Belt and Drive Systems

Micro-V AT® Belts
Replacement belt for accessory belt drive systems (ABDS) and other serpentine belt applications. Designed using advanced manufacturing technology and premium EPDM construction to provide customers with superior ABDS and new vehicle type performance.

- Belt of choice by professional technicians, lasting 50%-60% longer than retail belts
- Precision dimension control of rib profile transmits load efficiently throughout the ABDS allowing components to operate at optimum levels
- Able to operate and accept misalignment in the ABDS system far greater than other serpentine belts
- Flexible construction allows the belt to withstand billions of topside and backside bends resulting in long belt life
- Meets or exceeds SAE J1459
(Product Type 8552)

Dual-sided Micro-V® Belts
For replacing original equipment belts on serpentine drives that require a higher degree of efficiency when transmitting power. Designed for small diameter pulleys and for use with (or without) automatic tensioners.

- V-ribbed on both sides of the belt
- Specially designed to resist wear and cracking
- Broad coverage on unique applications
(Product Type 8550)

Micro-V® Stretch Fit® Belts
A replacement belt design using advanced TwistLock™ tensile cord technology produces self tensioning belt capabilities; does not require a tensioner on the drive.

- Found on unique 2-4 point pulley drive applications
- Highly engineered design and OEM technology
- Maintains proper tension throughout belt life
- Special tools may be required for installation on some applications
- www.gates.com/stretchfit

Micro-V® Stretch Fit® Belt Installation Tool
Installation tool for Gates’ Micro-V® Stretch Fit® belts. If the right tools are not used, the belt can be damaged.

- Installation instructions printed on inside of each belt sleeve
(Part No. 91030)

Micro-V AT® EMD Belts
Electrical Mechanical Drive (EMD) belt engineered to meet the demands of Electric Assist models (Saturn Aura/Vue and Chevrolet Malibu)

- Enhanced undercord of synthetic fibers for extended belt life
- Manufactured using Gates TwistLock™ aramid cord technology for increased load capacity
**XL® V-Belts**

*Replacement belt for today's most demanding engine drives. Due to thermal forces, this variable notched belt actually tightens on the drive as it gets hot. This results in improved belt performance by reducing tension decay and noise.*

- Fiber-loaded rubber stock puts more flexibility along the length of the belt, yet gives the belt greater lateral stability in the pulley.
- Thermally active tensile cords for maintenance-free performance when properly installed and tensioned.
- Form ground to ensure precise top width and sidewall dimensional control for proper fit in pulley as well as a smoother, quieter running belt.
- Meets or exceeds SAE J636c specifications.

(Product Type 8701)

**DriveAlign® Automatic Belt Tensioners**

*Designed for accessory belt drive systems that require an automatic belt tensioner.*

- OE specification knowledge ensures proper belt tension, alignment and damping
- Precise machined surfaces and assembly tolerances means no customer returns due to belt noise or belts jumping off the drive
- Patented damping system increases tensioner, belt and accessory component life reducing customer returns due to vibration complaints
- High quality casting process means durability that meets or exceeds OE requirements even under extreme conditions
- Patented labyrinth seal protects internal components to meet or exceed OE life expectancy requirements
- Full line coverage for domestic, import and heavy-duty applications

(Product Type 7808)

**DriveAlign® Idler Pulleys**

*Designed for use on automobiles and light trucks as a locked center tensioning pulley, an automatic belt tensioner pulley or an idler pulley.*

- Steel or thermoplastic construction provides high durability for long life
- Bearing meets or exceeds OE and is designed for application specific speed and load requirements
- Reliable operation under severe conditions

**Alternator Decoupler Pulleys (ADP)**

*Gates Alternator Decoupler Pulleys provide vibration isolation within the Accessory Belt Drive System resulting in smoother engine performance and efficiency and increased belt and component life. Line consists of overrunning alternator decoupler pulleys and one way clutches (not interchangeable).*

- Exact OE replacement
- Patented design unmatched by any other supplier
- Torsion spring absorbs engine vibration for quieter, smoother ride
- www.gates.com/adp for in-depth information about Gates’ ADP line
Belt and Drive Systems

Timing Belts

*Gates timing belts are OE-equivalent or better in service life and performance.*

- Aramid reinforced nylon jackets and back side jackets for longer wear.
- High grade HNBR rubber for superior heat and contamination resistance.
- Premium high strength tensile members.
- Unlike some competitors, Gates does not substitute inferior belt constructions for premium constructions specified by the OEM on any application.
- Most extensive coverage in the industry. Import or Domestic.
- Gates is the global leader in OE timing belts. “Gates is the OE” for Acura, Alfa Romeo, Audi, BMW, Chrysler, Citroen, Daewoo, Daihatsu, Fiat, Ford, GM, Honda, Hyundai, Infiniti, Isuzu, Jaguar, Kia, lancia, Land Rover, Lexus, Mazda, Mercedes-Benz, Mini, Nissan, Mitsubishi, Opel, Peugeot, Porsche, Range Rover, Renault, Saab, Scion, Skoda, Smart, Subaru, Suzuki, Toyota, Volkswagen, Volvo, and more.

