



PRODUCT OVERVIEW CATALOGUE

PASSENGER CARS AND LIGHT-DUTY COMMERCIAL VEHICLES



TABLE OF CONTENTS

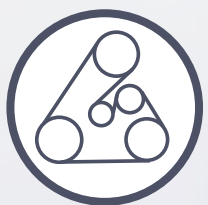


BELT DRIVE SYSTEMS



Synchronous belt drive systems

PowerGrip® timing belts	p. 8
PowerGrip® Kits	p. 9
PowerGrip® Kits Plus	p. 9



Accessory belt drive systems

Micro-V® XF multi-ribbed belts	p. 10
Stretch Fit™ multi-ribbed belts	p. 11
DriveAlign® tensioners	p. 11
Micro-V® XF Kits	p. 12
V-belts	p. 12
EuroGrip® flexible coupling	p. 13

COOLING SYSTEMS

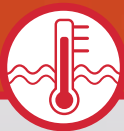


Thermostats	p. 16
Radiator caps	p. 17
Curved hose	p. 17
Vulco-Flex® II radiator hose	p. 18
Flexcord Plus coolant hose	p. 18
Heater hose	p. 19
Heater hose connectors	p. 20
Unicoil™, hose bending solution	p. 22

FUEL SYSTEMS



Fuel line hose	p. 24
Flexible fuel fill hose	p. 27
Small ID connectors	p. 28
Fuel injection clamps	p. 30
Fuel caps	p. 31



AIR AND DEFROSTER SYSTEMS

Air duct hose	p. 34
Defroster hose	p. 35



SERVICE HOSE AND OTHERS

Station Master 15	p. 38
Signal call hose	p. 38
Adapta Flex™	p. 39
Windscreen washer and vacuum tubing	p. 39
GP hose ("General Purpose")	p. 40
Static straps	p. 41



TOOLS

Sonic belt tension tester STT-1	p. 44
Krikit belt tension gauges	p. 44
DriveAlign® laser alignment tool	p. 45
V- and Micro-V® XF belt length finder	p. 46
Dr. Gates professional tool kit	p. 46
Universal and engine-specific tool kits	p. 47
Hose diameter finder	p. 47
Hose cutter	p. 48
Flexi Driver for clamps	p. 48



CATALOGUING	p. 49
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Install confidence with Gates

Full-line product coverage, OE-equivalent products, reduced inventories and prompt service are the keys to success in today's aftermarket business.

Gates offers you all that and, in addition, provides you

with premium support: technical training, expert advice, up-to-date application information and practical product merchandisers.

Best coverage in the industry

Gates is a world-leading manufacturer of automotive products. In fact, our line of OE-equivalent timing belts and multi-ribbed belts is the most complete of any automotive manufacturer. And did you know that Gates is the second largest OE manufacturer for automatic tensioners?

We offer more replacement part numbers than our competitors, both for left-hand drive and right-hand drive applications. Gates' aim to offer complete product ranges results in a continuous expansion of its product lines. As an example, thanks to the recent expansion, the complete Gates thermostat range currently ensures coverage of 94% of the European



car park, the largest coverage available in the market today. And Gates has also become the most important kit supplier in the European aftermarket.

Feel the beat of innovation

Dynamic, energetic innovation comes from working in direct partnership with automotive OEMs, helping them be top innovators. This keeps us out in front, developing and anticipating what the aftermarket will

demand. A good example: Gates has launched its new multi-ribbed belt programme Micro-V® XF, offering the aftermarket access to the latest OE-technologies.

Complete systems supplier

Gates is more than just your engine belts and coolant hose supplier. Gates designs and manufactures a complete line of belt drive system, cooling system, fuel system and air system products. So next to belts and hoses, it is also belt tensioners, kits, thermostats, radiator caps and fuel caps for passenger cars and light-duty commercial vehicles. In addition, Gates also

offers high-tech tools for belt installation: the sonic belt tension tester STT-1, the DriveAlign® laser alignment tool and a new line of universal and engine-specific tool kits.



World-class quality

Specialisation, research and quality control are the basis of Gates' success. Gates keeps investing in quality, research and development in order to meet customers' existing and future requirements. As recognition for its commitment to innovation and quality, Gates has acquired – in addition to the

ISO 9001 and TS 16949 quality registrations – "Preferred Supplier" status and major quality awards from its key customers. Thanks to this quality programme, Gates has the potential to remain at the leading edge of innovation in the 21st century.

In-depth technical training



Gates has created a new Pan-European team responsible for Technical Support and Training. The brief is to develop training initiatives

and technical service concepts that will support product development and sales. One of the objectives is to increase awareness about the benefits of thorough drive system inspections and complete system overhauls as part of every scheduled accessory or synchronous belt change.



First-class marketing communications support

Gates offers superior cataloguing and a broad selection of multilingual advertising and sales support materials to facilitate selling. The introduction of the new Micro-V® XF belt programme, for example, has been supported by a broad spectrum of documents that make the identification of the right product easy: a commercial leaflet, a brochure with maintenance tips, a trade advertising campaign, a troubleshooting

poster with technical booklet, an updated belt drive systems catalogue, a serpentine belt routing catalogue, a numerical listing, a conversion list with the old and new references and cross-reference listings. And now Gates has released an online multilingual application catalogue at www.gatesautocat.com, to make product search even easier and to provide you with the most accurate and up-to-date information.



BELT DRIVE SYSTEMS



Gates designed and produced the industry's first V-belt and today is the world's largest manufacturer of V-belts, multi-ribbed belts and timing belts. In addition, Gates is a key player in the European tensioner business for the OE and replacement market. Each belt drive system product is the result of thorough research and testing, and all products are manufactured to the same exacting standards as the original components.

Whatever your power transmission requirements, Gates has the product to meet your needs. All belts are manufactured to state-of-the-art manufacturing processes using only high grade materials to assure long service life. Precision-made tensioners and idlers complement the Gates range. They meet or exceed car manufacturers' performance requirements. Gates also offers complete kits, including belts and metal components, especially designed for a complete overhaul.

Synchronous belt drive systems

Accessory belt drive systems

More information on applications, sizes, kit components and belt routing diagrams can be found in Gates' Drive Systems Catalogue E/70107.



Synchronous belt drive systems

1. PowerGrip® timing belts

(Product types 8595 and 8597)

More than 100 million cars in Europe are equipped with a timing belt. With today's technically advanced engine designs, it's more important than ever that our customers can rely on us for high-quality timing belts with maximum durability. So Gates offers the automotive aftermarket an OE equivalent PowerGrip® timing belt for virtually every car on the road.

- Manufactured with durable and reinforced rubber compounds (HSN) to resist temperature extremes and to protect the belt against grease, oil drops, moisture and wear;
- Precision-formed teeth provide positive engagement with the mating grooves on the sprocket and reduce noise level;
- Trapezoidal, curvilinear and modified curvilinear tooth profile, depending on the application;
- Helically wound tensile cords, made of fibreglass, provide increased flexibility and resistance to elongation;
- State-of-the-art jacket materials to protect the belt against the impact of the metal sprockets and to reduce noise generation;
- Individually packed in sealed cardboard boxes, including a mileage sticker, showing belt applications, drive layout, timing marks and installation tips.



2. PowerGrip® timing belt merchandiser

This handy and compact merchandiser has been specially designed to carry 15 timing belts. Out of the Gates timing belt range 15 belts can be selected to suit local market requirements. With this merchandiser, you will always have replacement belts readily available to ensure fast and perfect service.

