½")	100mm(4")			66235-67	66236-67	66236-67
		50mm(2")		66236-67	66237-67	66237-67
50mm(2")	80mm(3⅛")			66235-67	66236-67	66237-67
65mm(2½") 65mm(2½")	75mm(3") 100mm(4")			66235-67	66236-67 66236-67	66237-67 66237-67
			70mm(2¾")		66236-67	66237-67
		70mm(2¾")			66238-67	66238-67
80mm(3⅛") 80mm(3⅛")	80mm(3⅛") 130mm(5¼")				66236-67 66237-67	66237-67 66238-67
			90mm(3½")		66237-67	66238-67
90mm(3½")	115mm(4½")				66237-67	66238-67
			100mm(4")		66237-67	66238-67
100mm(4") 100mm(4")	100mm(4") 165mm(6½")				66237-67 66238-67	66238-67 66238-67
			125mm(5")		66238-67	66238-67
125mm(5")	125mm(5")				66238-67	66238-67

S.R.
PATCHES FOR RADIAL TYRES

- Detailed instructions provided inside each box.
- Follow the corresponding fitting and application instructions when carrying out repairs.

Compliant with repair Standards ECE-R108 and R109.

(2) see info						
Maximum prepared injury limits				Tyres to be repaired		
S		H Ø C	T Ø C	6.50-12.50	7.50-10.00	11.00 -14.00
A	R			7-10 215/85-255/85 215/75-265/75	8-11 235/80-275/80 245/75-295/75	12-16.5 295/80-315/80 305/75-445/65 425/50-495/45
			6mm (¼")	66220-67*	66220-67*	66220-67*
		6mm (¼")		66224-67	66226-67	66226-67
6mm (¼") 6mm (¼") 6mm (¼") 6mm (¼") 6mm (¼")	6mm (¼") 40mm (1½") 80mm (3⅛") 120mm (4¾") 150mm (6")			66220-67 66224-67 66225-67	66224-67 66224-67 66225-67 66226-67 66228-67	66224-67 66224-67 66225-67 66226-67 66229-67
			8mm (5/16")	66221-67*	66221-67* ou 66223-67*	66221-67*ou 66223-67*
		8mm (5/16")		66225-67	66226-67	66226-67
8mm (5/16") 8mm (5/16") 8mm (5/16") 8mm (5/16") 8mm (5/16")	8mm (5/16") 20mm (¾") 40mm (1½") 60mm (2⅜") 130mm (5⅛")			66221-67 66224-67 66224-67 66225-67	66224-67 66224-67 66225-67 66226-67 66228-67	66224-67 66225-67 66225-67 66226-67 66228-67 66229-67
			10mm (⅜")	66224-67*ou 66223-67*	66224-67*	66224-67*
		10mm (⅜")		66226-67	66226-67	66226-67
10mm (⅜") 10mm (⅜") 10mm (⅜") 10mm (⅜")	40mm (1½") 60mm (2⅜") 80mm (3⅛") 130mm(5⅛")			66224-67 66225-67 66228-67	66228-67 66228-67 66228-67 66232-67	66231-67 66231-67 66232-67 66233-67
			13mm (½")	66225-67#	66227-67*	66227-67*
		13mm (½")		66231-67	66231-67	66231-67
13mm (½") 13mm (½") 13mm (½") 13mm (½")	40mm (1½") 70mm (2¾") 95mm (3¾") 130mm(5⅛")			66225-67# 66225-67 66231-67	66231-67# 66231-67 66232-67 66233-67	66231-67# 66232-67 66232-67 66233-67
			20mm (¾")	66225-67#	66227-67*	66230-67*
		20mm (¾")		66231-67	66232-67	66232-67
20mm (¾") 20mm (¾") 20mm (¾") 20mm (¾")	25mm (1") 65mm (2½") 110mm (4⅜") 130mm (5⅛")			66225-67# 66226-67	66231-67# 66232-67 66232-67 66233-67	66231-67 66232-67# 66233-67 66233-67
			25mm (1")	66227-67*	66230-67*	66230-67*
		25mm (1")			66233-67	66233-67
25mm (1") 25mm (1") 25mm(1")	50mm (2") 80mm (3⅛") 100mm (4")			66231-67#	66232-67# 66232-67 66233-67	66233-67# 66233-67 66233-67
			32mm (1¼")		66230-67*	66230-67*
32mm (1¼") 32mm (1¼") 32mm (1¼")	50mm (2") 80mm (3⅛") 100mm (4")				66232-67# 66233-67	66233-67# 66233-67 66239-67
			40mm (1½")		66230-67* 66233-67#	66230-67*
40mm (1½") 40mm (1½")	50mm (2") 75mm (3")					66233-67# 66239-67

S.R.
PATCHES FOR RADIAL TYRES

(1) see info

Maximum prepared injury limits			Tyres to be repaired				Maximum prepared injury limits
S		H					T Ø C
A (mm)	R (mm)	ø mm	14.00-16.00 15.5-20.5 20/65-30/65	18.00-21.00 23.5-26.5 35/65	24.00-30.00 29.5-37.5 40/65-45/65	33.00-40.00 46/90-59/80 50/65-65/65	
10mm (⅜")	75mm (3")		66232-67◊	66232-67◊	66232-67◊	66233-67◊	10mm (⅜")
10mm (⅜")	110mm (4⅜")		66232-67	66232-67	66233-67	66233-67	
20mm (¾")	50mm (2")		66234-67*	66234-67*	66234-67*	66234-67*	20mm (¾")
20mm (¾")	140mm (5½")		66232-67	66233-67	66233-67	66240-67	
20mm (¾")	200mm (8")		66239-67◊	66239-67◊	66239-67◊	66240-67◊	
		20mm (¾)	66239-67	66240-67	66240-67	66240-67	
			66239-67	66240-67	66240-67	66241-67	
25mm (1")	125mm (5")		66234-67*	66234-67*	66234-67*	66234-67*	25mm (1")
25mm (1")	200mm (8")		66239-67◊	66239-67◊	66239-67◊	66240-67◊	
		25mm (1")	66240-67	66240-67	66240-67	66241-67	
			66239-67	66240-67	66241-67	6624167	
30mm (1¼")	100mm (4")		66239-67	66240-67	66240-67	66240-67	
30mm (1¼")	250mm (10")		66240-67	66240-67	66241-67	66243-67	
40mm (1½")	90mm (3½")		66234-67*	66234-67*	66242-67*	66242-67*	40mm (1½")
40mm (1½")	250mm (10")		66239-67◊	66240-67◊	66241-67◊	66241-67◊	
40mm (1½")	350mm (14")		66240-67	66240-67	66241-67	66243-67	
40mm (1½")	400mm (16")		66243-67	66243-67	66243-67	66244-67	
		40mm (1½")		60	66244-67	66244-67	
			66240-67	66240-67	66241-67	66243-67	
45mm (1¾")	165mm (6½")		66240-67	66240-67	66241-67	66241-67	
45mm (1¾")	250mm (10")		66241-67	66241-67	66241-67	66243-67	
45mm (1¾")	350mm (14")			66243-67	66243-67	66244-67	
45mm (1¾")	400mm (16")			66244-67	66244-67	66244-67	
50mm (2")	175mm (7")		66242-67*	66242-67*	66242-67*	66242-67*	50mm(2")
50mm (2")	250mm (10")		66240-67◊	66241-67◊	66241-67◊	66241-67◊	
50mm (2")	350mm (14")		66241-67	66241-67	66241-67	66243-67	
50mm (2")	400mm (16")			66243-67	66243-67	66244-67	
50mm (2")	400mm (19")			66244-67	66244-67	66244-67	
					66244-67	66244-67	
		50mm (2")	66240-67	66241-67	66243-67	66243-67	
70mm (2¾")	200mm (8")		66242-67*	66246-67*	66246-67*	66246-67*	70mm (2¾")
70mm (2¾")	250mm (10")		66241-67◊	66241-67◊	66241-67◊	66243-67◊	
70mm (2¾")	340mm (13½")			66243-67	66243-67	66244-67	
					66244-67	66244-67	
		65mm (2½") 70mm (2¾")	66243-67	66243-67	66247-67	66247-67	
				66243-67	66247-67	66247-67	
90mm (3½")	175mm (7")		66241-67		66248-67*	66248-67*	90mm (3½")
90mm (3½")	200mm (8")			66241-67	66243-67	66243-67	
90mm (3½")	250mm (10")			66241-67	66243-67	66247-67	
90mm (3½")	315mm (12½")			66243-67	66243-67	66247-67	
		90mm (3½")		66243-67◊	66244-67◊	66244-67◊	
				66243-67	66244-67	66244-67	
100mm (4")	140mm (5½")		66241-67	66241-67	66241-67	66243-67	
100mm (4")	190mm (7½")			66243-67	66243-67	66247-67	
100mm (4")	265mm (10½")				66244-67	66244-67	
110mm (4⅜")	125mm (5")		66241-67	66241-67	66243-67	66243-67	
110mm (4⅜")	175mm (7")			66243-67	66247-67	66247-67	
110mm (4⅜")	250mm (10")				66244-67	66244-67	
110mm (4⅜")	115mm (4½")		66241-67	66241-67	66243-67	66243-67	
110mm (4⅜")	150mm (6")			66243-67	66244-67	66244-67	
110mm (4⅜")	225mm (9")				66244-67	66244-67	
125mm (5")	100mm (4")				66248-67*	66248-67*	125mm (5")
125mm (5")	125mm (5")			66247-67◊			
125mm (5")	175mm (7")			66244-67	66247-67◊	66247-67◊	
					66244-67	66244-67	
					66244-67	66244-67	
125mm (5")	75mm (3")			66247-67	66247-67	66247-67	
125mm (5")	140mm (5½")				66247-67	66247-67	
165mm (6½")	125mm (5")				66249-67*	66249-67*	165mm (6½")
					66247-67	66247-67	

S.R.R.
RETREAD PATCHES FOR RADIAL TYRES

- Sidewall, shoulder and tread injuries: centre of injury = centre of patch.
- <=>The direction of the arrow printed on the patch indicates the radial bead to bead direction.

	Description	Dimensions of parts (mm) W. x L.	Quantity per box			
66330-67	SRR01	65	50	X	X	X
66331-67	SRR10	65x80	10		X	X
66332-67	SRR12	70x115	10		X	X
66333-67	SRR14	75x145	10	X		
66334-67	SRR20	75x125	10		X	X
66335-67	SRR22	75x165	10		X	X
66336-67	SRR24	75x215	10		X	X
66337-67	SRR26	75x250	10		X	X
66338-67	SRR33	100x125	10		X	X
66339-67	SRR35	125x150	10			X
66340-67	SRR37	125x170	5			X
66341-67	SRR40	100x200	10		X	X
66342-67	SRR40A	100x200	10		X	X
66343-67	SRR42	125x250	5			X
66344-67	SRR42A	125x250	5			X
66345-67	SRR44	125x330	5			X
66346-67	SRR44A	125x330	5			X

The suffix A in the description indicates that the product is Aramide reinforced for increased strength, flexibility and performance

- Cold: use the **JADE** vulcanizing solution.
- Hot: use the **BLACK CEMENT** solution.
- SRR patch expiry date: 2 years after date of manufacture.
- Detailed instructions provided inside each box.
- See REP marking page 157.

Solutions page 129

P/N suffix: -67 = per box

S.R.R.
RETREAD PATCHES FOR RADIAL TYRES

Fig.1

D-B: Non-repairable area
C: Maximum diameter of damaged radial cords
A: Width of injury
R: Length of injury
H: Shoulder
T: Tread

Fig.2

T: Tread
S: Sidewall
H: Shoulder
B-D : Non-repairable area

DB NON-REPAIRABLE AREA	
	40mm (1½")
6.50-7.00 (165-195)	65mm (2½")
7.50-16.00 (205-385)	75mm (3")
17.5-23.5 (425-600)	90mm (3½")

- Detailed instructions provided inside each box.
- Follow the corresponding fitting and application instructions.

CE Compliant with repair Standards ECE-R108 and R109.

Maximum prepared injury limits				Tyres to be repaired		
S		H Ø C	T Ø C	6.50-12.50	7.50-10.00	11.00-14.00
A	R			7-10 215/85-255/85 215/75-265/75	8-11 235/80-275/80 245/75-295/75	12-16.5 295/80-315/80 305/75-445/65 425/50-495/45
		6mm (¼")	6mm (¼")	66330-67*ou 66331-67*	66330-67* ou 66331-67*	66330-67* ou 66331-67*
				66334-67	66336-67	66336-67
6mm (¼") 6mm (¼") 6mm (¼") 6mm (¼") 6mm (¼")	6mm (¼") 40mm (1½") 80mm (3⅛") 120mm (4¾") 150mm (6")			66331-67 66334-67 66335-67	66334-67 66334-67 66335-67 66334-67 66337-67	66334-67 66334-67 66335-67 66334-67 66337-67
		8mm (5/16")	8mm (5/16")	66330-67* ou 66332-67*	66330-67* ou 66332-67*	66330-67* ou 66332-67*
				66335-67	66336-67	66336-67
8mm (5/16") 8mm (5/16") 8mm (5/16") 8mm (5/16") 8mm (5/16")	8mm (5/16") 20mm (¾") 40mm (1½") 60mm (2⅜") 130mm (5⅛")			66332-67 66334-67 66334-67 66335-67	66334-67 66334-67 66335-67 66336-67 66337-67	66334-67 66335-67 66336-67 66337-67 66337-67
		10mm (⅜")	10mm (⅜")	66334-67*	66334-67*	66334-67*
				66336-67	66336-67	66336-67
10mm (⅜") 10mm (⅜") 10mm (⅜") 10mm (⅜")	40mm (1½") 60mm (2⅜") 80mm (3⅛") 130mm (5⅛")			66334-67 66335-67 66337-67	66337-67 66337-67 66337-67 66343-67◊	66341-67◊ 66341-67◊ 66343-67◊ 66345-67◊
		13mm (½")	13mm (½")	66335-67#	66338-67*	66338-67*
				66341-67◊	66341-67◊	66341-67◊
13mm (½") 13mm (½") 13mm (½") 13mm (½")	40mm (1½") 70mm (2¾") 95mm (3¾") 130mm (5⅛")			66335-67# 66335-67	66341-67◊ 66343-67◊ 66343-67◊ 66345-67◊	66341-67◊ 66343-67◊ 66343-67◊ 66345-67◊
		20mm (¾")	20mm (¾")	66335-67#	66338-67*	66339-67*
				66341-67◊	66343-67◊	66343-67◊
20mm (¾") 20mm (¾") 20mm (¾") 20mm (¾")	25mm (1") 65mm (2½") 110mm (4⅜") 130mm (5⅛")			66335-67# 66336-67	66341-67#◊ 66343-67◊ 66343-67◊ 66345-67◊	66341-67◊ 66343-67#◊ 66345-67◊ 66345-67◊
		25mm (1")	25mm (1")	66338-67*	66339-67*	66340-67*
					66345-67◊	66345-67◊
25mm (1") 25mm (1") 25mm (1")	50mm (2") 80mm (3⅛") 100mm (4")			66341-67#	66343-67#◊ 66343-67◊ 66345-67◊	66345-67#◊ 66345-67◊ 66345-67◊
			32mm (1¼")		66339-67*	66340-67*
32mm (1¼") 32mm (1¼") 32mm (1¼")	50mm (2") 80mm (3⅛") 100mm (4")				66343-67#◊ 66345-67◊	66345-67#◊ 66345-67◊
			40mm (1½")		66340-67*, 66345-67#◊	66340-67*
40mm (1½") 40mm (1½")	50mm (2") 75mm (3")					66345-67#◊

Note: The dimensions in the table are in metric and imperial.
* TREAD ONLY
# TREAD OR SIDEWALL
◊ SRR40A (66342-67), SRR42A(66344-67) & SRR44A(66346-67) can replace standard patches SRR40, SRR42 & SRR44.
(1) This table is only a guide. Load, speed and motorway use can affect the performance of the repairs.

S.D. / S.D-GC
PATCHES FOR BIAS TYRES

- Sidewall, shoulder and tread injuries:
  centre of injury = centre of patch (except for SD1 and SD2).
- <=>The direction of the arrow printed on the patch indicates the radial bead to bead direction.

SD

SD-GC

	Description	Dimensions of parts (mm) W. x L.	Number of plies	Quantity per box					
				Car, truck, farm vehicle					
66280-67	SD1	55x55	1	30	X	X	X		
66281-67	SD2	70x70	1	20	X	X	X		
66282-67	SD3	100x100	2	10	X	X	X	X	X
66283-67	SD4	130x130	4	10	X	X	X	X	X
66284-67	SD5	165x165	4	10	X	X	X	X	X
66285-67	SD5S	165x165 sidewall	4	10	X	X	X	X	X
66286-67	SD6	240x240	6	5	X	X	X	X	X
66287-67	SD6S	240x240 sidewall	6	5	X	X	X	X	X
66288-67	SD7	290x290	6	5	X	X	X	X	X
66289-67	SD8	335x335	6	5	X	X	X	X	X
66290-67	SD9	380x380	8	3	X	X	X	X	X
66291-67	SD10	430x430	8	3	X	X	X	X	X
				Earthmovers					
66292-67	SD-GC1	180x180	2	10					X
66293-67	SD-GC2	205x205	4	10					X
66294-67	SD-GC3	230x230	4	5					X
66295-67	SD-GC4	285x285	6	5					X
66296-67	SD-GC5	340x340	6	5					X
66297-67	SD-GC6	380x380	6	3					X
66298-67	SD-GC7	430x430	8	1					X
66299-67	SD-GC8	480x480	8	1					X
66300-67	SD-GC9	530x530	10	1					X
66301-67	SD-GC10	585x585	10	1					X
66302-67	SD-GC11	620x620	10	1					X

- Cold: use the **JADE** vulcanizing solution.
- Hot: use the **BLACK CEMENT** solution.
- SR patch expiry date: 5 years after date of manufacture.
- Detailed instructions provided inside each box.
- See REP marking page157.

Solutions, page 129

P/N suffix: -67 = per box

S.D. / S.D-GC
PATCHES FOR BIAS TYRES

Fig.1

D-B: Non-repairable area
C: Maximum diameter of tread, shoulder and sidewall injuries
H: Shoulder
T: Tread

Compliant with repair Standards ECE-R108 and R109.

- Detailed instructions provided inside each box.
- Follow the corresponding storage, fitting and application instructions.

Fig.2

T: Tread
S: Sidewall
H: Shoulder
B-D: Non-repairable area

	DB
7.00-8.75	80mm (3 ⅛ ")
9.00-14.00	100mm (4")
16.00-18.00	125mm (5")
21.00-27.00	150mm (6")
	DB
14.9-20.8 (215-520)	100mm (4")
23.1-23.1+(600-600+)	125mm (5")

(1) see info

Ø C Prepared injury limits T,H &S (2) see info

Tyre plies \ mm / inches	6	8	10	15	20	25	40	50	65	75	100	125	150
	¼"	5/16"	⅜"	½"	¾"	1"	1½"	2"	2½"	3"	4"	5"	6"
4(B)	66280-67	66281-67	66281-67	66282-67	66282-67	66282-67	66283-67	66284-67					
6 (C)	66280-67	66281-67	66281-67	66282-67	66282-67	66282-67	66283-67	66284-67	66286-67				
8 (D)	66280-67	66281-67	66282-67	66282-67	66282-67	66283-67	66283-67	66284-67	66286-67				
10 (E)	66280-67	66281-67	66282-67	66282-67	66282-67	66283-67	66284-67	66286-67	66286-67	66288-67	66289-67		
12 (F)	66280-67	66281-67	66282-67	66283-67	66283-67	66283-67	66284-67	66286-67	66286-67	66288-67	66289-67		
14 (G)	66280-67	66281-67	66282-67	66283-67	66283-67	66284-67	66286-67	66286-67	66288-67	66288-67	66289-67	66291-67	
16 (H)	66280-67	66281-67	66283-67	66283-67	66284-67	66284-67	66286-67	66286-67	66288-67	66288-67	66289-67	66291-67	
18 (J)	66280-67	66281-67	66283-67	66284-67	66284-67	66286-67	66286-67	66288-67	66289-67	66289-67	66290-67	66291-67	
20 (L)	66280-67	66281-67	66283-67	66284-67	66284-67	66286-67	66288-67	66289-67	66289-67	66290-67	66290-67	66291-67	
22 (M)	66280-67	66281-67	66283-67	66286-67	66286-67	66288-67	66289-68	66289-67	66289-67	66290-67	66291-67		
24 (N)	66280-67	66281-67	66283-67	66286-67	66286-67	66288-67	66289-69	66289-67	66289-67	66290-67	66291-67		

Ø C Prepared injury limits T,H &S (3) see info — Ø C Prepared injury limits T

Tyre plies \ mm / inches	13	25	40	50	65	75	100	125	150	175	200	225	250	275	300
	½"	1"	1½"	2"	2½"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
6-8	66292-67	66293-67	66293-67	66293-67	66293-67	66294-67									
10-12	66292-67	66293-67	66293-67	66293-67	66293-67	66294-67	66295-67								
14-16	66292-67	66293-67	66293-67	66294-67	66294-67	66295-67	66295-67	66295-67	66296-67						
18-20	66293-67	66293-67	66293-67	66294-67	66294-67	66295-67	66295-67	66296-67	66296-67	66297-67					
22-24	66293-67	66293-67	66293-67	66294-67	66294-67	66295-67	66296-67	66296-67	66297-67	66298-67	66298-67	66299-67			
26-28	66293-67	66293-67	66294-67	66294-67	66295-67	66296-67	66296-67	66297-67	66298-67	66298-67	66299-67	66299-67	66300-67	66300-67	66301-67
30-36	66293-67	66293-67	66294-67	66294-67	66295-67	66296-67	66297-67	66297-67	66298-67	66299-67	66300-67	66300-67	66300-67	66301-67	66301-67
38-44	66293-67	66293-67	66294-67	66294-67	66295-67	66297-67	66297-67	66298-67	66299-67	66299-67	66300-67	66300-67	66301-67	66301-67	66301-67
46-50	66293-67	66294-67	66295-67	66295-67	66296-67	66297-67	66298-67	66299-67	66299-67	66300-67	66301-67	66301-67	66302-67	66302-67	66302-67
52-58	66294-67	66294-67	66295-67	66295-67	66296-67	66297-67	66298-67	66299-67	66299-67	66301-67	66301-67	66302-67	66302-67	66302-67	66302-67
60+	66294-67	66295-67	66296-67	66296-67	66297-67	66298-67	66299-67	66299-67	66300-67	66301-67	66302-67	66302-67	66302-67	66302-67	

Note: The dimensions in the table are in metric and imperial.
(1) This table is only a guide.
(2) Load, speed and use can affect the performance of the repairs.
(3) Increase the patch by one size for tyres used in difficult conditions, or if the width of the repair area is more than half the length.

RADIAL AND BIAS PATCHES REPAIR INSTRUCTIONS

SR
SCHRADER RADIAL PATCHES

1. Remove the tyre from the wheel. To find out if the tyre can be repaired, carefully check the whole tyre inside and outside and mark the damaged area with chalk. Do not repair the tyre if it shows any sign of run flat and/or under inflation, has casing separation (visible, bent or broken bead wires), sidewall or tread cracking deeper than 2 mm (3/32"), weather cracking deeper than 2 mm (3/32") or sidewall scuffing that exposes the cords.
2. We suggest using "Schrader PRP" for injuries up to 6 mm (car) and 10 mm (tractor / truck) (see instructions for use).
3. For larger injuries, buff back the damaged area at a maximum of 45° on the outside of the tyre (**see figure 2**). Do not enlarge the damaged area more than necessary. Cut and grind away exposed steel filaments.
4. Measure the injury size (**see figure 1**):

a) Crown injuries:
- Measure Ø "C" on the tyre tread's most damaged working ply = 1st patch choice.
- Measure "A" and "R" on the casing ply = 2nd patch choice.
- Choose the larger patch.

b) Sidewall:
- Measure "A" and "R" on the casing ply and choose the patch.

c) Shoulder:
- Measure Ø "C" and choose the patch.

5. Choose the required repair patch with the help of this repair chart according to the tyre size and the size and location of the injury.
6. Moisten an area significantly larger than the patch with the chemical buffing solution to remove all contaminants.
7. Mark a cross through centre of injury, larger than patch and position the patch centrally over injury with arrows pointing to tyre beads. Mark an area, at 10-mm larger, all round the patch.
8. Evenly buff the inner liner within the marked out area (Max 4000 RPM). Do not buff through the inner liner.
9. Remove buffing dust dryly, if possible with a vacuum cleaner. Do not soil the buffed area any further. Do not clean the area with a chemical buffer.

Working procedure for the subsequent hot Vulcanization

10. Shake the solution before use. Evenly coat the buffed area on the tyre inside once with vulcanizing fluid JADE or BLACK CEMENT. Coat the buffed, clean skive area twice with hot vulcanizing fluid BLACK CEMENT. Let the first coat dry thoroughly, then apply the second coat. (drying time approx. 15 min. at 20°C, according to weather conditions). On this occasion turn the tyre with the repair area a little upwards.
Remove the patch's protection foil, coat the bonding layer once with hot vulcanizing fluid JADE or BLACK CEMENT (drying time approx. 15 min. at 20°C) then only as necessary apply and stitch firmly a layer of Self-vulcanizing Cushion Gum to the patch's bonding layer, if the patch is cloth-backed only.
11. After drying is complete, return the tyre to its initial position. Centre the chosen repair patch on the buffed/coated area and press the center of the patch firmly. Take off the first part of the protection foil and firmly stitch the patch with a small stitcher from the centre to the outside. Then remove the remaining part of the protection foil and stitch the remaining section.
12. Fill the damaged skive with hot cure filler compound, avoiding air bubbles and stitch. Overfill the skive by approx. 3 mm in the centre.
13. Then Vulcanize the repair area in an appropriate vulcanizing machine at min. 100°C. (Curing time approx. 4 min per mm of skive at approx. 125°C). After the Vulcanization and cooling check the tyre and seal the patch rim with linerseal coating, covering all the buffed area.
14. Mount the tyre and, if necessary, buff the exterior of the tyre and regroove the tread.

Working procedure for cold Vulcanization (skive is Vulcanized with a vulcanizing machine in advance)

10. Shake the solution before use. Evenly coat the buffed area on the tyre inside once with vulcanizing fluid JADE. Drying time approx. 15 min. at 20°C); then turn the tyre with the repair area a little upwards. Remove the patch's protection foil, coat the bonding layer once with hot vulcanizing fluid JADE (drying time approx. 15 min. at 20°C) then only as necessary apply and stitch firmly a layer of Self-vulcanizing Cushion Gum to the patch's bonding layer, if the patch is cloth-backed only.
11. After drying is complete, return the tyre to its initial position. Centre the chosen repair patch on the buffed/coated area and press the center of the patch firmly. Take off the first part of the protection foil and firmly stitch the patch with a small stitcher from the centre to the outside. Then remove the remaining part of the protection foil and stitch the remaining section.
12. For the Vulcanization of the repair patch let the tyre rest at a min. ambient temperature of 18°C for 24 hours at least. Finally check the tyre and seal the patch rim with linerseal coating, covering all the buffed area. If the tyre is a tube-type tyre, it can be mounted in advance and filled with max. 2 bar air pressure.
13. Mount the tyre and, if necessary, buff the exterior of the tyre and/or regroove the tread.

