Hamaton

Innovation to Perfection

PRODUCT CATALOG

TPMS Sensors | Valves | Tire Tools

About Hamaton

Hamaton Inc. is a subsidiary of Hamaton Automotive Technology Co., Ltd, a global leader in the manufacturing and supply of traditional tire valves and TPMS products for both OE and aftermarket located in Hangzhou, China.

Established in 1993, Hamaton Automotive Technology Co., Ltd is the main production facility and distribution center for the extensive range of Hamaton products, initially specializing in tire valve production prior to expanding into the TPMS industry. Hamaton Ltd opened its UK headquarters in 2015 to fulfill increased demand for TPMS products across Europe, with an additional subsidiary opening in Wixom, Michigan in 2016 to meet the needs of the North American TPMS market. Hamaton GmbH was opened in Willich, Germany in 2021 to provide additional support and distribution networks throughout Europe.

Hamaton Inc., headquartered in Wixom, Michigan, provides industry-leading technology through our complete range of TPMS and traditional valve solutions, expert training courses and certified quality standards, while also being home to our first-class customer support, e-commerce, and distribution networks.

Our Products

As an internationally recognized brand, Hamaton is dedicated to providing the latest TPMS solutions and technology to meet the needs of our customers across the globe, with an emphasis on manufacturing excellence controlled by the strictest quality standards.

Hamaton TPMS sensors such as our programmable and configurable universal U-Pro sensors, Tesla BLE, workshop tools, tire valves, and service parts are manufactured and tested on a fully-automated, environmentally-controlled production line. Hamaton's products are also stress tested using certified industry standard methods to ensure product durability, lifespan, and quality, with our products certified by TÜV Süd for IATF 16949 and ISO 9001.
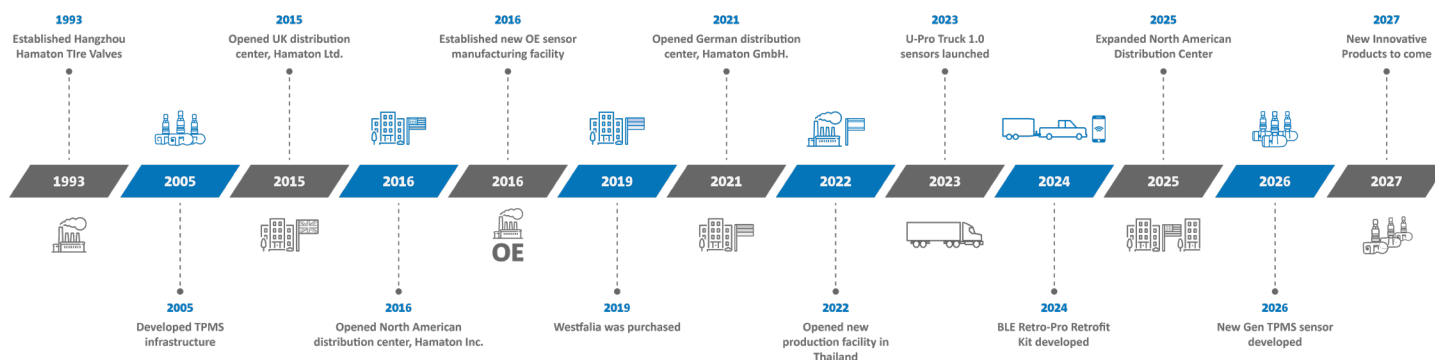
Hamaton's range of TPMS diagnostic tools are designed and manufactured by global market-leader, ATEQ, ensuring we continue to introduce the most advanced TPMS technological features to the market.

Hamaton is also one of the largest manufacturers of tire valve inflation products in the world, producing millions of valve products for bicycle, motorcycle, passenger car, light truck, heavy commercial vehicle, OTR and Earthmover applications. We complement our extensive valve product range with tire inflation, pressure, and tread depth gauges, alongside valve and wheel accessories.

Hamaton Overview

Hamaton USA
Westfalia USA
Hamaton UK
Westfalia Germany
Westfalia Czech
Hamaton China
Westfalia China
Hamaton Thailand

Hamaton Timeline

1993
Established Hangzhou Hamaton Tire Valves

2015
Opened UK distribution center, Hamaton Ltd.

2016
Established new OE sensor manufacturing facility

2021
Opened German distribution center, Hamaton GmbH.

2023
U-Pro Truck 1.0 sensors launched

2025
Expanded North American Distribution Center

2027
New Innovative Products to come

1993	2005	2015	2016	2016	2019	2021	2022	2023	2024	2025	2026	2027

2005
Developed TPMS infrastructure

2016
Opened North American distribution center, Hamaton Inc.

2019
Westfalia was purchased

2022
Opened new production facility in Thailand

2024
BLE Retro-Pro Retrofit Kit developed

2026
New Gen TPMS sensor developed

About Hamaton

China Factory

Thailand Factory

Distributor Support

Training Support

At Hamaton, we believe that knowledge is power. Our commitment to training has played a vital role in supporting our customers and driving growth. With the expertise of our sales and technical support teams, we provide hands-on instruction that ensures professionals remain confident and up-to-date on every aspect of TPMS.

Training is designed to cover the essentials that technicians face daily. Step-by-step guidance builds mastery of TPMS tool functions, while up-to-date insights keep teams ahead of industry changes and technology trends. Best practices for servicing and replacing TPMS sensors and valve components are also addressed in detail, along with a comprehensive overview of vehicle relearn procedures for a wide range of makes and models.

For added convenience, we offer virtual training through 30–60 minute video sessions. These interactive programs deliver an efficient TPMS "crash course," covering fundamental knowledge, product overviews, and tool usage. They also create a direct connection between your technicians and our support team, strengthening relationships beyond the classroom.

When hands-on instruction is preferred, training can be delivered on-site at the shop level. Each program is tailored to the specific needs of the team, ensuring consistent and practical education. For larger groups, Hamaton also provides regional training sessions that bring multiple shops together for collaborative learning, hands-on demonstrations, and real-world applications. All training is arranged with flexible scheduling, allowing shops to minimize disruption while maximizing the benefits of education.

Marketing Support

We understand that technical excellence must be matched with strong marketing to truly drive success. That is why we provide professional marketing support, designed to help our partners promote TPMS solutions confidently and effectively.

Our team creates high-quality materials that highlight products, showcase promotions, and strengthen brand presence. Flyers can be tailored for print or digital use, offering clear and visually engaging ways to present information to customers. Digital posters are designed for screens, websites, and social media, ensuring your message is delivered with impact in every format. For more structured presentations, we also provide polished PowerPoint decks that are ready to support client meetings, training sessions, or internal sales discussions.

By supplying resources that are both professional and practical, we help our partners increase visibility, educate customers, and ultimately boost sales. Marketing support at Hamaton is more than just design — it is a partnership that equips you with the tools to grow your business and make a lasting impression.

Table of Contents

* The information contained herein is accurate and reliable as of the date of publication. However, we do not assume any liability whatsoever for the accuracy and completeness of the above information.
** Please do not hesitate to contact your local sales representative for more information about our other product ranges.

TRUCK 1.0
HTS-T01B
433 MHz
MODEL:1202159
LOT#:118B4ag0020
ID: CD7D861E

UK
CA CE

Hamaton H47
MAIN MENU
CHECK SENSOR
Powered by ATEQ
Tx   Fail   Pass
OK
C

TPMS

SECTION 1

12.5 in-lbs

FCC ID:2AFH7PHT240
IC:20466-PHT240

HYBRID 2.5
HTS-2300
315 & 433 MHz

1.4N·m/12.5in-lbs

079B42r0010

FCC ID: 2AFH7PHT260
IC:20466-PHT260

∠12°

HYBRID
BLE
HTS-3800
UK CA FCC CE

12.5 in-lbs

HYBRID
NFC
HTS-2400
315 & 433 MHz

+

U-Pro TPMS Sensors

U-Pro Hybrid NFC

HTS-A78ED

- A True ONE SKU Solution – The first sensor in the market that offers dual valves in one box alongside our patented, leading-edge NFC technology.
- Lightning-Fast Programming – Program Hybrid NFC sensors with a single tap, outperforming traditional TPMS tools.
- Stay Updated in Real Time – Instantly add new vehicle coverage through the free NFC App with automatic cloud-based updates.
- Multiple Programming Options – Program by creating a new ID or manually enter an OE ID to skip the relearn process entirely.
- Always Up-to-Date – Free App with lifetime updates ensures you have the latest coverage without obsolete stock.
- All the benefits of U-Pro Hybrid 2.5 plus NFC technology!