- 500 mm wide metal frame with Gates sign;
- Belt number strip;
- Can be mounted on a wall, pegboard or simply put on the counter;
- Screws, plugs and hooks for attachment;
- Assembly instructions.



Please refer to the Gates price list for specifics, or consult your Gates representative for more information.



3. PowerGrip® Kits (Product type 7883)

A badly functioning timing belt drive system can cause serious problems, so a safe drive system that operates perfectly is no luxury. It is highly probable that the source of damage to one element in the drive will also have affected the other components of the system. The best way to guarantee a perfect and safe performance is to change timing belts, idlers and tensioners at the same time. Gates' range of PowerGrip® Kits offers the perfect solution.

A PowerGrip® Kit is handily packed in a sturdy cardboard box and contains, depending on the application:

- Timing belt(s);
- Belt tensioner(s) or tensioner assemblies;



- Idlers;
- Other parts needed for a complete overhaul (bolts, springs, etc.);
- (Specific) installation instructions;
- Mileage sticker.

4. PowerGrip® Kits Plus (Product type 7883)

Gates also offers special kits, called PowerGrip® Kit Plus, which contain either extra oil seals and O-rings or the water pump. With PowerGrip® Kit Plus, all critical elements of the timing belt drive are available for replacement. All components are manufactured by OE suppliers, to ensure premium quality for all elements in the kit. They come in a practical carton, fit for the application.

A PowerGrip® Kit Plus offers:

- The same elements as a PowerGrip® Kit;

PLUS:

- O-rings and oil seals or;
- The application-specific OE quality water pump with its O-ring where applicable.





Accessory belt drive systems

1. Micro-V® XF multi-ribbed belts (Product type 8653)

More vehicle accessories are being powered by multi-ribbed belts than ever before. In fact, 90 percent of all cars today rely on multi-ribbed belts. Some accessories are critical to vehicle function and operation, like power steering, alternator and air conditioning. Functions like this demand advanced products. Gates Micro-V® XF multi-ribbed belts provide a superior product for all applications and offer a perfect fit and increased lifetime.

- Made in the same high-tech materials as the OE belts;
- Back fabric provides high resistance to wear;
- Polyester tensile cords offer optimum load-carrying capacity and low stretch at higher tensions;
- Fibre-reinforced EPDM compound guarantees optimum resistance to high/low temperature, wear, pilling, oil drops and ozone, and improved coefficient of friction;
- Low belt profile ensures excellent flexibility, increased belt stability and reduced belt slip;
- Optimum resistance to vibrations and noise;
- Designed to meet or exceed original equipment requirements;
- Perfectly fit every car in the market;
- Size-based numbering system;
- Largest applications coverage in the aftermarket.



2. Micro-V® XF multi-ribbed belt merchandiser

This compact wall rack has been designed to display 19 Micro-V® XF belts in a professional way. Out of the Gates multi-ribbed belt range 19 belts can be selected to suit local market requirements.

- 500 mm wide metal frame with Gates sign and belt hooks;
- Belt number strip;
- 2 screws and 2 plugs for attachment to the wall and 2 special hooks fitting any type of pegboard;
- Assembly instructions.



Please refer to the Gates price list for specifics, or consult your Gates representative for more information.



3. Stretch Fit™ multi-ribbed belts

(Product type 8653)

A Stretch Fit™ belt is pretensioned over the pulleys, thus maintaining tension that is sufficient for efficient power transmission over a long period of time, yet low enough to allow for easy installation and to prevent component failure. A Stretch Fit™ belt drive eliminates the need for a tensioning device.



4. DriveAlign® tensioners

(Product types 7803 and 7808)

Gates is a world-leading OE manufacturer for automatic tensioners. Gates DriveAlign® tensioners offer precise OE fit for most applications. In fact, Gates engineers analyse the failure modes of OE designs and make any necessary adjustments to improve performance.



- Unique sealing – Prevents contamination of internal parts;
- Special damping mechanism – Designed to increase belt and tensioner life;
- Round wire spring – Chrome-silicon torsion spring for less flex fatigue;
- Solid pulleys – Reduce surface wear;
- Precision bearings – Premium bearings minimise friction for reduced bearing wear and noise.



5. Micro-V® XF Kits (Product type 7884)

With the new Micro-V® XF multi-ribbed belt kit, Gates offers the aftermarket all components for a complete overhaul of the accessory drive in one box. No need to order loose parts any more: the metal components and multi-ribbed belts come in one package, fit for the application. Time-saving and convenience in just one kit!

Gates Micro-V® XF Kits include:

- Micro-V® XF multi-ribbed belt(s);
- Belt tensioner(s) or tensioner assemblies;
- Idlers;
- Mileage sticker;



All components are handily packed in one solid cardboard box, which clearly indicates the contents of the kit.

6. Bandless moulded cog V-belts (Product type 8532)

Technologically advanced and highly flexible V-belt, designed for drives in passenger cars and light-duty vehicles.

- Round cogs ensure maximum heat dissipation and uniform stress distribution;
- High-strength tensile cords, flex-bonded with the surrounding rubber, assuring excellent length stability;
- Specially formulated rubber compounds to increase lateral belt stability;



- Oil, wear and heat resistant;
- Ground sidewalls improve dimensional accuracy.



7. V-belt merchandiser

Handy, compact wall rack displaying belts in a systematic and professional way. The V-belt merchandiser can carry 25 V-belts and is the ideal instrument for every garage keeper or dealer: it facilitates storage, selling and reordering of V-belts.

- 500 mm wide metal frame with Gates sign and belt hooks;
- Belt number strip;
- 2 screws and 2 plugs for attachment to the wall and 2 special hooks fitting any type of pegboard;
- Assembly instructions.

Please refer to the Gates price list for specifics, or consult your Gates representative for more information.



8. EuroGrip® flexible coupling

Based on years of experience of under-bonnet materials, a rubber sleeve is designed to transmit torque to drive engine accessories, such as the alternator, power steering pump or air conditioning compressor, and to damp vibrations between two connected shafts. EuroGrip® flexible couplings are especially recommended for applications where these two shafts are subject to misalignment and axial movement, and they relieve the stress that would result from a rigid coupling.



- State-of-the-art power transmission design;
- Based on proven material technology for automotive synchronous belts;
- Lubricated jacket minimises coupling and end piece wear;
- Glass fibre cord provides excellent dimensional stability at high rotational speeds;
- Fibre-loaded HNBR maximises torque transmission capability, controls damping characteristics and provides excellent long-term ageing resistance;
- Tooth design allows easy assembly with zero backlash;
- System is light weight and low inertia.



COOLING SYSTEMS

Gates customers appreciate our extensive coolant hose line. These hoses offer the most comprehensive coverage in the industry. Gates also supplies the necessary heater hose connectors. A complete range of thermostats, supplied with gaskets and seals, as well as an extensive line of radiator and expansion tank caps, conclude Gates' range of cooling system components. Gates recently launched the new Unicoil™ hose bending solution, the perfect product for quick and customised repairs when the correct shaped rubber hose is not available.

More information on applications, sizes, configurations and cut-off recommendations can be found in Gates' Cooling Systems Catalogue E/70372.



Cooling systems

1. Thermostats

(Product type 7412)

The thermostat is the "watchdog" of a car's cooling system. It constantly monitors the temperature of the coolant and regulates coolant flow through the radiator. It operates many times each day during driving. A good thermostat speeds engine warm-up and regulates the engine's operating temperature, which results in good fuel economy, lower emissions, better engine performance and longer engine life. Gates premium quality thermostats provide a precise fit and prevent leakage. Their temperature sensitive heat motor allows precise engine cooling, in order to guarantee optimum engine performance. That is why an engine should never be operated without a Gates thermostat in place.