SRR
SCHRADER RADIAL REPAIR PATCHES

1. Remove the tyre from the wheel. To find out if the tyre can be repaired, carefully check the whole tyre inside and outside and mark the damaged area with chalk. Do not repair the tyre if it shows any sign of run flat and/or under inflation, has casing separation (visible, bent or broken bead wires), sidewall or tread cracking deeper than 2 mm (3/32"), weather cracking deeper than 2 mm (3/32") or sidewall scuffing that exposes the cords.
2. Before repair, all damage must be removed from the tyre injury. The prepared injury must then be filled with a suitable rubber vulcanizing material. Refer to the Schrader radial tyre repair chart to determine the proper repair size.
3. Pre-clean the inner liner with rubber cleaner and a rubber scraper.
4. Place the patch on the inner liner centred over the injury. Mark a perimeter 10-15mm (1/2") beyond each side of the repair and buff the inner liner to an even velvet texture with a low speed buffer. (Max 4,500 RPM) and the appropriate rasp.
5. Remove all the buffing dust with a wire brush and a vacuum. Do not touch the buffed surface with the vacuum or hands.
6. Stir the solution before use. If the repair is being applied cold, apply vulcanizing fluid JADE to the buffed surface and allow to dry for 3-5 minutes. If the repair is being applied hot, BLACK CEMENT may be used. Drying time for BLACK CEMENT is 15-20 minutes. Allow additional drying time in cold/humid conditions.
7. Remove the protective backing from the centre of the repair. With the tyre beads in a relaxed position, place the repair over the injury and press down hard at the centre.
8. Stitch the repair from the centre outward and remove the remaining protective backing.
9. Apply liner seal coating to the edges of the repair and to all exposed buffed areas of the inner liner.

Refer to Schrader Radial Repair Chart for injury size and patch selection.

RADIAL AND BIAS PATCHES REPAIR INSTRUCTIONS

SD
SCHRADER BIAS PATCHES

1. Remove the tyre from the wheel. To find out if the tyre can be repaired, carefully check the whole tyre inside and outside and mark the damaged area with chalk. Do not repair the tyre if it shows any sign of run flat and/or under inflation, has casing separation (visible, bent or broken bead wires), sidewall or tread cracking deeper than 2 mm (3/32"), weather cracking deeper than 2 mm (3/32") or sidewall scuffing that exposes the cords.
2. We suggest using "Schrader PRP" for injuries up to 6 mm (car) and 10 mm (tractor / truck) (see instructions for use).
3. For larger injuries, buff back the damaged area at a maximum of 45° on the outside of the tyre (**see figure 2**). Do not enlarge the damaged area more than necessary. Cut and grind away exposed steel filaments.
4. Measure the injury size at its widest point (see figure 1).
5. Choose the required repair patch with the help of this repair chart according to the tyre load capacity (PR) and the size of the damaged area.
6. Moisten an area significantly larger than the patch with the chemical buffing solution to remove all contaminants.
7. Mark a cross through centre of injury, larger than patch and position the patch centrally over injury with arrows pointing to tyre beads. Mark an area, at 10-mm larger, all round the patch.
8. Evenly buff the inner liner within the marked out area (max 400RPM). Do not buff through the inner liner.
9. Remove buffing dust dryly, if possible with a vacuum cleaner. Do not soil the buffed area any further. Do not clean the area with a chemical buffer.

Working procedure for the subsequent hot Vulcanization

10. Shake the solution before use. Evenly coat the buffed area on the tyre inside once with vulcanizing fluid JADE or BLACK CEMENT. Coat the buffed, clean skive area twice with hot vulcanizing fluid BLACK CEMENT. Let the first coat dry thoroughly, then apply the second coat. (drying time approx. 15 min. at 20°C, according to weather conditions); on this occasion turn the tyre with the repair area a little upwards.
Remove the patch's protection foil, coat the bonding layer once with hot vulcanizing fluid JADE or BLACK CEMENT (drying time approx. 15 min. at 20°C) then only as necessary apply and stitch firmly a layer of Self-vulcanizing Cushion Gum to the patch's bonding layer, if the patch is cloth-backed only.
11. After drying is complete, return the tyre to its initial position. Centre the chosen repair patch on the buffed/coated area and press the center of the patch firmly. Take off the first part of the protection foil and firmly stitch the patch with a small stitcher from the centre to the outside. Then remove the remaining part of the protection foil and stitch the remaining section.
12. Fill the damage skive with hot cure filler compound, avoiding air bubbles and stitch. Overfill the skive by approx. 3 mm in the centre.
13. Then Vulcanize the repair area in an appropriate vulcanizing machine at min. 100°C. (Curing time approx. 4 min per mm of skive at approx. 125°C). After the Vulcanization and cooling check the tyre and seal the patch rim with linerseal coating, covering all the buffed area.
14. Mount the tyre and, if necessary, buff the exterior of the tyre and/or regroove the tread.

Working procedure for cold Vulcanization (skive is Vulcanized with a vulcanizing machine in advance)

10. Evenly coat the buffed area on the tyre inside once with vulcanizing fluid JADE. Drying time approx. 15 min. at 20°C,); on this occasion turn the tyre with the repair area a little upwards. Remove the patch's protection foil, coat the bonding layer once with hot vulcanizing fluid JADE (drying time approx. 15 min. at 20°C) then stitch firmly a layer of Self-vulcanizing Cushion Gum to the patch's bonding layer, if the patch is cloth-backed only.
11. After drying is complete, return the tyre to its initial position. Centre the chosen repair patch on the buffed/coated area and press the center of the patch firmly. Take off the first part of the protection foil and firmly stitch the patch with a small stitcher from the centre to the outside. Then remove the remaining part of the protection foil and stitch the remaining section.
12. For the Vulcanization of the repair patch let the tyre rest at a min. ambient temperature of 18°C for 24 hours at least. Finally check the tyre and seal the patch rim with linerseal coating, covering all the buffed area. If the tyre is a tube-type tyre, it can be mounted in advance and filled with max. 2 bar air pressure.
13. Mount the tyre and, if necessary, buff the exterior of the tyre and/or regroove the tread.

SD-GC
SCHRADER EM BIAS PATCHES

1. Remove the tyre from the wheel and inspect for damage and defects. Do not repair the tyre if it shows any sign of run flat and/or under inflation, has casing separation (visible, bent or broken bead wires), sidewall or tread cracking deeper than 2 mm (3/32"), weather cracking deeper than 2 mm (3/32") or sidewall scuffing that exposes the cords.
2. Before applying the patch or filling the skive, all damage must be removed from the tyre injury. Any loose cords and casings must be completely removed.
3. Once the damage has been removed, all surfaces must be buffed, cleaned, cemented with BLACK CEMENT, prior to filling the injury.
4. The prepared injury must then be filled with
• a rubber stem, if the injury is 13 mm or less. Cement the hole with vulcanizing fluid JADE.
• or other suitable rubber vulcanizing material such as rope rubber. If using a spotter to cure rope rubber or filler gum into the tyre, allow the tyre to cool to room temperature before applying the patch.
5. Refer to the Schrader bias tyre repair chart to determine the proper patch size.
6. Pre-clean the inner liner with rubber cleaner and a rubber scraper.
7. Place the patch on the inner liner centred over the injury. Mark a perimeter 10-15mm (1/2") beyond each side of the repair and buff the inner liner to an even velvet texture with a low speed buffer. (Max 4,500 RPM) and the appropriate rasp.
8. Remove all the buffing dust with a wire brush and a vacuum. Do not touch the buffed surface with the vacuum or hands.
9. Hot Vulcanization only
• Stir the solution before use. Apply BLACK CEMENT to the buffed area of the tyre inner liner and to the back of the patch.
• Remove the cloth backing from the patch.
• Allow 5-10 minutes to dry.
• Apply a coat of BLACK CEMENT to the outside skived area of the tyre and allow 15-20 minutes to dry.
• If body ply cords are exposed apply a second coat of BLACK CEMENT to the exposed cords and repeat drying time.
10. After the BLACK CEMENT is dry on the back of the patch, place the repair on uncured cushion gum and stitch from the centre outward to the edges. The uncured cushion gum must be applied to the patch prior to its placement on the tyre.
11. Slit the protective poly on the back of the cushion gum and expose the centre. With the tyre beads in a relaxed position, place the repair over the injury and press down hard at the centre.
12. Stitch the repair from the centre outward and remove the remaining protective backing.
13. Apply liner seal coating to the edges of the repair and to all exposed buffed areas of the inner liner.

Refer to the Schrader Bias Repair Chart for injury size and patch selection.

EMX-SL
RADIAL PATCHES FOR EARTHMOVER

Patches with textile protection for hot vulcanization

- Sidewall, shoulder and tread injuries: centre of injury = centre of patch
- <=> The direction of the arrow printed on the patch indicates the radial bead to bead direction.

	Description	Patch dimensions (mm) W. x L.	Plies	Quantity per box
61100-67	EMX-SL 43	130 x 330	4	10
61101-67	EMX-SL 45	180 x 440	4	5
61102-67	EMX-SL 47	180 x 580	5	5
61103-67	EMX-SL 51	240 x 580	5	3
61104-67	EMX-SL 53	270 x 720	7	3
61105-67	EMX-SL 57	270 x 860	7	3
61106-67	EMX-SL 61	325 x 1030	7	3
61107-67	EMX-SL 71	350 x 760	7	3
61108-67	EMX-SL 81	450 x 530	8	5
61109-67	EMX-SL 85	530 x 730	8	5

- Hot cure: use the **BLACK CEMENT** solution.
- Expiry date of EMX-SL: 3 years after date of manufacture.

Solution page 129

EMX-SL repair instructions

1. To find out if the tyre can be repaired, carefully check the whole tyre inside and outside and mark the damaged area with chalk.
2. Buff back the damaged area at 60° to 90° on the outside of the tyre (**see figure 1**). Do not enlarge the damaged area more than necessary. Cut and grind away exposed steel filaments.
3. Measure the injury size (**see figure 2**):

a) Tread injuries:
- Measure Ø "C" on the tyre tread's most damaged working ply = 1st patch choice.
- Measure "A" and "R" on the casing ply = 2nd patch choice.
- Choose the larger patch.

b) Sidewall:
- Measure "A" and "R" on the casing ply and choose the patch.

c) Shoulder:
- Measure Ø "C" and choose the patch.

4. Choose the required repair patch with the help of this repair chart according to the tyre size and the size of the injury.
5. Mark a cross through centre of injury, larger than patch and position the patch centrally over injury with arrows pointing to tyre beads. Mark an area, at 10-mm larger, all round the patch (**see figure 3**).
6. Evenly buff the inner liner within the marked out area.
7. Remove buffing dust dryly, if possible with a vacuum cleaner.
8. Stir the solution before use. Evenly coat the buffed area on the tyre inside once with hot cure fluid BLACK CEMENT. Coat the buffed, clean skive area twice with BLACK CEMENT. Drying time approx. 10 or 15 minutes (*).
9. After drying, place the tyre with the injured part turned downwards. Adjust the chosen repair patch exactly to the buffed/coated area, take off the first part of the protection foil and completely stitch the patch with a small stitcher from the centre to the outside. Then remove the remaining part of the protection foil and stitch the remainder.
10. Fill the damage skive with hot cure filler compound free of bubbles and stitch. Overfill the skive by approx. 3 mm at the centre.
11. Then Vulcanize the repair area in an appropriate vulcanizing machine at min 100°C. (Curing time approx. 4 min per mm of skive at approx. 125°C). After the Vulcanization and cooling check the tyre and proceed with finishing.

(*) Information for reference only (dry weather at room temperature of 20°C)

P/N suffix: -67 = per box

EMX-SL
RADIAL PATCHES FOR EARTHMOVER

Fig. 1

R: Radial (Length)
A: Running direction (Axial) (width)
T: Tread
S: Sidewall
H: Shoulders
B-D: Non-repairable area

Fig. 2
Tread injuries:
- Measure ø «C» on the tyre tread's most damaged working ply
- Measure "A" and "R" on the casing ply
Sidewall: - Measure "A" and "R" on the casing ply
Shoulder: Measure the ø «C»

Fig. 2

Fig. 3

- Detailed instructions provided inside each box.
- Follow the corresponding storage, fitting and application instructions.

	SERIES			Description	B-D	S = sidewall		T = Tread		H = shoulder
	65	75-80	100			A	R	C	R	Ø C
	20/-50/	15.5-33.5	14.00-30.00	**EMS-XL 43**	75	20	70	20	40	15
				EMS-XL 45		25	150	40	60	20
				EMS-XL 45		50	100	40	60	20
	25/-65/	17.5-50.5	16.00-40.00	**EMS-XL 47**	75	25	250	50	80	35
				EMS-XL 47		50	150	50	80	35
				EMS-XL 51		50	250	90	120	55
				EMS-XL 51		100	150	90	120	55
	35/-65/	20.5-50.5	18.00-40.00	**EMS-XL 53**	85	50	300	90	140	60
				EMS-XL 53		100	200	90	140	60
				EMS-XL 71		130	180	100	150	70
				EMS-XL 71		170	140	100	150	70
	45/-65/	29.5-50.5	27.00-40.00	**EMS-XL 57**	85	60	400	90	180	65
				EMS-XL 57		120	250	90	180	65
	55/-65/	37.25-50.5	33.00-40.00	**EMS-XL 61**	85	60	480	100	220	70
				EMS-XL 61		120	250	100	220	70
	45/-65/	29.5-50.5	27.00-40.00	**EMS-XL 75**	85			100	140	
		37.25-50.5	36.00-40.00	**EMS-XL 85**				150	200	

EMERGENCY REPAIR FROM THE OUTSIDE

Inserts for radial tyres

- This type of repair is classified as an EMERGENCY REPAIR ONLY.
- After use the vehicles can be driven at max. 80 km/h for max. 80 km.
- The tyre should then be examined by a specialist as soon as possible to assess its structure and make a permanent repair.
- Not for use in H, V or Z speed rated tyres.
- For injuries up to 6 mm maximum.

65410-67

Repair dealer kit containing:
- 1 T-handle needle insert tool 15-227,
- 1 T tyre probe 15-225,
- 30 inserts L = 100 mm,
- Tin OPALE solution 250 ml

Solutions page 129

Use the **OPALE** or **JADE** cold solution.

	15-280	15-281	15-206
Quantity per box	60	30	50
Vehicle and tyre type	Car radial tyre	Truck radial tyre	Truck bias tyre
Length (mm)	100	180	180

Tools

15-224	15-225	15-227	15-231	15-230	15-232
Open Eye T-handle needle insert tool	Tyre probe	Split-eye needle insert tool	Truck metal split-eye needle insert tool	Replacement needle for 15-231	Spiral grip cement needle tool

P/N suffix: Inserts and kit = the box *Tools = per unit*

SOLUTIONS AND BRUSHES

(*) Order topbrush 66381-67 for 235 ml tin.
(**) Order topbrush 66382-67 for the 945 ml. tin.
• **JADE** expiry date: 2 years after date of manufacture.
• Stir the solution before use.

JADE : Chemical vulcanizing solution

for SR, SRR, SD, SD-GC, PRF, TRP and Inserts

66310-67 SDS	66311-67 SDS	66312-67 SDS
235 ml (*) tin	945 ml (**) tin	Set 235 ml tin 66310-67 + topbrush 66381-67

BLACK-CEMENT : hot solution 100 to 160°C

for S.R, SRR., SD, SD-GC and EMX-SL

(**) Order topbrush 66382-67 for 945 ml tin.
• **BLACK CEMENT** expiry date: 3 years after date of manufacture.
• Stir the solution before use.

66210-67 SDS	66211-67 SDS
945 ml tin (**)	5 L tin

KARAT : hot solution 70 à 105°C

for GRANITE rubber

(**) Order top-brush 66382-67 for the 945 ml. tin.
• KARAT expiry date: 18 months after date of manufacture.
• Stir the solution before use.

66059-67 945 ml tin (**) SDS

Brushes for solutions

66381-67	66382-67	60038-67	65076-67	67223-67	65864-67
Topbrush for 235 ml tin JADE and QUARTZ	Topbrush for 945 ml tin JADE, QUARTZ and BLACK CEMENT	Flat brush width 40 mm, L = 210 mm	Flat brush width 65 mm, L = 225 mm	Empty tin with topbrush for vulcanizing fluid	Round brush ø 32 mm, L = 330 mm

P/N suffix: -67 = per box

TYRE REPAIR PRODUCTS

Buffing solution

- Expiry date of buffing solution: 5 years after date of manufacture.
- Expiry date of spray buffing solution: 4 years after date of manufacture.

66215-67 66215-68 SDS	66216-67 SDS	66217-67 SDS
Buffing solution 945 ml	Buffing solution 5 L	Spray buffing solution 438 ml

Finishing / sealing product

- Expiry date: 1 year after date of manufacture.

66371-67 SDS

Linerseal coating 235 ml
Order topbrush 66281-67 separately (see pages 129)

Leak finder

- Concentrated solution to dilute with water.
- Expiry date: 5 years after date of manufacture.

66372-67 SDS	66373-67
Leak finder 945 ml	Dilution bottle (empty) for leak finder 600 ml

P/N suffix: -67 = per unit -68 = by 10

RUBBERS

	Description	Weight (kg)	Dimensions (mm)	Expiry date after date of manufacture	Use and solution	Storage temperature
66326-67 SDS	Self-vulcanizing cushion gum	5	th.0.8 x l. 250 x L. 7000	2 years	To be used with JADE	+30°C +15°C
66321-67 SDS	Hot cure cushion gum	5	th. 1.15 x l. 500 x L. 6350	1 year	HOT CURE: >100°C Use with BLACK CEMENT	+30°C +15°C
66322-67 SDS	Uncured filler compound	2,5	th. 1.15 x l. 250 x L. 7000	1 year	HOT CURE: >100°C Use with BLACK CEMENT	+25°C +15°C
66323-67 SDS	Rope for extruder guns	6,8	Ø 8	9 months	HOT CURE: >100°C Use with BLACK CEMENT	+30°C +15°C
66324-67 SDS	Rope for extruder guns	12	Ø 8	9 months	HOT CURE: >100°C Use with BLACK CEMENT	+30°C +15°C
66060-67 SDS	GRANITE: Cushion gum and filler compound	2 x 2,5	th. 1.3, l. 160	16 months	Use with KARAT	+25°C +15°C
65834-67 SDS	Talc (box)	0,640	-	-	-	

P/N suffix: -67 = per unit

MATERIAL FOR RUBBERS

Extruder guns

Delivered without compensator.

	67478-67	65761-67
Model	750 W	1600 W (special large EM)
Heating	electric 230V	electric 230 V
Motor	pneumatic	electric 230 V
Thermostat	0 to 120 °C	0 to 120 °C
Rubber Flow (kg/h)	18	40
Weight (kg)	3,8	7

67479-67 Compensator

Rubber mixers MELMA for truck and EM

67283-67

Rigid steel frame and tow rollers (including one mobile roller with variable spacer).
The two rollers have the same diameter but move at different speeds, thus creating friction of the rubber in addition to the rolling.
The appliance is equipped with a safety bar reversing the direction of rotation with automatic.lifting of the rear roller, which can be raised by 100° for cleaning purposes.
Characteristics: Parallel gear motor, 0,55 KW, 230/380 V.
Roller speeds: front 19 rpm, rear 23 rpm. Roller diameter 15 mm mounted on needle bearings, useful working width 180 mm.
Spacing adjustable from 0.1 to 2 mm.
Dimensions: L 68 x W 31 x H 23 cm - Weight 55 kg.

Thermometer

67494-67

Thermometer for taking 2 temperatures simultaneously in Celsius or Fahrenheit.
Ideal for thermocouples.
- Backlight display
- Anti-chock protector
- Measurement scale -50° to +1300° C
- 1 battery 9V type 6LR61 or 6LRF22 (included)
- Dim: 173 x 60.5 x 38 mm.

67493-67	67495-67	67496-67
30 cm rigid sensor	Flat plug	Thermocouple coil 10 m

Hot Plate

60880-67

Pre-heating plate for uncured gums, 230 V, 0.31 Kw
Dim: 205 x 515 mm
Heating temperature: 85°C

RANGE slime

Liquid sealant for emergency repair
(can be used to prevent punctures up to 80 km/h)

Further information:
www.slime.com

Fibro-Seal™

- The SLIME puncture preventative seals punctures:
  - up to ø 3 mm maxi on tyres with inner tubes
  - up to ø 6 mm maxi on tubeless tyres.
- SLIME seals punctures on the TREAD area of the tyre.
  The pressure of the escaping air forces the product into the opening and a plug is instantly formed.
- Liquid cleaned with water and non-toxic.
- Effective during the tyre's entire lifetime.
- Used as a flat preventative, SLIME is effective up to 80 km/h.
- Used as an emergency repair after a puncture on the tread area of the tyre, a speed of 130 km/h should not be exceeded and as soon as possible the wheel should be dismantled by a professional to assess its condition and make a definitive repair. Do not use for repairs on the tyre's sidewall.
- **Do not use the preventative if there is a pressure sensor in the tyre.**
- Expiry date: 5 years after date of manufacture. Product lifetime in the tyre: 2 years.
- Can be used from -30 to +80°C.

Sold packaged by 6.

S10015	S10016	SDS50030IN	S10031
For CYCLE tubes 237 ml	For tubeless MOTORCYCLE tyres 237 ml	UNIVERSAL For tubeless tyres or spare product for SMART REPAIR kit - 473 ml	UNIVERSAL and OFF ROAD For tubeless tyres 946 ml

Quantity of product per tyre (ml)			
(1) Tubeless tyres Punctures up to ø 6 mm maxi (2) Tyres with inner tube Punctures up to ø 3 mm maxi			
		(1)	(2)
	Bicycle		118
	Motorcycle	237	
	Scooter	237	237
	Trials bike		237
	Wheelbarrow	237	237
	Car / Trailer	473	
	4 x 4 and Pick-up	592	
	Golf cart	592	
	Mower	710	710
	ATV	710	

Puncture prevention
up to 80 km/h

Please wear glasses.

SDSB5GIN	S10133
For tubeless tyres 18.9 L. drum Weight 22.4 kg Dimensions: 29.5 x 29.5 x 35.5 cm.	«OTR PRO» 220 L. drum. To use the SBAP pump with this drum, order pump extension SBAPE.
up to 80 km/h	

SDS

SBAP

Pump for drum SDSB5GIN
Dimensions: 64 x 8 x 14 cm
Weight 1.3 kg.
Possible to set the pump for the quantity of product to be injected.

1-Position valve core in upper half of tyre. 2-Remove object (if possible). 3-Slowly remove valve core with tool in cap. 4-Allow tyre to fully deflate. 5- Attach hose and squeeze in Slime. 6- Replace valve core. 7-Inflate tyre. 8-Drive 300 metres. Stop and check pressure

RANGE slime

Use chart

Quick calculator on:
www.slime.com

PREVENTION:
Total height ("h" cm) x Width of tyre ("W" cm) x 0.55 = necessary volume of product (ml)

REPAIR:
Total height ("h" cm) x Width of tyre ("W" cm) x 0.3 = necessary volume of product (ml)