Valve Options for Sensors:
Bulk options available

HTS-A78EG　　**HTS-A78EH**　　**HTS-A78EK**

U-Pro Hybrid 2.5

HTS-A78DG

- Unmatched Vehicle Coverage – Compatible with 99.9% of direct TPMS-enabled vehicles.
- Future-Proof Technology – Continuously updated with new programmable protocols to support the latest vehicles.
- Dual-Frequency Capability – Operates on 315 MHz and 433 MHz.
- Lightning-Fast Configuration – Configures in as little as 1–3 seconds saving time and boosting shop efficiency.
- Wide Tool Compatibility – Works with 30+ ATEQ TPMS tools for seamless integration.
- OEM-Level Features – Replicates LOC SYNC, PAL, WAL, and Tire Fill Assist, ensuring precise wheel location.

Valve Options for Sensors:
Bulk options available

HTS-A78DD　　**HTS-A78DH**　　**HTS-A78DK**

U-Pro Hybrid BLE

HTS-B10BN-US

- Cost-effective aftermarket Bluetooth Low Energy TPMS sensors for Tesla models.
- Install and Drive – No programming or configuration required
- Direct OE sensor replacement.
- Pre-programmed for Tesla Model 3, S, X, Y, and Cybertruck.
- Reliable BLE communication for live pressure monitoring.
- Vehicle Coverage:
  - ☐ Tesla Model 3 (October 2020 to current)
  - ☐ Tesla Model S (June 2021 to current)
  - ☐ Tesla Model X (October 2021 to current)
  - ☐ Tesla Model Y (October 2020 to current)
  - ☐ Tesla Cybertruck (July 2023 to current)

Retro Pro BLE

HTS-RT01

- Real-Time Tire Monitoring – Get accurate updates straight from your tires as you drive.
- Free Mobile App (iOS & Android) – Easy access to tire data on your phone, anytime.
- Clamp-In Valve (180 PSI Rated) – Built for durability and high-pressure performance.
- 2-Year Warranty – Coverage you can count on from the date of installation.
- Retrofit-Friendly Solution – Works seamlessly with vehicles, trailers, and RVs, and includes installation hardware for 0.453" and 0.625" valve holes.
- Our Retrofit App is compatible with Apple CarPlay and Android Auto.

Supported Tools

Hamaton Hybrid HT	Hamaton H57	Hamaton H56	Hamaton H46	Hamaton H47	ATEQ VT57
ATEQ VT56	ATEQ VT47	ATEQ VT37	ATEQ VT36	ATEQ VT55	AirTech AT200
Bosch TPA 300	Continental TPMS D	Cornwell C509	Ktool VT46	Ktool VT36	LAUNCH TSAP-1
Matco MD56	Matco MAXTPMS	Monster VT46	Monster VT36	Myers Hybrid HT	Myers MTS56
Myers MTS46	Myers 360	NAPA 92-1551	NAPA 92-1541	OTC 3838	PREMA H46
PREMA H47	QWIK T46000	Snap-on TPMS3	TECH H56	TECH H46	TECH H47
ATEQ VT67	Matco MAXTPMS 2.0	Snap-on TPMS5	Snap-on TPMS4		

There are over 30 ATEQ-manufactured TPMS diagnostic tools that can configure/program our range of U-Pro TPMS Sensors.

Tech Support

At Hamaton, we know that dependable support can make all the difference in a busy tire shop. That's why our technical support program has become one of the most valuable resources we offer. Based in Wixom, Michigan, our team of TPMS experts is available seven days a week to provide direct, reliable guidance whenever it's needed.

What makes our program stand out is the people behind it — a solid, knowledgeable team that understands the challenges technicians face and is committed to making things as easy as possible. From sensors and tools to relearns and troubleshooting, we cover every aspect of TPMS so technicians never have to waste time searching for answers or contacting multiple manufacturers. If an issue takes more than five minutes to solve, we encourage technicians to pick up the phone and let us step in.

This hands-on approach reduces downtime, increases efficiency, and keeps vehicles moving smoothly through the bays. For our partners, it means peace of mind knowing that help is just a call away. For the customers, it means quicker service and greater satisfaction — proof that the right support team doesn't just solve problems, it drives success.

TPMS TECHNICAL SUPPORT

Need TPMS Help?
Relearn questions? Vehicle coverage?
We've got you covered—7 days a week.

(888) 588-7039

support@hamatonusa.com

TECHNICAL SUPPORT HOURS

MON thru FRI: 8AM - 10PM
SAT: 9AM-8PM SUN: 10AM-7PM (EST)

U-Pro™ HYBRID 2.5

Scan the QR code to visit us at
www.HamatonUSA.com

U-Pro Heavy Duty TPMS Sensors

U-Pro Truck 1.0 VMS

HTS-T01A

- ■ Wide Compatibility – Works with North American trucks, trailers, and buses, plus both OE and aftermarket TPMS valves.
- ■ Tool Integration – Compatible with ATEQ's VT Truck 2.0 and VT56/57 and H56/57 tools with truck upgrade.
- ■ Durable Performance – Built with a high-capacity battery, latest NXP chip, and engineered for heavy-duty applications.
- ■ OE-Quality Valves – Choose from 11 clamp-in options, tested for high-pressure and temperature standards.
- ■ Flexible Fit – Designed for 17.5" to 24.5" one-piece rims, ensuring long service life.
- ■ 2-Year Warranty – Backed by reliable coverage for peace of mind.

Valve Options for U-Pro Truck 1.0 VMS Sensors

| 6-430 | 6-431 | 6-432 | 6-433 | 6-434 |

| 6-460 | 6-461 | 6-462 | 6-463 | 6-464 | 6-465 |

U-Pro Truck 1.0 BMS

HTS-T01B

- ■ Universal Fit Strap – Ideal for trailers and mixed fleets; installs without valve replacement.
- ■ Easy Installation – Adjustable, durable band with high tensile strength integrates with standard tire service procedures.
- ■ Tool Compatibility – Works with ATEQ's VT Truck 2.0, plus VT56/57 and H56/57 tools with HD sensor upgrade.
- ■ Heavy-Duty Reliability – Built with a cutting-edge battery, latest NXP chip, and engineered for 17.5" to 24.5" one-piece rims.

H47 Hybrid Tool

HAM-D065

- Reads and activates 100% of OE and aftermarket sensors – Full compatibility for complete coverage.
- Quick U-Pro Hybrid configuration and programming – Fast and easy sensor setup.
- Sync-ID with 90% OBDII relearn coverage – Simplifies relearns on most vehicles.
- Program up to 6 sensors at once – Save time with multi-sensor programming.
- Integrated OBDII module and cable included – Ready for quick and easy vehicle connection.
- Free lifetime updates + 2-year warranty – Always up-to-date and backed with support.

H57 Tool

HAM-D081

- 4.3" color touchscreen – Compact yet durable design for quick use.
- Wi-Fi and Real-time Updates – Powered by Live Sensor
- Advanced tire management – Measure tread depth, record DOT, and update placard values.
- Global vehicle database – Covers North America, Europe, Asia, and more for broad compatibility.
- OBDII module included – Provides advanced diagnostics and faster, more accurate relearns.
- VIN scanning – Identify vehicles for faster, more accurate service.

OBDII Module

ATE-D006

- Direct ECU Connection – Links compatible ATEQ and Hamaton tools to a vehicle's ECU for TPMS relearns.
- Wide Tool Compatibility – Works with VT57, H57, VT56, H56, VT46, and H46 diagnostic tools.
- Added Functionality – Expands tool capabilities with:
  - ☐ OBDII TPMS relearns
  - ☐ Read/clear DTC codes
  - ☐ Placard adjustments
  - ☐ Sensor ID retrieval
  - ☐ ECU unlock

TPMS Tools

VT67 Tool

ATE-D084

- SGW-Ready with Global Coverage – Supports Stellantis vehicles and covers domestic, European, and Asian markets.
- Cloud-Based Job Management – Save, edit, and manage reports anywhere.
- Program & Clone Sensors – Supports 20+ aftermarket TPMS brands.
- Built-in Camera – Capture wheel and vehicle inspection photos.
- Advanced Tire Management Suite – Tread depth, tire registration, wheel inspection.
- BLE Sensor Compatibility – Reads BLE TPMS sensors.

VT Truck 2.0 Tool

HAM-D076

- Supports full TPMS service – Designed for heavy-duty trucks, buses, and trailers
- All-in-One Display – Shows complete TPMS information on a single screen.
- Reads sensors with ease – Quickly activates sensors, even in twin-wheel setups.
- Manages up to 22 wheels per vehicle – Handles large commercial fleets efficiently.
- Wide compatibility – Programs Hamaton's U-Pro Truck sensors and multiple other aftermarket sensors.
- Regular database updates – Ensures coverage for the latest vehicles

Tire Tread Depth Gauge

ATE-D027

- Quick Vehicle Safety Check – Detects worn tires, damage, and poor alignment in one step.
- Triple-Point Measurement – Captures inner, center, and outer tread depths instantly.
- High Accuracy – Measures within ±1% + 0.0012 in (0.03 mm).
- Color-Coded Results – Green, yellow, and red indicators displayed on VT56 screen.
- Automatic Calibration – Performs a self-check before every use.
- Added Service Value – Creates new opportunities for tire sales and customer safety.