Timing Component Kits

*Why take a chance? With Gates TCKs, you can avoid warranties and comebacks by replacing all critical system components at the same time.*

- Popular kits covering over 31 million import applications include actual Original Equipment Tensioners and Idlers.
- Total solution for any application, including Belts, Idler(s), Tensioners and supporting hardware with detailed installation instruction.
- Great convenience. Ease of part sourcing. Reduced customer comebacks.

Timing Component Kits with Water Pump

*Our Timing Component Kits with Water Pump offer the same OE components as our TCKs with the addition of a water pump. Timing belt driven water pumps should always be replaced when the timing belt is replaced.*

- Includes a warranty equal to the OE replacement interval.
- Water Pumps are designed and built for long lasting, efficient cooling.
- Hydraulic tensioners included where available.
- Great convenience. Ease of part sourcing. Reduced customer comebacks.
Timing Component Kits Plus

The TCK+ kits offers increased confidence when performing timing system service through the addition of OE quality cam and crank seals along with the highest quality timing belt, idlers, and tensioners.

- All the convenience and features of Gates TCK’s plus cam and crank shaft oil seals.
- Avoid warranties and comebacks by eliminating oil leaks, a leading cause of timing belt failures.
- Plus kits containing cam and crank shaft oil seals easily identified by the “P” at the end of the part number.

Hydraulic Tensioners

For applications with high loads and/or angular vibrations, where a mechanical automatic tensioner can not provide sufficient damping or tensioner movement.

- 100% OE parts.
- Market-leading application coverage.
- Gates tensioner pin set tool (PN#91010) for securing piston.

PowerGrip Individual Timing Components

Gates PowerGrip timing components for those who want to replace individual parts.

- Components include automatic, manual and hydraulic tensioners and idler pulleys.
- Only “OE” components for the most popular and problematic applications.

Timing Component Kit Oil Seals

Prevent potential timing belt damage by replacing the cam and crank oil seals at the same time as other timing belt components.

- Molded with precise tolerances to provide positive OD sealing.
- Constructed with leading edge sealing materials to perform for extended life.
- OEM equivalent or better.
Professional-Grade Tools

Multi-Lock Tool

*Multi-Lock tool “locks” twin camshafts in place during timing belt replacement or engine overhaul.*

- Fits onto sprockets and extends to hold sprocket teeth. Incorporates “variable pitch” adjustable arms to fit various diameters and tooth pitches.
- Unique design is fully adjustable to fit numerous applications including diesel injector pump sprockets and sprockets that are positioned closely together like those on Mitsubishi or GM EcoTec engines.
- Ratchet locking handle provides compact, strong lever action for secure positioning.
- Also includes extension bar for wider spaced cams ($25 value).

(Part No. 91009)

Timing Belt Tension Tester

*Provides a precise method of testing timing belt tension on a variety of automotive applications.*

- Gates tension tester will test any timing belt up to 30mm wide, thus replacing several expensive tools.
- Comes with adapters for varying belt thicknesses.
- Uses force deflection method to measure tension.
- Compact design works in tight engine compartments.
- Scale can be read in any position.

(Part No. 91000)

Hydraulic Tensioner Pin Set

*A Gates exclusive that’s a must have for every technician. Hydraulic timing belt tensioners need to be compressed during service. Many technicians use a drill bit or allen wrench to hold tensioners in their compressed state, which can be dangerous and may bend or damage tools.*

- Hardened spring steel to hold the strongest tensioners.
- Conveniently mounted on key chain with six different sizes to service a variety of applications.
- Holds certain serpentine belt tensioners and timing chain tensioners in place, during service.

(Part No. 91010)
Heavy-Duty Fleet, Off-Road Equipment and Marine Applications

(See 431-2030 for complete application information)

Green Stripe® Micro-V AT® Belts

*Long wearing fiber-loaded stocks with greater load-carrying capacity designed for demanding, heavy-service drives. For replacing original belts on serpentine drives and other heavy-duty V-ribbed belt applications. Approved for Marine Applications.*

- Special belt constructions eliminate belt noise, reduce tension loss and solve problem drive applications.
- Extra heavy-duty construction resists cracking and wear.
- Precision ground to assure optimum belt-to-pulley fit.
- Special formation process for precise dimensional control.
- Reinforced with stretch-resistant, thermally active polyester tensile members.
- Meets or exceeds SAE J1459 specifications.