	Tyre size	Quantity required (ml) Prevention	Repair
4"	200x50 - 4	332	181
	260x85 - 4	777	424
	380x90 - 4	1 642	896
	3.00 - 4	106	58
	4.00 - 4	170	93
5"	11 - 4	507	277
	13 - 5	692	377
6"	3.50 - 6	161	88
	4.00 - 6	199	108
	4.10 - 6	207	113
	6 - 6	383	209
	13x5 - 6	738	403
	13x6.5 - 6	876	478
	15x6 - 6	958	523
8"	3.00 - 8	149	81
	3.50 - 8	186	102
	4.00 - 8	227	124
	5.00 - 8	319	174
	125/70 - 8	260	142
	150/75 - 8	353	193
	180/70 - 8	451	246
	16x6,5 - 8	1 192	650
	18x7 - 8	1 405	766
	18x8,5 - 8	1 597	871
	18x9,5 - 8	1 725	941
	20x8 - 8	1 703	929
	20x10 - 8	1 987	1 084
	21x7 - 8	1 639	894
	21x12 - 8	2 385	1 301
9"	6 - 9	447	244
	200/75 - 9	581	317
	20x11 - 9	2 200	1 200
	21x7 - 9	1 714	935
10"	4.00 - 10	255	139
	5.00 - 10	355	194
	6.50 - 10	530	289
	7.50 - 10	665	363
	9.00 - 10	894	488
	18x11 - 10	2 044	1 115
	20x8 - 10	1 845	1 006
	20x10 - 10	2 129	1 161
	22x8 - 10	2 030	1 107
	22x11 - 10	2 498	1 363
	23x9 - 10	2 285	1 246
12"	3.50 - 12	236	129
	4.00 - 12	284	155
	5.00 - 12	390	213
	5.70 - 12	473	258
	6.00 - 12	511	279
	6.50/80 - 12	517	282
	7.00 - 12	646	352
	8.00 - 12	795	434
	8.50 - 12	875	477
	10/80 - 12	994	542
	250/75 - 12	935	510
	10 - 12	1 135	619
	11 - 65	1 027	560
	23x8.5 - 12	2 367	1 291
	23x9.5 - 12	2 530	1 380
	23x10.5 - 12	2 693	1 469
	23x12 - 12	2 938	1 603
	27x10 - 12	3 066	1 672
14"	4.50 - 14	367	200
	5.00 - 14	426	232
15"	4.00 - 15	326	178
	5.00 - 15	444	242
	6.50 - 15	646	352
	6.5/80 - 15	586	320
	14.5 - 15	2 264	1 235
	7.50 - 15	798	435
	8.25 - 15	922	503
	10 - 15	1 242	677
	27x8,5 - 15	3 066	1 672
	27x10 - 15	3 353	1 829
	28x9 - 15	3 279	1 788
	31x11,5 - 15	4 180	2 280
15,3"	10/75 - 15,3	1 075	586
	11.5/80 - 15,3	1 375	750
	12.5/80 - 15,3	1 566	854
16"	4.50 - 16	399	218
	5.00 - 16	461	252
	5.50 - 16	527	287
	6.00 - 16	596	325
	6.50 - 16	669	365
	7.50 - 16	825	450
	8.50 - 16	995	543
	9.00 - 16	1 086	592
	10.00 - 16	1 277	697
	11.00 - 16	1 483	809
	10.5/65 - 16	1 105	603
	275/65 - 16	1 155	630
	320/65 - 16	1 447	790
	260/70 - 16	1 102	601
	280/70 - 16	1 230	671
	9/75 - 16	942	514
	13/75 - 16	1 638	893
	250/80 - 16	1 109	605
	8 - 16	908	495
	9.5 - 16	1 180	644
16,5"	10 - 16,5	1 295	706
18"	7x7,5 - 18	820	447
	10,5/80 - 18	1 297	707
	250/80 - 18	1 179	643
	275/80 - 18	1 357	740
	335/80 - 18	1 830	998
	12.5/80 - 18	1 685	919
	14.5/80 - 18	2 120	1 156
	15/70 - 18	2 076	1 132
	280/70 - 18	1 308	713
	325/70 - 18	1 631	889
	365/70 - 18	1 944	1 060
	275/65 - 18	1 232	672
	320/65 - 18	1 537	838
	335/65 - 18	1 645	897
	340/65 - 18	1 682	917
	13/65 - 18	1 610	878
	355/60 - 18	1 724	941
	10.5 - 18	1 453	793
	12.5 - 18	1 907	1 040
19" / 19,5"	4 - 19	383	209
	6 - 19	660	360
	18 - 19,5	3 545	1 934
20" / 20,5"	6.50 - 20	761	415
	7.50 - 20	931	508
	8.00 - 20	1 022	557
	8.25 - 20	1 069	583
	9.00 - 20	1 214	662
	10.00 - 20	1 419	774
	11.00 - 20	1 639	894
	11/80 - 20	1 468	801
	12.00 - 20	1 874	1 022
	14.00 - 20	2 385	1 301
	16.00 - 20	2 952	1 610
	425/95 - 20	3 075	1 677
	10.5 - 20	1 528	833
	12.5 - 20	1 996	1 089
	14.5 - 20	2 521	1 375
	11.2 - 20	1 685	919
	12.4 - 20	1 971	1 075
	260/80 - 20	1 321	721
	275/80 - 20	1 434	782
	335/80 - 20	1 924	1 049
	13/80 - 20	1 882	1 027
	355/80 - 20	2 101	1 146
	365/80 - 20	2 192	1 196
	340/75 - 20	1 904	1 038
	375/75 - 20	2 208	1 204
	425/75 - 20	2 678	1 461
	16/70 - 20	2 407	1 313
	280/70 - 20	1 386	756
	300/70 - 20	1 531	835
	320/70 - 20	1 683	918
	360/70 - 20	2 004	1 093
	380/70 - 20	2 174	1 186
	405/70 - 20	2 395	1 306
	420/65 - 20	2 435	1 328
	24 - 20,5	5 834	3 182
	525/65 - 20,5	3 474	1 895
22,5"	10 - 22,5	1 508	823
	315/80 - 22,5	1 863	1 016
	15 - 22,5	2 794	1 524
	18 - 22,5	3 736	2 038
	500/60 - 22,5	3 222	1 757
	550/60 - 22,5	3 725	2 032
	600/40 - 22,5	3 470	1 893
	700/40 - 22,5	4 356	2 376
24"	8.3 - 24	1 196	652
	9.5 - 24	1 450	791
	11.2 - 24	1 844	1 006
	12.4 - 24	2 147	1 171
	13.6 - 24	2 471	1 348
	14.9 - 24	2 844	1 552
	16.9 - 24	3 466	1 891
	11.00 - 24	1 795	979
	12.00 - 24	2 044	1 115
	13.00 - 24	2 306	1 258
	14.00 - 24	2 583	1 409
	385/75 - 24	2 840	1 549
	15.00 - 24	2 874	1 568
	17/80 - 24	3 089	1 685
	16.00 - 24	3 179	1 734
	280/85 - 24	1 672	912
	320/85 - 24	2 030	1 107
	340/85 - 24	2 221	1 211
	380/85 - 24	2 624	1 431
	420/85 - 24	3 058	1 668
	375/75 - 24	2 417	1 319
	420/75 - 24	2 863	1 562
	500/75 - 24	3 739	2 039
	320/70 - 24	1 861	1 015
	360/70 - 24	2 205	1 203
	380/70 - 24	2 386	1 301
	420/70 - 24	2 766	1 509
	445/70 - 24	3 017	1 646
	455/70 - 24	3 120	1 702
	480/70 - 24	3 383	1 846
	495/70 - 24	3 546	1 934
	555/70 - 24	4 233	2 309
	420/65 - 24	2 669	1 456
	440/65 - 24	2 859	1 560
	480/65 - 24	3 257	1 776
	540/65 - 24	3 895	2 125
25"	12.00 - 25	2 086	1 138
	13.00 - 25	2 353	1 283
	14.00 - 25	2 633	1 436
	385/95 - 25	2 894	1 578
	395/80 - 25	2 753	1 501
	16.00 - 25	3 236	1 765
	445/95 - 25	3 624	1 976
	18.00 - 25	3 896	2 125
	505/95 - 25	4 429	2 416
	21.00 - 25	4 993	2 723
	575/95 - 25	5 463	2 980
	15.5 - 25	3 080	1 680
	17.5 - 25	3 726	2 032
	445/80 - 25	3 297	1 798
	20.5 - 25	4 801	2 619
	525/80 - 25	4 259	2 323
	23.5 - 25	6 004	3 275
	605/80 - 25	5 334	2 909
	555/70 - 25	4 310	2 351
	625/70 - 25	5 191	2 831
	705/70 - 25	6 289	3 431
	755/70 - 25	7 026	3 832
	25/65 - 25	5 101	2 782
	30/65 - 25	6 813	3 716
	750/65 - 25	6 641	3 623
	26.5 - 25	7 335	4 001
	670/80 - 25	6 290	3 431
	29.5 - 25	8 793	4 796
	1000/50 - 25	8 993	4 905
26"	14.9 - 26	2 950	1 609
	16.9 - 26	3 586	1 956
	18.4 - 26	4 100	2 236
	23.1 - 26	5 918	3 228
	28.1 - 26	8 196	4 471
	520/75 - 26	4 120	2 247
	620/75 - 26	5 423	2 958
	480/70 - 26	3 518	1 919
	520/70 - 26	3 971	2 166
	580/70 - 26	4 697	2 562
	620/70 - 26	5 212	2 843
	540/65 - 26	4 046	2 207
	750/65 - 26	6 746	3 680
28"	9.5 - 28	1 584	864
	11.2 - 28	2 003	1 093
	12.4 - 28	2 323	1 267
	13.6 - 28	2 664	1 453
	14.9 - 28	3 056	1 667
	16.9 - 28	3 706	2 021
	320/85 - 28	2 209	1 205
	340/85 - 28	2 411	1 315
	380/85 - 28	2 837	1 547
	420/85 - 28	3 292	1 796
	420/75 - 28	3 098	1 690
	360/70 - 28	2 406	1 312
	380/70 - 28	2 598	1 417
	420/70 - 28	3 001	1 637
	480/70 - 28	3 652	1 992
	600/70 - 28	5 119	2 792
	420/65 - 28	2 904	1 584
	440/65 - 28	3 105	1 694
	480/65 - 28	3 525	1 923
	540/65 - 28	4 197	2 289
	600/65 - 28	4 921	2 684
29"	26.5 - 29	7 711	4 206
	29.5 - 29	9 212	5 025
	30/65 - 29	7 239	3 948
	33.25 - 29	11 267	6 146
30"	14.9 - 30	3 162	1 725
	16.9 - 30	3 826	2 087
	18.4 - 30	4 361	2 379
	420/85 - 30	3 410	1 860
	480/75 - 30	3 912	2 134
	520/75 - 30	4 410	2 406
	620/75 - 30	5 770	3 147
	420/70 - 30	3 119	1 701
	480/70 - 30	3 786	2 065
	520/70 - 30	4 261	2 324
	600/70 - 30	5 287	2 884
	540/65 - 30	4 348	2 372
30,5"	600/60 - 30,5	4 933	2 690
	700/50 - 30,5	5 678	3 097
	750/60 - 30,5	6 908	3 768
	800/45 - 30,5	6 577	3 587
	850/50 - 30,5	7 595	4 143
32"	8.3 - 32	1 431	781
	9.5 - 32	1 719	938
	11.2 - 32	2 162	1 179
	12.4 - 32	2 499	1 363
	24.5 - 32	7 042	3 841
	30.5 - 32	10 065	5 490
	230/95 - 32	1 581	862
	270/95 - 32	1 969	1 074
	650/75 - 32	6 391	3 486
	680/75 - 32	6 855	3 739
	800/60 - 32	7 800	4 255
	900/55 - 32	8 924	4 868
	1050/50 - 32	10 758	5 868
33"	18.00 - 33	4 407	2 404
	33.5 - 33	11 887	6 484
	35.00/65 - 33	9 749	5 318
34"	14.9 - 34	3 373	1 840
	16.9 - 34	4 066	2 218
	18.4 - 34	4 623	2 521
	320/85 - 34	2 477	1 351
	420/85 - 34	3 644	1 988
	460/85 - 34	4 163	2 271
	520/75 - 34	4 701	2 564
	620/75 - 34	6 116	3 336
	650/75 - 34	6 573	3 585
	710/75 - 34	7 531	4 108
	480/70 - 34	4 054	2 211
	520/70 - 34	4 552	2 483
	540/65 - 34	4 650	2 536
	600/65 - 34	5 424	2 958
35"	21.00 - 35	5 738	3 130
	33.25 - 35	11 975	6 532
	37.25 - 35	14 473	7 895
	29.5 - 35	9 840	5 367
36"	8.3 - 36	1 549	845
	9.5 - 36	1 854	1 011
	11.2 - 36	2 321	1 266
	12.4 - 36	2 675	1 459
	13.6 - 36	3 050	1 664
	210/95 - 36	1 517	827
	230/95 - 36	1 710	932
	270/95 - 36	2 120	1 156
38"	11.2 - 38	2 400	1 309
	12.4 - 38	2 763	1 507
	13.6 - 38	3 146	1 716
	14.9 - 38	3 585	1 955
	16.9 - 38	4 306	2 349
	18.4 - 38	4 884	2 664
	20.8 - 38	5 875	3 205
	15.5 - 38	3 795	2 070
	270/95 - 38	2 195	1 197
	420/85 - 38	3 879	2 116
	460/85 - 38	4 420	2 411
	520/85 - 38	5 289	2 885
	650/85 - 38	7 401	4 037
	540/75 - 38	5 272	2 876
	480/70 - 38	4 322	2 358
	520/70 - 38	4 843	2 641
	580/70 - 38	5 669	3 092
	620/70 - 38	6 251	3 410
	710/70 - 38	7 651	4 173
	540/65 - 38	4 952	2 701
	600/65 - 38	5 759	3 141
	650/65 - 38	6 471	3 530
39"	37.5 - 39	15 169	8 274
	40.5/75 - 39	14 335	7 819
	40/65 - 39	12 916	7 045
40"	49.5 - 40	1 989	1 085
	180/95 - 40	1 344	733
	230/95 - 40	1 838	1 003
42"	11.3 - 42	2 559	1 396
	18.4 - 42	5 145	2 806
	20.8 - 42	6 170	3 366
	620/70 - 42	6 598	3 599
	650/65 - 42	6 835	3 728
	710/70 - 42	8 047	4 390
44"	8.3 - 44	1 785	974
	9.5 - 44	2 124	1 158
	11.2 - 44	2 639	1 439
	210/95 - 44	1 752	955
	230/95 - 44	1 967	1 073
	270/95 - 44	2 421	1 321
45"	45 - 65	16 527	9 014
46"	12.4 - 46	3 115	1 699
	14.9 - 46	4 008	2 186
	18.4 - 46	5 406	2 949
	420/80 - 46	4 251	2 319
	520/85 - 46	5 870	3 202
	300/95 - 46	2 868	1 565
48"	13.6 - 48	3 629	1 979
	230/95 - 48	2 095	1 143
	270/95 - 48	2 572	1 403
49"	24 - 49	8 261	4 506
	27 - 49	9 868	5 383
52"	300/95 - 48	2 952	1 610
54"	270/95 - 54	2 799	1 527
	320/90 - 54	3 428	1 870
57"	40 - 57	19 445	10 606
	46/90 - 57	22 819	12 447
	60/80 - 57	32 574	17 768
63"	55/80 - 63	29 469	16 074

SCHRADER Pressure to perfection

RANGE slime

Portable kits for emergency tyre repair and inflation of tubeless tyres

Quick repair of a flat without removing wheel, no need to wait for assistance

Further information:
www.slime.com

Fibro-Seal™

- SLIME prevents punctures of up to ø 6 mm maxi on tubeless tyres.
- SLIME seals punctures on the **TREAD** area of the tyre.
  The pressure of the escaping air forces the product into the opening and a plug is instantly formed.
- Liquid cleaned with water and non-toxic.
- Effective during the tyre's entire lifetime.
- Used as an emergency repair after a puncture on the tread area of the tyre, a speed of 130 km/h should not be exceeded and as soon as possible the wheel should be dismantled by a professional to assess its condition.
- The tyre should be examined by a specialist as soon as possible to assess its structure and make a definitive repair. Do not use for repairs on the tyre's sidewall.
- **If the tyre is equipped with a pressure sensor, Schrader recommends it be immediately replaced.**
- Expiry date: 5 years after date of manufacture. Product lifetime in the tyre: 2 years.
- Can be used from -30 to +80°C.

SDS

SDS

SDS

CRK0305IN	S50053	S50058
SMART REPAIR kit Contents: - 1 can 473 ml of liquid sealant ref. SDS-500-IN - 1 compressor 12 V - 1 rigid storage case - Accessories Dimensions: 22 x 8 x 17 cm Weight: 1.4 kg	**SAFETY REPAIR** kit: one button to repair and inflate Contents: - 1 can 473 ml of liquid sealant ref. 10100 - 1 compressor 12 V with light - 1 rigid storage case - Accessories Dimensions: 23 x 10 x 25.5 cm Weight: 2.2 kg	**POWER REPAIR** kit for wide tyres Contents: - 1 tin 592 ml of liquid sealant - 1 compressor 12 V with hose L= 7.4 m, with lamp - 1 carrier bag - Accessories Possible refills: Ref. SDS-500-IN (473 ml) or 10031 (946 ml) Dimensions: 34 x 12 x 28.5 cm Weight: 4.2 kg

SDS

S10100 Spare tin for compressor "SAFETY REPAIR" 473 ml

SDS

S50024

MOTO REPAIR kit
Contents:
- 1 can 237 ml of liquid sealant ref. 10016
- 1 compressor 12 V
- 1 rigid storage case
- 1 accessories bag
- 1 pencil type tyre gauge

Dimensions: 17 x 8 x 17 cm
Weight: 1 kg

Emergency repair and inflation

Quick repair of a flat without removing wheel, no need to wait for assistance

@ Further information:
www.slime.com

- QUICK SPAIR prevents punctures of up to ø 4.7 mm maxi on tubeless tyres.
- QUICK SPAIR seals punctures and inflates the tyre.
- Liquid cleaned with water and non-toxic.
- After a puncture on the tread area of the tyre, a speed of 130 km/h should not be exceeded and as soon as possible the wheel should be dismantled by a professional to assess its condition and make a permanent repair.
- If the tyre is equipped with a pressure sensor, check it is working correctly.
- Aerosol expiry date: 5 years after date of manufacture.
- Can be used from -30 to +80ºC.

SDS

S60100 «Quick Repair»
Spray 416 ml for emergency repair of standard tubeless tyres

P/N suffix: per unit

A WIDE RANGE

Schrader offers a range of equipment for professionals to meet their customers' requirements and to train and provide turnkey solutions for repair specialists, industry, public works and mining..., depending on the tyre to be repaired, up to 63" and the type of repair, puncture or injury:

- Injuries skiving tools
- Supports and spreaders
- Vulcanizers and special devices

SAFETY

- When repairing, we recommend wearing a helmet, glasses, protective gloves, safety boots and ear protection
- Follow the instructions for use

REPAIR TOOLS AND VULCANIZING EQUIPMENT

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TECHNICAL SUPPORT AND TRAINING

Training at Schrader or on site

Our TRAINING CENTRE has been set up to provide our customers the skills required to use Schrader products. In particular in hot and cold cure tyre repairs on cars, vans, trucks, farm vehicles, earthmovers, etc.

Our training centre is approved for occupational training.

Approval no. 43 25 01928 25.

To enrol,
contact our sales team.

Technical Courses:

Staff aimed at:

Anyone employed by a tyre business, independent repair shop and in general in a position requiring in-depth knowledge of tyre repair and its methods.

Level 1, REPAIR OF CAR/TRUCK TYRES

Aim:

- Knowledge of cold and hot cure repair of car and truck tyres
- Learning of repair methods for the various tyres; knowledge of equipment used
- Simulations at our Schrader training centres

Level 2, REPAIR OF EARTHMOVER TYRES

Aim:

- Knowledge of the hot cure repair of truck, farm vehicle and earthmover tyres
- Practicals following the different tyre repair methods
- Specific knowledge of the equipment to be used
- Becoming autonomous in the whole repair process
- Simulations at our Schrader training centres

AIR BUFFERS AND ADAPTORS

• Noiseless rear exhaust air outlet.
• Increased power. • Regulator with digital control.
• Ergonomic design, cold insulation . • Safety trigger control . • Air inlet rotating nipple.
• Operating pressure: 6,5 bar. Filtered and lubricated air supply (see page 105).
• Special lubricant for pneumatic tools: see page 184.
• Follow the user instructions.

Air buffers compliant with Machines Directive 2006/42/CE.

WORK ON STEEL WIRES

INTENSIVE USE

With collet 6	66801-67
RPM	22 000
Power	253 watt (0.39hp)
Outlet shaft thread	3/8"
Air consumption (L./min)	133
Noise level db(A)	103
Dimensions (mm)	L.175 x Ø 50
Weight (kg)	0.6

S 4788-1
Spare
collet 6 mm
with keys for air buffer
66801-67

WORKING ON RUBBER

Air buffers and adaptors

adaptors for chucks 10 mm

Recommended for TRP placement.

	66799-67	66800-67
RPM	800	4000
Power	335.56 watt (0.45 hp)	291 watt (0.39 hp)
Outlet shaft thread	3/8"	3/8"
Air consumption (W./min)	119	142
Noise level db(A)	95	101
Dimensions (mm)	L. 200 x W. 150 x Ø 45	L. 248 x Ø 50
Weight (kg)	1.34	1.06

65794-67	65795-67
10 mm chuck with key for 66800-67	Automatic chuck 10 mm for 66800-67
65131-67	
Chuck key 10 mm (spare)	

65796-67
Supply and exhaust kit for air buffer,
L = 74 cm

Connect a quick coupler 65088-67 onto the hose.

Adaptor

	S 4310-1	60895-67	60893-67
Tapping	3/8"	M14	3/8"
Stem (mm)	6	8	8
Accessories		with 1 nut	with 1 collar nut

65578-67
360° bi-directional nipple.
Keeps the hose straight and strain-free.
Improves handling and use of pneumatic tools and inflating gauges.
Inlet: G 1/4 female
Outlet: G 1/4 male
Flow: 0 to 45 m3/h under 7 bar

P/N suffix: -1 or -67 = per unit

WORKING ON RUBBER

- Nipples with a **hexagonal head in "inches" (hex. 11 mm)**.
- Common use on French aftermarket.

Air buffer and chuck

- Special lubricant for pneumatic tools: see page 148.
- Two-way connector: see page 106.

Connect a quick coupler 65088-67 onto the hose.

66800-67	65307-67	65796-67
4000 r.p.m. (see specifications page 141) Order chucks separately	Quick chuck threaded 3/8" female x 24 UNF for air buffer 4000 r.p.m maximum	Supply and exhaust kit for air buffer, L = 74 cm

Female adaptors

	65446-67	65818-67	65308-67	65447-67	65448-67
Stem (mm)	3	4,5	6	8	10
Accessories	With BTR key	With BTR key	With BTR key	With BTR key	With BTR key
Intented use	For tools Ø 3 mm	For tools Ø 4,5 mm	For tools Ø 6 mm	For tools Ø 8 mm	For tools Ø 10 mm

Male adaptors

For shaft machine page152

	65309-67	65310-67	65311-67	65312-67
Thread	3/8" x 24 UNF	3/8" x 24 UNF	M14	M14
Thread length (mm)	16	24	12	31
Accessories	With 1 nut	With 2 nuts	With 1 nut	With 1 nut

P/N suffix: -67 = per unit

AIR BUFFERS AND ADAPTORS

WORKING ON RUBBER

Nipples **hexagonal head "metric" type (hex. 12 mm)**.

Air buffer and chuck

- Special lubricant for pneumatic tools: see page 148.
- Two-way connector: see page 106.

Connect a quick coupler 65088-67 onto the hose.

66800-67	67246-67	65796-67
4000 r.p.m. (see specifications page 141) Order chucks separately	Quick chuck threaded 3/8" female x 24 UNF buffer 4000 r.p.m maximum Low speed air buffer	Supply and exhaust kit for air buffer, L = 74 cm

Female adaptors

	65476-67	65746-67	67250-67	65427-67	65428-67
Stem (mm)	3	4,5	6	8	10
Accessories	With BTR key	With BTR key	With BTR key	With BTR key	With BTR key
Intented use	For tools Ø 3 mm	For tools Ø 4,5 mm	For tools Ø 6 mm	For tools Ø 8 mm	For tools Ø 10 mm

Male adaptors

	67248-67	67249-67
Thread	M10	3/8" x 24 UNF
Thread length (mm)	24.5	11
Accessories	With 1 nut and 2 washers	With 1 nut

P/N suffix: -67 = per unit

SKIVING TOOLS AND ACCESSORIES

RASPS AND TOOLS FOR RUBBER

Grit types:	Fine grit (GF) 60 or 170	Medium grit (GM) 36 or 230	Large grit (GG) 24 or 330	Very large grit (TGG) 16 or 390

INTENSIVE USE

REFERENCES WITH "INTENSIVE USE" MARKING = Tungsten carbide rasps characterised by smooth teeth. These rasps consist of a metal sheet support electronically coated with a certain number of steel balls (according to the particle size). These balls are in turn covered by a tungsten carbide "conical hat" using the same procedure. The smooth, even teeth provide more regular rasping and improved ventilation (reduced heating of the rubber and fewer fumes released).

- Rasps are recommended for rubber buffing and skiving.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this material.

1/2 spherical rasps

	60339-67	60340-67	60341-67	60342-67	60343-67	60344-67	60345-67	60346-67	60347-67
Grit	60	36	16	60	36	16	60	36	16
Ø (mm)	50	50	50	76	76	76	102	102	102
Width (mm)	25	25	25	32	32	32	38	38	38
Tapping	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	Ø 14	Ø 14	Ø 14	Ø 14	Ø 14	Ø 14

USE:
- Conventional adaptor S-4310-1
-Quick chuck adaptor 65309-67 or 65310-67
- Metric type quick chuck adaptor 67249-67

USE:
- Conventional adaptor 60895-67
- Quick chuck adaptor 65311-67
- Metric type quick chuck adaptor 67271-67

Adaptors for 1/2 spherical rasps

	S-4310-1	60895-67
Thread	3/8''	M14
Ø stem	6	8

	65309-67	65310-67	65311-67	67249-67	67271-67
Thread	3/8'' x 24 UNF	3/8'' x 24 UNF 8	M14	3/8'' x 24 UNF	Ø 14
Thread length (mm)	12	21	11	11	14
Hex (mm)	11	11	11	12	12

P/N suffix: -1 or -67 = per unit

SKIVING TOOLS AND ACCESSORIES

- Rasps are recommended for rubber buffing and skiving.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this material.

1/2 spherical rasps

HQ ★★★

	67620-67	S-4374-1	67621-67	S-4312-1	67622-67	67623-67	67624-67	67625-67
Grit	TGG	GM	GF	TGG	GM	GF	TGG	GM
Ø (mm)	50	50	50	76	76	76	102	102
Width (mm)	25	25	25	32	32	32	38	38
Tapping	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	Ø 14	Ø 14	Ø 14	Ø 14	Ø 14

USE:
- Conventional adaptor S-4310-1
-Quick chuck adaptor 65309-67 or 65310-67
- Metric type quick chuck adaptor 67249-67

USE:
- Conventional tool 60895-67
- Quick chuck adaptor 65311-67
- Metric type quick chuck adaptor 67271-67

Round rasps

HQ ★★★

	S-4311-1	S-4377-1	67631-67	67632-67	S-4786-1	67633-67	67634-67	67635-67
Grit	TGG	GM	TGG	GM	TGG	GM	TGG	GM
Ø (mm)	50	50	50	50	50	50	50	50
Width (mm)	7	7	10	10	13	13	19	19
Tapping	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF

USE:
- Conventional adaptor S-4310-1
- Quick chuck adaptor 65309-67 or 65310-67
- Metric type quick chuck adaptor 67249-67

USE:
- Conventional adaptor S-4310-1 or 60893-67
- Quick chuck adaptor 65311-67 or 65310-67
- Metric type quick chuck adaptor 67249-67

USE:
- Conventional adaptor S-4310-1 or 60893-67
- Quick chuck adaptor 65309-67 or 65310-67
- Metric type quick chuck adaptor 67249-67

Adaptors for 1/2 spherical and round rasps

	S-4310-1	60895-67	60893-67
Thread	3/8''	M14	3/8''
Ø stem	6	8	6

	65309-67	65310-67	65311-67	67249-67	67271-67
Thread	3/8'' x 24 UNF	3/8'' x 24 UNF 8	3/8'' x 24 UNF 8	3/8'' x 24 UNF	Ø 14
Thread length (mm)	12	21	11	11	14
Hex (mm)	11	11	11	12	12

SKIVING TOOLS AND ACCESSORIES

RASPS AND TOOLS FOR RUBBER

- Rasps are recommended for rubber buffing and skiving.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this material.

Round rasps (buffing wheels)

	60348-67	60349-67	60350-67	60354-67	60355-67	60356-67	60357-67	60358-67	60359-67
Grit	60	36	16	60	36	16	60	36	16
Ø (mm)	50	50	50	50	50	50	50	50	50
Width (mm)	3,5	3,5	5	10	10	13	10	10	13
Tapping	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF

USE:
- Conventional adaptor S-4310-1 or 63893-67
- Quick chuck adaptor 65309-67 or 65310-67
- Metric type quick chuck adaptor 67249-67

Round rasps HQ ★★★

	66686-67	66687-67
Grit	TGG	GM
Ø (mm)	108	108
Width (mm)	10	10
Ø hole (mm)	14	14

USE :
- Conventional adaptor 60895-67
- Quick chuck adaptor 65311-67
- Metric type quick chuck adaptor 67271-67

Cylindrical rasps HQ ★★★

	67629-67	67630-67	67650-67
Grit	TGG	GG	GM
Ø (mm)	102	102	102
Width (mm)	38	38	38
Ø hole (mm)	14	14	14

USE:
- Conventional adaptor 60895-67
- Quick chuck adaptor 65311-67
- Metric type quick chuck adaptor 67271-67

Adaptors for round rasps

	S-4310-1	60895-67	60893-67
Thread	3/8''	M14	3/8''
Ø stem	6	8	6

	65309-67	65310-67	65311-67	67249-67	67271-67
Thread	3/8'' x 24 UNF	3/8'' x 24 UNF 8	3/8'' x 24 UNF 8	3/8'' x 24 UNF	Ø 14
Thread length (mm)	12	21	11	11	14
Hex (mm)	11	11	11	12	12

P/N suffix: -1 or -67 = per unit

SKIVING TOOLS AND ACCESSORIES

RASPS AND TOOLS FOR RUBBER

- Rasps are recommended for rubber buffing and skiving.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this material.

Conical rasps HQ ★★★

INTENSIVE USE

	67638-67	67641-67	67640-67	67639-67
Grit	TGG	GM	TGG	GM
Ø (mm)	25	25	25	25
Length (mm)	50	50	102	102
Tapping	3/8'' X 24 UNF	3/8'' X 24 UNF	3/8'' X 24 UNF	3/8'' X 24 UNF

USE:
- Conventional adaptor S-4310-1 or 60893-67
- Quick chuck adaptor 65309-67 or 65310-67
Metric type quick chuck adaptor 67249-67

	60366-67	60367-67	60368-67	60369-67	60370-67	60371-67	60372-67	60373-67	60374-67
Grit	60	36	16	60	36	16	60	36	16
Ø (mm)	19	19	19	25	25	25	25	25	25
Length (mm)	38	38	38	50	50	50	102	102	102
Tapping	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF

USE:
- Conventional adaptor S-4310-1 or 60893-67
- Quick chuck adaptor 65309-67 or 65310-67
- Metric type quick chuck adaptor 67249-67

Adaptors for conical and cylindrical rasps

	S-4310-1	60895-67	60893-67
Thread	3/8''	M14	3/8''
Ø stem	6	8	6

	65309-67	65310-67	65311-67	67249-67	67271-67
Thread	3/8'' x 24 UNF	3/8'' x 24 UNF 8	3/8'' x 24 UNF 8	3/8'' x 24 UNF	Ø 14
Thread length (mm)	12	21	11	11	14
Hex (mm)	11	11	11	12	12

P/N suffix: -1 or -67 = per unit

SKIVING TOOLS AND ACCESSORIES

RASPS AND TOOLS WITH STEM 6 MM FOR RUBBER

- Rasps are recommended for rubber buffing and skiving.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this material.