Service Kits

6-102

6-103

6-104

6-106

6-108

6-109

6-110

6-111

6-112

6-114

6-116T

6-117

6-118

6-119

6-120

6-122

6-123

6-125

6-127

6-129

6-138

6-139

6-153

Product Number	Product Description
6-102	Kit for Schrader Gen J
6-103	Kit for Schrader Gen 2/3
6-104	Kit for Schrader Gen 2/3
6-106	Kit for Schrader Gen 2/3
6-108	Kit for VDO TG1B
6-109	Kit for TRW Version 2
6-110	Kit for HUF Gen 1
6-111	Kit for HUF Gen 2
6-112	Kit for Schrader Gen 2/3
6-114	Kit for TRW Version 2
6-116T	Kit for Pacific LFB1/LFC1
6-117	Kit for Pacific LFB1/LFC1
6-118	Kit for Schrader Gen 2/3
6-119	Kit for Schrader Gen 2/3
6-120	Kit for Schrader Gen Alpha
6-122	Kit for Schrader Gen J
6-123	Kit for Schrader Gen 1
6-125	Kit for TRW Version 2
6-127	Kit for TRW Version 1
6-129	Kit for VDO TG1B
6-138	Kit for VDO TG1C
6-139	Kit for VDO TG1C
6-153	Kit for Baolong

TPMS Replacement Valves

Clamp-In Valves

Product Number	Product Description
6-201	Valve for VDO TG1B
6-203	Valve for Schrader Gen 4
6-203B	Brass Valve for Schrader High Speed
6-204	Valve for HUF-56 mm
6-206B	Valve for VDO MB
6-216	Valve for Schrader Gen 4
6-218	Valve for VDO MB
6-228	Valve for Schrader Gen Alpha
6-231C	Valve for VDO TG1C
6-233	Valve for CUB/Smart Sensor
6-235	Valve for Schrader Gen Gamma
6-235BK	Black Valve for Schrader Gen Gamma
6-236	Valve for TRW Version 2
6-240	Valve for Gen 2 HUF-43 mm
6-240BK	Black Valve for Gen 2 HUF-43 mm
6-241	Valve for Gen 2 HUF-48 mm
6-242	Valve for Gen 2 HUF-49 mm
6-243	Valve for Gen 2 HUF-51 mm
6-266	Valve for U-Pro Sensor
6-266BK	Black Valve for U-Pro Sensor
6-266-SH	Graphite Valve for U-Pro Sensor
6-270	Valve for Pacific
6-284-BK	Black Valve for Sysgration Tesla
6-437AL	Aluminum Valve for Schrader Faraday
6-437BK	Black Valve for Schrader Faraday
6-437-1	Tri-Fit Valve for Schrader Faraday
6-439	Valve for Dill 5001 Universal
6-439AL	Valve for TRW Ram
6-440	Valve for 20° Bend ITEC & Volvo Buses
6-458	Valve for U-Pro & GM Dually
6-468	Valve for Ford F600 Super Duty Trucks
TPMS-416	Valve for Schrader
TPMS-416AL	Valve for Schrader
TPS-1-502C	Valve for TRW Truck

6-201   6-203   6-203B   6-204   6-206B

6-216   6-218   6-228   6-231C   6-233

6-235   6-235-BK   6-236   6-240   6-240BK

6-241   6-242   6-243   6-266   6-266BK

6-266-SH   6-270   6-284-BK   6-437AL   6-437BK

6-437-1   6-439   6-439AL   6-440   6-458

6-468   TPMS-416   TPMS-416AL   TPS-1-502
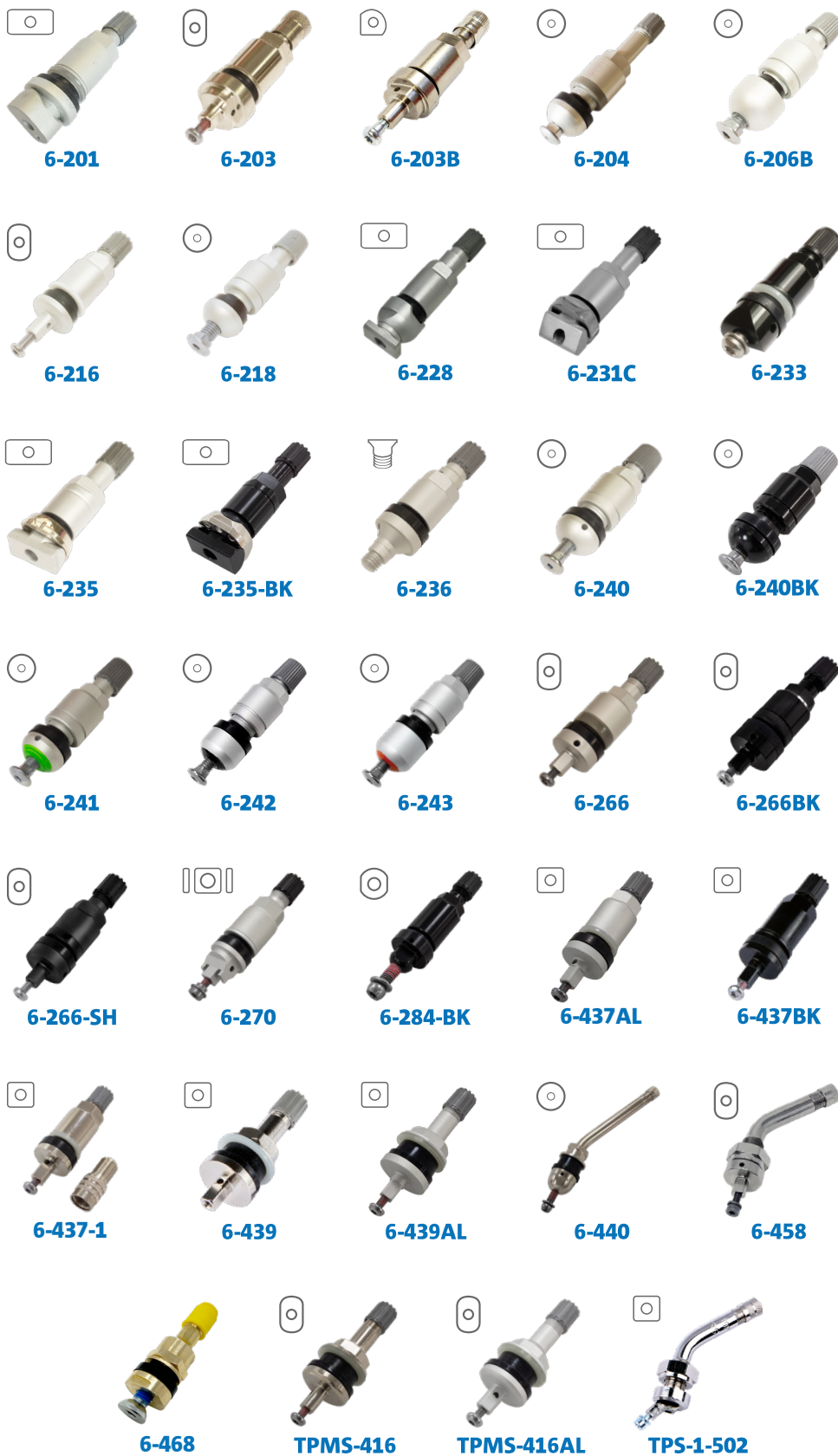
TPMS Replacement Valves

Snap-In Valves

6-207	6-207B	6-207C	6-208	6-209D-1
6-210	6-210H	6-211	6-213	6-214
6-215A	6-502	6-503	6-504	6-505
6-507	TPS-412			

Product Number	Product Description
6-207	Valve for Schrader Rev 4
6-207B	Valve for Dual-Fitment
6-207C	Valve for Schrader Gen 4
6-208	Valve for VDO TG1D
6-209D-1	Valve for Lear Sensors
6-210	Valve for Schrader EZ-Sensors
6-210H	Valve for Schrader EZ-Sensors
6-211	Valve for TRW Version 4
6-213	Valve for Schrader REV 4
6-214	Valve for Ali Sens.It
6-215A	Valve for CUB/Smart Sensor
6-502	Valve for REDI Sensor
6-503	Valve for Pacific N11
6-504	Valve for FCA/Jeep
6-505	Valve for Honda/Acura
6-507	Valve for Toyota
TPS412	Valve for Schrader REV 4

Starter Kit

- The Hamaton Starter Kit provides a selection of the most popular TPMS sensor replacement parts, covering 85% of direct TPMS-enabled vehicles in the USA to meet the TPMS servicing requirements of most tire shops.
- Starter Kit Includes:
  - ☐ 32 Service Kits
  - ☐ 16 Clamp-In Valves
  - ☐ 16 Snap-In Valves

Passenger Car & Motorcycle Valves

SECTION 2

Passenger Car & Motorcycle Valves

TR400 Series

Brass valve cores with ozone resistant EPDM rubber for aluminum wheels with an 11.3 mm valve hole.