Gates markets several types of thermostats in order to provide the same design as specified by car manufacturers. The reverse poppet thermostat opens against the flow of coolant from the water pump. The coolant, under water pump pressure, is used to help the reverse poppet thermostat stay closed when cool to reduce leakage. Gates reverse poppet thermostats are engineered with a self-cleaning, self-aligning stainless steel valve.

Gates offset thermostats with jiggle pin valves are equipped with a special valve in the flange, which allows trapped air in the system to escape and permits the venting of air from the system when filling it with coolant. Gates also provides rubber seal thermostats, bypass thermostats etc., all with the same high quality.



- Self-cleaning and self-aligning thermostat valve;
- Original equipment design provides exact fit and performance;
- Precise sealing edges reduce leakage and premature cooling;
- Temperature sensitive heat motor provides consistent valve response for smooth performance and precise engine cooling;
- Stainless steel assembly and springs are engineered for long life.



2. Radiator and expansion tank caps

(Product type 7410)

Gates offers a complete line of automotive radiator and expansion tank caps, for use on virtually every application on the road today. Gates' cooling system cap range includes:

- Metal radiator caps, from the very smallest to the large-diameter type
- Long reach (34 mm) and short reach (25 mm) radiator caps
- Plastic expansion tank caps

- Designed and manufactured to OE standards;
- Require no adjustment for installation;
- High-quality materials for longer life;
- Precise pressure control.



Never remove a radiator cap when the cap or radiator is hot to the touch.

3. Curved hose

(Product type 4275)

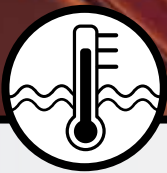
Factory moulded hose for upper, lower, bypass, heater and other coolant applications. Gates' curved hose line is the most comprehensive line on the European replacement market.

Thanks to consolidation - one hose size handling more than one application - inventories can be kept down. To increase the number of applications even further, cut-off marks are printed on some curved hoses.

- Pre-shaped to fit and to ensure perfectly sealed connections;
- Resistant to heat, ozone and chemical coolants;
- Temperature range from -40°C to $+100^{\circ}\text{C}$, occasionally $+110^{\circ}\text{C}$;
- Maximum working pressure for hoses with ID smaller than or equal to 40 mm is 0.4 MPa; for hoses with ID greater than 40 mm 0.3 MPa;



- Aramid or rayon knit reinforcement (depending on the application);
- Meets requirements of SAE 20R4, class D2 and DIN 73411, class A (except for tolerances).



4. Vulco-Flex® II radiator hose (Product type 4274)

This flexible radiator hose takes various shapes and is a durable alternative to curved hose that is reinforced with helical wire to prevent the hose from collapsing when bent. This hose allows maximum coverage with minimum inventory.

- High flexibility for easier installation;
- The hose vulcanises into shape without unnecessary strain on connections;
- Temperature range from -40°C to +110°C, occasionally +125°C;
- Improved sealing surface for greater leak resistance;
- Cuffs can be adjusted to the required length;



- Tube and cover resist heat, ozone and coolants.
- Maximum working pressure:
 - hoses with ID from 25 to 38 mm: 0.21 MPa
 - hoses with ID from 38/45 to 50 mm: 0.18 MPa
 - hoses with ID from 50/57 to 76 mm: 0.14 MPa


5. Flexcord Plus coolant hose (Product type 4272)

Lightweight straight coolant hose, designed to withstand today's severe conditions under the bonnet.

- High temperature and burst resistance;
- Very flexible hose with a strong body to absorb vibrations and shocks;
- Aramid knit reinforcement;
- Tube and cover resist heat, ozone and coolant additives;
- Temperature range from -40°C to +135°C;
- Meets requirements of DIN 73411, class B1 and SAE 20R4, class D2.

Available in 1 m lengths, which can be cut to size with Gates hose cutter (see page 48).



PN			Max. working pressure
	mm	"	
4272-10080	8	5/16	0.4
4272-10100	10	3/8	0.4
4272-10120	12	1/2	0.4
4272-10150	15	5/8	0.4
4272-10180	18	11/16	0.4
4272-10200	20	13/16	0.3
4272-10220	22	7/8	0.3
4272-10250	25	1	0.3
4272-10280	28	1-1/8	0.3
4272-10300	30	1-3/16	0.3
4272-10320	32	1-1/4	0.3
4272-10350	35	1-3/8	0.3
4272-10380	38	1-1/2	0.3
4272-10400	40	1-9/16	0.2
4272-10420	42	1-5/8	0.2
4272-10450	45	1-3/4	0.2
4272-10480	48	1-7/8	0.2
4272-10500	50	2	0.2



6. Straight heater hose (Product type 3230)

Extremely durable heater hose for straight and curved connections. The resilient reinforcement allows the hose to fit a pipe that is 4 mm larger than the nominal inside diameter of the hose.


- Strong and flexible body allows bending to medium bend radius;
- Resilient textile reinforcement withstands internal pressure and allows installation on enlarged end connections;
- Tube and cover resist ozone, coolants and temperatures from -50°C to +100°C, occasionally +110°C;



- Meets requirements of DIN 73411, class A (except for tolerances).

Packaging: 15 m length per carton with knock-out lid for easy unreeling, measuring and storage.



PN			Max. working pressure
	mm	"	
3230-12080	8	5/16	0.5
3230-12100	10	3/8	0.5
3230-12120	12	1/2	0.5
3230-12150	15	5/8	0.5
3230-12170	17	11/16	0.5
3230-12190	19	3/4	0.5
3230-12220	22	7/8	0.4



7. Heater hose connectors

(Product type 7315)

Gates heater hose connectors are recommended for small diameter heater and radiator hoses to provide a better seal between hoses with either the same or different inside diameters. Using straight, reducer, elbow and "T" connectors, almost any hose configuration can be constructed.

- Made of 100% glass-reinforced nylon;
- Anti-rotation device prevents the hose from twisting off the fitting;
- Single-barb design ensures a leak-proof seal;
- Superior resistance to extreme temperatures from -65°C to +250°C and coolant additives, petrol, diesel, oil and LPG;


- Maximum working pressure up to 2 MPa (20 kg/cm²).



Packaging:

Outside diameter up to 19 mm: 5 pieces in a plastic bag.

Outside diameter of 25 mm: 2 pieces in a plastic bag.



HOSE CONNECTORS			
PN			
straight			
7315-00913*	28601	6	1/4
7315-00103	28600	8	5/16
7315-00914*	28602	10	3/8
7315-00915*	28603	12	1/2
7315-00916*	28604	15	5/8
7315-00917*	28605	19	3/4
7315-00918	28606	25	1
elbow			
7315-00908*	28621	6	1/4
7315-00102	28620	8	5/16
7315-00909*	28622	10	3/8
7315-00910*	28623	12	1/2
7315-00911*	28624	15	5/8
7315-00912*	28625	19	3/4
7315-00919	28626	25	1
"T"			
7315-00931*	28631	6	1/4
7315-00101	28630	8	5/16
7315-00932*	28632	10	3/8
7315-00933*	28633	12	1/2
7315-00934*	28634	15	5/8
7315-00935*	28635	19	3/4
7315-00936	28636	15 x 10	5/8 x 3/8
7315-00937	28637	19 x 10	3/4 x 3/8
7315-00938	28638	25	1

REDUCER CONNECTORS			
PN			
7315-00104	28594	8 → 10	5/16 → 3/8
7315-00921*	28609	10 → 12	3/8 → 1/2
7315-00922*	28610	12 → 15	1/2 → 5/8
7315-00923*	28611	15 → 19	5/8 → 3/4
7315-00924	28612	19 → 25	3/4 → 1

* Included in heater hose connector kit (p. 21).