Adaptor for tools with stem 6 mm

6	65308-67	67250-67
Hex (mm	11	12
Stem (mm)	Female adaptor for conventional quick chuck	Female adaptor for metric quick chuck

Ball and chip rasps

HQ ★★★

	66689-67	66688-67	60381-67	60382-67	60383-67
Grit	TGG	GM	60	36	16
Ø (mm)	20	20	20	20	20
Ø stem (mm)	6	6	6	6	6

Pencil rasps

	60376-67	60377-67	60379-67	60380-67
Grit	36	16	36	16
Ø (mm)	6	6	6	6
Length (mm)	65	65	102	102
Ø stem (mm)	6	6	6	6

Round rasp HQ ★★★

	67649-67
Grain	GG
Ø (mm)	30
Width (mm)	6
Ø stem (mm)	6

Chip cone sharpened rasp

	S-4378-1
Ø (mm)	15
Length (mm)	35
Ø stem (mm)	6

Ceramic emulsion cylindrical rasp

HQ ★★★

	S-4394-1
Ø (mm)	40
Ø stem (mm)	6

- Cutter specially designed for buffing the tyre before placing a PRP.
- Recommended speed: between 1400 and 4500 r.p.m.

Angular milling cutters

- These tools are designed to ream the hole before placing a PRP.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this material.

Angular milling cutters	Ø (mm)	Ø stem
S-4946-1	3	3
65580-67	4,5	6
S-4947-1	6	6
65581-67	8	6
S-4954-1	10	8

Hex (mm)	Shaft (mm)	3	4,5	6	8	10
11	Female adaptor for conventional quick chuck	65446-67	65818-67	65308-67	65447-67	65448-67
12	Female adaptor for metric quick chuck	65476-67	65746-67	67250-67	65427-67	65428-67

SCHRADER Pressure to perfection

P/N suffix: -1 or -67 = per unit

SKIVING TOOLS AND ACCESSORIES

BRUSHES

- Brushes are designed for brushing the rubber and cleaning skived areas or steel cables.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this equipment.

Brushes complete with stem

	60884-67	60885-67
Ø (mm)	55	60
Th.(mm)	8	20
Ø stem (mm)	6	6

PVC coated brushes with steel cord

Using these brushes reduces projections.

	66124-67	66125-67
Ø (mm)	63	76
Th.(mm)	8	8
Ø stem (mm)	6	6

Adaptor for tools with stem 6 mm

6	65308-67	67250-67
Hex (mm	11	12
Stem (mm)	Female adaptor for conventional quick chuck	Female adaptor for metric quick chuck

Brushes for rubber

	S-4792-1	S-4370-1	S-4979-1
Description	Set of 2 bottles + 1 washer	Set of 5 flexible brushes	Set of 5 hard brushes
Ø (mm)	45	70	70
Th. (mm)		15/100e	35/100e
Ø hole (mm)	10	10	10

USE:
- Conventional adaptor S-4368-1
- Metric quick chuck adaptor 67248-68

Adaptor

	S-4368-1
Ø stem (mm)	6
Accessories	1 nut and 2 washers

	67248-67
Thread	M10
Thread length (mm)	24,5
Hex (mm)	12

P/N suffix: -1 or -67 = per unit

SKIVING TOOLS AND ACCESSORIES

Gouges

- Rotary gouges are intended to remove rubber pieces on truck and EM tyres.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this equipment.

USE:
- Conventional adaptor 60893-6760893-67
- Quick chuck adaptor 65309-67
- Metric type quick chuck adaptor 67249-67

	65771-67	60882-67	60883-67
Tapping	3/8'' x 24 UNF	3/8'' x 24 UNF	3/8'' x 24 UNF
Ø gouge (mm)	19	32	50
Qty per box	Box of 4	Box of 3	1

Adaptors for gouges

	60893-67
Thread	3/8''
Ø stem	6

	65309-67	67249-67
Thread	3/8'' x 24 UNF	3/8'' x 24 UNF
Thread length (mm)	12	11
Hex (mm)	11	12

FINISHING TOOLS

- Finishing tools allow to remove the vulcanized rubber excess.
- Speed: between 1400 and 4500 rpm.
- We advise you to wear protective goggles when using this material.

Abrasive discs

	S-4789-1	65851-67
Ext. Ø (mm)	60	60
Width: (mm)	15	30
Ø stem (mm)	6	6

Porte-outils pour outils de finition

6	65308-67	67250-67
8	65447-67	65247-67
Hex (mm	11	12
Shaft (mm)	F. adaptor for metric quick coupling	F. adaptor for metric quick coupling

Rollers and emery rings

(1) (2)

	(1) 60887-67 (2) 60890-67	(1) 60888-67 (2) 60891-67	(1) 60889-67 (2) 60892-67
Description	Complete with 5 rings	1 ring only	1 ring only
Grit	60	60	40
Ext. Ø (mm)	(1) 45 (2) 75	(1) 45 (2) 75	(1) 45 (2) 75
Width: (mm)	30	30	30
Ø stem (mm)	(1) 6 (2) 8	(1) 6 (2) 8	(1) 6 (2) 8

SCHRADER Pressure to perfection

P/N suffix: -1 or -67 = per unit

SKIVING TOOLS AND ACCESSORIES

Cutters for metal

- Speed: maxi 25,000 rpm.
- Use cutter 66801-67 with a ø 6 mm stem (page 141).
- Use the stone for rubber tools P/N 60333-67.
- We advise you to wear protective goggles when using this equipment.

INTENSIVE USE

INTENSIVE USE

INTENSIVE USE

	60336-67	60337-67	S-4318-1	S-4319-1	65230-67
Type of cutter	Mushroom	Conical	Mushroom	Conical	Pencil
Ø (mm)	30	20	40	20	6
Th. (mm)	6	40	10	65	20
Ø stem (mm)	6	6	6	6	6

Cutting disc

INTENSIVE USE

Set of 2	67252-67
Ø disc (mm)	63
Ø hole (mm)	6

Adaptor

	67251-67
Ø stem (mm)	6
Accessories	1 nut and 2 washers

Stone for rubber tools

60333-67 Carborundum grinding stone with handle 170 x 30 x 20 mm for cleaning metal skiving tools.

SHAFT MACHINES AND ACCESSORIES

Shaft machines

- These professional machines are designed to work on rubber.
- Powerful with a high torque motor and adapted speed they avoid burning rubber. 1/2 HP model for truck ,agricultural and smaller eathmover tyres, and 1 HP for large earthmover tyres
- They are delivered from the factory equipped with a 14mm short stem that can be used with quick chucks. However, other handles may be used.
- Follow the user instructions.

	67255-50	67262-50
Description	Electric shaft machine, single speed 3000 rpm on 4-wheel trolley with flexible hose 2 m, Ø 10, with adaptor handle with A 14mm stem Emergency stop button	Electric shaft machine, single speed 3000 rpm, on 4-wheel trolley with flexible hose 2 m, Ø 12, with adaptor handle with A 14mm stem Emergency stop button
Power	1/2 CV - 230 V, 50 HZ	1 CV - 230 V, 50 HZ
Dimensions (mm)	L. 50 x W. 50 x H. 150	L. 50 x W. 50 x H. 110
Weight (kg)	38	42

We advise you to wear protective goggles when using this equipment: see page 153.

Accessories for shaft machines

(1) For shaft machine 1/2 HP
(2) For shaft machine 1 HP

(1) 67256-67 (2) 67263-67	(1) 67257-67 (2) 67264-67	(1) 67260-67	(1) 67258-67 (2) 67265-67	(1) 67259-67 (2) 67266-67	(1) S-4301-1
Outer sheath for hose, L. = 2 m	Inner core for hose, L. = 2 m (1) Ø 10 mm (2) Ø 12 mm	Drive for hose between sheath and handle	Long stem handle of 14 mm + washers + nut	Short stem handle of 14 mm	Complete hose 2 m, Ø 10 mm (sheath + cord + collet chuck for tool with Ø 6 mm stem only)

(1) (2) S-4304-1	(1) (2) 66025-67	(1) (2) 65607-67
14 thread collet chuck for use with 6 stem on hoses	Hex. chuck 11 mm - M14	Grease cartridge for shaft machine inner core

Shaft machine inner core must be fully lubricated once a year: grease P/N 65607-67

Male adaptors for shaft machines

	67270-67	67271-67	67279-67	65312-67
Thread	M14	M14	M10	M14
Thread length (mm)	40	14	12	31
Hex (mm)	12	12	12	11
Accessories	With 1 nut	With 1 nut	With 1 nut and 1 washer	With 1 nut

- Other adaptors: see pages 142 and 143.
- Complete range of skiving tools in hole Ø 14 mm for shaft machines on pages 144 to 146.

SCHRADER Pressure to perfection

P/N suffix: -1 or -50 or -67 = per unit

TOOLS FOR SHAFT MACHINES AND PERSONAL PROTECTION EQUIPMENT

TOOLS FOR SHAFT MACHINES

Shaft machines on page152

Brushes

- Brushes are designed for brushing the rubber and cleaning skived areas or steel cables.
- Speed: between 1400 and 4500 rpm.

	S-4369-1	S-4306-1	S-4340-1
Description	Jeu de 2 flasques	Jeu de 5 brosses	
		Souples s/câbles métal	Dures s/caoutchouc
Ø (mm)	65	90	90
Th. (mm)	68	15/100e	35/100e
Ø hole (mm)	14	14	14

USE: adaptors for shaft machines 67270-67 (Hex. 12 mm) or 65312-67 (Hex. 11 mm) see page 152.

Sharpened round rasps

	S-4787-1	S-4978-1
Tapping	14	10
Ø (mm)	60	40
Length (mm)	15	10

USE: adaptors for shaft machines 67271-67 (M14) and 67279-67 (M10) see page152.

Adaptor

	67270-67	65312-67	67271-67	67279-67
Thread	M14	M14	M14	M10
Thread length (mm)	40	31	12	12
Hex (mm)	12	11	12	12

Safety glasses

Recommended for buffing and skiving.

60306-67	60307-67	66084-67
High-protection glasses, adjustable arms with scratch-proofing, single screen with side protectors	Safety overglasses with wide field of vision, lateral reflection-proof arms, ideal for corrective glasses	Frame with monoblock panoramic screen in mist-proof and scratch-proof polycarbonate. Its front protection integrated with the screen ensures optimum coverage of the face without obstructing the field of vision. Rounded arms. 100% UV filtration. Come with nylon string. Standard: EN 166

Safety gloves

Recommended for all repair and maintenance operations.

Dyneema®/ Lycra seamless knit®/ grey printed polyester, induction polyurethane on palm and fingertips.
Aerated back. Elastic sleeves.
Colours: printed, induction grey.
Length: 25 cm.

66082-67	66083-67
Tear-proof repair gloves, size 9	Tear-proof repair gloves, size 10

PNEUMATIC HAMMERS AND VACUUM CLEANERS

Pneumatic hammers

- Operating pressure: 6-8 bar.
- Filtered and lubricated air supply (see page 105).
- Connect a quick coupler 65088-67 onto the hammer.
- Compliant with Directive 2006/42/EC.

	67231-67	66802-67
Description	Pneumatic hammer for flattening earthmover patches	Pneumatic hammer for flattening for applying truck, farm vehicle and earthmover patches
Weight (kg)	1,8	3
Connection	G 1/4	Tapping G 1/4

	66664-67	65984-67	66803-67
Spare parts	Head for 67231-67	Spring for 67231-67	Rubber nipple for 66802-67

Vacuum cleaners

- Operating pressure: 7 bar.
- Supply with non-lubricated filtered air (see page 105).

	65192-67	67215-67
Description	Pneumatic vacuum for dust and balancing beads.	Vacuum cleaner 1100 W., 180 m3/h, tank 15 l. (bagless) with accessories
Weight (kg)	1,2	9,3
Connection	G 1/4	Tapping G 1/4

SCHRADER Pressure to perfection

P/N suffix: -67 = per unit

SMALL HAND TOOLS

Knives

Cut-proof safety gloves and safety glasses: see page 153.

	Description	Long blade (mm)
17-249	Curved knife	85
17-248	Knife with straight blade 10 cm	100
67227-67	Knife with ABS sleeve	160
67228-67	Knife with ABS sleeve	120
67229-67	Knife with ABS sleeve	280
60338-67	Stone for rubber tools 230 mm	

Stitcher rollers and probing awl

	Description	Ø roller (mm)	Width: (mm)
33374-67	Probing awl	30	
R-5028-1	Stitcher roller	34	9
60881-67	Toothed fine stitcher	25	2
17-244	Toothed stitcher	38	2
17-245	Toothed stitcher	38	6
17-246	Toothed stitcher	50	6
33380-67	Steel roller	42	25
67224-67	Toothed stitcher	42	12
67225-67	Stitcher with points	50	40
67226-67	Box of 3000 points for stitcher 67225-67		

Pliers

	Description
65219-67	Demultiplication steel wire cutting pliers
60332-67	Diagonal steel wire cutting pliers
67221-67	Front cutting pliers for steel wire
67220-67	Multiple-slip nipper
65126-67	Circlips pliers 45º

65219-67

60332-67

67221-67

67220-67

65126-67

Brushes, mallet, rule, screwdriver, scissors, defacing tool

	Description	Length (mm)
67218-67	Rubber mallet	320
67222-67	Short shaft whisk broom	290
67230-67	Rule	315
65279-67	Steel convex brush	255
65812-67	Grater	150
66085-67	Stainless steel straight brush 0.35, 4 rows, body in beech	310
65127-67	Screwdriver 10x200 for probing of tyres	200
60886-67	Scissors	200
67233-67	Tool for removing the tyre registration number (delivered with its blade)	
67234-67	Replacement blade	

Portable lamp

V1463

LED lamp
- Autonomy 5 h.
- NiMH rechargeable battery, lasts 3 h.
- ON/OFF switch.
- 360° hook.
- Magnetic plate for fixture on back.
- 28 Leds.
- Beam 50 cm = 1400 lux.
- 100-230 Volt AC, 50/60 Hz.
- Protection IP40 (NB, not watertight).

P/N suffix: -67 = per unit

TYRE MARKERS

- These electrically heated marking appliances are used for marking tyres by burning at a temperature of approx. 350ºC.
- The following items may be placed in the groove of "Standard", "Super" appliances: separate numbers or letters, or a text or logo on a removable plate.
- Power 230 V single phase with earth.

	Description	Power	Possible engraving area (mm)	Length (mm)	Weight (kg)
60181-67	"SUPER" MARKER Fitted with 135 x 64 mm rectangular head with groove. Ready for use after 20 minutes. The following items may be inserted: - 15 separate figures or letters, height 10 mm - 10 separate figures or letters, height 20 mm - 1 personalised logo engraved on removable plate	400 W	135 x 64	370	2
67469-67	"STANDARD" MARKER Fitted with 85 x 64 mm rectangular head with groove. Ready for use after 15 minutes. The following items may be inserted: - 9 separate figures or letters, height 10 mm - 5 separate figures or letters, height 20 mm - 1 personalised logo engraved on removable plate	200 W	85 x64	370	1,5

	Letter	Height (mm)
67471-1R	R	10
67471-1E	E	10
67471-1P	P	10

	Letter	Height (mm)
67472-2R	R	20
67472-2E	E	20
67472-2P	P	20

All letters and numbers available on request.

60235-67

Tyre markers power 300 W.
Capacity 6 Letters or Numbers height 12 mm reaches its temperature after 20 min.

All letters and numbers available on request.

	60236-67	60237-67	60238-67
Letter	R	E	P

If the tyre marker is left on during breaks, it may overheat and get damaged.

Extract from the «Tyre repair Guide» printed by "Les professionnels du pneu"
"Tyre repairs with patches and vulcanization in conformity with all repair process standards and control standards are marked with an indelible marking.
1) A mark inside clearly identifying the repairer will be affixed to the repair itself.
This marking will include the first six numbers of the repairer's RC (starting form the left) or name.
2) On the outside, a hot stamping will show "REP" on the fitting line vertical to the repair.

As of 1st January 2009, no more hot vulcanizing repairs on tyre sidewalls can be made without the "REP" marking.
Application for cars equipped with repaired tyres according to professional practice code: as of 1 January 2012, all tyres repaired on sidewall and according to professional practice code must be stamped with "REP" marking.
(1) Tyre marker (see above model) - (2) Aluminium plaque P/N 65822-67

P/N suffix: -67 or -1R or – 1E or -1P or -2 R or -2E or -2P = per unit

SPREADERS, REPAIR TABLE AND VACUUM KIT

Tyre spreader

33705-67 Tyre spreader for workbench

Mechanical tyre spreader

	66810-67	66811-67
Manual tyre spreader	Truck	Earthmover

Repair table

67214-67 This is an essential component for all truck or earthmover repair stations.
This highly mobile trolley (4 swivel wheels) accompanies the operator and ensures that all the necessary repair tools are within his reach.
Size: L 55 x W 55 x H 115 cm.
Weight: 35 kg

Mobile vacuum kit HQ ★★★

65329-67

Comprenant :
- 1 **Dust catcher** (mounted on 4 swivel wheels) : Filtering surface 16.5 m2. Flow rate 1500 m3/h.
Three-phase motor ventilator; 3 kw, 2900 rpm. Automatic declogging of cartridge by vibration: three-phase motor vibrator 90 w, 1425 r.p.m.
Dimensions (without wheels) Width 622 x D. 733 x H. 1731 mm.
Weight: 170 kg. Noise level < 75 dB.
- 1 **extraction articulated arm on 360° swivelling ball bearing:**
With 3 friction articulations. Length 2 m. Diameter 160 mm.
Nozzle, removable and orientable to 110° in all directions, equipped with a protection grid and a manual nozzle valve. Halogen lighting.
- 1 **repulsing kit** with polyurethane hose Ø 200 mm, scope of action 4 m.

P/N suffix: -67 = per unit

REPAIR SUPPORTS-LIFTS-SPREADERS

Support - Lift - Spreader 300 Kg

- Low position: Place the tyre on the 2 rollers, position the claws and spread the tyre's beads.
- High position: With the control station's lever, raise the spreader-tyre assembly.
- Control station with tray for tools.

67201-67 Spreader-lift enabling the operator to work at a comfortable height without having to bend down.
Possible intermediate positions.
Can be embedded.
Necessary working surface 3m2.
Maximum lifting capacity: 20,5 R 25
Maximum size capacity without lifting: 23.5 R 25
Lifting strength at 12 bar: 200 kg
Lifting strength at 15 bar: 300 kg
Lifting stroke: 450 mm
Air inlet: 1/4". Maximum pressure: 16 bar.
Size: L. 1.2 x W. 0.8 x h 0.90 m.
Weight: 160 kg.

66154-67 Ramp option with assembly parts for lift-spreader 67201-67

REPAIR SUPPORTS-LIFTS

- Allows the operator to work at a comfortable height without having to bend down or handle the tyre.
- Makes tyre inspection and repair easier.
- Max operating pressure: 7 bar. Use a Filter-Regulator-Lubricator on the compressor outlet.
- We advise you to wear protective goggles, gloves and footwear when using this equipment.
- Follow the user instructions.

CE Machines compliant to the provisions of "Machines" Directive 2006/42/CE and to the corresponding national regulations.

1.5 T. models

- Hydraulic raising/lowering, actuated by the operator with a lever located on the pump at the rear of the device.
- Rollers rotate freely in the hand.
- Safety in the work position due to pin with 6 possible positions.
- The lower part of the tyre is free to enable the straps of a vulcanizer VSM 200 to be passed through it.

The device can be immobilised by means of the 2 screws on the base plate.

Maximum tyre size: 33/25 R35
Lifting strength: 1.5 T
Maximum lifting capacity: 1500 kg
Lifting stroke: 800 mm
Dimensions: L.1940 x W.1450 x H.1525 mm
Necessary working surface area: min. 1 metre around the device
Maximum pressure: 700 bar
Tare weight: 300 Kg
Rollers ø 90 mm with useful length 950 mm

HQ ★★★

67208-67 Model with raising/lowering of the jack by manual hydraulic pump

66139-67 Model with a 2L air hydraulic pump (Remote controlled raising and lowering)

REPAIR SUPPORTS-LIFTS

• Allows the operator to work at a comfortable height without having to bend down or handle the tyre.
• Makes tyre inspection and repair easier.
• Max operating pressure: 7 bar. Use a Filter-Regulator-Lubricator on the compressor outlet.
• We advise you to wear protective goggles, gloves and footwear when using this equipment.
• Follow the user instructions.

Machines compliant to the provisions of "Machines" Directive 2006/42/CE and to the corresponding national regulations.

3 T. model

- Hydraulic raising/lowering by a jack controlled by a hydraulic unit at 200 bar with braking system on lowering.
- Rotation of electric rollers with double rotation.
- Safety in the work position due to pin with 5 possible positions.
- The lower part of the tyre is free to enable the straps of a vulcanizer VSM 200 to be passed through it.
- Lighting enabling the operator to work inside the tyre.
- Electric cabinet at rear, including raising/lowering buttons and all electrical safeties and also the hydraulic unit.

67210-67

HQ ★★★

Maximum tyre size: 36/00 R45 inclusive.
Lifting strength: 3 T.
Maximum lifting capacity: 3000 Kg
Lifting stroke: 700 mm
Dimensions: L. 2300 x W. 1740 x H. 1700 mm.
Necessary working surface area: min. 1 metre around the device.
Maximum pressure: 200 bar.
Interfacing: three-phase 380V plug (not provided).
Tare weight: 500 Kg
Rollers ø 100 mm with useful length 1100 mm.

This lift must be supported by concrete with certain regulations.
Please contact us for more information.

7 T. model

- Choice of positions at intermediate heights.
- Remote controlled raising/lowering of the cradle and rotation of rollers.

- Hydraulic raising/lowering by a jack controlled by a hydraulic unit at 200 bar with braking system on lowering.
- Rotation of rollers controlled by a variable speed reducing gear, driving each roller by means of a chain.
- Right/left rotation with direction selector and adjustable roller rotation speed.
- Operated from a suspended control station with rotating boom, thus leaving the ground completely clear.
- Safety in the work position due to pin with 6 possible positions.
- The lower part of the tyre is free to enable the straps of a vulcanizer VSM 200 to be passed through it.
- Lighting enabling the operator to work inside the tyre.
- Electric cabinet at rear, including all electrical safeties and also the hydraulic unit.
- Detachable base for transportation.

67213-67

HQ ★★★

Maximum tyre size: 59/80 R63.
Lifting strength: 7 T.
Maximum lifting capacity: 7000 Kg
Lifting stroke: 700 mm
Dimensions: L. 2900 x W. 2245 x H. 2200 mm.
Necessary working surface area: min. 1 metre around the device.
Maximum pressure: 200 bar.
Interfacing: three-phase 380V plug (not provided). Tare weight: 1600 Kg
Rollers ø 160 mm with useful length 1300 mm.

This lift must be supported by concrete with certain regulations.
Please contact us for more information.

P/N suffix: -67 = per unit

Presentation

Schrader for earthmover tyres:
- Development of new products.
- Continuous improvement of products.
- Needs audit.
- Study of profitability.
- Placement and start-up of complete workshops up to 63".
- Installation of workshops.
- Technical and practical training.
- Technical assistance.
- Marketing support.

Already active in the passenger cars and trucks market, Schrader is targeting new development in the earthmover and farm vehicle aftermarket.

The worldwide EM tyre shortage coupled with the raw material price increases have resulted in a higher demand for professional, high-performance repair of tyres during their lifetime, repairs that guarantee conservation of tyre properties and performances.

Schrader offers a range of equipment for professionals to meet their customers' requirements and to train and provide turnkey solutions for the repair specialist, industry, public works and mining companies...

- We recommend wearing protective goggles, footwear, gloves and ear protection when executing repairs.
- We advise you equip your workshop with a mobile vacuum kit P/N 65329-67 (see page 158).
- Follow the corresponding fitting and application instructions to make repairs according to professional practice codes, i.e. adhering to repairability criteria and performing each operation according to a well defined procedure, whatever the repair procedure.

- The benefits of these vulcanizers are flexibility, their small size and their ability to repair tires of all sizes.
- Uniformed pneumatic pressure on the patch.
- Durable repair and perfect finish.
- It allows operators to vulcanize the patch up to the casing beads' outermost point.
- Allows operators to vulcanize the patch in its optimum position without stressing it.
- Schrader can supply spare parts and original accessories for all of the machines produced by MARCHAL * MONAFLEX * and * FONMAR using airbags.

SAFETY INFORMATION
Vulcanizing devices must always work under the supervision of an operator.
- Disconnect the cabinet from the mains as soon as the Vulcanization is finished.
- Never work in a cabinet without disconnecting the mains.
- These vulcanizers are equipped with a differential circuit breaker.
- Vulcanizers: Max supply pressure 2 bar with filtered and non-lubricated air.

** MARCHAL, MONAFLEX and FONMAR are registered trade marks, property of MARCHAL, MONAFLEX and FONMAR.*

MANUAL VULCANZING PRESS “M50”

- Portable vulcanizing press for repairing all types of tyre .
- 2 heating units.
- Constant pressure in the tyre throughout the operation.
- Timer.
- Leg for ground fixture optional extra.

65897-67	Specifications	
Device delivered complete	Power supply	230 V 2 P + T
	Power (W)	1200
	Weight (kg)	29,4
	Dimensions of heating unit (cm)	19 x 10
	Device dimensions (cm)	L. 63 x W. 20 x H. 98

65982-67 Directionable stand optional extra

P/N suffix: -67 = per unit

VULCASCHRAD" VULCANIZERS

"VULCASCHRAD"

Conform to EC Standard, electromagnetic compatibility standard for regulation: EN 61326.

With regulating cabinet 2 thermoregulators adjustable from 0 to 140°C, heating pads, heating moulds and shaping airbags for sidewalls.

	67295-67	67296-67
Applications		
Description	Vulcaschrad complete passenger car low profile	Vulcaschrad complete passenger car, passenger car low profile, light truck and 4 x 4)
Tyre series	30 to 80	30 to 85
Accessories included	• 2 moulds (P/N 67297-67 and 65667-67) • 2 airbags (P/N 67301-67 and 67319-67)	• 2 moulds (P/N 67297-67 and 65667-67) • 2 airbags (P/N 67301-67 and 67319-67)

Specifications		
Power supply	230 V 2 P + T 16 A 30 mA	
Power (W)	800	
Timer (Time)	0 - 12	
Weight (kg)	30 (67295-67)	38 (67296-67)
Heating mould temperature (maxi °C)	145	
Heating pad temperature (°C)	120	
Operating pressure (bar) dry air calibrated	2	
Maxi patch code	140	
Average curing time (min)	60	
Cabinet dimensions (cm)	L. 20 x W. 20 x H. 30	
Device dimensions (cm)	L. 106 x W. 30 x H. 54	

• This device is very easy to install.
Suitable for most tyres.
• Electronic setting to set the heating temperature according to the type of tyre used, for optimum and simultaneous curing from the bead to the tyre crown and regular pressure around the patch, especially at the shoulder.

"VULCASCHRAD" INDUSTRIAL

Designed for specialist shops for mass-production jobs.

• If you require set up or use advice please contact us.
• Control moulds and airbags separately.