1-101 **1-102** **1-103** **1-108**
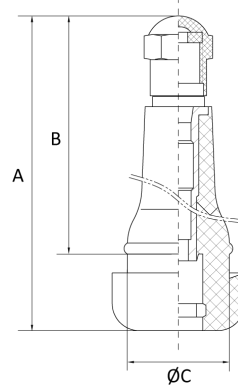
Product Number	Product Description	TR Number	Valve Hole Size (mm)	A (mm)	B (mm)	C (Ø)
1-101	TR412 with Normal Plastic Cap	TR412	Ø 11.3	33	22	15
1-102	TR413 with Normal Plastic Cap	TR413	Ø 11.3	43	32	15
1-103	TR414 with Normal Plastic Cap	TR414	Ø 11.3	49	38	15
1-108	TR425 with Normal Plastic Cap	TR425	Ø 15.7	62	50	19

TR400 Custom Series

Nickel-plated brass valves for aluminum wheels with an 11.5-15.8 mm valve hole. Use a torque of 27-44 in-lbs to install the valve.
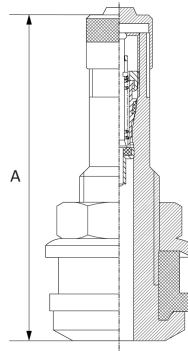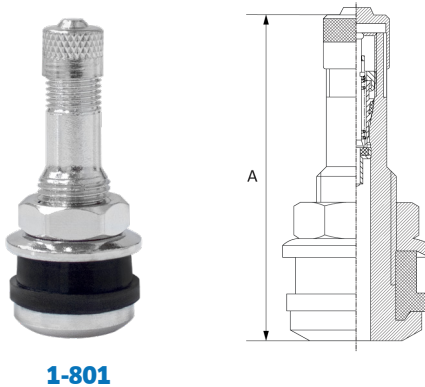
1-801

Product Number	Product Description	TR Number	A (mm)
1-801	TR416 Custom Wheel Clamp-In Valve	TR416	40.5

The products contained in the above table use: Valve Hole Size: Ø 15.7

Passenger Car & Motorcycle Valves

TR High Pressure Series

Brass valve cores with ozone resistant EPDM rubber for aluminum wheels with an 11.5 mm valve hole.

1-401

1-403
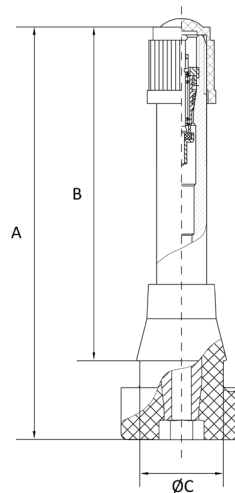
Product Number	Product Description	TR Number	Valve Hole Size (mm)	A (mm)	B (mm)	C (Ø)
1-401	TR600 High Pressure Valve (80PSI)	TR600HP	Ø 11.3	42.8	31	12.5
1-403	TR801 High Pressure Valve (80PSI)	TR801HP	Ø 15.7	49	33.5	17

Commercial Vehicle Valves

SECTION 3

Commercial Vehicle Valves

Brass valves for wheels with a 15.7 mm valve hole. Use a torque of 35-53 in-lbs to install the valve.

A

B

α°
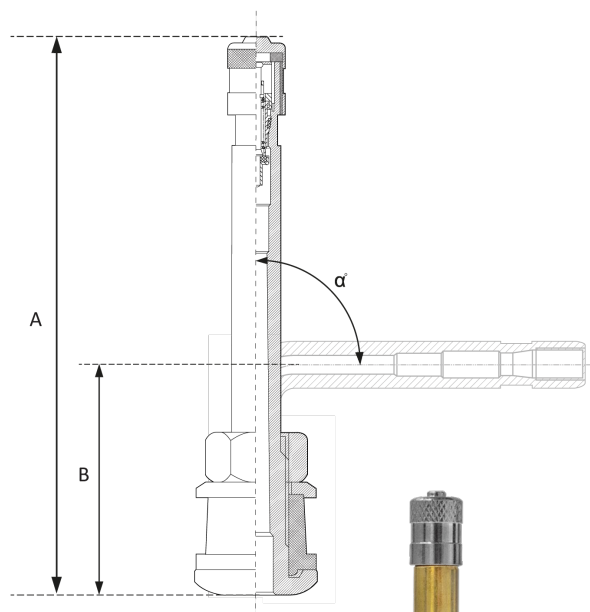
1-201   1-202   1-203   1-204   1-205   1-206   1-207

Product Number	Product Description	TR Number	A (mm)	B (mm)	α°
1-201	TR500 Commercial Vehicle Valve	TR500	51	-	-
1-201A	TR500A Commercial Vehicle Valve	TR500A	51	26	23°
1-202	TR501 Commercial Vehicle Valve	TR501	38	-	-
1-203	TR570 Commercial Vehicle Valve	TR570	79.5	-	-
1-203C	TR570C Commercial Vehicle Valve	TR570C	79.5	33	90°
1-204	TR571 Commercial Vehicle Valve	TR571	86	-	-
1-205	TR572 Commercial Vehicle Valve	TR572	96	-	-
1-206	TR573 Commercial Vehicle Valve	TR573	111	-	-
1-207	TR574 Commercial Vehicle Valve	TR574	127	-	-
1-208	TR575 Commercial Vehicle Valve	TR575	29	-	-
1-209	TR501OV Commercial Vehicle Valve	TR501OV	31	-	-

1-203C

Commercial Vehicle Valves

TR500 Series

Brass valves for wheels with a 15.7 mm valve hole. Use a torque of 35-53 in-lbs to install the valve.

1-201A
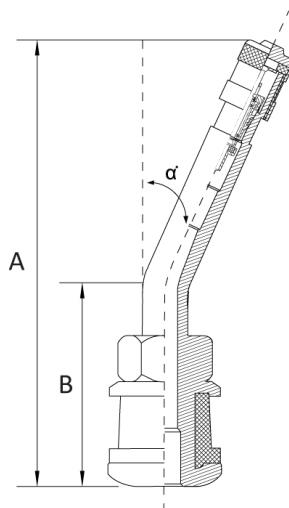
The following shows how to order products from the table below:

TR572 - F19

- Spec Number
- Angle Code
- TR Number

	TR570	TR571	TR572	TR573	TR574
H ("/mm)	**A ("/mm)**				
1.50/38	1.63/41.5	1.88/48	2.25/57	2.88/73	3.50/89
1.63/41.5	1.50/38	1.75/44.5	2.13/54	2.75/70	3.38/86
1.75/44.5	1.38/35	1.63/41.5	2.00/51	2.63/67	3.25/82.5
1.88/48	1.25/31.8	1.50/38	1.88/48	2.50/63.5	3.13/79.5
2.00/51	1.13/28.7	1.38/35	1.75/45.5	2.38/60.5	3.00/76
2.13/54	1.00/25.4	1.25/31.8	1.63/41.5	2.25/57	2.88/73
2.25/57	-	1.13/28.7	1.50/38	2.13/54	2.75/70
2.38/60.5	-	1.00/25.4	1.38/35	2.00/51	2.63/67
2.63/60.5	-	*0.88/22.4	1.25/31.8	1.88/48	2.50/63.5
2.63/67	-	-	1.13/28.7	1.75/44.5	2.38/60.5
2.75/70	-	-	1.00/25.4	1.63/41.5	2.25/57
3.00/76	-	-	*0.88/22.4	1.50/38	2.13/54
3.00/76	-	-	-	1.38/35	2.00/51
3.13/79.5	-	-	-	1.25/31.8	1.88/48
3.25/82.5	-	-	-	1.13/28.7	1.75/44.5
3.38/86	-	-	-	1.00/25.4	1.63/41.5
3.50/89	-	-	-	*0.88/22.4	1.50/38
3.63/92	-	-	-	-	1.38/35
3.75/95.3	-	-	-	-	1.25/31.8
3.88/98.6	-	-	-	-	1.13/28.7
4.0/101.5	-	-	-	-	1.00/25.4

Angle Code	Angle°
A	4°
B	11°
C	16°
D	21°
E	26°
F	31°
G	36°
H	41°
I	46°
J	51°
K	56°
L	61°
M	66°
N	71°
O	76°
P	81°
Q	86°

Spec Number
12
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31
32

The products contained in the above and left tables use:

Grommet: **2-305** | Washer: **2-501E-2** | Torque: **4-6 Nm** | Hex Nut: **2-403** | Valve Core: **1-1400-1** | Cap: **2-101** | Valve Hole Size: Ø **15.7**

* Maximum Bend Angle is 26°

Commercial Vehicle Valves

TR510 Series

Nickel-plated brass valves for aluminum wheels with a 15.7 mm valve hole. Use a torque of 106-133 in-lbs to install the valve.