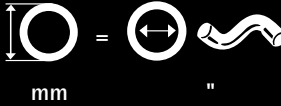
8. Heater hose connector kit

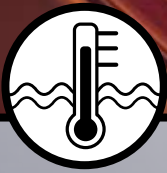
(Product number 7316-00900; Part number 91136)

The sturdy impact-resistant plastic case holds an assortment of 36 connectors.

- Handy carrying case opens from either side;
- Plan-o-gram inside both lids identifies location of each connector type and size;
- Assortment contains four connector shapes: straight, elbow, "T" and reducer;
- Provides convenient storage for complete line of connectors.



Number of connectors in kit	PN			
straight				
2	7315-00913	28601	6	1/4
2	7315-00914	28602	10	3/8
2	7315-00915	28603	12	1/2
2	7315-00916	28604	15	5/8
2	7315-00917	28605	19	3/4
elbow				
2	7315-00908	28621	6	1/4
2	7315-00909	28622	10	3/8
2	7315-00910	28623	12	1/2
2	7315-00911	28624	15	5/8
2	7315-00912	28625	19	3/4
"T"				
2	7315-00931	28631	6	1/4
2	7315-00932	28632	10	3/8
2	7315-00933	28633	12	1/2
2	7315-00934	28634	15	5/8
2	7315-00935	28635	19	3/4
reducer				
2	7315-00921	28609	10 → 12	3/8 → 1/2
2	7315-00922	28610	12 → 15	1/2 → 5/8
2	7315-00923	28611	15 → 19	5/8 → 3/4







9. Unicoil™ hose bending solution (Product type 7316)

NEW!



Gates introduces the new Unicoil™ for quick repair when the right rubber hose isn't available. The Unicoil™ consists of a coil and a bendable spine that is welded to the coil. By simply positioning the Unicoil™ on the straight hose and by using hand pressure to bend the spine, you can form almost any rubber hose in seconds. The metal spine holds the hose in shape; the stainless steel coil prevents the hose from collapsing or kinking.



The perfect product for a quick and customised solution!

PN			Min. 	Max. 	Quantity in box
		mm "	mm "	mm "	
7316-28514	UC28514	6.3 1/4	12 8/17	13.4 13/25	12
7316-28515	UC28515	7.9 5/16	14.5 53/93	16.4 16/25	12
7316-28516	UC28516	9.5 3/8	16.5 13/20	18.4 18/25	12
7316-28510	UC28510	13 1/2	18.8 37/50	21 19/23	12
7316-28511	UC28511	16 5/8	21.8 43/50	24 86/91	12
7316-28512	UC28512	19 3/4	25.6 1	27.8 1 3/32	12
7316-28517	UC28517	25.4 1	33 1 3/10	36 1 5/12	6

Unicoil™ is completely compatible with the following Gates hose:

PN			Unicoil™ Product N°	Unicoil™ Part N°
		mm "		
4272-10080	Flexcord Plus coolant hose	8 5/16	7316-28515	UC28515
4272-10100	Flexcord Plus coolant hose	10 3/8	7316-28516	UC28516
4272-10120	Flexcord Plus coolant hose	12 1/2	7316-28510	UC28510
4272-10150	Flexcord Plus coolant hose	15 5/8	7316-28511	UC28511
4272-10180	Flexcord Plus coolant hose	18 11/16	7316-28512	UC28512
4272-10200	Flexcord Plus coolant hose	20 13/16	7316-28512	UC28512
4272-10250	Flexcord Plus coolant hose	25 1	7316-28517	UC28517
4272-10280	Flexcord Plus coolant hose	28 1 1/8	7316-28517	UC28517
3230-12080	Straight heater hose	8 5/16	7316-28515	UC28515
3230-12100	Straight heater hose	10 3/8	7316-28516	UC28516
3230-12120	Straight heater hose	12 1/2	7316-28510	UC28510
3230-12150	Straight heater hose	15 5/8	7316-28511	UC28511
3230-12170	Straight heater hose	17 11/16	7316-28512	UC28512
3230-12190	Straight heater hose	19 3/4	7316-28512	UC28512
3225-10054	Fuel line hose 10 m reel	10 3/8	7316-28515	UC28515
3225-10014	Fuel line hose 15 m carton	10 3/8	7316-28515	UC28515
3225-10015	Fuel line hose 15 m carton	12 15/32	7316-28516	UC28516
4324-10056	Textile covered fuel line hose	7 9/32	7316-28514	UC28514
4324-10053	Textile covered fuel line hose	8 5/16	7316-28514	UC28514
4324-10054	Textile covered fuel line hose	10 3/8	7316-28515	UC28515
4219-03670	Low permeation fuel hose 3.048 m length	6 1/4	7316-28514	UC28514
4219-03681	Low permeation fuel hose 7.62 m length	6 1/4	7316-28514	UC28514
4219-03680	Low permeation fuel hose 3.048 m length	10 3/8	7316-28515	UC28515
4219-03683	Low permeation fuel hose 7.62 m length	10 3/8	7316-28515	UC28515
4040-04359	Signal call hose 15.2 m carton	9.5 3/8	7316-28515	UC28515
4040-04361	Signal call hose 91.5 m reel	9.5 3/8	7316-28515	UC28515
4040-04362	Signal call hose 30.5 m carton	9.5 3/8	7316-28515	UC28515



FUEL SYSTEMS

Gates' fuel system products include hose for fuel lines, fuel injection and fuel fill applications. Gates submersible fuel line hose is designed to handle gasoline on the inside and the outside, the right hose for in-tank applications. Gates also supplies small-diameter connectors and fuel injection clamps. A complete range of high-quality fuel caps is available, as well.





Fuel systems

1. Fuel line hose

(Product type 3225)

Small-diameter multi-purpose hose designed for fuel circuits (leaded and unleaded petrol, diesel).

- Cover resists heat, oil, ozone and weathering;
- Tube has been upgraded to meet changes in fuel characteristics and resists heat and oil;
- Spiral textile reinforcement;
- Working pressure up to 1 MPa (10 kg/cm²);
- Ambient temperature range from -35°C to +125°C;
- Meets requirements of SAE J30R7, ISO 4639-2 and DIN 73379 (except for tolerances).

Recommended for clamped hose applications on all fuel systems, including fuel injection systems.



Do not use for in-tank applications, sour gas, LPG and biodiesel. Not designed to replace coupled hose assemblies on fuel injected engines.



**Compatible
with Unicoil™
see p. 22**



PN			
	mm	"	
3225-10050	3.2	7/64	15 m on a reel
3225-10051	4	5/32	15 m on a reel
3225-10055	5	13/64	15 m on a reel
3225-10052	6	1/4	15 m on a reel
3225-10056	7	9/32	15 m on a reel
3225-10053	8	5/16	15 m on a reel
3225-10054	10	3/8	10 m on a reel
3225-10014	10	3/8	15 m in a carton
3225-10015	12	15/32	15 m in a carton

2. Fuel line hose merchandiser

(Product number 4986-10160, 4986-10161, 4986-10162, 4986-10163)

With this small-diameter hose merchandiser, storage or availability problems belong to the past. The handy, durable display holds 6 reels of popular small-diameter hose in the fast selling sizes. One simply selects the correct diameter and cuts off the length required. No hose is wasted.