	66836-67
Applications	
Description	Passenger car, passenger car low profile, light truck and 4 x 4
Device alone	Regulating cabinet, + rear support, + 1 heating pad (TCR)

Specifications	
Power supply	230 V 2 P + T 16 A 30 mA
Power (W)	800
Circuit-breaker protection (A)	6
Weight (kg)	32
Heating mould temperature (°C)	145
Heating pad temperature (°C)	120
Cabinet dimensions (cm)	L. 20 x depth 20 x H. 30
Device dimensions (cm)	L. 106 x depth 30 x H. 54

P/N suffix: -67 = per unit

COMPONENTS FOR "VULCASCHRAD"

Spare pad

	67382-67
Description	External heating pad
Type	TCR
Dimensions (cm)	32 X 21

Spare moulds

	65667-67	67297-67	67299-67
Description	Sidewall mould	Sidewall mould	Sidewall mould
Applications	Low profile		
Série pneu	30 to 65	65 to 80	75 to 85

Spare airbags

	67319-67	67301-67	67303-67
Description	Sidewall airbag	Sidewall airbag	Sidewall airbag
Applications	Low profile		
Tyre series	30 to 65	65 to 80	75 to 85

Intermediary protections

	66850-67
Description	Intermediary protection with fixtures

•Vulcanizing devices must always work under the supervision of an operator.
• Disconnect the cabinet from the mains as soon as thev ulcanization is finished.
• Never work in a cabinet without disconnecting the mains.
• These vulcanizers are equipped with a differential circuit breaker to optimise operator safety.

P/N suffix: -67 = per unit

VULCANIZERS "VSM": CHOICE OF MATERIAL

- You choose what material to use according to the size and type of tyre to be repaired.
- The below table gives the recommended material.
- Contact our specialists for any further information.

VULCANIZER	Maxi patch code 140	Maxi patch code 144	Maxi patch code 186 or 052	Maxi patch code 150	Maxi patch code 156	Maxi patch code 162
VSM 150	66662-67		on request			
VSM 150	66663-67					
VSM 200	V1	V2	V2 + V3	V2 + V4	V2 + V4 + V5	V2 + V4 + V5 + V6
VSM 204	V1	V2	V2 + V3	V2 + V7	V2 + V7 + V5	V2 + V7 + V5 + V6
VSM 208	V1	V2	V2 + V3	V2 + V7	V2 + V7 + V8	V2 + V7 + V8 + V9

VERSION 1
66827-67

- 2 TCR pads (67382-67)
- 2 flat airbags C13 (65445-67)
- 1 protection screen (65870-67)
- 2 inflating extensions (67445-67)
- 3 straps L = 3 m (66837-67)
- 2 sets of 6 compensation bags (65875-67)
- 6 tubes 60 mm x 400 mm (67431-67)
- 1 talc (65834-67)

VERSION 2
66828-67

- 2 pads T1 (67383-67)
- 2 flat airbags C2 (65444-67)
- 1 protection screen (67418-67)
- 2 inflating extensions (67445-67)
- 3 straps L = 3 m (67447-67)
- 2 sets of 6 compensation bags (65876-67)
- 7 tubes 60 mm x 400 mm (67431-67)
- 7 tubes 110 mm x 400 mm (65874-67)
- 1 5-hole strap guide (66838-67)
- 1 talc (65834-67)
- 1 set of 9 heat transfer bags (66840-67)

VERSION 3
66829-67

- 1 pad T1A (65865-67)
- 1 pads TIB (65866-67)
- 1 flat airbag C2B (65872-67)
- 1 protection screen (65871-67)
- 1 inflating extension (67445-67)
- 3 straps L = 5 m (67449-67)
- 1 set of 20 compensation bags (65434-67)
- 1 set of 6 filling bags (65432-67)
- 12 (*) tubes Ø 110 x 500 mm (67433-67)
- 20 (*) tubes Ø 110 x 600 mm (67435-67)

(*) up to size 1050/65R32

VERSION 4
Occasional use
66830-67

Injury 50x150, patch 150

- 1 pad T8 (67384-67)
- 1 flat airbag C31 (67404-67)
- 1 inflating extension (67445-67)
- 5 straps L = 5 m (67449-67)
- 1 set of 20 compensation bags (65434-67)
- 1 set of 6 filling bags (65432-67)
- 12 (**) tubes ø 110 x 500 mm (67433-67)
- 32 (**) tubes ø 110 x 600 mm (67435-67)

(**) up to size 40.5/75R39 - 37/25R35

VERSION 5
Occasional use
66831-67

Injury 170x140, patch 156

- 1 pad T5 (67385-67)
- 1 flat airbag C51 (67405-67)
- 1 protection screen (67419-67)
- 1 inflating extension (67445-67)

VERSION 6
Occasional use
66832-67

Injury 120x250, patch 162

- 1 pad T6 (67386-67)
- 1 flat airbag C81 (67406-67)
- 1 protection screen (67420-67)
- 1 inflating extension (67445-67)

VERSION 7
Multizone
66833-67

Injury 50x150, patch 150

- 1 pad T822 (65480-67)
- 1 flat airbag C31 (67404-67)
- 1 inflating extension (67445-67)
- 5 straps L = 5 m (67449-67)
- 1 set of 20 compensation bags (65434-67)
- 1 set of 6 filling bags (65432-67)
- 12 (**) tubes ø 110 x 500 mm (67433-67)
- 32 (**) tubes ø 110 x 600 mm (67435-67)
- 1 7-hole strap guide (66839-67)

(**) up to size 40.5/75R39 - 37/25R3

VERSION 8
Multizone
66834-67

Injury 170x140, patch 156

- 1 pad T544 (65479-67)
- 1 flat airbag C51 (67405-67)
- 1 protection screen (67419-67)
- 1 inflating extension (67445-67)

VERSION 9
Multizone
66835-67

Injury 120x250, patch 162

- 1 pad T644 (65478-67)
- 1 flat airbag C81 (67406-67)
- 1 protection screen (67420-67)
- 1 inflating extension (67445-67)

P/N suffix: -67 = per unit

VULCANIZERS "VSM 150"

Conform to EC Standard,
electro-magnetic compatibility standard
for regulation: EN 61326.

Vulcanizing devices must always work under the supervision of an operator.
• Disconnect the cabinet from the mains as soon as the vulcanization is finished.
• Never work in a cabinet without disconnecting the mains.

Specifications		
	66662-67	**66663-67**
Power supply	230 V 2 P + T 16 A 30 mA	
Max power (W)	3500	
Timer (Time)	0 - 12	
Weight (kg)	67	147
Heating pad temperature (°C)	120	
Operating pressure (bar) dry air calibrated	2	
Maxi patch code	144	144 / 186 and 052
Control box dimensions (cm)	L. 40 x depth 25 x H. 60	
Device dimensions on stand (cm)	L. 94 x depth 66 x H. 134	

	66662-67	**66663-67**
Applications		
Description	Vulcaschrad complete	Vulcaschrad complete up to size 1050/50 R32
Accessories provided	- 1 regulating cabinet VSM 150, 2 adjustable thermoregulators and its trolley with wheels - 4 inflation extensions (67445-67) - 2 heating pads 32 x 21 cm (TCR) (67382-67) - 2 heating pads 56 x 27 cm (T1)(67383-67) - 2 flat airbags 34 x 22 cm (C13) (65445-67) - 2 flat airbags 57 x 31 cm (C2) (65444-67) - 3 straps for light trucks, little size L=3m (66837-67) - 3 straps for trucks, large size L=3m (67447-67) - 1 protective screen 40 x 28 cm (65870-67) - 1 protective screen 77 x 37 cm (67419-67) - 5 plastic filling tubes ø 11, L = 27 cm (65873-67) - 10 plastic filling tubes ø 11, L = 40 cm (65874-67) - 2 set of 6 compensation bags 11 x 45 cm light truck (65875-67) - 2 set of 6 compensation bags 11 x 55 cm heavy truck (65876-67)	- 1 regulating cabinet VSM 150, 2 adjustable thermoregulators and its trolley with wheels - 5 inflation extensions (67445-67) - 2 heating pads 32 x 21 cm (TCR) (67382-67) - 2 heating pads 56 x 27 cm (T1)(67383-67) - 1 heating pads 42 x 33 cm (T1A)(65865-67) - 1 heating pads 48 x 44 cm (T1B)(65866-67) - 2 flat airbags 34 x 22 cm (C13) (65445-67) - 2 flat airbags 57 x 31 cm (C2) (65444-67) - 1 flat airbag 50 x 50 cm (C2B) (65872-67) - 3 straps for light trucks, little size L=3m (66837-67) - 3 straps for trucks, large size L=3m (67447-67) - 1 protective screen 40 x 28 cm (65870-67) - 1 protective screen 77 x 37 cm (67419-67) - 5 plastic filling tubes ø 11, L = 27 cm (65873-67) - 10 plastic filling tubes ø 11, L = 40 cm (65874-67) - 12 plastic filling tubes ø 11, L = 50 cm (67433-67) - 20 plastic filling tubes ø 11, L = 60 cm (67435-67) - 2 set of 6 compensation bags 11 x 45 cm light truck (65875-67) - 2 set of 6 compensation bags 11 x 55 cm heavy truck (65876-67) - 1 set of 20 compensation bags (65434-67) - 1 set of 6 filling bags (3 of 30 x 25cm) and (3 of 25 x 14 cm) (65432-67)

P/N suffix: -67 = per unit

VULCANIZERS "VSM 200"

Conform to electro-magnetic compatibility standard for regulation: EN 61326.

The advantages of these vulcanizers are their use adaptability, small size and capacity to repair all tyre sizes up to 59/80 R63.
• Flexible rubber heat pads and air bag conform to the profile of radial, cross ply, wide base low profile and avoid any deformation during vulcanization.
• The composition of VSMs depends on the mini and maxi size of the tyres and patches to be vulcanized.
• Electronic setting of the heating temperature according to the type of tyre used.

Single-zone vulcanizer with 2 adjustable thermoregulators adjustable from 0 to 140°C
For vulcanizing one tyre at a time

Regulating cabinet

	67370-67
Applications	
Description	Cabinet with 2 thermoregulators, 2 air regulators without stand

• 2 controlled electrical outlets with adjustment and display of real pad temperature.
• 2 air regulators controlled by adjustable pressure reducers .

65328-67 Stand option (25 kg)

Caractéristiques techniques	
Power supply	230 V 2 P + T 16 A 30 mA
Power (W)	3500
Timer (Time)	0 - 12
Weight (kg)	30
Heating pad temperature (°C)	120
Operating pressure (bar) dry air calibrated	2
Device dimensions on stand (cm)	l. 40 x depth 25 x H. 60

•Vulcanizing devices must always work under the supervision of an operator.
• Disconnect the cabinet from the mains as soon as the vulcanization is finished.
• Never work in a cabinet without disconnecting the mains.
• These vulcanizers are equipped with a circuit breaker to optimise operator safety.

Accessories

• Accessories must be ordered separately.
• Kit contents detailed on page 165 (V1 to V6).

VULCANIZER	Maxi patch code: 140	Maxi patch code: 144	Maxi patch code: 186 or 052	Maxi patch code: 150	Maxi patch code: 156	Maxi patch code: 162
VSM 200	V1	V2	V2 + V3	V2 + V4	V2 + V4 + V5	V2 + V4 + V5 + V6

P/N suffix: -67 = per unit

VULCANIZERS "VSM 204"

Conform to EC Standard,
electro-magnetic compatibility standard
for regulation: EN 61326.

- The advantages of these vulcanizers are their use adaptability, small size and capacity to repair all tyre sizes up to 59/80 R63.
- Flexible rubber heat pads and air bag conform to the profile of radial, cross ply, wide base low profile and avoid any deformation during Vulcanization.
- The composition of VSMs depends on the mini and maxi of the tyres and patches to be vulcanized.
- Electronic setting of the heating temperature according to the type of tyre used.

Single-zone vulcanizer with 4 adjustable thermoregulators adjustable from 0 to 140°C
For vulcanizing 2 tyres at a time

Regulating cabinets

	66034-67	66036-67
Applications		
Description	Cabinet of 4 thermoregulators (2x2 ways) Model without air regulators, with stand 4 controlled electrical outlets with adjustment and display of real pad temperature	Cabinet of 4 thermoregulators (2x2 way), 4 air regulators, with stand 4 controlled electrical outlets with adjustment and display of real pad temperature. 4 air regulators controlled by adjustable pressure reducers

Specifications	
Power supply	230 V 2 P + T 16 A 30 mA
Power (W)	3500
Timer (Time)	0 - 12
Weight (kg)	70
Heating pad temperature (°C)	120
Operating pressure (bar) dry air calibrated	2
Control box dimensions (cm)	L. 51 x depth 29 x H. 79
Device dimensions (cm)	L. 75 x depth 92 x H.134

- Vulcanizing devices must always work under the supervision of an operator.
- Disconnect the cabinet from the mains as soon as the vulcanization is finished.
- Never work in a cabinet without disconnecting the mains.
- These vulcanizers are equipped with a circuit breaker to optimise operator safety.

Accessories

- Accessories must be ordered separately.
- Kit contents detailed on page 165 (V1 to V7).

VULCANIZER	Maxi patch code: 140	Maxi patch code: 144	Maxi patch code: 186 or 052	Maxi patch code: 150	Maxi patch code: 156	Maxi patch code: 162
VSM 204	V1	V2	V2 + V3	V2 + V7	V2 + V7 + V5	V2 + V7 + V5 + V6

P/N suffix: -67 = per unit

VULCANIZERS "VSM 208"

Conform to EC Standard,
electromagnetic compatibility standard
for regulation EN 61326.

- Significant point of this vulcanizer: the heating temperature is regulated over the entire heating pad surface during the entire vulcanizing period.
- The VSM 208 is a device adapted to the use of multi-zone pads for better distribution of the temperature.
- The composition of VSMs depends on the mini and maxi sizes of the tyres and patches to be vulcanized.
- Electronic setting of the heating temperature according to the type of tyre used.

Multi-station curing, multi-zone, 8 thermoregulators adjustable from 0 to 140°C
Capability to Vulcanize up to:
4 truck tyres at a time or 4 farm vehicle tyres or 1 to 4 EM tyres

Regulating cabinets

	65869-67	65980-67
Applications		
Description	Cabinet of 8 thermoregulators (4x2 way), 8 air regulators, with stand	Cabinet of 8 thermoregulators (4x2 ways), model without air regulators, with stand

Specifications	
Power supply	230 V 2 P + T 16 A 30 mA
Power (W)	3500
Timer (Time)	0 - 12
Weight (kg)	80
Heating pad temperature (°C)	120
Operating pressure (bar) dry air calibrated	2
Control box dimensions (cm)	L. 51 x depth 29 x H. 79
Device dimensions (cm)	L. 75 x depth 92 x H. 134

- Vulcanizing devices must always work under the supervision of an operator.
- Disconnect the cabinet from the mains as soon as the vulcanization is finished.
- Never work in a cabinet without disconnecting the mains.
- These vulcanizers are equipped with a circuit breaker to optimise operator safety.

Accessories

- Accessories must be ordered separately.
- Kit contents detailed on page 165 (V1 to V9).

VULCANIZER	Maxi patch code: 140	Maxi patch code: 144	Maxi patch code: 186 or 052	Maxi patch code: 150	Maxi patch code: 156	Maxi patch code: 162
VSM 208	V1	V2	V2 + V3	V2 + V7	V2 + V7 + V8	V2 + V7 + V8 + V9

P/N suffix: -67 = per unit

COMPONENTS FOR "VSM" VULCANIZERS

IMPORTANT: refer to our "Heating pad operating instructions".

Mono-zone flexible heating pads

T. 100 to 120°C with protective film, for cabinets VSM 150, VSM 200, VSM 204 and VSM 208

The code is affixed to one corner of the pad.

66797-67 Set of 25 mould release sheets 20 x 50 cm

Pad	Code	Dimensions (cm)	Use	Protection sheet
67382-67	TCR	32 x 21		66551-67
67383-67	T1	56 x 27		66544-67
65865-67	T1A	42 x 33		66545-67
65866-67	T1B	48 x 44		66546-67
67384-67	T8	73 x 35		66550-67
67385-67	T5	86 x 44		66548-67
67386-67	T6	112 x 44		66549-67
67388-67	T2	52 x 49		66546-67
67389-67	T3	66 x 69		66547-67
67390-67	T7	81 x 87		66552-67

- Never leave the heating pad unattended during a vulcanization.
- The pad must be powdered with talc on each side before use.. (see talc page 131).
- Handle pads only with the power off (not connected to the cabinet) and with two hands in order to avoid damaging them.
- Never pick up the pads by the electrical connections.
- Store the pads flat. • Properly chock pads during vulcanization.

Multi-zone flexible heating pad

T. 100 to 120°C with protective film, for cabinets VSM 208

Pad	Code	Dimensions (cm)	Use	Protection sheet
66805-67	T22	52 x 49		66546-67
65480-67	T822	73 x 35		66550-67
65479-67	T544	86 x 44		66548-67
65478-67	T644	119 x 44		66549-67
66847-67	T33	54 x 66		66547-67
66848-67	T34	69 x 66		66547-67
66849-67	T76	76 x 90		66552-67

Protective screens

- These pads are divided into several heating zones in order to provide better thermal regulation.
- The heating temperature is regulated over the entire heating pad surface during the entire vulcanizing period.

Screen	Dimensions (cm)
65870-67	40 x 28
67418-67	75 x 35
65871-67	60 x 60
67426-67	90 x 90

Screen	Dimensions (cm)
67419-67	77 x 37
67420-67	100 x 60
67421-67	130 x 60
67428-67	110 x 110
67425-67	75 x 75

P/N suffix: -67 = per unit

COMPONENTS FOR "VSM" VULCANIZERS

Flat airbags

Valve positioned laterally to the length.

Airbags	Code	Dimensions (cm)
65445-67	C13	34 x 22
65444-67	C2	57 x 31
65872-67	C2B	50 x 50
67411-67	C90	80 x 80
67404-67	C31	75 x 35
67405-67	C51	100 x 50
67406-67	C81	120 x 50
67407-67	C120	120 x 60
67412-67	C95	100 x 100
67410-67	C60	60 x 60
67409-67	C40	40 x 40
67445-67	Extension for flat airbag, L=50 cm	

Plastic rigid filling tubes

Tubes	Dimensions Ø x L. (cm)	Use
65873-67	11 x 27	
67431-67	6 x 40	
65874-67	11 x 40	
67432-67	9 x 50	
67433-67	11 x 50	
67434-67	9 x 60	
67435-67	11 x 60	

Pressure and heat transfer bags, filled with agglomerate balls

Bags	Dimensions (cm)
65601-67	11 x 11
65602-67	13 x 18
65603-67	16 x 22
66841-67	8 x 30
66842-67	8 x 23
66843-67	14 x 27
66844-67	10 x 43
66845-67	18 x 33
66846-67	17 x 30
66840-67	Set of 9 bags (1 of each P/N)

External filling bag to avoid deformation of the pad

(sold empty)

Filling bag	Dimensions (cm)	Use
65432-67	Set of 6 bags: - 3 bags 25 x 14 - 3 bags 30 x 25	

P/N suffix: -67 = per unit

Compensation bags for internal wedging

(sold empty)

Compensation bags	Quantity	Dimensions (cm)	Airbag corresponding	Use
65875-67	Set of 6	11 x 45	C13	
65876-67	Set of 6	11 x 55	C1, C2, C31	
65434-67	Set of 20	15 x 70	C31, C51, C81	

Cylindrical airbags

Airbags	Dimensions (cm) Ø side x Ø centre x L.
65548-67	112 x 119 x 81
65549-67	96 x 107 x 81
65550-67	69 x 81 x 81
65551-67	43 x 53 x 61
65552-67	33 x 38 x 51
65560-67	23 x 28 x 33
65559-67	33 x 38 x 33

Flat internal airbags

Airbags	Dimensions (cm)
65545-67	190 x 81
65546-67	137 x 81
65547-67	122 x 66

External airbag, guide and strap sets

65747-67	Airbag 56 x 33 ext. (65563-67) + guide + 4 straps (65564-67)
65748-67	Airbag 66 x 53 (65537-67) + guide + 5 straps (65536-67)
65749-67	Airbag 122 x 81 (65535-67) + guide + 6 straps (65534-67)
65728-67	Extension for flat or cylindrical airbags L = 30 cm

Straps	L. x W. (cm)	Type of tensioner
67446-67	Mini strap 350 x 2.5	Mini
66837-67	300 x 5	Small
67447-67	300 x 5	Large
67448-67	400 x 5	Large
67449-67	500 x 5	Large
67450-67	600 x 5	Large

Guides-sangles	Type of tensioner
66838-67	5
66839-67	7

SCHRADER Pressure to perfection

P/N suffix: -67 = per unit

Installation of components in the tyre

Everything you need to properly maintain tyres.

The **LABELLING SYMBOLS FOR HIGH-RISK PRODUCTS ARE GIVEN** for information purposes only. The products are liable to change and their safety sheets are available at your disposal.

STORAGE OF PARTS:

To maintain the expiry dates, store the parts, products and solutions:
• In a clean dry place
• Away from frost and heat
Keep the containers closed

Follow the user instructions.

SERVICE TOOLS AND EQUIPMENT

- Products for tyre mounting and removal: Tyre paste, cream, gel, lubricant, sealant and brushes 176
- Marking chalks and STYLMARK 177
- Workshop service range: penetrating oil, degreaser, soap 178
- Tyre regroovers 179
- Tread depth gauges 180
- Mounting tools and levers 181
- Impact wrenches, pneumatic tool lubricant 184
- Impact wrenches 186
- Torque wrenches 190
- Hydraulic bottle jacks 191
- Adjustable props 191
- Air hydraulic jacks 192
- Pneumatic and hydraulic bottle jacks 194
- DSPLC: truck bead-breaker 195
- Rim breakers DISMA and LESMA 195

TYRE MOUNTING AND REMOVAL PRODUCTS

White cream for tyres

+50°C
-15°C

SDS

UNIVERSAL	
65947-67	1 kg bucket (per unit)
65947-71	1 kg bucket (per 8)
65948-67	3 kg bucket
65949-67	5 kg bucket

Expiry date: 1 year after the packing date.

Black cream for tyres

+50°C
-15°C

SDS

UNIVERSAL BLACK	
66179-67	1 kg bucket (per unit)
66179-71	1 kg bucket (per 8)
66180-67	3 kg bucket
66181-67	5 kg bucket

Spray lubricant

SDS

SOCOLUB V 0690		
65023-67	400 ml. spray Lasts for 100 mounts	Per unit
65023-12		Per 12

Expiry date: 2 years after the packing date.

Mounting grease

- For the mounting and removal of truck, earthmover and handling machinery tyres.
- Not for use on car or motorcycle tyres.

HQ ★★★

€

+50°C
-18°C

SDS

	T-GREASE +	T-GREASE
	66046-67	66045-67
Weight (kg)	4	4
Use	NB: This product freezes at -18°	

- Keeps 1 year after opening.
- Expiry date: 2 years after the packing date.

- Keeps 6 months after opening.
- Expiry date: 1 year after the packing date.

+50°C
-18°C

SDS

TIGRE 80	
R-5084-1	4 kg bucket (per unit)
R-5084-0	4 kg bucket (per 6)

Expiry date: 2 years after the packing date.

P/N suffix: -1 or -67 = per unit -0 = per 6 -71 = per 8 -12 = per 12

TYRE MOUNTING AND REMOVAL PRODUCTS

Sealer

EM inflating gel

EM lubricating gel

SDS	MAXIGEL SDS	DETAGEL SDS	
66370-67	**65226-67**	**65686-67**	**65687-67**
Bead sealer between the tyre bead and the rim edge. For car rims 945 ml can. Order topbrush 66382-67 separately (see page 129) **66318-67** = Set with bead sealer 66370-67 + topbrush 66382-67	Mounting and inflating gel for EM tyres 10 kg bucket	Lubricating gel for removal of truck and EM tyres "DETAGEL" 5-litre plastic can Storage temperature: 0 to 40° C Application temperature: 20° C **NB, this product is sensitive to freezing**	Can with applicator cap for lubricating gel 65686-67 1 L plastic can (sold empty)

Expiry date: 5 years after the packing date.

Expiry date: 1 year after the packing date.

Brushes

For tyre paste and grease		Spare heads
60804-67	Car and Truck	66152-67
60805-67	Truck and EM	66153-67

See flat brushes page 129.

Chalks and marking

CHALKS (Box of 12)	
S-4305-1	White ø 17 mm
S-4305-J	Yellow ø 17 mm
65620-67	White ø 24 mm

		SDS
65763-67	Stylmark 3 mm yellow	For all materials and surfaces 50 ml.
65764-67	Stylmark 3 mm white	

Expiry date: 3 years after the packing date.

P/N suffix: -1 or -J or -67 = per unit

Dry degreaser and lubricating oil

SDS

SDS

DRY DEGREASER	Quantity	"ACTION 7" LUBRICATING OIL	QuantitY
65720-67	Per unit	65721-67	Per unit
65720-24	Per 24	65721-12	Per 12
Removes grease, oil, brake liquids, dusts and other residues from all mechanical parts. Dries very quickly Chlorine free 500 ml. spray		Cleans, lubricates and ensures moving parts work smoothly Eliminates noises and grating, facilitates the mounting and removal of mechanical parts 400 ml spray	

Hand cleaner

SDS

"ÉCOMAIN ROUGE"	Quantity	Removes all residues: grease, paints, inks from tyre professionals' hands... Contains mild almond oil Conforms to standard AFNOR NFT 73 102 Dermatologically tested. Pump spray can 3 L
65718-67	Per unit	
65718-04	Per 4	

Expiry date: 30 months after the packing date.

P/N suffix: -67 = per unit -04 = per 4 -12 = per 12 -24 = per 24

TYRE REGROOVER

• It's a tough machine, specially designed for tyre maintenance specialists, for regrooving truck tyres.
• For regrooving, see the manufacturer's guidelines.

Includes: One template 65616-67 in each box.

PS15 PLUS	PS15 Truck STAR PLUS
S-4145-M1	**S-4145-V5**
230 V -50 Hz - Power 500 w	
- Metal case - Ergonomic handle with head that takes all blades on the market - Increased power enabling "non-stop" regrooving of truck tyre casings - Easy handling thanks to its rubber cables - In accordance with NF standard EN 60335-2-45 **63184-M1**: PS15 PLUS 120 V - 60 Hz (or 50 Hz)	- Digital display of the heating power, selection with integrated (+) and (–) buttons - 1 to 99 % adjustment of the power delivered by the transformer - Standby after 15 min. of no use. - Metal case - Particularly well designed head that takes all blades currently on the market - Increased power enabling "non-stop" regrooving of truck tyre casings - Easy handling thanks to its rubber cables - Conforms to EC electrical standards (325-1 and 325.2.45) **63184-V5** : TRUCKSTAR PLUS 120 V - 60 Hz (ou 50 Hz)

Please note. When ordering the regroover, don't forget to order the blades.

33759-67	Complete handle (slides + head + cables)
33760-67	Spare head
63183-67	Set of 2 cables
S-4736-1	Set of 2 slides
S-4391-1	Slight tightening wrench

Follow the user instructions.

Blades

• Sold in boxes of 20, except S-4730-1 per 10.
* Regrooving width approx.

Round	R1	R2	R3	R4	R5	C6
	S-4700-1	**S-4701-1**	**S-4702-1**	**S-4703-1**	**S-4704-1**	
	* 3 to 5 mm	* 5 to 11 mm	* 7 to 13 mm	* 9 to 16 mm	* 11 to 18 mm	
Square	C1	C2	C3	C4	C5	
	S-4705-1	**S-4706-1**	**S-4707-1**	**S-4708-1**	**S-4709-1**	**S-4730-1**
	* 3 to 5 mm	* 6 to 10 mm	* 8 to 12 mm	* 10 to 14 mm	* 12 to 17 mm	Agricultural profile *20 to 28 mm

65616-67 Regrooving template

P/N suffix: -1 or -67 or M1 or -V5 = per unit -M1 version 1 mechanical -V5 version 5 digital display

TREAD DEPTH GAUGES

Recommended for technical inspection.