1-303

1-302
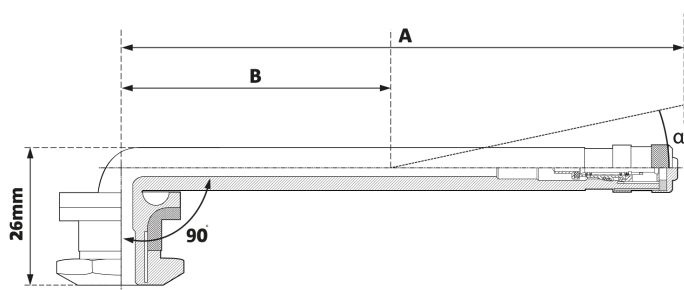
1-301

Product Number	Product Description	TR Number	A (mm)	B (mm)	α°
1-301	TR509 Nickel-Plated Commercial Vehicle Valve	TR509	120.5	-	-
1-302	TR510 Nickel-Plated Commercial Vehicle Valve	TR510	140	-	-
1-303	TR511 Nickel-Plated Commercial Vehicle Valve	TR511	108	-	-

The products contained in the above table use:

Grommet: **2-306** | Hex Nut: **2-410 / 2-465** | Valve Core: **1-1400-1** | Cap: **2-101 / 2-103-1** | Valve Hole Size: Ø **15.7**

Commercial Vehicle Valves

TR540 Series

Nickel-plated brass valves with O-rings for aluminum wheels with a 9.7 mm valve hole and 5.5-8.4 mm rim. Use a torque of 89-133 in-lbs to install the valve.

1-501 **1-502** **1-503** **1-504** **1-505**
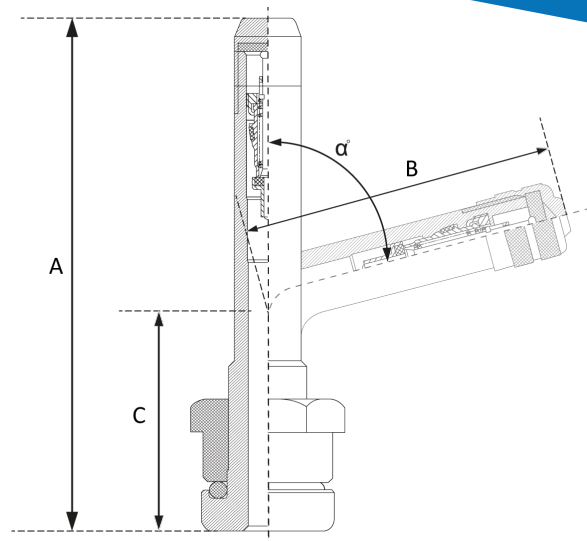
1-502C **1-502D** **1-502E** **1-503D** **1-504E**

Product Number	Product Description	TR Number	A (mm)	B (mm)	C (mm)	α°
1-501	TR542 Nickel-Plated Commercial Vehicle Valve	TR542	32	-	-	-
1-502	TR543 Nickel-Plated Commercial Vehicle Valve	TR543	58.5	-	-	-
1-502C	TR543C Nickel-Plated Commercial Vehicle Valve	TR543C	58.5	35	23.6	45°
1-502D	TR543D Nickel-Plated Commercial Vehicle Valve	TR543D	58.5	35	25	60°
1-502E	TR543E Nickel-Plated Commercial Vehicle Valve	TR543E	58.5	35	25	75°
1-503	TR544 Nickel-Plated Commercial Vehicle Valve	TR544	72.5	-	-	-
1-503D	TR544D Nickel-Plated Commercial Vehicle Valve	TR544D	72.5	49	25	60°
1-504	TR545 Nickel-Plated Commercial Vehicle Valve	TR545	89	-	-	-
1-504D	TR545D Nickel-Plated Commercial Vehicle Valve	TR545D	89	66	25	60°
1-504E	TR545E Nickel-Plated Commercial Vehicle Valve	TR545E	89	66	25	75°
1-505	TR546 Nickel-Plated Commercial Vehicle Valve	TR546	108.5	-	-	-
1-505D	TR546D Nickel-Plated Commercial Vehicle Valve	TR546D	108.5	85	25	60°
1-505E	TR546E Nickel-Plated Commercial Vehicle Valve	TR546E	108.5	85	25	75°
1-506D	TR547D Nickel-Plated Commercial Vehicle Valve	TR547D	119.5	96	25	60°

The products contained in the above table use:

Grommet: **2-303S |** Hex Nut : **2-461, 2-408, 2-411 |** Valve Core: **1-1400-1 |** Cap: **2-101H or 2-115M-1 |** Valve Hole Size: Ø 9.7

Commercial Vehicle Valves

TR500 Series

Brass valves for wheels with a 15.7 mm valve hole. Use a torque of 35–53 in-lbs to install the valve.

1-604 **1-601** **1-603** **1-602**
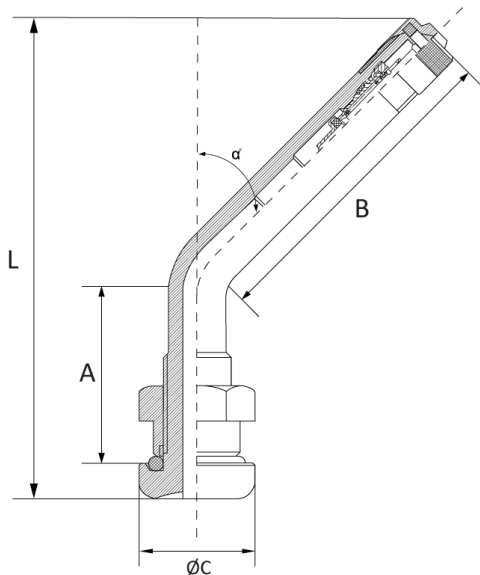
Product Number	Product Description	A (mm)	B (mm)	L (mm)	α°
1-601	V3-20-4 Drop-Center Rim Commercial Vehicle Valve	25	60	85	27°
1-602	V3-20-1 Drop-Center Rim Commercial Vehicle Valve	36	-	-	-
1-603	V3-20-5 Drop-Center Rim Commercial Vehicle Valve	25	40	65	27°
1-604	V3-20-6 Drop-Center Rim Commercial Vehicle Valve	25	85	110	27°
1-605	V3-20-7 Drop-Center Rim Commercial Vehicle Valve	25	50	75	27°

Commercial Vehicle Valves

TR500 Series

Nickel-plated brass valves with grommet for aluminum wheels with a 9.7 mm valve hole and 5.5-8.4 mm rim. Use a torque of 89–133 in-lbs to install the valve.

1-552   **1-553D**   **1-555E**
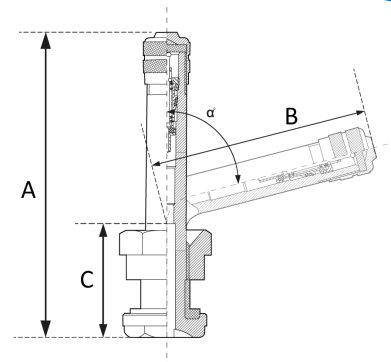
Product Number	Product Description	TR Number	A (mm)	B (mm)	C (mm)	α°
1-552	TR552 Nickel-Plated Commercial Vehicle Valve	TR552	32	-	-	-
1-553	TR553 Nickel-Plated Commercial Vehicle Valve	TR553	58.5	-	-	-
1-553C	TR553C Nickel-Plated Commercial Vehicle Valve	TR553C	58.5	35	23.6	45°
1-553D	TR553D Nickel-Plated Commercial Vehicle Valve	TR553D	58.5	35	25	60°
1-553E	TR553E Nickel-Plated Commercial Vehicle Valve	TR553E	58.5	35	25	75°
1-554	TR554 Nickel-Plated Commercial Vehicle Valve	TR554	72.5	-	-	-
1-554C	TR554C Nickel-Plated Commercial Vehicle Valve	TR554C	72.5	49	25	45°
1-554D	TR554D Nickel-Plated Commercial Vehicle Valve	TR554D	72.5	49	25	60°
1-555D	TR555D Nickel-Plated Commercial Vehicle Valve	TR555D	89	66	25	60°
1-555E	TR555E Nickel-Plated Commercial Vehicle Valve	TR555E	89	66	25	75°

Turret Valves

Designed for drop-center rims. Use a nut tightening torque of 221–274 in-lbs and replace the O-ring each time the valve is removed from the tire.