Packaging contains:

- 530 mm wide metal frame with Gates sign and distribution plate;
- 6 reels each holding 7.5 or 15 m small-diameter hose;
- 7 magnetic identification plates allowing adaptation of the range to suit your needs;
- 4 screws and 4 plugs for attachment to the wall and 2 special hooks fitting any type of pegboard;
- a Gates lightweight hose cutter tied to the frame by a light chain.



Please refer to the Gates price list for specifics, or consult your Gates representative for more information.



3. Clamp extension to fuel line hose merchandiser

(Product number 7414-10007 and 7414-10008)

The fuel line hose display can be extended to hold also the clamps that fit the hose: for each hose size, the correct fuel injection clamps are included – 60 clamps (3 boxes of 20 clamps) of each size.

Packaging contains:

- Metal "basket" that can easily be attached to the fuel line frame;
- 6 types of fuel injection clamps (in the sizes that fit the hose), each type packed in 3 boxes of 20.



Please refer to the Gates price list for specifics, or consult your Gates representative for more information.

4. Textile covered fuel line hose

(Product type 4324)

A small-diameter hose with a durable and oil resistant textile cover. The hose provides a dependable and safe service on fuel circuits in passenger cars.

- The tube resists heat, fuel (leaded and unleaded petrol, diesel) and oil;
- The braided textile cover reinforces the hose and is resistant to heat, ozone and weathering;
- Working pressure up to 0.6 MPa (6 kg/cm²);
- Ambient temperature range from -35°C to +100°C.

Recommended for clamped hose applications on fuel systems in passenger cars.



Do not use for in-tank applications, sour gas, LPG and biodiesel. Not designed to replace coupled hose assemblies on fuel injected engines.



PN			
	mm	"	
4324-10050	3.2	7/64	15 m on a reel
4324-10051	4	5/32	15 m on a reel
4324-10055	5	13/64	15 m on a reel
4324-10052	6	1/4	15 m on a reel
4324-10056	7	9/32	15 m on a reel
4324-10053	8	5/16	15 m on a reel
4324-10054	10	3/8	10 m on a reel





5. Special fuel hose (Product type 4324)

A very small-diameter hose, suitable as connection and vacuum hose.

- Working pressure of 10 bar (= 1 MPa);
- Ambient temperature range from -35°C to +110°C, occasionally +130°C.



PN	Description			
		mm	"	
4324-10047	Eco textile covered fuel line hose	2.7	7/64	15 m on a reel
4324-10048*	HNBR textile covered fuel line hose	2.7	7/64	15 m on a reel

* HNBR: excellent resistance to heat, ozone, engine oil, coolant and fuel.





Do not use for in-tank applications and LPG.
Not designed to replace coupled hose assemblies on fuel injected engines.

6. Submersible fuel line hose (Product type 4219)

Exceeds the SAE 30R10 rating, which is the standard for submersible fuel line hose application, and is capable of handling gasoline, alcohol-extended gasoline or diesel fuel in fully immersed, mobile, stationary and marine applications.



- Engineered for constant contact with gasoline (and other liquid petroleum distillates) on the inside and the outside;
- Exceeds the SAE 30R10 specification for submersible fuel line hose applications;
- Fluoroelastomer (FKM) tubed cover resists gas and fuel permeation and retards ageing;
- Aramid fibre reinforcement – the same fibre as the one used in bullet-proof vests – pound-for-pound stronger than steel.

PN		Working pressure	Burst pressure	Length	
4219-05184	27093	0.69 MPa 100 psi	3.45 MPa 500 psi	30.5 cm 1 ft	7.9 mm 5/16"



7. Low permeation fuel hose

(Product type 4219)

A very high-quality hose that meets the latest environmental standards and requirements.

- Fluoroelastomer tube liner resists permeation of alcohol and sour gas;
- Tube resists heat, sour gas and fuel (leaded, unleaded and alcohol based petrol, diesel, biodiesel);
- Cover resists heat, ozone and abrasion;
- Polyester braid reinforcement;
- Working pressure up to 1.2 MPa (12 kg/cm²);
- Ambient temperature range from -35°C to +150°C;
- Meets requirements of SAE 30R9.

Recommended for clamped hose applications on fuel systems.



Do not use for in-tank applications and LPG.
Not designed to replace coupled hose assemblies on fuel injected engines.



Compatible
with Unicoil™
see p. 22

PN				Length m
		mm	"	
4219-03670	27082	6	1/4	3.048
4219-03681	27094	6	1/4	7.62
4219-03675	27085	8	5/16	3.048
4219-03682	27095	8	5/16	7.62
4219-03680	27088	10	3/8	3.048
4219-03683	27096	10	3/8	7.62

8. Flexible fuel fill hose

(Product type 4663)

Flexible hose for connection between the vehicle's filler neck and fuel tank. Works equally well on passenger cars and light trucks, as well as on auxiliary fuel tanks on recreational vehicles.

- High-quality nitrile tube makes the hose suitable for use with most commercial fuel types. Especially resistant to leaded and unleaded petrol and diesel;
- Corrugated cover with helical wire reinforcement;
- Cuts easily with knife and wire cutters;
- Temperature range from -40°C to +100°C;
- Meets requirements of SAE 30R5.

Packaging: 0.91 m (3 ft) length in a cardboard box.



PN			
		mm	"
4663-03601	23924	38	1-1/2
4663-03603	23930	48	1-7/8
4663-03604	23932	50	2
4663-03605	23936	57	2-1/4
4663-03606	23940	63	2-1/2



9. Connectors for fuel line, windshield washer hose and vacuum tubing

(Product type 7315)



Gates connectors are recommended for small-diameter hoses to provide a better seal between hoses with either the same or different inside diameters. Using straight, elbow, reducer, "T" and "Y" shapes, almost any hose configuration can be constructed.



- Unique single-barb design ensures a leak-proof seal;
- For hoses with ID of 2 mm to 12 mm;
- Glass-reinforced nylon resists extreme temperatures from -65°C to +250°C and coolant additives, petrol, diesel, oil and LPG;

- Working pressure up to 2 MPa (20 kg/cm²).

Packaging: 5 pieces in a plastic bag.



FUEL HOSE CONNECTORS			
PN			
straight			
7315-00861*	28561	2	3/32
7315-00862*	28562	3	1/8
7315-00863*	28563	4	5/32
7315-00864*	28564	5	3/16
7315-00913	28601	6	1/4
7315-00103	28600	8	5/16
7315-00914	28602	10	3/8
7315-00915	28603	12	1/2
elbow			
7315-00871*	28571	2	3/32
7315-00872*	28572	3	1/8
7315-00873*	28573	4	5/32
7315-00874*	28574	5	3/16
7315-00908	28621	6	1/4
7315-00102	28620	8	5/16
7315-00909	28622	10	3/8
7315-00910	28623	12	1/2
"T"			
7315-00881*	28581	2	3/32
7315-00882*	28582	3	1/8
7315-00883*	28583	4	5/32
7315-00884*	28584	5	3/16
7315-00931	28631	6	1/4
7315-00101	28630	8	5/16
7315-00932	28632	10	3/8
7315-00933	28633	12	1/2
"Y"			
7315-00851*	28551	2	3/32
7315-00852*	28552	3	1/8
7315-00854*	28554	5	3/16

REDUCER CONNECTORS			
PN			
7315-00891*	28591	2 → 3	3/32 → 1/8
7315-00892*	28592	3 → 4	1/8 → 5/32
7315-00893*	28593	5 → 6	3/16 → 1/4
7315-00104	28594	8 → 10	5/16 → 3/8
7315-00921	28609	10 → 12	3/8 → 1/2

* Included in fuel line and vacuum tubing connector kit (p. 29).