	Description	Graduation (mm)
S-4026-1	Tyre tread depth gauge graduated	0 to 26
S-4464-1	Stainless steel tyre tread depth gauge with case	0 to 50
33640-67	Car tyre tread depth gauge with case	0 to 11 (coloured area 0 to 1.6 mm according to EC standards 89.499)
67077-67	EM stainless steel tyre tread depth gauge with case	0 to 150

Tread depth gauge & electronic pressure gauge 2 functions on one tool

66185-67

Tread depth gauge & electronic pressure gauge with digital display
- Easy to read: wide LCD screen
- Automatic turn-off
- Backlit dial
- 2 interchangeable batteries CR2032
- Tread depth or pressure gauge selection function

Tread depth gauge:
- Graduated from 0 to 15 mm (0 to 19/32'')
- Zone colour according to depth (<1.6 mm =red-coloured zone / 1.6 to 3.2 mm = yellow-coloured zone / >3.2 mm = green-coloured zone)
- Accuracy: of 0.3 mm
- Resolution: of 0.1 mm

Pressure gauge:
- 0.35 to 6.8 bar (5-99 psi or 35-680 Kpa or 0.4-7.00 kg/cm2)
- Accuracy: ± 1%
- Display resolution: 0.05 bar

Compliant with repair Standards EN 61000-6-3:2007 and 61000-6-1:2007.

P/N suffix: -1 or -67 = per unit

SERVICE TOOLS

	Description
S-4392-2	Standard car and truck valve cap and core screwdriver tool (without skirt)
S-4049-2	Standard car and truck valve cap and core screwdriver tool (with skirt)
65028-68	Car and truck valve core screwdriver tool (without skirt)
65290-67	EM and truck valve core screwdriver tool (with skirt)
66690-67 66690-68	Standard valve core screwdriver tool with pre-set torque 0.40 N.m.
R-0769-1	Earthmover valve repair tool for performing minor repairs on valve mouth inside and exterior threads
S-4259-1	Core screwdriver and valve repair tool for repairing interior and exterior threads and removing broken cores
R-0059-2	Core screwdriver tool also for performing minor repairs on the interior threads of car and truck valve mouths
S-4282-1	Universal core screwdriver
R-1469-1	Valve core and cap screwdriver for earthmovers
R-1255-1	Car and truck valve cap and core screwdriver tool
S-4032-1	Lever for mounting of car rubber snap-in tubeless valves (metal handle)
65027-67	Lever for mounting of car rubber snap-in tubeless valves (plastic handle)
41-466	Valve removing tool ("DAUJY" type)

"Feine" - "Feima"

	Description	Quantity per pack
S-4723-2	"FEINE"	20
S-4724-2	"FEIMA"	20

P/N suffix -1 or -67 = per unit -2 or -68 = per 10

Miscellaneous levers

	Description	Hose (cm)	Weight (kg)
66815-67	Tyre bead wire horn with soft head	30	1,9
S-4798-1	Truck and EM flat tyre removal lever for automatic machine	50	0,6
33769-67	Flat tyre removal lever, plastic liner for alloy rims	50	0,7
65779-67	Car 4-way lug wrench 17-19-21 mm - 1/2" male	36	1,2
65485-67	Truck 4-way lug wrench 24-27-33 mm - 3/4" male (*)	70	4,9
65346-67	Hub cap removal tool	38	0,6
65801-67	Plastic protector for edges of alloy rims		0,1
65803-67	Bead holder in chrome-plated steel with alloy rim protector for trucks, farm vehicles		1,8

P/N suffix: -1 or -67 = per unit

(*) Adaptator 65289-67 (F 3/4"in M1") page 189

Levers

P/N Michelin range		Description	Hose (cm)	Weight Michelin range (kg)	Equivalent €
R-1547-1	MOTO	Specially for motorcycles	38	0,5	**65824-67**
R-0425-1	FUSIL	Lever for all tyre	38	0,5	**65825-67**
R-0426-1	FACE	Lever for tubeless farm vehicle and truck tyres on drop-centre rims (small tyres)	53	1	**65826-67**
R-1289-1	FORCE	Lever for tubeless farm vehicle and truck tyres on drop-centre rims (large section)	75	1,5	**65827-67**
R-0427-1	FIACRE	Lever for all truck tyres with tube or tubeless on flat rims	45	1,2	**65828-67**
R-0428-1	FIFRE	Lever for all truck tyres with tube or tubeless on flat rims	41,5	0,95	**65829-67**
R-1060-1	HALTE	Lever for tubeless truck tyres mounted on 15" drop-centre rims	80	1,7	**65830-67**
R-0858-1	SAYAM	Lever for EM tyres	95	2,7	**65831-67**
R-1194-1	HYOCA	Lever for lug base (double X) and EM tyres on drop-centre rims	93,5	3,1	**65832-67**
R-1195-1	HYUDE		99	2,9	
R-1230-1	FAGUS	Bead remover	139	11,5	**65833-67**

P/N suffix: -1 or -67 = per unit

IMPACT WRENCHES AND PNEUMATIC TOOLS LUBRICANT

- Maximum operating pressure: 6 bar, filtered and lubricated.
Lubricate and clean tools with the recommended products.
- Pressure relief kit must be used to keep pressure at 6 bar (see below table).
- To preserve impact wrenches, use the necessary filters.
- Wheel nut tightness must be checked after 25 to 40 km and again after another 100 km, then regularly.
- Wear ear protection.
- Follow the user instructions.

	66669-67	65805-67	65807-67	66091-67
Code	KP-1469A	KP-1434	KP-1450	KI-30
Square (¨)	1/2	1/2	1/2	3/4
Handle	Revolver	Revolver	Revolver	Revolver
Impact system	Single	Double	Double	Double
Body and handle	Metal	Metal	Composite	Metal
Air exhaust	Under handle	Under handle	Under handle	Under handle
Speed (rpm)	10000	8000	8000	5500
Torque (N.m)	678	814	949	1492
Weight (kg)	1,55	2,7	2,25	5,6
Length (mm)	120	184	178	220
Air inlet connector (¨)	G 1/4 F	G 1/4 F	G 1/4 F	G 3/8 F
Shaft	Short	Short	Short	Short
Air consumption (L/min)	133	113	125	269
Acoustic pressure dB(A)	97	95	96	98,35
Noise level db(A)	108	106	107	109,35
Acoustic pressure dB(C)	110	119	109	99
Vibration level (M/S^2)	10,3	8,8	10,2	9,13
Pressure relief kit: 6 bar limit (order separately)	66816-67			66817-67

Pneumatic tool lubricant

65775-67 Special lubricant for pneumatic tools with lubricating agents and anticorrosion agents
2-litre can

SDS

Expiry date: 2 years after date of manufacture.

SCHRADER Pressure to perfection

P/N suffix: -67 = per unit

IMPACT WRENCHES AND PRESSURE RELIEF KITS

• Tools conform to machines Directive 2006/42/EC and to Standards:
ISO 12100:2010 (Risk assessment and reduction)
ISO 11148-6:2010 (General safety requirements)
ISO 15744:2002 (Noise level)
ISO 28927-2:2009 (Vibration level).

	65808-67	65809-67	65810-67	66670-67
Code	KP-1032	KP-1036	KP-1036-6	KP-1838A-6
Square (¨)	1	1	1	1
Handle	Revolver	Straight	Straight	Straight
Impact system	Double	Double	Double	Double
Body and handle	Metal	Metal	Metal	Metal
Air exhaust	Under handle	On the side	On the side	On the side
Speed (rpm)	5500	4000	4000	5000
Torque (N.m)	1627	2441	2441	2712
Weight (kg)	5,64	9,06	11,3	8,1
Length (mm)	224	315	518	487
Air inlet connector (¨)	G 3/8 F	G 1/2 F	G 1/2 F	G 1/2 F
Shaft	Short	Short	Long	Long
Air consumption (L/min)	269	312	312	255
Acoustic pressure dB(A)	100	102,61	101,95	104
Noise level db(A)	111	113,6	112,94	120
Acoustic pressure dB(C)	101	103	102	115
Vibration level (M/S^2)	21,64	18,02	15,24	14,5
Pressure relief kit: 6 bar limit (order separately)	66817-67	66665-67		

Pressure relief kit limiting pressure to 6 bar for impact wrenches

	66816-67	66817-67	66665-67
Air inlet connector (¨)	G 1/4 F	G 3/8 F	G 1/2 F
For hose Ø (mm)	7	12	12

P/N suffix: -67 = per unit

1/2" IMPACT SOCKETS

Impact Sockets kit SHORT ½"

66701-67 Kit of 11 car impact sockets SHORT 1/2" (12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm)

Impact sockets SHORT ½"

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
65059-67	17	26	38
65060-67	19	30	38
65061-67	21	32	38
65781-67	30	42	46
65782-67	32	44	46
65855-67	33	46	46

Impact sockets LONG 1/2"

66703-67	66702-67
Kit of 5 protected car sockets LONG 1/2" (15, 17, 19, 21, 22 mm)	Kit of 11 truck impact sockets LONG 1/2" (12,13, 14, 15, 16, 17, 18, 19, 21, 22, 24 mm)

Impact sockets LONG 1/2"

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
60268-67	13	20,2	82
60269-67	16	25	82
60270-67	17	25,9	82
60271-67	18	26,9	82
60272-67	19	29,9	82
60273-67	21	31,9	82
60274-67	22	31,9	82
60275-67	24	35,9	82
60276-67	27	39,9	82

Impact sockets LONG 1/2" extra thin

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
60277-67	17	24	82
60278-67	19	26	82
60279-67	21	28	82

66614-67 Extension VL 1/2", length 125 mm

Impact sockets LONG 1/2" protected

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
66704-67	15	21,4	85
65056-67	17	23,6	85
65057-67	19	25,9	85
65058-67	21	27,8	85
66576-67	22	29,4	85

65225-67 Removal kit for car theft-proof nuts (damaged nuts or special wrench)
Set of 2 reversible sockets: (21 x 24.5 x and 26 x 27.5) + extension

P/N suffix: -67 = per unit

3/4" VAN AND TRUCK IMPACT SOCKETS

Impact sockets SHORT ¾"

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
66587-67	23	35	52
66588-67	24	36	52
66589-67	26	40	52
66590-67	27	40	52
66591-67	29	42	52
66592-67	30	44	52
66593-67	32	44	52
66594-67	33	47	56
66595-67	36	51	56
66596-67	38	53	56

Impact sockets LONG 3/4"

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
66577-67	23	35	85
66578-67	24	36	85
66579-67	26	40	85
66580-67	27	40	85
66581-67	29	42	85
66582-67	30	44	85
66583-67	32	44	85
66584-67	33	47	85
66585-67	36	51	85
66586-67	38	53	85

P/N suffix: -67 = per unit

1“ IMPACT SOCKETS

Impact sockets kit SHORT 1”

60267-67	Kit of 8 truck impact sockets SHORT 1¨ (24+27+30+32+33+36+38+41)

Impact sockets SHORT 1”

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
66597-67	23	40	58
66598-67	24	40	58
66599-67	26	42.5	58
66600-67	27	44	58
66601-67	29	46	60
66602-67	30	48	60
66603-67	32	50.9	60
66604-67	33	52	62
66605-67	36	52	62
66606-67	38	52	62

Impact sockets kit LONG 1”

66613-67	Kit of 8 truck impact sockets LONG 1¨ (24+27+29+30+32+33+36+38)

Impact sockets EXTRA LONG 1”

	Dim. on flat (mm)
60325-67	27
60326-67	29
60327-67	30
60328-67	32
60329-67	33

Impact sockets LONG 1" extra thin

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
66607-67	23	38	108
66608-67	24	39	108
66609-67	26	41	108
60289-67	27	42.5	108
60290-67	29	45	108
60291-67	30	45.5	108
60292-67	32	48	108
60293-67	33	51	108
60295-67	36	51	108
60296-67	38	51	108

60310-67	Truck adaptor F. 1¨ to M. 3/4¨

Impact socket with torque control 1"

- Not for untightening.
- Check tightness with a torque wrench.

	Dim. on flat (mm)	Nut
60324-67	24	350
60297-67	27	350
60298-67	27	450
60299-67	29	400
60300-67	30	500
60301-67	32	450
60302-67	32	600
60303-67	33	600
60304-67	36	600

Truck extensions 1”

	W. (mm)
60305-67	175
65663-67	330

P/N suffix: -67 = per unit

1" TRUCK IMPACT SOCKETS

Impact sockets TRUCK and EM LONG 1"

	Dim. on flat (mm)	Ø ext. (mm)	W. (mm)
65756-67	23	40	90
60280-67	24	40	92
60281-67	26	42.5	90
60282-67	27	44	90
60283-67	29	46	90
60284-67	30	48	90
60285-67	32	50.9	90
60286-67	33	53	90
60287-67	36	56	90
60288-67	38	58	92
65175-67	40	60	92
65176-67	41	61.5	92
65177-67	42	63	92
65178-67	44	66	92
65179-67	45	67	92
65180-67	46	68	92
65181-67	48	71	95

Impact sockets 1" for square

	Square
65189-67	17,5
65190-67	20,5

60309-67 Truck impact socket SHORT 1"3/4 Caterpillar

Upsize and downsize adaptors and truck extension

	Female	Male
65289-67	3/4"	1"
66612-67	1/2"	3/4"

66611-67 Truck adaptor F 3/4" to M. 1/2"

66615-67 Truck extension 3/4" length 250 mm

P/N suffix: -67 = per unit

WHEEL TIGHTENING TORQUE WRENCHES

- We recommend annual calibration.
- Delivered with conformity certificate.
- Follow the user instructions.

Trigger accuracy according to DIN EN ISO 6789:2003 (D).

Torque wrenches

- Secure handle locking
- Safety: tactile (short stroke triggering) and audible (click)
- Quick and safe adjustment of the desired value by turning the handle
- User-friendly reversible ratchet
- Integrated jack lever reducing accident and fault risks.

	Description	Nut (N.m)	Weight (kg)	Length (mm)
65240-67	Car (square 1/2") Ratchet system Audible click Locking of torque adjustment jack Guaranteed accuracy of ± 4% of the reading on the scale (sold in plastic case)	40 to 200	1,2	513
65241-67	Car (square 1/2") Ratchet system Audible click Locking of torque adjustment jack Guaranteed precision of ± 2% of the reading on the scale (sold in cardboard box)	300 to 800	7,4	1280

Pre-set torque wrenches

V1333	Passenger cars (square 1/2") Accuracy ± 4%	110 pre-set	1,2	400
65778-67	Light trucks, 4 x 4 (square 1/2") Accuracy ± 4%	140 pre-set	1,2	435

P/N suffix: -67 = per unit

HANDLING, LIFTING

Adjustable props

(1)
• 4-leg base: more stable, stronger and safer.
• Handle remains locked on loading (can serve as carrying handle).

(2)
• Low profile model on wheels with handle.
• 5 height adjustment positions, locking by pin.
• Square base 22 cm to stabilise the load.

Props sold in pairs	450301	451600	451205
	(1)	(1)	(2)
Capacity (T)	3	6	12
Net weight (kg)	7	13,8	20
Min height (mm)	305	395	302
Max height (mm)	450	625	450
Base (mm)	209 x 185	293 x 263	272,5 x 220
Type	fixed	fixed	mobile

Mobile air hydraulic jack

• Ultra-light device, ideal for workshops and repair trucks, and for narrow environments. Designed for lifting low-floor vehicles.

CE Bottle jack conforms to Standards NEN-EN 1494:2001+A1:2008.

	420210
Capacity (T)	2
Net weight (kg)	36,5
Jack height closed (mm)	85
Total piston stroke (mm)	405
Total height (mm)	1050
Width (mm)	370
Length (mm)	725

Mobile air hydraulic jack

• Standard steel jacks from 2 to 30 T.
• Cast iron base.
• The bottle jacks can be used horizontally or vertically.

CE Compliant with Standards NEN-EN 1494:2001+A1:2008.

	410200	410600	411200	411500	412000	413000
Capacity (T)	2	6	12	16	20	30
Net weight (kg)	2,3	4,4	7,2	8,3	10,5	14,6
Min height (mm)	158	197	214	225	244	285
Max height (mm)	308	382	399	425	449	460
Total piston stroke (mm)	90	125	125	140	145	180
Extension screw (mm)	60	60	60	60	60	60
Base (mm)	96 x 93	116 x 116	140 x 135	140 x 140	155 x 140	175 x 160

Sold per unit

Mobile air hydraulic jacks

• Reliability, durability and easy use. Special high quality materials.
Control tests on each unit. Air hydraulic pump with unique movement. Automatic retraction of pistons.
• The double descent valve allows a constant and controlled speed when the jack is loaded and faster when empty. Perfect behaviour of the load guaranteed, even in case of accidental breakage of an air or oil pipe.
• Pressure relief valve protects jack from excessive load.
• The lever with 3 positions allows very easy handling and precise positioning under the load.
• Delivered with 2 steel extensions 70 and 120 mm plus a non-slip toothed plate.
• Operating pressure 8,5 to 12 bar (Supply with filtered, lubricated air).
• Compatible lubricants: ATF DEXRON IID or IGOL ATF 430.
• Follow the user instructions.

CE Jacks conform to machines Directive 98/37/CE and approved by European Regulation EN 1494.

	65037-67	65015-67	65016-67	65017-67	65018-67
Model	YAK 215P	YAK 215/N	YAK 217/N	YAK 312	YAK 510
Capacity (T)	30/15	30/15	30/15	60/30/15	44/32/22/14/8
Net weight (kg)	35	39	41	50	63
Maxi operating pressure (bar)	8-12	8-12	8-12	8-12	8-12
Jack height closed (mm)	150	150	170	120	100
Total piston stroke (mm)	150	150	171	135	160
Total height (mm)	1100	1400	1400	1385	1385
Width (mm)	300	300	300	300	350
Length (mm)	500	525	525	660	1000
Mini operating temperature (°C)	-20	-20	-20	-20	-20
Maxi operating temperature (°C)	+50	+50	+50	+50	+50

Collars

	h. (mm)
65123-67	10
65124-67	70
65125-67	120

Recommended filter nipple: 65491-67. See page 106.

SCHRADER Pressure to perfection

P/N suffix: -67 = per unit

Mobile air hydraulic jacks

INTENSIVE USE

Tough machines, designed for tyre specialists for raising low-profile vehicles and trucks.

• Bottle jacks with slam stop button.
• Actuated with single-acting pump, they are equipped with safety devices that protect them against overloads and prevent them lowering in the event of accidental breakage of the tubes. The 2 pistons are manufactured with a special high-strength steel. They owe their stability to their wide base and large-diameter wheels and the three-position handle makes them easy to handle. Lowering of the empty piston is commanded by a depressurising system.
• Come with steel extensions.
• Operating pressure: 9 to 12 bar (Supply with filtered, lubricated air).
• Compatible lubricants: ATF DEXRON IID or IGOL ATF 430.
• Follow the user instructions.

• Bottle jacks conform to the safety requirements set out in Machines Directive 2006/42/EC.
• They are manufactured in accordance with the technical recommendations of European standard EN 1494.

	66069-67	66068-67
Model	P152C	P182C
Capacity (T)	30/15	29/18
Net weight (kg)	39	37
Maxi operating pressure (bar)	9 to 12 bar	9 to 12 bar
Jack height closed (mm)	175	150
Maxi height with extensions (mm)	515	457
Total piston stroke (mm)	186	157
Total height (mm)	1250	1250
Width (mm)	215	215
Length (mm)	420	420

Recommended filter nipple: 65491-67. See page 106.

P/N suffix: -67 = per unit

Pneumatic portable jacks

- Pneumatic jacks made with a high resistance membrane and an internal telescopic slide.
- End stop and safety device.
- Reliable and maintenance free.
- Quiet, easy to use and to transport.
- Supply with filtered and non-lubricated air.
- Optional collars height 50 and 100.

	65268-67	65354-67
	YAK 132	YAK 203
Capacity (T)	2	2
Net weight (kg)	12	14
Maxi operating pressure (bar)	7 to 10	7 to 10

Collars

	h. (mm)
65856-67	50
65857-67	100

Hydraulic jack for fork-lift trucks

- Hydraulic jack specially designed for a large lifting capacity. Possible to lift the load to end of piston stroke.
- 9 lifting positions: 6 by positioning the stirrup in the notches (the stirrup can be turned upside down), 3 by lifting the load directly on the piston and using the extensions (h. 70 and 120: optional extras)
- Automatic descent adjustable with manual valve.
- Jack fitted with a pressure relief valve, with castors and 3 handles.

	65269-67
Capacity (T)	5 à 9
Net weight (kg)	30
Stroke (mm)	150

P/N suffix: -67 = per unit

"D.S.P.L.C." : Schrader compact truck bead-breaker for rims with protected valve

These new rims have the following characteristics:
- valve positioned differently = difficult access,
- addition of a safety hump

Tyre removal is very difficult, particularly with regard to the bead
The Compact Truck Bead-breaker solves this problem very simply
It is a swift operation requiring no little effort

FITMENT PROCEDURE:
- Start with wheel laid flat, spider facing upwards.
- Grease the bead of the tyre at the spot where you want to beadbreak it.
- Hook the beadbreaker on the edge of the rim.
- Screw, while guiding the spade on the flank of the tyre as close as possible to the bead and to the rim edge. Stop as soon as the bead crosses the hump.
- To remove the device, proceed in reverse order.
- Alloy rim spiders are thicker than those on metal rims. A thickness wedge fitted with a wing nut is provided to compensate this difference.

60308-67 Mechanical beadbreaker for hollow base truck wheels with protected valve, steel or alloy rims of sizes 17.5, 19.5 and 22.5.
Weight: 14 kg

- Use: before using it for the first time, fix the stabiliser using the 2 hexagon socket screws provided.
- Handling: use the carrying handle.
- Upkeep: regularly clean and crease the screw and the spade.

65003-67 **Zero inset rims, 120, 125 and 130**
Optional collar adaptable on the DSPLC 60308-67
Weight: 9,5 kg

Truck rim breakers

Makes removal easier when the hub and rim have welded together due to an electro-galvanic reaction (particularly on alu rims).

	*65528-67 *65528-99	*65529-67 *65529-99
	DISMA	**LESMA** (for tank transporter)
Dimensions	L. 152 mm, Ø 40 mm	L. 79mm, l. 56 mm, th. of 45 mm + wedge (8mm)
Cylinder stroke (mm)	75	11
Power at 700 bar (T)	5	11
Weight (kg)	1,7	1,65

Never get too close to a tool while in use.
***suffixe 67**: tools equipped with quick connect coupler 67072-67.
***suffixe 99**: tools equipped with screw connection 67065-67.

P/N suffix: -67 or -99 = per unit

INNOVATION

A number of patents on devices and accessories make for highly qualified products capable of providing unique and innovative solutions for latest generation tyres.

CERTIFICATIONS

This equipment is certified and/or recommended by all major automobile and tyre manufacturers.

What's more, the models S 45 top, S 48 PL, S 40 PRO boast the prestigious **WDK** certification. (Issued by the German certifying body, which has assessed the tyre removers and their capacity to work on "run flat*" and "UHP*" tyres without causing damage that could compromise safety).

**RUN FLAT: self-supporting tyres with or without interior reinforcement enabling the driver to continue on flat tyres for approximately 80 kilometres.*

***UHP: <45 low-profile tyres with speed index >V.*

QUALITY

• Supervision of all production stages and of the choice of qualified suppliers to provide staff training
• "One by one" final control, control booths in which the final inspections are performed: air leaks, electrical tests, tool setting
• Controls prior to shipment to check and complete accessories and legal notices

PRODUCT INFORMATION AND VIDEOS
Available at www.sice.it*

** Sice, protected trademark, property of Sice*

TYRE MOUNTING AND BALANCING MACHINES

- Truck tyre remover 198
  and optional accessories
- Truck tyre remover 208
  and optional accessories
- Truck tyre balancers 212
  and optional accessories

S 40 PRO

WDK: certified for wheels up to 19" rim diameter and 8,5" rim width

Car tyre changer

Standard accessories (Always supplied)

Main optional accessories

	Description	Electrical supply
66160-67	S 40 PRO	230/400V - 3Ph - 50/60Hz

SCHRADER Pressure to perfection

P/N suffix: -67 = per unit

S 43

Automatic car tyre changer

Tyre capacity

Rim capacity

11 - 22"

Outside clamping range (Alloy rims)

13 - 25"

Inside clamping range (Steel rims)

Simultaneous pneumatic horizontal and vertical arm locking

41 mm Hex. shaft

Pressure regulator-water filter and lubricator with built-in safety valve (CE norms)

Self-centering four- jaws chuck with two clamping cylinders and double control plate (patented) to ensure perfect rim centering

Clockwise and anticlockwise rotation of the turntable through electric motor

powerful inverter motor giving variable rotation speed 7-17 rpm

Front extractable pedal assembly

S43 GP equipped with
- quick tubeless tyre inflation system operated by a foot-pedal
- rear air tank for blast inflation system (CE norms)
- pressure readout unit with pressure release button

Optional electronic device for checking operation of TPMS sensors, complete with large database

Pedal operated pneumatic tilting back post

Plastic inserts to prevent damage to alloy rims

Double acting bead breaker cylinder of stainless steel

Powerful bead breaker with articulated blade and enlarged wheel pad

GP VERSION (Factory installed)

Optional TPM

Optional PT250

PT: Bead pressing device for low profile and run flat tyres (patented). PT with rotational cam system (patented) to reduce stress on tyre bead

Standard accessories (Always supplied)

Main optional accessories

WRK
WDK certified kit for UHP and run flat tyres

Must be used only toghether with PT 250

See PT option page 203.

	Description	Electrical supply	With PT factory installed
65976-67	S 43	230V - 1Ph 50/60Hz Two speed moto-inverter	65976-77
66162-67	S43 GP		66162-77

Net Kg. 258 GP Kg. 275 | Kg. 283 GP Kg. 300 | avec PT Kg. 393

Max overall dim.

Overseas or long distance Pallet+cartonbox

P/N suffix: -67 or -77 = per unit

S 45 BASIC

Automatic car tyre changer

Tyre capacity

Rim capacity

11 - 22"

Outside clamping range (Alloy rims)

13 - 25"

Inside clamping range (Steel rims)

Simultaneous pneumatic horizontal and vertical arm locking

Pneumatic swinging arm movement repositioning time and space

41 mm Hex. shaft

Pressure regulator-water filter and lubricator with built-in safety valve (CE norms)

Clockwise and anticlockwise rotation of the turntable through electric motor

Self-centering four-jaws chuck with two clamping cylinders and double control plate (patented) to ensure perfect rim centering

Front extractable pedal assembly

Plastic inserts to prevent damage to alloy rims

Double acting bead breaker cylinder of stainless steel

Powerful bead breaker with articulated blade and enlarged wheel pad

Optional CRU
Quick exchange device for tool heads

Optional electronic device for checking operation of TPMS sensors, complete with large database

Optional TPM

Optional PT 250

PT: Bead pressing device for low profile and run flat tyres (patented). PT with rotational cam system (patented) to reduce stress on tyre bead

Standard accessories (Always supplied)

Main optional accessories

WRK
WDK certified kit for UHP and run flat tyres

Must be used only toghether with PT 250

See PT option page 203.

	Description	Electrical supply	With PT factory installed
66163-67	S 45 BASIC	400V - 3Ph -50 Hz Two speed	66163-77

Net Kg. 270

Max overall dim.