1-651-1   **1-652**   **1-653**
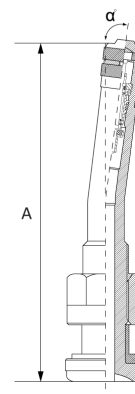
Product Number	Product Description	TR Number	α°	A (mm)
1-651-1	40MS Nickel-Plated Commercial Vehicle Valve	40ms	-	40
1-652	54MS Nickel-Plated Commercial Vehicle Valve	54ms	-	54
1-653	70MS-7 Nickel-Plated Commercial Vehicle Valve	70ms-7	7°	70

The products contained in the above and left tables use:

Grommet: **2-360F |** Hex Nut : **2-461, 2-408 |** Valve Core: **1-1400-1 |** Cap: **2-101H or 2-115M-1 |** Valve Hole Size: **Ø 9.7**

Valves Caps & Cores

SECTION 4

Valve Caps & Cores

Metal and Plastic Valve Caps.

2-101 **2-103-1** **2-103P-1** **2-104** **2-105-2**

2-105D-3 **2-106** **2-108** **2-110-2** **2-114-1** **2-118**

2-127BK **2-127BK** **2-128** **2-150**

Product Number	Product Description
2-101	Metal Cap, Nickel-Plated
2-102-1	Metal Cap, Chrome-Plated, Metal Hex Flat Top
2-103-1	Metal Cap, Nickel-Plated
2-103H	Metal Cap, Nickel-Plated
2-104	Metal Cap, Nickel-Plated
2-104A	Metal Cap, Top Fluted
2-104P	Plastic Cap, Chrome-Plated and Flat Top
2-104AP	Plastic Cap, Chrome-Plated and Top Fluted
2-106	Metal Cap, Brass Finish or Chrome-Plated
2-108	Metal Cap, Chrome-Plated, Metal Hex Flat Top
2-110-2	Metal Cap, Brass Finish
2-111-2	Metal Cap, Brass Finish
2-114-1	Metal Cap, Nickel-Plated
2-114-3	Metal Cap, Chrome-Plated
2-115M-1	Metal Cap, Nickel-Plated
2-115M-4	Metal Cap, Nickel-Plated
2-115M-5	Metal Cap, Chrome-Plated
2-116-3	Metal Cap, Chrome-Plated, Metal Hex Flat Top
2-118	Metal Cap, Chrome-Plated, H.D. Metal Dome Cap
2-119	Metal Cap, Nickel-Plated
2-123	Metal Cap, Brass Finish, Nut Style
2-124	Metal Cap, Brass Finish, Large to Standard Bore Adapter
2-168	Metal Cap, Chrome-Plated with Deflates Function

Product Number	Product Description	Color
2-102-1P	Plastic Cap, Chrome-Plated	◆
2-103P-1	Plastic Cap, Black	◆
2-103P-2	Plastic Cap, Orange	◆
2-103P-3	Plastic Cap, Yellow	◆
2-103P-4	Plastic Cap, Green	◆
2-103P-5	Plastic Cap, Blue	◆
2-105-6	Plastic Cap, Chrome-Plated	◆
2-105-6B	Plastic Cap, Black	◆
2-105-2	Plastic Cap, Blue	◆
2-105-4	Plastic Cap, Green	◆
2-105-5	Plastic Cap, Red	◆
2-105-8	Plastic Cap, Orange	◆
2-105-9	Plastic Cap, Yellow	◆
2-105-10	Plastic Cap, Grey	◆
2-105-11	Plastic Cap, Dark Green	◆
2-105D-2	Plastic Cap with Rubber Grommet, Black	◆
2-105D-3	Plastic Cap with Rubber Grommet, Green	◆
2-105D-5	Plastic Cap with Rubber Grommet, Grey	◆
2-105D-6	Plastic Cap with Rubber Grommet, Dark Green	◆
2-105D-7	Plastic Cap with Rubber Grommet, Pink	◆
2-126	Plastic Cap, Green	◆
2-126BK	Plastic Cap, Black	◆
2-127BK	Plastic Cap, Black	◆
2-127R	Plastic Cap, Red	◆
2-128	Plastic Cap, Grey	◆
2-150	Plastic Cap, Black	◆
2-157	Plastic Cap, Grey	◆
2-157BK	Plastic Cap, Black	◆
2-158	Plastic Cap, Black	◆
2-158G	Plastic Cap, Green	◆

Valve Caps & Cores

Short and Long Valve Cores.

2-706A

Product Number	Product Description
2-706A	Dual Seal Valve Cap

Product Number	Product Description	Total Length (A)	Effective Length
2-702	Metal Valve Extension Cap	27	19
2-703	Metal Valve Extension Cap	40	32
2-704	Metal Valve Extension Cap	46	38
2-705	Metal Valve Extension Cap	56	51
2-706-1	Dual Seal Valve Cap	23.2	16.7

2-702   **2-703**   **2-704**

Product Number	Product Description	Finish
1-1400-1	Short Valve Core, Red Teflon Sealing	Nickel-Plated
1-1400-2	Short Valve Core, Black Teflon Sealing	Nickel-Plated
1-1400-4	Short Valve Core, Red Teflon Sealing	Brass Finish
1-1400-6	Short Valve Core, Blue Teflon Sealing	Nickel-Plated
1-1400K	Short Valve Core, Red Teflon Sealing	Chemical Plated Nickel
1-1400-1Y	Short Valve Core, Yellow Teflon Sealing	Chemical Plated Nickel

1-1400-1
1-1400-2
1-1400-4
1-1400-6

Product Number	Product Description	Finish
1-1401	Long Valve Core, Red Teflon Sealing	Nickel-Plated
1-1401-2	Long Valve Core, Black Teflon Sealing	Nickel-Plated

1-1401
1-1403-1

Product Number	Product Description	Finish
1-1403	Red Teflon Sealing For Large Bore Application	Nickel-Plated
1-1403-2	Black Teflon Sealing For Large Bore Application	Nickel-Plated

1-1403
1-1403-2

Product Number	Product Description	Finish
1-1404	Long Valve Core, Red Teflon Sealing For Large Bore Application	Nickel-Plated
1-1404-2	Long Valve Core, Black Teflon Sealing For Large Bore Application	Nickel-Plated

1-1404
1-1404-2

Product Number	Product Description	Finish
1-1407	Long Valve Core, Red Teflon Sealing, High Temperature Resistant	Nickel-Plated

1-1407

Tire Repair Tools & Accessories

SECTION 5
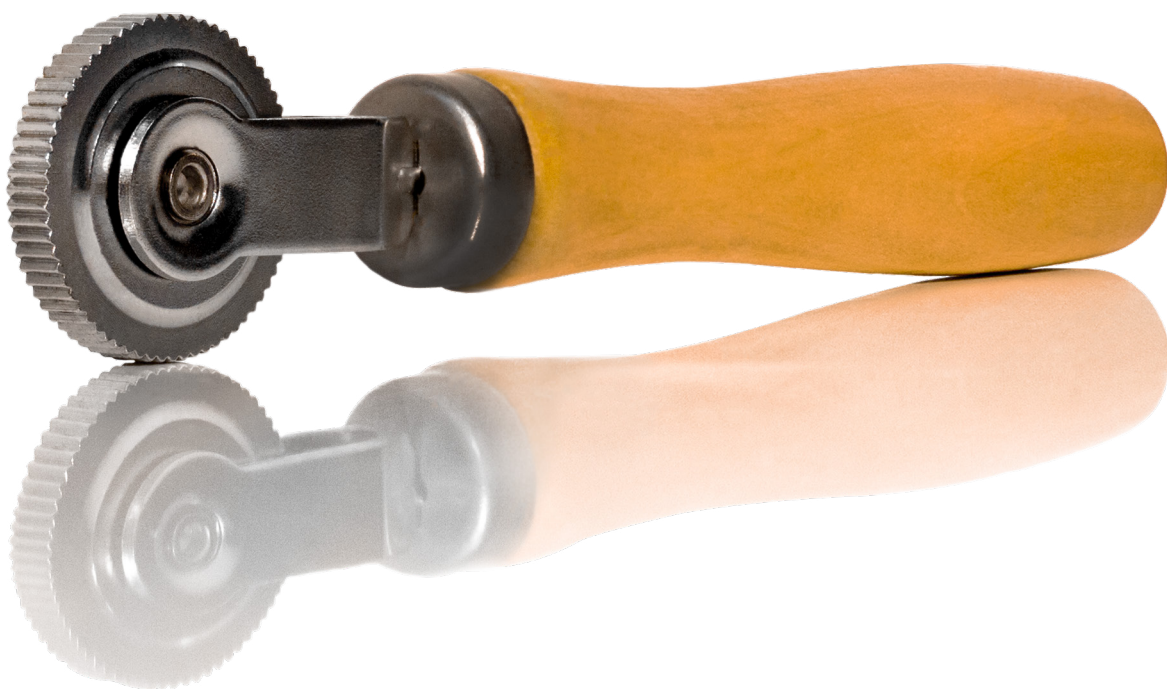
Tire Repair Tools & Accessories