10. Fuel line and vacuum tubing connector kit (Product number 7316-00901; Part number 91156)

The handy impact-resistant plastic case holds an assortment of 36 fuel line and vacuum tubing connectors.

- Plan-o-gram inside both lids identifies location of each connector type and size;
- Assortment contains five connector shapes: straight, elbow, "T", "Y" and reducer;
- Provides convenient storage for complete line of fuel line and vacuum tubing connectors.



Number of connectors in kit	PN			
straight				
2	7315-00861	28561	2	3/32
2	7315-00862	28562	3	1/8
2	7315-00863	28563	4	5/32
2	7315-00864	28564	5	3/16
elbow				
2	7315-00871	28571	2	3/32
2	7315-00872	28572	3	1/8
2	7315-00873	28573	4	5/32
2	7315-00874	28574	5	3/16
"T"				
2	7315-00881	28581	2	3/32
2	7315-00882	28582	3	1/8
2	7315-00883	28583	4	5/32
2	7315-00884	28584	5	3/16
"Y"				
2	7315-00851	28551	2	3/32
2	7315-00852	28552	3	1/8
2	7315-00854	28554	5	3/16
reducer				
2	7315-00891	28591	2 → 3	3/32 → 1/8
2	7315-00892	28592	3 → 4	1/8 → 5/32
2	7315-00893	28593	5 → 6	3/16 → 1/4



11. Fuel injection clamps (Product type 7400)

Fuel injection clamps are zinc plated carbon steel clamps designed to provide the uniform sealing pressure required on fuel injection hose. They feature non-perforated rolled edge bands with a special nut and bolt tightening design.



- Screw: 6 mm (=1/4") hex-head. Zinc plated, clear chromate, carbon steel;
- Band: 9 mm (=3/8") wide. Zinc plated, clear chromate, carbon steel.

PN		ø min.	ø max.	ø min.	ø max.
		mm	mm	"	"
7400-40139	52F08CL	7.5	8.3	1/4	5/16
7400-40133	52F09CL	7	9	5/16	3/8
7400-40134	52F10CL	8	10	5/16	3/8
7400-40135	52F11CL	9	11	3/8	7/16
7400-40136	52F12CL	10	12	3/8	1/2
7400-40023	52F13CL	11	13	7/16	1/2
7400-40137	52F14CL	12	14	1/2	9/16
7400-40024	52F15CL	13	15	1/2	9/16
7400-40025	52F16CL	14	16	9/16	5/8
7400-40138	52F17CL	15	17	9/16	11/16



12. Fuel caps

(Product type 7410)

Gates fuel caps offer a durable construction of a wear-resistant thermoplastic compound to ensure tight closing and to avoid spills and leaks. Gates' standard fuel cap range includes locking and non-locking caps. The locking fuel caps lock securely and make tampering with your fuel tank impossible. All fuel caps are easy to install.

On the inside, the caps can have two different breathing systems: vented or non-vented. A non-vented fuel cap is recommended when your fuel tank is ventilated through the filler neck, whereas the vented fuel cap is equipped with a special breathing valve so that it can be used on non-ventilated fuel tanks.



In order to reduce air pollution as much as possible Gates supplies a special ecological cap. It is fitted with a venting valve system which prevents evaporation of harmful car fuel gases and complies with the EEC directive no. 70/221. In case of an accident the safety valve prevents fuel leaking from the tank.

13. Fuel cap merchandiser

(Product type 7414-10009)

This merchandiser has been designed to display a minimum of 36 fuel caps. These can be selected out of the Gates fuel cap range to suit local market requirements.

- 930 mm wide frame with Gates sign;
- 18 hooks;
- Can be mounted on a wall, pegboard or simply put on the counter.

Please refer to the Gates price list for specifics, or consult your Gates representative for more information.



More information on sizes and applications can be found in Gates' Fuel Cap Catalogue E/70328.



AIR AND DEFROSTER SYSTEMS





Air and defroster systems


1. Flexible air duct (Product type 7743)

Connects hot air sources with air cleaners for more efficient control of emissions. Helps eliminate carburettor icing and improves engine warm-up.

- Corrugated aluminium hose;
- Extremely flexible, yet retaining its shape after being formed;
- Resistant to heat (up to +250°C), cold, oil and oxidization.



Packaging: individually packed in a cardboard box in compressed form.

PN				
500 mm length	1,000 mm length	1,300 mm length	mm	"
7743-00519	7743-01019		19	3/4
7743-00522	7743-01022		22	7/8
7743-00525	7743-01025		25	1
	7743-01035		35	1-3/8
7743-00538	7743-01038		38	1-1/2
7743-00540	7743-01040		40	1-9/16
7743-00545	7743-01045		45	1-3/4
7743-00550	7743-01050		50	1-31/32
	7743-01052	7743-01352	52	2-3/64
7743-00555	7743-01055		55	2-3/16
7743-00560	7743-01060		60	2-3/8



2. Defroster hose (Product type 7768)

A hose that shapes and cuts easily. Recommended for low-pressure or suction applications such as defrosters, air ducts and air intakes.

- Closely woven, rubber-impregnated fabric;
- Strong helical wire increases flexibility;
- Resistant to heat, coolants, abrasion, tear and weathering;
- Suitable for marine applications;
- Temperature range from -40°C to +93°C.



Packaging: 1.83 m length per carton. Individually boxed in compressed form.

PN			
		mm	"
7768-04070	23820	32	1-1/4
7768-04071	23824	38	1-1/2
7768-04072	23828	45	1-3/4
7768-04073	23832	50	2
7768-04074	23836	57	2-1/4
7768-04075	23840	63	2-1/2
7768-04076	23844	70	2-3/4
7768-04077	23848	76	3
7768-04078	23856	89	3-1/2
7768-04079	23860	95	3-3/4
7768-04080	23864	102	4
7768-04081	23872	114	4-1/2
7768-04082	23880	127	5
7768-04084	23896	152	6



SERVICE HOSE AND OTHERS

Gates offers a wide variety of hoses for conveying air, water and other fluids in the garage environment.





Service hose and others

1. Station Master 15

Garages, service stations and fleets

(Product type 3223)

For handling lower pressure air and water.

- Cover withstands heat, ozone, weathering and abrasion;
- Tough textile spiral construction;
- Working pressure up to 1.5 MPa (15 kg/cm²);
- Resistant to temperatures up to +95°C in continuous service; up to +80°C for air.

Recommended for tyre inflation, compressed air tools and low-pressure washing.

Packaging: 20 m hose in shrunk plastic.



PN		
	mm	"
3223-11506	6	1/4
3223-11508	8	5/16
3223-11510	10	3/8
3223-11513	13	1/2

2. Signal call hose

Garages, service stations and fleets

(Product type 4040)

Suited for driveway signal devices in service stations and garages.

- Long-lasting synthetic rubber tubing specially built to register the slightest pressure;
- Withstands vehicle weight at temperatures up to +65°C;
- Resistance to wear caused by friction.



PN				
		mm	"	
4040-04359	27539	9.5	3/8	15.2 m in a carton
4040-04361	28686	9.5	3/8	91.5 m on a reel
4040-04362	28681	9.5	3/8	30.5 m in a carton

3. Adapta Flex™

Garages, service stations and fleets


(Product type 3204)

Suited for air and water applications requiring maximum flexibility.