Kg. 295

avec PT Kg. 405

Overseas or long distance. Pallet+cartonbox

SCHRADER Pressure to perfection

P/N suffix: -67 or -77 = per unit

S 45 TOP

Automatic car tyre changer

Tyre capacity

Rim capacity

12 - 24"

Outside clamping range (Alloy rims)

14 - 27"

Inside clamping range (Steel rims)

Automatic and/or manual positioning of vertical bar (patented)

Standard CRU Quick exchange device for tool heads

Double acting bead breaker cylinder of stainless steel

WDK stroke limiter

Three-way adjustable blade angle and enlarged wheel pad
Bead breaking range
Pos. 1 45-390 mm (1,75-15,5")
Pos. 2 10-340 mm (0,25-13,5")

Standard accessories (Always supplied)

Main optional accessories

CERTIFIED

Net Kg. 395

Max overall dim.

Kg. 420

Overseas and long distance Pallet+cartonbox

	Description	Electrical supply
66088-67	S 45 TOP	230V - 1Ph - 50/60Hz Two speed

P/N suffix: -67 = per unit

S 48 PL

Automatic car tyre changer "leverless"

Tyre capacity

Rim capacity

Optional FRF flange for reverse rim wheels locking

Ergonomic locking handle provided with retractable levers

Leverless pneumatic control

Mounting/demounting leverless tool-head (patented)

Tilting bead breaking roller system

Conventional bead breaker system with blade provided with WDK stroke limiter

Main optional accessories

Standard accessories (always supplied)

CERTIFIED

Max overall dim.

Overseas and long distance Pallet+cartonbox

	Description	Electrical supply
66165-67	S 48 PL	230V - 1Ph - 50/60Hz Two speed moto-inverter

P/N suffix: -67 = per unit

Bead lifting-pressing device

Pneumatic wheel press cone simplify external alloy wheel clamping

The top operating disc assists in bead lubrication

Pressing disc assists in bead lever placement to ease demounting

Pressing disc allows the bead to slip easily onto the tool head

Bottom roller disc assists in reloosing beads and demonting

The rotating arm with disc eases mounting

The fixed bead press arm can be adjusted at correct distance from tool head

Combined with rotating arm, the fixed bead press arm adds bead pressing force for diffucult tyres

Standard accessorries

Optional acccessories

Packing for truck and sea transport. Carton on pallet

included on the models(assembled in the factory): 65976-77, 66162-77, 66163-77, 66088-67, 66165-67.

P/N suffix: -67 = per unit -77 = per unit(mounted with PT option)

CAR TYRE CHANGERS ACCESSORIES

		Description	S 40 PRO	S 43-S45 B	S 45 TOP	S 48 PL
8-11400192	KPX	**PAX wheel kit** When used with PT 250 bead lifting-pressing device it enables to correctly handle all PAX wheels.	-	0	0	-
2201887	RGT	"Reglette" Mounting strips set for PAX tyres (for KPX) 1 set of 10 pcs	-	0	0	-
8-11400193	KSR	**SR wheel kit** When used with PT 250 bead liftingpressing device it enables to handle all SR System wheels	-	0	0	-
39700-00		UNIV'AIR gauge (CE norms)	0	0	-	-
8-11400217	TPM	Electronic device for checking operation of TPMS sensors, complete with large database	-	0	0	0
8-11400219	DBT	Data bank update for TPM. When ordering always specify TPM serial number	-	0	0	0
8-11400220	TTF	Optional TPM tray for tyre changers equipped with FPI	-	0	-	-
8-11400296 **8-11400240**	GT 40	Quick tubeless tyre inflation system retrofittable on all non GP version car tyre changers GT 40 has to work combined with FPI on S 40, S 43, S 45 Basic and S 45.	0 -	- 0	- 0	- 0

0 = in option - =not available

Uncontractual pictures

CAR TYRE CHANGERS ACCESSORIES

			Description	S 40 PRO	S 43-S45 B	S 45 TOP	S 48 PL
	8-11400297 8-11400218	FPI	Inflating system with pedal control and readout unit with deflating pushbutton. (Standard on S 43 GP)	0 -	- 0	- -	- -
	8-11400170 8-11400171	SR 80	Air-operated lifter. Kg. 80 lifting capacity at 10 bar. Helps get heavy wheels up to clamping table height. Reduces the chances of expensive wheel damage and lifting injuries	- -	0 -	- 0	- -
	8-1100316	SR 80 PL	Air-operated lifter. Kg. 80 lifting capacity at 10 bar. Helps get heavy wheels up to clamping table height. Reduces the chances of expensive wheel damage and lifting injuries	-	-	-	0
	5-400097	AR 10	Set of adaptors to reduce outside clamping capacity by 2"(1 set=4 pcs)	0	0	0	-
	2201894A	AR 24	Set of adaptors to increase outside clamping capacity by 4" (4 pcs.)	0	0	0	-
	2200277A	ARM	Set of motorcycle wheel adaptors (4 pcs.)	0	0	0	-
	2201411A	AR 69	Set of adaptors to reduce outside clamping capacity by 4"(4 pcs.)	0	0	0	-
×4	2201655	LPK	Spare kit of plastic lever protections for tyre lever (1 kit=4 pcs)	0	0	0	-
	2018505	BPC	Plastic bead pressing clamp	0	0	0	0
	8-11400227	MPG	Aluminium bead pressing clamp for aluminium rims	S	0	0	0

S = standard O = in option - =not available

Uncontractual pictures

CAR TYRE CHANGERS ACCESSORIES

		Description	S 40 PRO	S 43-S45 B	S 45 TOP	S 48 PL
8-11400174	**BPR**	Bead pressing roller with spacer	S	0	0	-
8-11400290	**PTR**	Rollertail (standard on PT 40)	S	0	0	0
2201659	**SPL3**	Spare kit of plastic protections for alloy rims. (1 kit: 46 pcs.)	0	0	0	-
2202006	**CPK**	Spare kit of clamp plastic protections for alloy rims. (1 kit: 8 pcs)	0	0	0	-
2202271	**RCK**	Kit of front and rear clamp plastic protections for tubeless tyres inflating with GP system for alloy rims. (1 kit: 8 pcs)	0	0	0	-
8-11400087	**TPA**	Plastic mounting/demounting toolhead	0	0	-	-
8-11400015 **8-11400197**	**CRU**	Universal quick exchange device for toolheads. Basic set: Hex 36 mm Hex 41 mm	0 -	- 0	- S	- -
8-11400038 **8-11400039**	**TRS/ CRU**	Mounting/demounting tool-head for convex spokes rims (vw) Complete with plastic alloy rim protections	0 -	- 0	- 0	- -
8-11400020 **8-11400088**	**TPA/ CRU**	Plastic mounting-demountig toolhead	0 -	- 0	- 0	- -
8314813	**TPR**	Spare plastic body for TPA/CRU and TPA	0	0	0	-
2201581	**MPK2**	Spare kit of plastic protections for tool-heads and for TMN and TMN/CRU (1kit: 5+5+5 pcs)	0	0	0	-

S = standard O = in option - =not available

Uncontractual pictures

CAR TYRE CHANGERS ACCESSORIES

		Description	S 40 PRO	S 43-S45 B	S 45 TOP	S 48 PL
8-11400254	**WRK**	WDK Upgrade certified kind kit for run-flat and UHP tyres Can be fitted only on S 43, S 45 Basic, and S 45 with PT 250	S	O	S	-
65801-67		Rim edge plastic protections. Set of 3 pcs	O	O	O	O
S-4392-2		Standard valve cap and core screwdriver tool (without skirt) 10 pcs	O	O	O	S
65027-67		Plastic valve puller 1 pcs	O	O	O	S
65797-67		Adhesive weight removing tool 1 pcs	O	O	O	O
4-405310	**PTS**	Plastic tool	O	-	-	S
65948-67		Tyre mounting paste, white "Universal" (3 Kg)	O	O	O	S
4-407370	**DFC**	Double front cone D. 180 h. 24	-	-	-	O
4-407371	**DFC1**	Double front cone D. 170 h. 29	-	-	-	O
8-11100300	**RRK**	Set for reverse rim wheels	-	-	-	O

S 54 - S 54 A

Electro-hydraulic tyre changer 14"-56" for trucks, buses, tractors, earth moving

Tyre capacity

Max. wheel weight

Rim capacity

Rim clamping with PA extensions (optional)

Bead breaking with disk

Demounting with disk

Demounting of tractor tyres with hooked tool

Automatic positioning of the tool arm carriage (left-right). Standard only on S 54 A

Demounting of a split rim wheel

Standard accessories (always supplied)

Main optional accessories

	Description	Electrical supply
65750-67	S 54	400V - 3Ph - 50Hz
66170-67	S 54	400V - 3Ph - 60Hz
66171-67	S 54 A	400V - 3Ph - 50Hz
66172-67	S 54 A	400V - 3Ph - 60Hz

Net Kg. 762 - 780*

Max overall dim.

Kg. 892 - 910*

*= S54A

Packing for overseas and long distance. Wooden case with pallet

P/N suffix: -67 = per unit

S 550

Electro-hydraulic tyre changer 14"-56" for trucks, buses, tractors, earth moving

Tyre capacity

Max. wheel weight

Rim capacity

Bead breaking with disk

Demounting with disk

Demounting of tractor tyres with hooked tool

Rim clamping with PA extensions (optional)

Automatic tool rotation

Simultaneous movement of chuck arm and tool carriage

Automatic arm positioning

Demounting of a split rim wheel

Standard accessories (always supplied)

Main optional accessories

	Description	Electrical supply
65977-67	S 550	400V - 3Ph - 50Hz
66174-67	S 550	230V - 3Ph - 50Hz
66175-67	S 550	230V - 3Ph - 60Hz

Max overall dim.

Packing for overseas and long distance. Wooden case with pallet

P/N suffix: -67 = per unit

S 560

Electro-hydraulic tyre changer 14"-56" for trucks, buses, tractors, earth moving

Tyre capacity

Kg. 2500

Max. wheel weight

Rim capacity

Bead breaking with disk

Demounting with disk

Demounting of tractor tyres with hooked tool

Rim clamping with PA extensions (optional)

Automatic tool rotation

Simultaneous movement of chuck arm and tool carriage

Automatic arm positioning

Demounting of split rings wheel

Standard accessories (always supplied)

Main optional accessories

	Description	Alimentation électrique
66176-67	S 560	400V - 3Ph - 50Hz
66177-67	S 560	230V - 3Ph - 50Hz
66178-67	S 560	230V - 3Ph - 60Hz

P/N suffix: -67 = per unit

TRUCK TYRE CHANGERS ACCESSORIES

		Description	S 54 S 54A	S 550	S 560
3006365	LC	Split rim lever	S	S	S
2105943	LG	Bead guide lever for agricultural wheels	S	S	S
2105954	LA	Bead lifting lever	S	S	S
2005957	PC	Rim pliers	S	S	S
65803-67		Steel chrome plated rim clamp for truck and farm vehicle tyre changer	O	O	O
2200041	GL	Jaws for alloy rims with special plastic inserts (1 Set = 4 pcs + 12 plastic inserts)	O	O	O
8-11400200	SPI	Special plastic inserts (1 kit=4+4+4 pcs)	O	O	O
2200239	PA	Extensions for self-centring chuck (up to 56"). (1 Set = 4 pcs.)	O	O	O
2306040	RT	Tubeless roller for truck and bus wheels	O	-	-
2309148	RTB	Tubeless roller for truck and bus wheels	-	O	O
4211479	PMG	Grease-gun	S	S	S
65686-67		Detagel : lubricating gel for demounting of truck and earthmover tyres (5L)	O	O	O
65687-67		Apllicator can with cap (empty)			

S = standard O = in option - =not available

Uncontractual pictures

Computerized wheel balancer

Electronic microprocessor controlled wheel balancer for balancing car, motorcycle and light industrial vehicle wheels.

Automatic acquisition of the unbalance in one spin in both static and dynamic programs with automatic end-cycle stop.

Tyre capacity

Rim capacity

Max. wheel weight

Manual internal gauge

Hidden weight program

Shift plane program (patented)

Optimisation program for rim/tyre matching

Standard accessories (always supplied)

Main optional accessories (ø 40 mm shaft)

	Description	Electrical supply
66166-67	S 62	230V - 1Ph - 50/60Hz

SCHRADER Pressure to perfection

P/N suffix: -67 = per unit

S 63

Fully computerized wheel balancer

Electronic microprocessor controlled wheel balancer for balancing car, motorcycle and light industrial vehicle wheels.

Automatic acquisition of the unbalance in one spin in both static and dynamic programs with automatic end-cycle stop.

Tyre capacity

Rim capacity

Max. wheel weight

Distance gauge with selfadhesive weight holder applicator

Hidden weight program

Shift plane program

Optimisation program for rim/tyre matching

Standard accessories (always supplied)

Main optional accessories (ø 40 mm shaft)

	Description	Electrical supply
66167-67	S 63	230V - 1Ph - 50/60Hz

P/N suffix: -67 = per unit

S 65

Fully computerized wheel balancer with LCD 19" colour monitor

Electronic microprocessor controlled wheel balancer for balancing car, motorcycle and light industrial vehicle wheels.

Automatic acquisition of the unbalance in one spin in both static and dynamic programs with automatic end-cycle stop.

Automatic start by lowering wheel guard (space saving design)

Tyre capacity

Rim capacity

Max. wheel weight

Distance sensor with Support for applying adhesive weights

Hidden weight program

Shift plane program (patented)

Optimisation program for rim/tyre matching

Standard accessories (always supplied)

Main optional accessories (ø 40 mm shaft)

	Description	Electrical supply
66168-67	S 65	230V - 1Ph - 50/60Hz

SCHRADER Pressure to perfection

P/N suffix: -67 = per unit

WHEEL BALANCERS ACCESSORIES

		Description	S 62	S 63	S 65
5-101514	MF	Threaded hub Ø 40 mm standard version (181,5 mm)	S	S	S
430573	P 100	Self-calibration certified weight (100 gr.)	-	-	-
4-104790A	K 1	Cone Ø 42-68 mm	S	S	S
4-104791	K 2	Cone Ø 67-87 mm	S	S	S
4-104792	K 3	Cone Ø 85-103,5 mm	S	S	S
4-104793	K 4	Cone Ø 102-118,5 mm	S	S	S
8-21100141	DX +CBF	Centering accessory for van and off-road wheels with central hole with Ø 117-173 mm	O	O	O
2202189	CPB1 +PCP1	Wheel fixing plastic cup + rubber guard Ø 125 mm	S	S	S
2200854	C 210 +OR	Wheel fixing plastic disc + O-ring Ø 210 mm	O	O	O
8-21400023	GHI	Quick release collet with spacer Ø 40	S	S	S
8-21400025	GHIP	Pneumatic fixing bush Ø 40 mm to lock wheels quickly and safely through air gun (AGP)	O	O	O
2014782	AGP	Air gun set for pneumatic bush GHIP	O	O	O
8-21100091	FRU	Complete universal quick flange set with movable pins for quick locking of 3, 4, 5 holes wheels (on Ø from 90 mm to 210 mm) with Stud gauge (plastic)	O	O	O
453144	RAC	Rim width measuring caliper	S	S	S

S = standard O = in option - =not available

Uncontractual pictures

MOUNTING AND DISMOUNTING OF EARTHMOVER TYRES

All tools for mounting and dismounting of earthmover tyres, in a workshop or on site.

- Installation and commissioning of complete tyre workshops up to 63"
- Bead breakers for wheels in 1,3 and 5 part

Tooling for the installation of seals. Jacks, lifting bags and accessories.

TECHNICAL ASSISTANCE AND TRAINING

Our TRAINING CENTRE was established to provide our clients with the skills required to use the product line produced by Schrader for the assembly and disassembly of agricultural, HGV and OTR tyres, using1,3 and 5 piece wheels.
To help with the disassembly, Schrader offers a wide range of tools dedicated to different tasks in accordance with safety guidelines and rules.
Training is essential!

EARTHMOVER EQUIPMENT

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- Technical support and training 219
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- Air hydraulic and manual pumps 225
- Distributors, hoses and hydraulic oil 226
- Hydraulic connections 227
- Tools for 1-piece rims:
  - . Bead-breakers: MINI-KOUSMA, COMPACT 228
  - . Bead-breakers: US TYPE, MANUAL 229
- Tools for 3-piece rims:
  - . Bead-breakers: PASCHRA, KOUSMA 230
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- Tools for 5-piece rims:
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INTRODUCTION TO WHEEL REMOVAL
1, 3 and 5 pieces

In the case of earthmovers, for punctures or tyre changing, in most cases, the wheels are not removed. The tyres are removed directly from the rims. There are different rim types, that often take a long time to remove, and are very heavy and difficult to handle.

WHEEL TYPES:
There are three main types of wheel:
- Single-piece hollow based wheels
- Three-piece wheels
- Five-piece wheels

Drop centre 1-piece rim

Different elements of a 3-piece rim.

Different elements of a 5-piece rim.

SAFETY PRECAUTIONS FOR ALL TYPES OF ASSEMBLY

- Operators must wear protective clothes: helmet, glasses, gloves, safety shoes, ear muffs.

- The vehicle's engine must be turned off. Make sure the locking rod is in position (hinged vehicles).
- Choose the appropriate lifting material considering the type and weight of the vehicle. Always fix the lifted vehicle with a prop. Always chock a lifted vehicle.
- Maintenance of metal parts should not be done manually.
- Work in pairs and with lifting equipment to guarantee safety.
- Tyres must always be entirely deflated before any operation.
In the case of working on twin wheels, both tyres must be deflated to prevent any material falling which might be stuck between the tyres.
Make sure that all parts of the rim are in good shape and are compatible with each other.
- During the operation, the operator must check the state of the rim and tyre to make sure that no part needs to be scrapped (ex, cracks).
- A tyre should not be reassembled until wheel, rim, rings or flanges have been properly cleaned and greased (neither the "O" ring groove nor the flange groove must be greased).

NEVER STAY CLOSE TO A TOOL WHILE IT IS IN USE

CHOICE OF DISMANTLING TOOLS

- With 1 or 3-piece rims, a beadbreaker is used. This tool will grip the rim or the wheel and push the bead wire.
- In the case of 5-piece rims, ringbreakers are used to grip the notches of the conical rings.
- In some cases, Schrader has developed a special tool range.
- The tools are used with 700 bar air hydraulic or manual pumps.

Boxes and tools are available from SCHRADER for all possible requirements. These have been extensively tested by a wide range of manufacturers for many years and have proved their reliability throughout the world.
Tyre specialists should select the most suitable toolbox or tool for their project requirements and in accordance with the machinery used.

Follow the tool's user instructions.

TECHNICAL SUPPORT AND TRAINING

Training at Schrader or on site

Our TRAINING CENTRE was established to provide our customers with the necessary skills in the correct use of Schrader products.
- for the mounting and removal of 1, 3 and 5 piece truck, agricultural and earthmover tyres.
- in the installation and use of the "OTR-TPMS" system for monitoring the pressure and temperature of earthmover tyres.

Our training centre is approved for occupational training.
. Approval no. 43 25 01928 25.

Technical Course:
GENERAL KNOWLEDGE ON EARTHMOVERS & MOUNTING/DISMOUNTING OF EARTHMOVER TYRES on 1, 3 and 5-piece rims

Staff aimed at:

Anyone employed in a company in a position requiring in-depth knowledge of how to mount and dismounting of earthmover tyres.

Aims:

- General knowledge of the vehicle
- Detailed knowledge of tyre mounting, dismounting and handling
- Practical training on the maintenance and mounting and dismounting of earthmover tyres
- Safety rules
- Simulations at our Schrader training centres

To enrol, contact our sales team.

OTR TPMS

NEW CONCEPT – NEW CAPABILITIES - NEW ADVANTAGES

- Designed for site machinery and port vehicles.
- Measures and displays tyre temperature and pressure while driving.
- Increases tyre life and improves tyre asset monitoring.

The system's benefits

- Increases tyre life.
- Improved safety.
- Reduces fuel consumption.
- Reduces maintenance costs by improving reactivity.
- Provides technical monitoring of tyre casings for retreading purposes.
- Supplies pressure and temperature data to tyre monitoring software.

Offer details

- The best system to prevent tyre deterioration or damage linked to low pressure or high temperature.
- Tyre pressure/temperature measurement: real time alerts of possible deviations from standard parameters set by tyre teams.
- Level 1: transmits the information to the dashboard via an onboard display.
- Level 2: transmits the information to the dispatch room or the the tyre service provider through a Wireless option for communications which include GPRS, Wi-Fi and satellite comms dependent on local availability.

Example of application on a Volvo A30E

Sensor mounted on tyre

Sealed antennae

Display and calculator

- High technology sensors mounted on patch applied to the inside of the tyre.
- Waterproof, shock-protected antennae.
- One calculator protected by a high-resistance aluminium casing.
- Screen for data display and data collection simply by USB key.

Technical data:

• Pressure range:	0.1 to 12 bar (1.45 to 174 psi/10 to 1200 KPA)
• Accuracy:	± 0.1 bar (±1.45 psi, ±10 kPa)
• Temperature measuring range:	-40 to +125°C* (-104 to +257°F*)
• Sensor designed to work at temperatures of over	100°C (212°F) for long periods
• Unique identification code for each sensor	
• Transmission frequency:	433.92 Mhz
• Operating range of calculator and display:	-45 to 60°C* (-113 to +140°F)
• System tightness:	IP64
• Display:	Pressure and temperature data collection by simply plugging in a USB** key and alarm
• Plug & play for future Schrader transmission devices	
• Connectable to any transmission device:	.xml format
• Transmission: every 5 minutes, each minute under alarm	
• Current consumption:	0.1A to 24V

** Short-term exposure.*
*** Use only the USB keys provided in the kit.*

Content of the OTR-TPMS kit

	OTR-TPMS 66569-67 (EU RFA)*	OTR-TPMS 66570-67 (FCC RFA)**
6 EU sensors mounted on patch	✔	✘
6 FCC sensors mounted on patch	✘	✔
2 DDRM antennae with cables	✔	✔
2 installation sets for antennae DDRM (support, protection, screws)	✔	✔
1 calculator	✔	✔
1 display	✔	✔
1 support for display	✔	✔
1 cable for display	✔	✔
1 power cable	✔	✔
1 USB cable	✔	✔
Installation and user instructions	✔	✔

* EU RFA : Approved for frequencies in Europe, Africa...
** FCC RFA : Approved for frequencies in the USA, Canada, Brazil...
Sensors to be defined according to local regulations.

PC OTR application
Intuitive and easy to use. For system configuration and data display. (detailed information on request).

P/N suffix: -67 = per unit

LIFTING AIRBAGS

Pneumatic lifting airbags

- The 66540-67 connection is delivered with the airbag.
- Place a plate under the airbag.

CE Airbags compliant to Standard NF EN 13731.

	66531-67	66532-67	66533-67	66534-67	66535-67
Model	CLT3	CLT24	CLT30	CLT43	CLT65
Lifting capacity (T)	3	24	30	43	65
L. x W. (cm)	20 x 20	56 x 56	62 x 62	75 x 75	92 x 92
Max. stroke (mm)	115	315	345	410	500
Net weight (kg)	1	9	10	15	22
Recommended plaque (see page 224)	-	65978-67	65978-67	65979-67	65979-67

Regulating Cabinets and Hoses

	66538-67	66539-67	66540-67	66536-67	66537-67	65588-67	65587-67
	Quick-connection feeder hoses		Adaptor for airbag-hose connection	Regulating cabinet			Power connection for regulating cabinet 65588-67
Graduation				0 to 10 bar 0 to 140 psi	0 to 10 bar 0 to 140 psi	0 to 11 bar 0 to 160 psi	
Characteristics	L. 10 m, red	L. 10 m, blue	G 1/4	1 output	2 outputs	-	

	66531-67	66532-67	66533-67	66534-67	66535-67
Stroke	Lifting power in tons at 8 bar				
28 mm	3	24	30	43	65
50 mm	1,4	17,5	24	33	56
100 mm	0,7	11,5	18	25,5	44
150 mm	0	7,5	12,5	19	35
200 mm		3,5	7	13	26
250 mm		1	2,5	7	16,5
300 mm		0,1	1	3,5	10
350 mm		0	0	1	5,5
400 mm				0	3
450 mm					1,5
500 mm					0

- The pneumatic lifting airbags are chiefly used for very low machines where there is not enough space for a jack. They are used also to facilitate the lifting of earthmover vehicles in site operations.
- Non-slip surface for safe stacking of airbags.
- Easy location of the central point, facilitating positioning under load.
- Max operating pressure: 8 bar.
- Note that the bigger the airbag gets, the less lifting power it has.
- Other possible airbags: Contact us.

- Lifting recommended with braked wheel
- Avoid contact with hydrocarbons
- Fix the lifted vehicle with a prop

LIFTING JACKS

- These tools must be used with a 700 bar manual or air hydraulic pump.

- Suffix 67: pumps equipped with quick coupler 67072-67.
- Suffix 99: pumps equipped with screw coupler 67065-67.

Compliant to Machines Directive 2006/42CE and Pressure Equipment Directive DESP 97/23CE.

	67080-67 67080-99	67082-67 67082-99	65867-67 65867-99	67085-67 67085-99	67087-67 67087-99	67089-67
Model	Alu jack LUKAS 27	Alu jack LUKAS 66	Alu jack LUKAS 107	Steel jack VERAC 23	Steel jack VERAC 54	Load distribution base 40 x 25 cm
Min. height (mm)	280	350	370	270	270	
Stroke (mm)	150	200	200	150	150	
Power at 700 bar (T)	27	66	107	23	54	
Net weight (kg)	6,1	15	26	11	25	-
Pump required (see page 225)	65431	65441	66809	65431	65441	-

*

*

* Compliant to Machines Directive 2006/42CE and 98/37/CE.

	65820-67 65820-99	65821-67 65821-99	65798-67
Model	Alu jack US 55	Alu jack US 100	Crib stand set. 3 steel extensions for jacks up to 55 T. max. Heights 75 mm, 150 mm, 230 mm. Can be used individually or stacked together to get the jack as close as possible to the vehicle.
Min. height (mm)	28	30	
Stroke (mm)	16	16	
Power (T)	55 (at 500 bar)	100 (at 700 bar)	
Net weight (kg)	16	26	55
Pump required (see page 225)	65441	65441	-

P/N suffix: -67 or -99 = per unit

Lifting straps

• Using straps for handling avoids damaging the beads: important for ensuring the airtightness of tubeless tyres.
• May also be used for lifting the tyre by the exterior diameter when removing the tyre from the wheel (in this case, for example, provide an 8 m strap for tyres 2 m in diameter).

CE Compliant to Machines Directive 89/392/CE and to Standards EN 1492-1 and 1492-2.

	67126-67	67127-67	67128-67	67131-67	67132-67	67135-67
L. (m)	3	6	8	10	12	Manilla
W. (cm)	5	5	5	5	5	
Power (T)	1	1 to 2	1 to 2	2 to 3	2 to 3	2
Colour	Violet	Violet	Violet	Green	Green	-

Closed flat straps

	65437-67	65438-67
Useful length (m)	3	2
Width (cm)	5	5
Power (T)	3	3
Colour	Yellow	Yellow

Click-fasten straps

	67446-67	67447-67	67448-67	67449-67	67450-67
L. x W. (cm)	Min strap 350 x 2.5	300 x 5	400 x 5	500 x 5	600 x 5
Couleur	Yellow	Blue	Yellow	Green	Yellow

P/N suffix: -67 = per unit

Oak wedges

	67001-67	67002-67
Description	Set of 15 oak wedges with handles	Set of 8 oak wedges with handles
Intended use	Earth movers	Farm machinery
Details	3 wedges L. 75 x W. 26 x th. 15 cm 6 wedges L. 50 x W. 26 x th. 15 cm 6 wedges L. 50 x W. 26 x th. 10 cm	6 wedges L. 50 x W. 26 x th. 15 cm 2 wedges L. 50 x W. 26 x th. 10 cm
Total weight (kg)	approx 300	approx 150

Plastic wedges

	65917-67	65918-67	65919-67	65978-67	65979-67
Dimensions (mm)	495 x 245 x 100	745 x 245 x 100	600 x 400 x 25	Distribution plate 700 x 700 for lifting airbag	Distribution plate 1000 x 1000 for lifting airbag

- Unbreakable even under stress from the most severe loads.
- Waterproof, imperishable, stay light whatever the weather.
- Very long life.
- Easy maintenance.
- Gripping handles.
- Easy cleaning under high-pressure jet.
- Resistant to most chemicals.
- Can be used from -100 to +80°C.
- 100% recycled and recyclable: environmentally friendly.
- Slip-proof treatment.