3-161

4-110

Product Number	Product Description
3-161	Manual Tire Spreader
4-110	Power-Awl
4-129-1	Probing Awl with Indication Rings
5-301	Tire Mounting Protector
5-196	Chrome Nut Cover Pliers
5-200	Rubber Hammer

4-129-1

5-196

5-200

5-301

Product Number	Product Description
3-121A	Wheel Weight Pliers Heavy-Duty
3-121B	Wheel Weight Pliers Black
3-121	Wheel Weight Pliers
3-122	No-Mark Wheel Weight Pliers for Aluminum Rims

3-121A

3-121B

3-121

3-122

Tire Repair Tools & Accessories
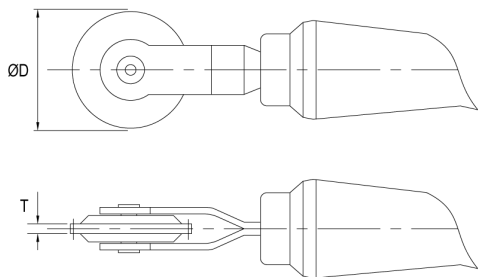
3-102 **3-102-7** **3-102-1**
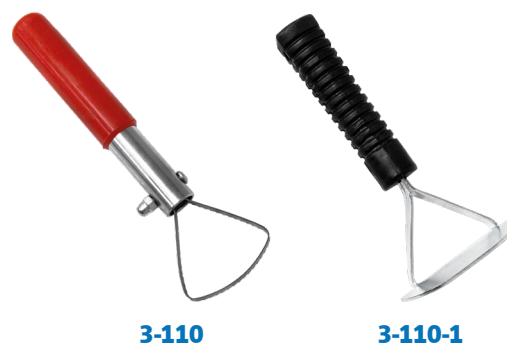
3-110 **3-110-1**

Product Number	Product Description	Diameter (mm)	Thickness (mm)
3-102	Wood Handled Stitcher	38	1.6
3-102-7	Wood Handled Stitcher	51	4
3-102-1	Plastic Handled Stitcher	38	3

Product Number	Product Description
3-110	Blade Style Inner Liner Scraper
3-110-1	Hoe Style Inner Liner Scraper

3-154C **3-154A** **3-154B**

Product Number	Product Description
3-154A	Flexible Skiving Knife
3-154B	Rigid, Tapered Skiving Knife
3-154C	Curved Skiving Knife

Needles & Probes

SECTION 6

Needles & Probes

Product Number	Description	Needles (Probes & Rasps)
N01	Spiral Probe	
N02	Spiral Probe	
N03	Rasp	
N04	Rasp	
N05	Split-Eye Needle	
N06	Closed-Eye Needle	
N07	Open-Eye Needle	

4-201N01

Pistol-Grip
(Spiral Probe N01)

4-202N02

Pistol-Grip
(Spiral Probe N02)

4-203N03

Pistol-Grip
(Rasp N03)

4-204N04

Pistol-Grip
(Rasp N04)

4-205N05

T Handle
(Split-Eye Needle N05)

4-206N06

T Handle
(Closed-Eye Needle N06)

Needles & Probes

4-207N07

Straight Handle
(Open-Eye Needle N07)

4-208N01

Straight Handle
(Spiral Probe N01)

4-209N01

Zinc-Alloy Handle
(Spiral Probe N01)

4-210N01

Metal Handle
(Spiral Pv N01)
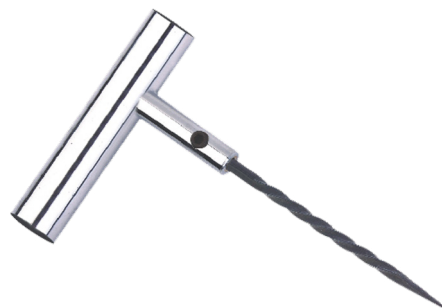
4-211N01

Metal Handle
(Spiral Probe N01)

Mix and Match

Select a handle, then combine it with a needle to make a tire repair tool of your choice. For example:
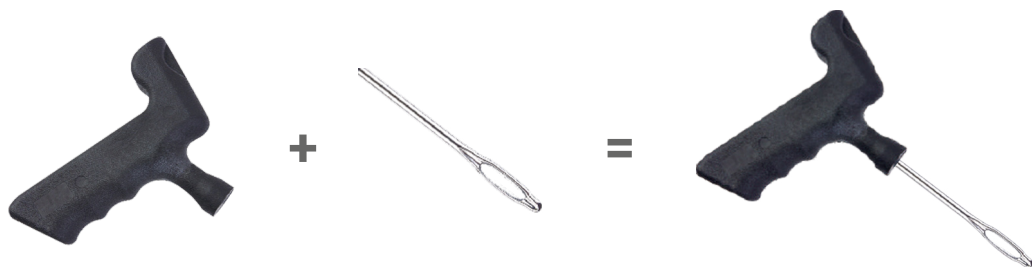
4-202   **N06**   **4-202N06**
(Pistol-Grip Closed-Eye Needle)

Needles & Probes

4-209A

4-200A

4-200A-1

4-200A-2

4-200B

Product Number	Handle (Optional)	Needle (Optional)
4-200A Zinc Alloy T-Handle Tool Kit	**4-209**	
	4-209-1	
	4-209A	
4-200A-1 Zinc Alloy (Black) T-Handle Tool Kit	**4-209**	
	4-209-1	
	4-209A	
4-200A-2 Zinc Alloy (Chrome Finished) T-Handle Tool Kit	**4-209**	
	4-209-1	
	4-209A	
4-200B Metal T-Handle Tool Kit	**4-210**	
	4-210	

Needles & Probes

4-200C

4-200D

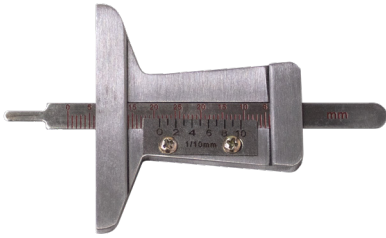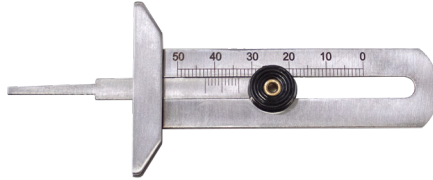| Product Number	Product Description	Quantity
4-200C	Plastic Handle	1
	Needles	4
4-200D	Metal Handle	1
	Needles	4

Gauges

SECTION 7

Tread Depth Gauges

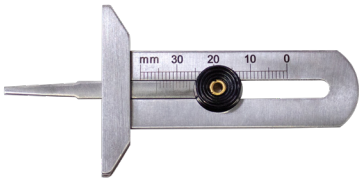HT-1420

HT-1420-1
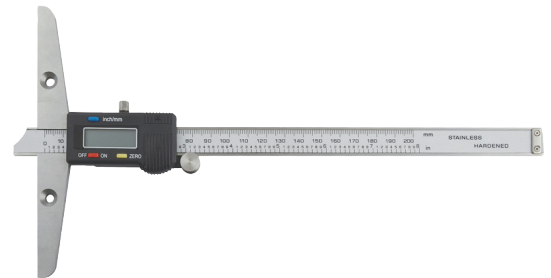
HT-1420-2

HT-1420-3

HT-1450

HT-1460

HT-190

HT-190C

HT-190L

Product Number	Product Description	Measure Unit	Measure Range
HT-1411	Dial Gauge	0.1 mm	0-11 mm
HT-1420	Stainless Truck Tread Depth Gauge	0.1 mm | 1/10 in	0- 50 mm | 2 in
HT-1420-3	Stainless Truck Tread Depth Gauge, Small Base	1 mm	0-30 mm
HT-1420-2	Stainless Truck Tread Depth Gauge, Large Base	1 mm	0-50 mm
HT-1420-1	Stainless Truck Tread Depth Gauge, Small Base	1 mm	0-50 mm
HT-1460	Digital Tread Depth Gauge, Metal Bar Tip, Large Base	1 mm | 1/10 in	0-200 mm | 0-8 in
HT-190	Tread Depth Gauge	1 mm | 1/32 in	0-23 mm | 1 in
HT-190C	Color Coded Tread Depth Gauge	1 mm | 1/32 in	0-23 mm | 1 in
HT-190L	Color Coded Tread Depth Gauge	1/32 in	1 in
HT-1450	Digital Tread Depth Gauge, Plastic Bar Tip	0.01 mm	0-25.4 mm