- Reinforced by synthetic, high tensile textile cord;
- Outstanding resistance to heat and ozone;
- Good cover resistance to animal fat and vegetable oils;
- Limited oil resistance;
- Withstands temperatures of up to +100°C in continuous service;
- Working pressures of up to 1.4 MPa (14 kg/cm²) for liquids and 1.1 MPa (11 kg/cm²) for gas.

Packaging: on reels, maximum 2 pieces with a minimum length of 15 m.



PN			Length
	mm	"	
3204-01401	6	1/4	±180
3204-00710	8	5/16	±180
3204-01407	10	3/8	±180
3204-01413	13	1/2	±180
3204-01419	16	5/8	±180
3204-01422	19	3/4	±180
3204-01431	25	1	±100
3204-01434	32	1-1/4	±90
3204-01437	38	1-1/2	±75

4. Windscreen washer and vacuum tubing

(Product type 4040)



The ideal hose to replace the PVC tubing used for windscreen or headlight washers in cars, to connect vacuum-operated car accessories and to discharge radiator overflow or rainwater.

- Remains flexible for easy installation and cleaning;
- Resistant to the harmful conditions under the bonnet;
- Heat, ozone, coolant and kink resistant;
- Maximum ambient temperature: +125°C.

Packaging: 15 m reel.

All reels fit Gates fuel line hose merchandiser (p. 24).



PN			
		mm	"
4040-04101	27041	2.8	7/64
4040-04104	27042	4	5/32
4040-04107	27043	5.5	7/32
4040-04110	27044	6.4	1/4



5. GP hose ("General Purpose") Garages, service stations and fleets (Product types 3204, 3206 and 3219)

Gates flexible GP hoses for general-purpose applications handle water, air and many other products. The 3 GP hose types can cover the entire working pressure range from 1.3 MPa (13 kg/cm²) to 3.7 MPa (37 kg/cm²).

Packaging: 40 m hose in a shrunk plastic.



GP 40

(product type 3204)

Recommended for general air and water applications requiring maximum flexibility.

- Resistant to abrasion, weathering and ozone;
- Minimum burst pressure of 40 kg/cm² (4 MPa);
- Temperature range from -50°C to +95°C (+80°C for air).

PN	↔		Max. working pressure	
	mm	"	MPa (liquid)	MPa (gas)
3204-10011	6	1/4	1.3	1.0
3204-10013	8	5/16	1.3	1.0
3204-10015	10	3/8	1.3	1.0
3204-10029	13	1/2	1.3	1.0
3204-10031	16	5/8	1.3	1.0
3204-10033	19	3/4	1.3	1.0
3204-10035	25	1	1.3	1.0
3204-10036	32	1 1/4	1.3	1.0
3204-10038	38	1 1/2	1.3	1.0

GP 60

(product type 3206)

Durable and flexible hose for general industrial applications, such as oil, hydraulic fluids, alcohol and aqueous solutions. Hot water wash down applications and for general air service. Static conductive for more safety.

- Resistant to oil and abrasion;
- Minimum burst pressure of 60 kg/cm² (6 MPa);
- Temperature range from -40°C to +95°C (+70°C for general air service).


PN	↔		Max. working pressure	
	mm	"	MPa (liquid)	MPa (gas)
3206-10018	6	1/4	2.0	1.5
3206-10020	8	5/16	2.0	1.5
3206-10022	10	3/8	2.0	1.5
3206-10024	13	1/2	2.0	1.5
3206-10026	16	5/8	2.0	1.5
3206-10028	19	3/4	2.0	1.5
3206-10030	25	1	2.0	1.5

GP 80 Plus

(Product type 3219)

Durable hose for general industrial applications such as oil, hydraulic fluids, alcohols, aqueous solutions, acids, detergents and chemicals. Static conductive for more safety.

- Resistant to oil, abrasion, weathering and ozone;
- Minimum burst pressure of 110 kg/cm² (11 MPa) for sizes up to 13 mm (1/2") ID and 90 kg/cm² (9 MPa) for larger sizes;
- Temperature range from -40°C to +95°C in continuous service, temporary to +110°C.

PN			Max. working pressure	
	mm	"	MPa (liquid)	MPa (gas)
3219-10028	6	1/4	3.7	2.8
3219-10030	8	5/16	3.7	2.8
3219-10032	9	11/32	3.7	2.8
3219-10034	10	3/8	3.7	2.8
3219-10036	13	1/2	3.7	2.8
3219-10038	16	5/8	3.0	2.3
3219-10039	19	3/4	3.0	2.3
3219-10040	25	1	3.0	2.3
3219-10041	32	1 1/4	3.0	2.3
3219-10003	38	1 1/2	3.0	2.3
3219-10005	50	2	3.0	2.3


6. Static straps

(Product type 2960)

Discharges potentially dangerous static electricity from your car or truck when properly grounded.

- Specially compounded rubber conducts static electricity;
- Resists weathering, abrasion and tear;
- Standard pack: 1 piece.



PN		Length	
		mm	"
2960-00051	90330	640	25
2960-00052	90331	760	30



TOOLS

Gates offers several handy and practical tools to make installation of its products easy.





Tools

1. STT-1 sonic belt tension tester

(Product number 7420-00301)

Proper belt installation tension is essential for optimum performance and reliability of timing belt drives. Experienced mechanics may feel they are able to check belt tension by rule of thumb, but tension results vary from one operator to another.

That is why Gates recommends using the new sonic belt tension tester STT-1: it measures belt installation tension accurately every time and therefore provides a quality standard.

- All tension values and drive characteristics are programmed in the device;
- Belt frequency analysis;
- Database covers all the popular car models in Europe;



- Reduced sensor size and high wire flexibility;
- Suitable for Gates PowerGrip® timing and Micro-V® XF multi-ribbed belts;
- Very simple and easy-to-use measuring process.

2. Kriket I V-belt tension gauge

(Product number 7401-00071)

Tension is of the utmost importance for V-belt performance and service life. Applying the correct tension is easy with the aid of Gates Kriket I. The Kriket I also allows control and maintenance of the optimum tension after installation. The scale indicates the tension in both kg and pounds. Kriket I can also be used for tension control of narrower Micro-V® XF belts (3 - 4 ribs). Not recommended for timing belts.

Packaging: individually boxed. Useful tips on correct tensioning and maintenance, as well as average tension values, are enclosed.



3. Kriket II Micro-V® XF belt tension gauge (Product number 7401-00072)

The Kriket II is specially designed for measuring the higher tensions which are required by Micro-V® XF belts used on passenger cars, trucks and buses. The gauge is calibrated to measure tensions ranging between 50 kg and 150 kg (100 lbs to 320 lbs). Not recommended for timing belts.

Packaging: individually boxed. Instructions and average belt tension values are enclosed.



4. DriveAlign® laser alignment tool (Product number 7468-00113)

This tool quickly identifies the two most common types of misalignment in serpentine belt systems – parallel offset and angular – that reduce belt and pulley service life and produce unwanted noise. Simply position the tool within the grooves of a pulley and aim its bright laser beam at an opposite pulley. Any misalignment is instantly visible.

This exclusive Gates tool is compatible with most automotive serpentine belt drives. The lightweight and easy-to-use tool includes special protective laser enhancement eyeglasses for easier viewing in all light conditions.





5. V- and Micro-V® XF belt length finder (Product number 7401-10008)

Indispensable whenever you have to select the right replacement belt when you only have the used V-belt or multi-ribbed belt at your disposal. This tool measures the old belt and immediately indicates the corresponding replacement belt length.