(Product Type 8552)

FleetRunner® Micro-V® Belts

- Belt of choice by fleets, including 3/4 & 1 ton pickups
- Lowest cost per mile
- Consistently outperforms all competitors
- Outstanding crack resistance at extreme temperatures
- Problem solver
- Designed for toughest applications

(Product Type 8555)

FleetRunner® Heavy-Duty V-Belts

*Patented EPDM construction with distinct green overcord built specifically for more durability and longer life on heavy duty drives.*

- Outperforms the competition on the most troublesome drives
- Special compound provides unmatched flexibility, stability, load carrying capacity, and belt life
- Patented material provides peak performance at extreme prolonged operating temperatures
- Heavy-duty construction resists cracking and wear
- Oil and heat resistant
- Unique undercord notch pattern offers increased flexibility for smaller diameter pulleys
- Available in over 70 sizes

(Product Type 8711)
DriveAlign™ Heavy-Duty Automatic Belt Tensioners

The longest lasting belt tensioners in the industry. Engineered to exceed demanding OEM requirements. In laboratory tests, under extreme peak-to-peak vibration and contamination tests, DriveAlign heavy-duty tensioners lasted up to three times longer than competitive aftermarket tensioners.

- Labyrinth Seal – prevents contamination of internal parts for maximum durability and service life
- Machined Steel Pulley – reduces surface wear while shielding internal bearing from outside contaminants
- Double Row Bearings – twin rows of bearings minimize friction for reduced bearing wear and noise
- Optimized Components – engineered for maximum strength and durability
- Patented Design – provides superior belt alignment and tension for improved drive efficiency and life
- Round Spring Wire – includes chrome-silicone torsion spring for less flex-fatigue than flat-wire designs
- Patented Damping Mechanism – provides maximum stability, reducing vibration and increasing the life of belt, tensioner and other accessory drive components.

DriveAlign® Heavy-Duty Idler Pulleys

Long-lasting pulleys built to endure the rigors of today’s heavy-duty, fleet and off-road equipment.

- Superior bearings out perform OE Idler Pulleys.
- Robust and high quality pulley materials to withstand contaminates

Green Stripe® XL® V-Belts

Premium quality replacement belts for heavy-duty engines. Approved for Marine Applications.

- Fiber loaded rubber stock puts added flexibility along belt’s length, yet affords greater lateral stability.
- Variable notch pattern causes belt to run cooler, quieter and with less bending stress.
- Precision V-forming process assures exact size and angle control.
- High tenacity tensile cords and special layer of reinforcement for long, maintenance-free performance when belt is properly installed and tensioned.
- Meets or exceeds SAE 636 specifications.
- Meets or exceeds RMA standards for static conductivity.
(Product Type 8701)

Green Stripe® Truck and Bus Series V-Belts

Specifically designed for heavy-duty truck, bus and off-road equipment applications. Absorbs normal shock loads without damage to belt.

- Special tensile cords give high stretch resistance.
- Special notch design resists cracking while providing tensile member support during operation.
- Oil and heat-resistant construction throughout.
- Meets SAE J636b and SAE J637 specifications.
(Product Type 8620)
Green Stripe® PowerBand® Belts

*Designed for problem, heavy-duty, heavily vibrating automotive applications requiring belt sets. Tie-band feature joining belts together ensures stability lacking in ordinary belt sets.*

- Even load distribution between strands provides better shock load absorption.
- Belt can’t turn over or slip off drive.
- Unique tensile cord design gives belt extra strength, added flexibility and shock-load resistance.
- Molded notches reduce bending stress, especially on small diameter pulleys.
  Also helps dissipate heat.
- Meets or exceeds SAE J1459 specifications.

(Product Type 8541)

Refrigeration Belts

*Gates offers a unique line of heavy-duty construction V-belts ideal for use in truck and trailer refrigeration units. Fits most popular applications.*

For application information, see Gates Catalog 31-2030.

Hi-Power® II Belts

*Designed to give long, dependable service and superior performance on heavy-duty A, B, C, D and E Section single or multiple V-belt drives.*

- Composite multi-purpose construction reduces flex fatigue.
- Superior resistance to oil, heat, ozone, sunlight, weather.
- Meet or exceed RMA standards for static conductivity and oil and heat resistance.
- Superior length stability means less tensioning and takeup during service.
- V80 Gates matching program guarantee.

(Product Type 9002 - 9006)

Tri-Power® Belts

*Constructed to provide superior performance on the toughest heavy-duty A, B and C Section industrial drives. Ideal for drives with small diameter sheaves.*

- Vextra construction
- Gates matching program guarantee.
- Special molded notch reduces bending stresses, especially on drives with smaller diameter sheaves.
- Tough tensile members for superior resistance to fatigue and shock loads.
- Bandless cut edge for even wedging action and uniform fit.
- Meet or exceed RMA standards tests for static conductivity and heat and oil resistance.

(Product Type 9012 - 9014)