HT-1411

Pressure Gauges
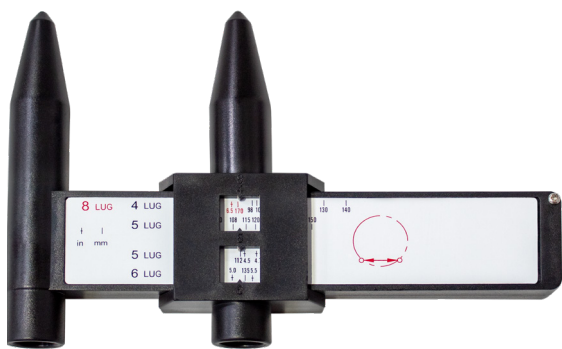
HT-1440

Product Number	Product Description
HT-1440	P.C.D Gauge

HT-4109

HT-4221

HT-4101

HT-4109

HT-4224

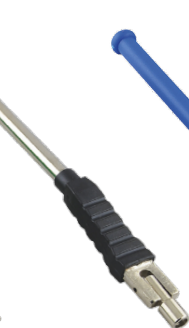| Product Number	Product Description	Color
HT-4101	0-100psi, 0-6.90Bar, 0-690kPa Digital gauge	◆
HT-4109	0-100psi, 0-6.90Bar, 0-690kPa Digital gauge	◆
HT-4221	0-100psi, 0-6.90Bar, 0-690kPa Digital gauge	◆
HT-4224	0-100psi, 0-6.90Bar, 0-690kPa Digital gauge	◆
HT-4224B	0-100psi, 0-6.90Bar, 0-690kPa Digital gauge	◆
HT-4224BK	0-100psi, 0-6.90Bar, 0-690kPa Digital gauge	◆
HT-4226	3-150psi, 0.20-10.3Bar Digital gauge	

Valve Installation, Fishing & Repair Tools

SECTION 8

Valve Installation Tools

Product Number	Product Description
3-114	Valve Installation Tool, Clamp-On Tool
3-115	Pull-a-Stem Valve Installation Tool
3-101	Chrome Coated Valve Installation Tool, Screw-On Type
3-101-1	Valve Installation Tool with Plastic Cover, Screw-On Type
3-101-2	Chrome Coated Valve Installation Tool, Screw-On Type
3-101-3	Plastic Handle Valve Installation Tool, Screw-On Type
3-101-3A	Plastic Handle 2 Way Valve Installation Tool
3-101-4	Valve Installation Tool, Screw-On Type
3-101-5	Chrome Coated Valve Installation Tool, Screw-On Type
3-101-6	Chrome Coated Valve Installation Tool, Screw-On Type
3-107	Valve Core Remover Tool, Double End
3-150T	Valve Core Torque Tool
3-312	TPMS Torque Tool Kit and Carry Case
3-313	TPMS Torque Tool Kit and Carry Case

3-114

3-115

3-101-5   **3-101**   **3-101-4**   **3-101-1**   **3-101-3A**   **3-101-3**   **3-101-6**

3-313

3-312

3-107

3-150

Valve Fishing & Repair Tools

3-112

3-113

3-133

3-138

Product Number	Length (in)	Product Description
3-112	8	Chain-Type Valve Fishing Tool
3-113	8	Cable-Type Valve Fishing Tool
3-133	25	Long-Chain Valve Fishing Tool
3-138	8	Valve Fishing Tool

3-108

3-108-1

3-108-2

3-109

Product Number	Product Description
3-108	4-Way Valve Tool
3-108-1	4-Way Valve Tool Black Hardened
3-108-2	4-Way Valve Tool
3-109	4-Way Valve Tool
3-111	2-Way Valve Tool
5-121	4-Way Valve Tool
5-159	4-Way Valve Tool Black Hardened

3-111

5-121

5-159

Best
Practice

SECTION 9

Best Practice

Rubber valves are often stored for prolonged periods. Most rubbers change in physical properties during storage and ultimately become unserviceable, for example, due to excessive hardening, softening, cracking or other surface degradation. These changes may be the result of a set of factors or combination of factors, such as the action of deformation, oxygen, ozone, light, heat, humidity, or oils and solvents.

With a few simple precautions, the shelf life of these products can be considerably lengthened.

Fundamental instructions on storage, cleaning, and maintenance of rubber valve elements are described in **SAE ARP 5316D**.

The **SAE ARP 5316D** standard provides several recommendations for the storage and shelf life of rubber products.

The following recommendations are based on **SAE ARP 5316D** and are intended to provide the most suitable conditions for storage of rubber valves. They should be observed to maintain the optimum physical and chemical values of the parts:

Heat

The storage temperature should preferably be kept below 100° F, with an optimum range between 59° F and 77° F. Short-term exposure down to 32°F or up to 104°F is acceptable, but direct contact with sources of heat such as boilers, radiators, and direct sunlight should be avoided.

If articles are taken from low temperature storage, care should be taken to avoid distorting them during handling as they may have stiffened. In this case the temperature of the articles should be raised gradually to approximately 68°F before they are put into service.

Humidity

The relative humidity in the storage area should be maintained below 65%. Excessively moist or excessively dry conditions should be avoided, and condensation must not be allowed to form.

Light

Elastomeric materials such as rubber valves should be protected from light, particularly direct sunlight and strong artificial light with a high ultraviolet content. Storage in opaque, UV-resistant containers or bags provides the best protection. If windows are present in the storage area, they should be covered with suitable filters or coatings to prevent UV exposure.

Radiation

Stored articles should be protected from all sources of ionizing radiation, as exposure can cause degradation and reduce serviceability of the components.

Oxygen and Ozone

Where possible, elastomeric materials should be protected from circulating air by packaging, sealing in airtight containers, or by other suitable means.

Because ozone is particularly harmful to rubber materials, storage rooms should not contain equipment capable of generating ozone, such as mercury vapor lamps, high-voltage electrical devices, electric motors, or other equipment that may create sparks or silent electrical discharges. Combustion gases and organic vapors should also be excluded, as they can contribute to ozone formation through photochemical reactions.

Best Practice

Deformation

Rubber valves should be stored in a relaxed
state, free from tension, compression, or any other form of
deformation. Whenever possible, articles should remain in their original
packaging, provided they were packed without strain.

Contact with Liquid and Semi-Solid Materials

Rubber should not be exposed to solvents, oils, greases, fuels, or any other liquid or semi-solid materials during storage, unless such contact is part of the manufacturer's original packaging.

Contact with Metal and Non-Metals

Elastomeric materials should not be stored in direct contact with certain metals, including manganese, iron, and especially copper and its alloys (such as brass), as well as their compounds, since these can have harmful effects on rubber.

Additionally, rubber products must not be stored in contact with PVC due to the potential transfer of plasticizers or other ingredients. Where possible, different types of rubber should be stored separately to prevent cross-contamination.
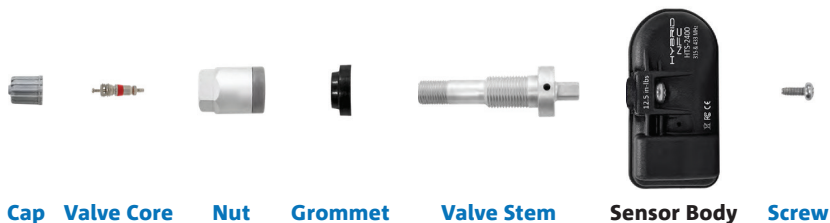
Shelf Life and Shelf Life Control

The useful life of a rubber valve depends largely on the storage conditions in which it is kept. Under recommended conditions, the shelf life of a Hamaton-produced rubber valve is 36 months. All rubber products should be inspected regularly during this period to ensure they remain in suitable condition for use.

General Practices

Part Replacement

The components that require replacing when servicing a tire are highlighted in blue:

Clamp-In Valve

Cap   Valve Core   Nut   Grommet   Valve Stem   Sensor Body   Screw

Snap-In Valve

Cap   Valve Core   Snap-In Valve   Sensor Body   Screw
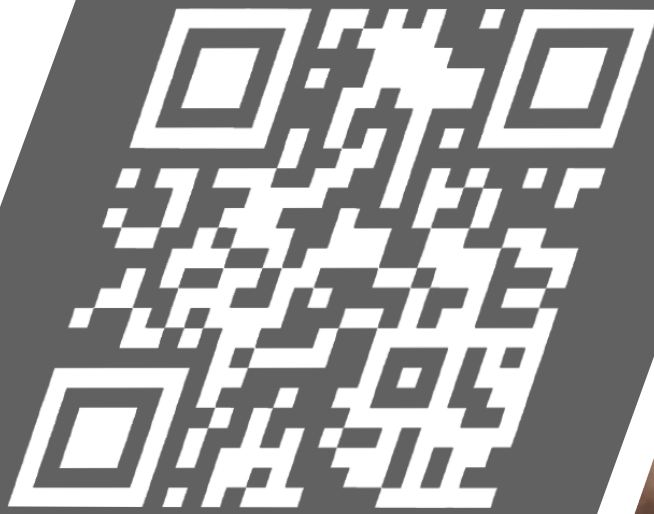
Notes Page

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