6. Dr. Gates tool kit for belt drive systems (without STT-1: 7420-00401; with STT-1: 7420-00402)

You're a professional technician. You know that today's sophisticated engine configurations require that you use specialised tools in your service area. To help you find the problem, fix the problem quickly and do the job right – the first time – Gates now offers a useful kit with professional tools for belt drive systems, called Dr. Gates.



Dr. Gates is a professional tool kit including the sonic tension tester STT-1, the DriveAlign® laser alignment tool, two sprocket locking devices, a stethoscope and a belt tensioner retaining pin set, all arranged in one practical case. Next to these tools, the kit also

includes a practical headlamp and a white marker, which comes in handy when you need to make indications on a belt. The complete kit has been developed to facilitate belt maintenance for the mechanic.

7. Universal and engine-specific tool kits

(Product type 7468)

Gates now also offers a line of universal and engine-specific tool kits for synchronous and accessory belt drive systems. These high-quality tools allow Gates to be a "One-stop-shop" supplier for all products and services needed to provide a complete, professional and OE equivalent maintenance of belt drive systems.

- All tools needed to service the belt drive on a specific engine platform;
- High-grade tools for professional use;
- State-of-the-art technology;
- Detailed handling instructions included.

Check with your local Gates representative for availability.



8. Hose diameter finder

(Product number 9997-27220)

To find the right replacement hose, one has to know the inside diameter of the hose to be replaced. Gates' hose diameter finder quickens and facilitates the job. This plastic strip shows in relief 15 standard hose diameters, varying from 10 mm to 45 mm. Available free of charge.







9. Hose cutter (Product type 7469)

Lightweight cutter specially designed to cut fabric-reinforced and PVC hoses without leaving ragged edges. Blade closes into handle for safety.

Packaging: cutter and blades individually packaged.



SMALL ID CUTTER FOR HOSES UP TO 38 MM (1-1/2") ID		
PN		
7469-00142	91142	blades for old (black) cutter - 91141
7469-00153	91153	cutter
7469-00154	91154	blades for (red) cutter - 91153

LARGE ID CUTTER FOR HOSES UP TO 76 MM (3") ID		
PN		
7469-00143	91143	cutter
7469-00144	91144	blades

10. Flexi Driver for clamps (Product number 7401-10004)

Highly effective, torque sensitive screwdriver, calibrated to bend when the proper torque is attained. Handy tool with flexible shaft to tighten the clamps properly, also on hard-to-reach places. Fits hose clamps with 6 mm (1/4"), 7 mm (5/16"), 8 mm (5/16") and 10 mm (3/8") hexagonal head screws.





CATALOGUING

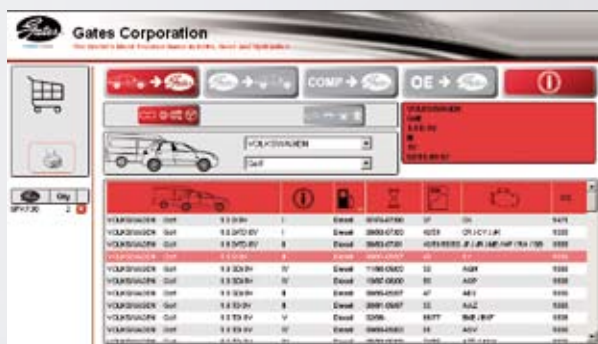
Up-to-date application data is a must in the aftermarket. Gates specification research team provides application data on virtually every car on the road. All information is published in Gates catalogues, which are considered to be the most complete and up-to-date in the market. These catalogues are multilingual to cover a maximum of markets. Gates now also has an online version of its application catalogues, available at www.gatesautocat.com.



Cataloguing

1. Gates web catalogue

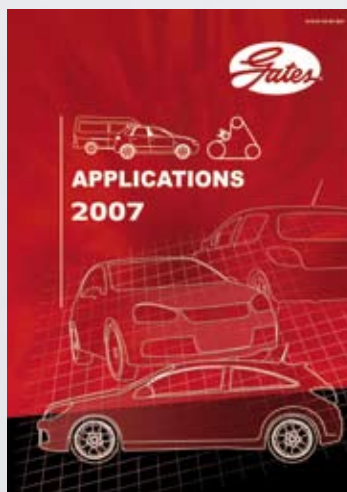
Gates online multilingual application catalogue, available at www.gatesautocat.com, makes product search even easier and provides you with the most accurate and up-to-date information. This catalogue contains alphabetical application data, numerical application data, competitive and OE changeover data for belt drive and cooling systems. Gates also added the possibility to click through to the belt routing diagram and drawing or picture of the tensioner, kit components, hose, thermostat and radiator cap.



There is also a direct link to all Technical Bulletins, offering detailed information and useful tips for installation and maintenance of Gates products.

2. Drive systems catalogue (E/70107)

Gates Drive Systems Catalogue contains replacement belt, tensioner and kit references (V-belts, PowerGrip® timing belts, PowerGrip® Kits, Micro-V® XF multi-ribbed belts, Micro-V® XF Kits and DriveAlign® tensioners) for passenger cars and light-duty commercial vehicles. The catalogue includes an alphabetical listing by vehicle make, size listings, a list of kit components, a chapter illustrating belt routing diagrams for accessory belt drives, a manufacturers' part number listing and a list of cancelled or replaced products.



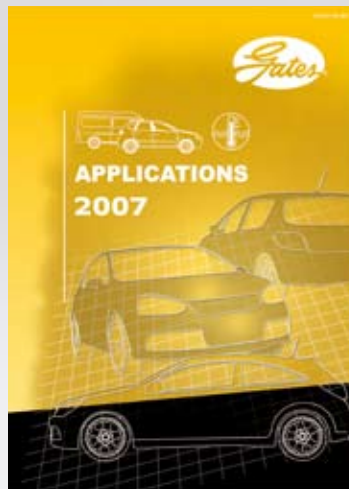
3. Old timer supplement (E/70110)

This catalogue contains all the application data for belts and kits for passenger car models of which the production was stopped before 1990. It includes all models that are not mentioned in the Drive Systems Catalogue (E/70107) and can be considered as a supplement.



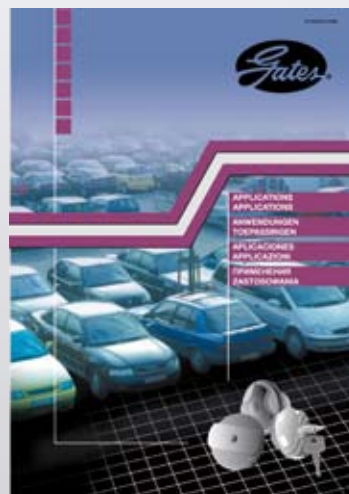
4. Cooling systems catalogue (E/70372)

Gates Cooling Systems Catalogue provides all required information on cooling system hoses, thermostats, radiator and expansion tank caps and the new Unicoil™ hose bending solution in one catalogue. The catalogue includes an alphabetical listing by vehicle make, size listings with pictures, a manufacturers' part number listing and a list of cancelled or replaced products.



5. Fuel cap catalogue (E/70328)

Gates Fuel Cap Catalogue provides all required information on replacement fuel caps for passenger cars, trucks and buses. The catalogue includes alphabetical listings by vehicle make and pictures of all available fuel caps. The information is split up for locking and non-locking fuel caps, and for passenger cars and trucks and buses.



Every effort has been made to ensure the accuracy and comprehensiveness of the information included in this catalogue. However, Gates cannot be held responsible for errors or omissions and for alterations occurred after release for printing; or if Gates products are used in special or exceptional circumstances without prior consultation with and clearance from a Gates representative.

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