	65967-67	65968-67	65969-67
Set of wedges	8 wedges (6 x 65917-67 + 2 x 65918-67)	8 wedges (7 x 65917-67 + 1 x 65919-67)	10 wedges (5 x 65917-67 + 4 x 65918-67 + 1 x 65919-67)

Plastic wedge corner

	66044-67
Dimensions (mm)	250 x 185 x 195

P/N suffix: -67 = per unit

PUMPS

- Air driven hydraulic pumps 700 bar.
- Pumps delivered with nipple and particle filter mounted.
- Maximum air inlet pressure in the pump: 7 bar.
- Use a filtering nipple 65491-67 (see page 106).
- Use a Filter-Regulator-Lubricator on the compressor outlet.
- Lubricant for pneumatic tools: see page 226.

- Suffix 67: pumps equipped with quick coupler 67069-67.
- Suffix 99: pumps equipped with screw coupler 67067-67.

It is recommended to use the extended option + pre-set line regulator ref. 65579-67 to limit pressure and soiling.

	(1) 65431-00 (2) 65431-67 (3) 65431-99	(1) 65441-00 (2) 65441-67 (3) 65441-99	(1) 66809-00 (2) 66809-99
	(1) Pump alone. (2) and (3) Complete with hose 2,5 m, coupler, cap and air adaptor	(1) Pump alone. (2) and (3) Complete with hose 3,6 m, coupler, cap and air adaptor	For hydraulic distributors 66724-67 and 66725-67 (1) Pump alone (2) Complete with 2.5 m hose, coupler, cap and air adaptor.
Capacity (L.)	1,3	2,5	4
Dimensions (cm)	28 x 13 x 21	31 x 18 x 21	32 x 32 x 21
Net weight of pump alone (kg)	9	9,6	13
Net weight of complete pump (kg)	9 ,9	12,2	13,9

65491-67	Filtering nipple 1/4" Gas BSP
65516-67	Oil filler cap for pumps
66812-67	Filter for adaptor 65491-67

Hoses complete with spare, see page 226.

CE Pumps comply with appendix 1 of European Directive 2006/42/EEC and to Directives 97/23/CE, 2006/95/CE and 2004/108/CE.

700 bar manual hydraulic pumps

- Suffix 67: pumps equipped with quick coupler 67069-67.
- Suffix 99: pumps equipped with screw coupler 67067-67.

	(1) 67003-67 (2) 67004-67 (3) 67004-99
	(1) Pump alone (2) and (3) Complete with hose 2,5 m, coupler, cap
Capacity (L.)	1,2
Dimensions (cm)	56,5 x 16 x12,5
Net weight of pump alone (kg)	6,7
Net weight of complete pump (kg)	8,4

P/N suffix: -00 or -67 or -99 = per unit

DISTRIBUTORS, 700 BAR HOSES AND HYDRAULIC OIL

• For PHP and PHM pumps. • Service pressure at 700 bar. • Bursting pressure et 2800 bar.

Hydraulic distributors

CE Compliant to Directive 2006/42CE and standards EN12100-1, EN12100-2.

66724-67	66725-67
Hydraulic distributor VIA 3V « HYDRO-MAX 3 » for bead-breakers	Hydraulic distributor VIA 4V « HYDRO-MAX 4 »for bead-breakers

Hydraulic hoses without connections

	Length (m)	Ends	Use
67062-67	2,50	Male 3/8 NPT and G 1/4	For quick coupler
67061-67	3,60		
67063-67	2,50	Male 3/8 NPT and 3/8 NPT	For screw coupler
65571-67	3,60		

Complete hydraulic hoses

	Length (m)	Ends	Use
65957-67	2,50	Male 3/8 NPT and G 1/4 quick coupler	Pump 65431-67
33108-67	3,60		Pump 65441-67
65496-67	2,50	Male 3/8 NPT and G 3/8 screw coupler	Pump 65431-99
65932-67	3,60		Pump 65441-99

Complete anti-whiplash hydraulic hoses

Anti-whiplash safety mechanism incorporated.

	Length (m)	Ends	Use
65726-67	2,50	Male 3/8 NPT and G 1/4 quick coupler	For PASCHRA, BIGMA, SMALLMA, DETAMAX tools
66024-67	3,60		
65727-67	2,50	Male 3/8 NPT and G 3/8 screw coupler	

Hydraulic Oil

SDS

66105-67	Hydraulic oil Velocite n° 6, 5-L can

Expiry date: 5 years after manufacture date

SCHRADER Pressure to perfection

P/N suffix: -67 = per unit

HYDRAULIC CONNECTIONS

700 bar hydraulic connectors

- LUKAS, VERAC, PASCHRA, US, BIGMA, SMALLMA, BIG, SMALL, SAYMA, POUSMA, DISMA, LESMA tools and the pumps have a tapping of 3/8" NPT.
- COMPACT, SHUTTLE and SHUTTLE-T tools have a tapping of 1/4" NPT.
- SCENE, SAYBI, DIUMU tools have a tapping of M18 x 1.5 : connector to be used with joint 67048-67.

(1)	65591-67	Adaptor M1/4 G - M1/4 G
(2)	65852-67	Adaptor M3/8 G - M1/4 G
(3)	65853-67	Adaptor M3/8 G - F3/8 NPT
(4)	67074-67	Adaptor M3/8 NPT - M1/4 G
(5)	67240-67	Connector M1/4 G - M1/4 NPT
(6)	67075-67	Adaptor M18 x 1.5 - M1/4 G
(7)	67076-67	Adaptor M18 x 1.5 - F3/8 NPT
(8)	67149-67	Connector M3/8 NPT - F1/4 G
(9)	67241-67	Adaptor F3/8 NPT - M1/4 G
(10)	67048-67	Copper seal of 18
(11)	67065-67	700 bar Screw coupler F. thread 3/8 NPT
(12)	67069-67	700 bar Quick coupler, F., tap. 1/4 G
(13)	65296-67	700 bar Screw coupler, M. 1/4 NPT
(14)	67067-67	700 bar Screw nipple, F. 3/8 NPT
(15)	67072-67	700 bar Quick nipple, F. 1/4 G
(16)	67066-67	Male cap for 67065-67
(17)	67068-67	Female cap for 67067-67
(18)	67071-67	Male cap for 67069-67
(19)	67073-67	Female cap for 67072-67
(20)	65992-67	Adaptor from screw coupler to quick coupler
(21)	65993-67	Adaptor from quick coupler to screw coupler

Assembly on tools

Assembly on pumps

See hydraulic hose page 226.

Sets: connectors + caps

67145-67	67065 + 67066
67146-67	67067 + 67068
67147-67	67069 + 67071
67148-67	67072 + 67073
R-1625-1	Female coupler (67065 + 67066 + 67076 + 67048)
66821-67	67240 + 67072 + 67073

P/N suffix: -1 or -67 = per unit

TOOLS FOR 1-PIECE RIMS

Operators must always wear the correct clothes and the PPE appropriate for each job: helmet, glasses, protective gloves, safety boots and ear protection.
We recommend the glasses and gloves presented on page 153.

- These tools must be used with a 700 bar manual or air hydraulic pump.
- Never stay close to machine tool when operating.
- Suffix 97: tools equipped with screw coupler mounted on tool and quick coupler delivered separately in the box.

Compliant to Machines Directive 2006/42CE and to pressure equipment Directive DESP 97/23CE.

"MINI-KOUSMA" BEAD-BREAKER

Tool built in steel and aluminium for high reliability and low weight

Flat hook

Adjustable claw

	66014-97
Intended use	For rims up to Ø 24"
Net weight (kg)	8,7
Cylinder stroke (mm)	100
Power at 700 bar (T.)	2,83
Tight power (T.)	2,12 to 4,95
Spade length (mm)	43
Dimensions (cm)	50 x 11 x 32

65296-67	700 bar Screw coupler, M. 1/4 NPT
66821-67	Male quick nipple 1/4 NPT

"COMPACT" BEAD-BREAKER

Tool built in steel and aluminium for high reliability and low weight

Delivered with removable magnetic base to increase stroke by 20 mm

	65071-97
Intended use	Detaches the internal or external bead without removing the tyre. Same for twin wheels
Net weight (kg)	4,7
Cylinder stroke (mm)	40
Power at 700 bar (T.)	2,83
Tight power (T.)	0,76 to 1,78
Spade length (mm)	35
Dimensions (cm)	17 x 17 x 17

65296-67	700 bar screw coupler, M. 1/4 NPT
66821-67	Male quick nipple 1/4 NPT

Wedges

65195-67 "DYICI" wedge (order 4 wedges for a complete set)

P/N suffix: -67 or -97 = per unit

TOOLS FOR 1-PIECE RIMS

Operators must always wear the correct clothes and the PPE appropriate for each job: helmet, glasses, protective gloves, safety boots and ear protection.
We recommend the glasses and gloves presented on page 153.

- These tools must be used with a 700 bar manual or air hydraulic pump.
- Never stay close to machine tool when operating.

- Suffix 67: tools equipped with quick coupler 67072-67.
- Suffix 99: tools equipped with screw coupler 67065-67.

Compliant to Machines Directive 2006/42CE and to pressure equipment Directive DESP 97/23CE.

"US" TYPE BEAD-BREAKER

	67030-67 67030-99
Intended use	1-pice rims
Net weight (kg)	14,5
Cylinder stroke (mm)	95
Power at 700 bar (T.)	9
Spade length (mm)	35
Dimensions (cm)	42 x 28 x 12

67037-67 Earthmover hook only for for transformation for use on 3-piece rims (see page 231)

MANUAL BEAD-BREAKER

	65802-67
Intended use	Farm and industrial vehicle wheels up to 38" with max 14 plies
Net weight (kg)	6,4
Dimensions (cm)	26 x 15 x 11

- Do not use with impact wrench.
- Use with a ratchet wherever possible.

Wedges

65195-67 "DYICI" wedge (order 4 wedges for a complete set)

TOOLS FOR 3-PIECE RIMS

Operators must always wear the correct clothes and the PPE appropriate for each job: helmet, glasses, protective gloves, safety boots and ear protection.
We recommend the glasses and gloves presented on page 153.

- These tools must be used with a 700 bar manual or air hydraulic pump.
- Never stay close to machine tool when operating.

- Suffix Q7: tools equipped with quick coupler 67072-67.
- Suffix Q9: tools equipped with screw coupler 67065-67.
- Suffix 97 : tools equipped with screw coupler mounted on tool and quick coupler
Coupler delivered separately in the box.

Compliant to Machines Directive 2006/42CE and to pressure equipment Directive DESP 97/23CE.

"PASCHRA" BEAD-BREAKER

	65187-Q7 65187-Q9	65267-Q7 65267-Q9
Intended use	3-piece rims of 23.5 R 25 up to 29.5 R 29	Complete box: PASCHRA + wedges + keys
Net weight (kg)	9,6	9,6
Cylinder stroke (mm)	150	-
Power at 700 bar (T.)	11	-
Tight power (T.)	0.95 to 4.95	-
Spade length (mm)	110	-
Dimensions (cm)	44 x 15 x 15	46 x 32 x 15

67488-67 Claw for PASCHRA

- Screw tightening: Mini: 7 da.N - Maxi: 8 da.N.
- Suitable for open-centre or closed-centre wheels of over 3.5".

"KOUSMA" BEAD-BREAKER

Tool built in steel and aluminium for high reliability and low weight

Adjustable claw

	66015-97
Intended use	Rims up to Ø 29''. At a maximum flange height 3.5".
Net weight (kg)	13,2
Cylinder stroke (mm)	114
Power at 700 bar (T.)	4,536
Tight power (T.)	3.4 to 7.93
Spade length (mm)	75
Dimensions (cm)	57 x 11 x 35

66048-67 Spare flat hook option for 66015-97

65296-67	700 bar screw coupler, M. 1/4 NPT
66821-67	Male quick nipple 1/4 NPT

Wedges

65195-67	65229-67
"DYICI" wedge (Order 4 wedges for a complete set)	Set of "CIF" wedges

P/N suffix: - 67 or Q7 or Q9 or 97 = per unit

TOOLS FOR 3-PIECE RIMS

Operators must always wear the correct clothes and the PPE appropriate for each job: helmet, glasses, protective gloves, safety boots and ear protection.
We recommend the glasses and gloves presented on page 153.

- These tools must be used with a 700 bar manual or air hydraulic pump.
- Never stay close to machine tool when operating.

- Suffix 67: tools equipped with quick coupler 67072-67.
- Suffix 99: tools equipped with screw coupler 67065-67.
- Suffix 97 : tools equipped with screw coupler mounted on tool and quick coupler delivered separately in the box.

Compliant to Machines Directive 2006/42CE and to pressure equipment Directive DESP 97/23CE.

"MAXI-KOUSMA" BEAD-BREAKER

25" 29"

Tool built in steel and aluminium for high reliability and low weight

Adjustable claw

	66016-97
Intended use	High-flange rims up to Ø 29". At a maximum flange height 3.5".
Net weight (kg)	13,5
Cylinder stroke (mm)	114
Power at 700 bar (T.)	4,536
Tight power (T.)	3,4 to 7,93
Spade length (mm)	100
Dimensions (cm)	57 x 11 x 36

66049-67 Spare flat hook option for 66016-97

65296-67	700 bar screw coupler, M. 1/4 NPT
66821-67	Male quick nipple 1/4 NPT

"US" TYPE BEAD-BREAKER

24" 25"

	67036-67 67036-99
Intended use	3-piece farm, forestry and earthmover tyres
Net weight (kg)	17
Cylinder stroke (mm)	95
Power at 700 bar (T.)	9
Spade length (mm)	35
Dimensions (cm)	42 x 32 x 15

DIUMU spade 65814-67 and -99 and its accessories: on request.

67037-67 EM hook only for 67036-67.

Wedges

65195-67	65229-67
"DYICI" wedge (Order 4 wedges for a complete set)	Set of "CIF" wedges

P/N suffix: -67 or -97 or -99 = per unit

TOOLS FOR 5-PIECE RIMS

Operators must always wear the correct clothes and the PPE appropriate for each job: helmet, glasses, protective gloves, safety boots and ear protection.
We recommend the glasses and gloves presented on page 153.

- These tools must be used with a 700 bar manual or air hydraulic pump.
- Never stay close to machine tool when operating.

- Suffix 67: tools equipped with quick coupler 67072-67.
- Suffix 99: tools equipped with screw coupler 67065-67.

Compliant to Machines Directive 2006/42CE and to pressure equipment Directive DESP 97/23CE.

- Easy to handle tools designed and developed by Schrader which can be used for the inside or outside of the rim.
- Very light rotating bodies, with high shock-resistant hooks.
- Very powerful

"BIGMA" RINGBREAKER

INTENSIVE USE

25" 45" 51"

	67018-67 67018-99	67025-67 67025-99
Intended use	Spring return	Complete box contents: BIGMA ringbreaker + 2 hooks, 1 support, 4 ring wedges 67029-67, BTR key of 14
Cylinder stroke (mm)	90	
Power at 700 bar (T.)	13,7	
Net weight (kg)	7,9	14
Dimensions (cm)	41 X 15 X 10	39 x 17 x 12

67023-67	Standard hook
67024-67	Narrow hook
67020-67	Counter-brace plate

"SMALLMA" RINGBREAKER

25" 33" 39"

	65286-67 65286-99
Intended use	Recommended for inner side
Cylinder stroke (mm)	50
Power at 700 bar (T.)	13
Net weight (kg)	7,1
Dimensions (cm)	34 x 10 x 11,5

P/N suffix: -67 or -99 = per unit

TOOLS FOR 5-PIECE RIMS

HQ ★★★

Operators must always wear the correct clothes and the PPE appropriate for each job: helmet, glasses, protective gloves, safety boots and ear protection.
We recommend the glasses and gloves presented on page 153.

- These tools must be used with a 700 bar manual or air hydraulic pump.
- Never stay close to machine tool when operating.

- Suffix 67: tools equipped with quick coupler 67072-67.
- Suffix 99: tools equipped with screw coupler 67065-67.
- Suffix 97 : tools equipped with screw coupler mounted on tool and quick coupler delivered separately in the box.

CE Compliant to Machines Directive 2006/42CE and to pressure equipment Directive DESP 97/23CE.

"SHUTTLE-T" RINGBREAKER

25" 45" 51"

Tool built in steel and aluminium for high reliability and low weight

	66017-97
Intended use	Recommended for inner side and outer side of the rim
Jack stroke (mm)	80
Power at 700 bar (T.)	13,7
Net weight (kg)	6,8
Dimensions (cm)	Ø 13 x 43

Jack delivered with 1 short hook mounted, 1 milled short hook, 1 long hook and 2 extension wedges.

60396-67	65296-67	60398-67	65605-67	66821-67
Spare extension wedge	700 bar male screw coupler 1/4 NPT	Spare short hook, L = 40 mm	Spare long hook, L = 65 mm	Quick male nipple 1/4 NPT for tools 66017 and 66011

"MAGMA" RINGBREAKER

45" 63"

Tool built in steel and aluminium for high reliability and low weight

	66011-97
Intended use	Recommended for inner side and outer side of the rim
Cylinder stroke (mm)	150
Power at 700 bar (T.)	20
Net weight (kg)	11,2
Dimensions (cm)	17 x 14 x 41

66851-67 Spare hook

RINGBREAKERS

"SMALL"

25" 33" 39"

"BIG"

25" 45" 51"

Spring return	67012-67 67012-99	67016-67 67016-99
Intended use	Recommended for inner side	
Cylinder stroke (mm)	50	95
Power at 700 bar (T.)	12	12
Net weight (kg)	10	13,4
Dimensions (cm)	35 X 11 X 13	44 x 11 x 12

67017-67

Hook for "SMALL" jack and "BIG" jack

P/N suffix: -67 or -97 or -99 = per unit

TOOLS FOR 5-PIECE RIMS

Operators must always wear the correct clothes and the PPE appropriate for each job: helmet, glasses, protective gloves, safety boots and ear protection.
We recommend the glasses and gloves presented on page 153.

- These tools must be used with a 700 bar manual or air hydraulic pump.
- Never stay close to machine tool when operating.

- Suffix 67 or Q7: tools equipped with quick coupler 67072-67.
- Suffix 99 or Q9: tools equipped with screw coupler 67065-67.

Compliant to Machines Directive 2006/42CE and to pressure equipment Directive DESP 97/23CE.

"SAYMA" RINGBREAKER

INTENSIVE USE

Delivered with 4 wedges of thickness 15 to 105 mm and one sheath.

Spring return	67050-67 67050-99
Intended use	Inner side of wheel. Ideal for scrapper rear wheels
Cylinder stroke (mm)	50
Power at 700 bar (T.)	12
Net weight (kg)	3,4 + 1,5
Dimensions (cm)	16 x 14 x Ø 8

67052-67 Set of 4 wedges for SAYMA tool
Weight: 1,5 kg

"POUSMA" RINGBREAKER

Delivered with set of 2 extensions (70 and 150 mm) and nipple 67058-VQ.

Not to be used to beadbreak the tyre.

Spring return	67053-Q7 67053-Q9
Intended use	For easy removal of tyre from the rim.
Cylinder stroke (mm)	175
Power at 700 bar (T.)	5
Net weight (kg)	3,8 complete
Dimensions (cm)	32 X 10 X Ø 3,5

REAR HUB STIRRUPS

	67059-67
Intended use	Stirrup to be fixed on the studs of rear hub of CATERPILLAR for dismantling and reassembly of inside wheel rings without having to remove this wheel (with BARJUKY and SAYMA tools).
Net weight (kg)	2,5
Dimensions (cm)	20 x 13 x 6,5

WEDGES COMPULSORY FOR FINGER SAFETY

67029-67 Set of 2 wedges for 5-piece rims (use of nuts forbidden)

P/N suffix: -67 or -Q7 or -99 or Q9 = per unit

SEALS,
HAMMER, LOCK-GRIP PLIERS, BRUSH

SEALS

(2)

(1)

(1) "O" RING SEALS					
	ø at rim seat (*)	ø of seal (*)	Type	Michelin Range	Schrader Range
	20	1/4	-	-	65882-67
	24	1/4	-		66795-67
	25	1/4	HUEPO	R-1438-1	65359-67
	25	3/8	SULLA	R-1437-1	65360-67
	29	3/8	SULKY	R-1439-1	65361-67
	33	3/8	STRIX	R-1440-1	65362-67
	35	3/8	STRAS	R-1441-1	65363-67
	39	3/8	FUODI	R-1069-1	65364-67
	45	1/2	-	-	65365-67
	45	3/8	-	R-1580-1	65636-67
	49	1/2	-	-	66796-67
	49	3/8	HEYCO	R-1442-1	65366-67
	51	3/8	-	-	65368-67
	51	1/2	-	-	65319-67
	57	1/2	-	-	65367-67

(2) "L" RING SEALS					
	ø at the seat of the rim		Type	Michelin Range	Schrader Range
	20	-	TYRAN (LR20)	R-1443-1	65729-67
	25	-	LR 25	-	65464-67
	29	-	LR 29	-	65465-67
	33	-	LR 33	-	65577-67

EARTHMOVER TOOLS

67078-67	67236-67	66085-67
Earthmover hammer 2.8 kg	Lock-grip pliers	Stainless steel straight brush 0.35, 4 rows, L = 310 mm beech body

P/N suffix: -1 or -67 = per unit

BARJUKY ²

A single tool from 25 "to 51"

HQ ★★★ INTENSIVE USE

BARJUKY²	66705-67
Weight without extensions 51" (kg)	19
Weight with extensions 51" (kg)	20

Delivered complete

- The BARJUKY² tool is used to position the seal on open-centre or closed-centre wheels from 25" to 51".
- On assembly, the operation to place the O-ring seal is easy and safe as the Barjuky² pushes the flange and the locking rim. It makes removal of protected flanges easier.
- Rigid tool, easy to position and extremely light.
- Multi-purpose device on several types of rim:
  - Open-centre wheels: it grips on the inside of the wheel.
  - Closed-centre wheels: grips on the wheel studs or threaded holes.

The entire device stores away in a wooden box with rollers 103 x 23 x 67 cm.

P/N suffix: -67 = per unit

Various accessories for inflating, mounting and removing truck and earthmover tyres
for on-site maintenance

67600-67 **"AE" maintenance box**
the essential complement
for hydraulic tools and tyre maintenance.
Strong metal box.
Dimensions 110 x 42 x 21 cm
Total weight: 75 kg

CONTENTS

1 Eurodainu truck inflating gauge bar/psi **R-1821-Z**
1 Eurodainu earthmover inflating gauge bar/psi **35864-58**
1 Eurodaira truck pressure gauge bar/psi **38049-99**
1 Eurodaira earthmover pressure gauge bar/psi **38099-99**
1 HYOCA lever **R-1194-1**
1 HYUDE lever **R-1194-1**
2 SAYAM levers **R-858-1**
2 HALTE levers **R-1060-1**
1 FORCE lever **R-1289-1**
1 FIACRE lever **R-0427-1**
1 FIFRE lever **R-0428-1**
2 FACE levers **R-0426-1**
1 tyre bead remover FAGUS **R-1230-1**
2 metal handbrushes, long handle 300 mm (*)
2 brushes for grease truck/earthmover **60805-67**
1 tyre grease tin 4 kg TIGRE **R-5084-1**
1 flat key 17 x 19 (*)
1 flat key 24 x 26 (*)
1 lock-grip pliers **67236-67**
2 handling gloves (*)
1 core and cap screwing tool passenger car/truck **R-1255-1**
1 earthmover core and cap screwing tool **R-1469-1**
2 earthmover/truck adaptors **R-1296-**1
2 large bore snap-on couplers **R-0767-1**
10 inflation nipples **R-0985-2** valve side for hose 7 x 13
2 large bore inflation nipples **R-0984-1** for hose int. Ø 7
100 cores passenger car and truck **S-4191-3**
50 short cores earthmover **R-0765-2**
100 caps passenger car and truck **R-1424-3**
50 caps earthmover **R-0766-2**
1 tube deflator **R-0634-1**
1 valve thread repair tool for passenger car/truck **S-4259-1**
1 valve thread repair tool for earthmover **R-0769-1**
1 section 3 m hose 7 x 13 **R-1018-1**
10 hose couplers outlet side **R-0986-2** for hose 7 x 13
10 rotating nipples inlet side **R-0987-2** for hose 7 x 13
30 ferrules R-1430-2 for hose 7 x 13
100 sealing washers truck **R-0569-3**
1 hex. socket 23, square 1/2" **65047-67 (*)**
1 hex. socket 24, square 1/2" **65048-67 (*)**
1 hex. socket 27, square 1/2" **65049-67 (*)**
1 hex. socket 30, square 1/2" **65050-67 (*)**
1 square 1/2" **65046-67 (*)**

P/N suffix: -67 = per unit (*) Parts not sold retail

Various accessories and hydraulic tools
for tyre removal in workshop or on site

- Suffix 67: tools equipped with quick coupler 67072-67.
- Suffix 99: tools equipped with screw coupler 67065-67.

	67096-67 67096-99	67099-67 67099-99
Description	**"KE-2" box** Contains all tools for 1, 3 and 5-piece wheels. Manual pump in cases where there is no air for the air pump. "POUSMA" jack 67053-Q7 and 3 spacers for withdrawing the tyre from the rim and other handling operations.	**"FM" box** All tools needed for operations on 1, 3 and 5-piece wheels
Material	Strong metal box	
Dimensions (mm)	1100 x 420 x 210	510 x 450 x 300
Net weight (kg)	81	82

"KE-2" CONTENTS

1 air hydraulic pump 1.3 L, complete **65431-67**
1 manual pump, complete **67004-67**
1 US beadbreaker **67036-67** passenger car and truck and earthmover hook for 1 and 3-piece rims
1 BIGMA ringbreaker **67018-67**
1 narrow hook **67024-67** for BIGMA
1 standard hook **67023-67** for BIGMA
2 sets of 2 ringbreaker wedges **67029-67**
1 small SAYMA jack **67050-67**
4 wedges **67052-67** for SAYMA
1 POUSMA jack **67053-Q7**
1 BTR key of 14 - **67237-67**
1 BTR key of 5/16 - **67238-67**

"FM" CONTENTS

1 air hydraulic pump 1.3 L, complete **65431-67**
1 US ringbreaker, 1 and 3-piece **67036-67**
1 BIGMA ringbreaker **67018-67**
1 narrow hook **67024-67** for BIGMA
1 standard hook **67023-67** for BIGMA
2 sets of 2 ringbreaker wedges **67029-67**
1 POUSMA jack with extensions and nipple **67053-Q7**
1 small SAYMA jack **67050-67**
4 wedges **67052-67** for SAYMA
2 stirrups rear hub CATER **67059-67**
1 core and cap screwing tool passenger car/truck **R-1255-1**
1 earthmover core and cap screwing tool **R-1469-1**
2 metal handbrushes (*)
2 handling gloves (*)
1 reducer nipple 3/8-1/4 **67074-67**
1 BTR key of 14 - **67237-67**
1 BTR key of 5/16 - **67238-67**
1 quick connect coupler **67072-67** + cap **67073-67**

P/N suffix: -67 or -99 = per unit *(*) Parts not sold retail*

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