

The **C&K** Remanufactured Small Component Line

Most Comprehensive Parts Solution for the Vehicle Service Contract Industry

Having revolutionized the OEM parts procurement process with its exclusive OEM Parts Portal, C&K takes convenience and cost savings to the next level with the launch of its full line of remanufactured small components. The line is easily accessible via **C&K's OEM Parts Portal Plus**, allowing customers to compare OEM and Remanufactured parts, side-by-side.

C&K Adds Small Components to Reman Line

C&K, already the VSC Industry's leading provider of powertrain assemblies, has further simplified the VSC administrator's job with the launch of a complete line of remanufactured small components, including brake components, axles and driveshafts, electronics, fuel system components, small motors, pumps, and steering components. With this C&K-branded parts line, remanufactured by a leading US auto parts remanufacturer in an ISO 9001-, ISO 14001-, and TS16949-certified facility, C&K provides quality parts solutions with convenience and now 'freedom of choice.' Ordering couldn't be easier—a mouseclick preloads an online order form with part and pricing information, cueing it to ship immediately.

The 'Reman' Advantage

Remanufactured parts offer a variety of advantages, the most prominent of which is savings. But the benefits don't stop there:

- The remanufacturing industry employs 480,000 people in the United States. US job promotion is something that C&K supports!
- Remanufacturing conserves the equivalent of 400 trillion BTU's of energy per year, equal to the electricity produced by eight nuclear power plants in one year.
- Remanufacturing conserves enough worldwide material to fill a train 1650 miles long.
- Remanufacturing saves over 80% of the energy used to produce a new part, reducing an estimated 28 million tons of carbon dioxide.
- The cost of a remanufactured part saves consumers on average 30-50% versus a new part.

While everyone wants to help the economy and protect the planet, C&K's first responsibility is to provide a quality part. While C&K provides a broad parts and labor warranty, including rental coverage and diagnostic time—the most important component C&K provides is peace of mind. To that end, quality assurances on each type of component include:

Brakes

Calipers –

- o Friction Choice Calipers are supplied with all the hardware components needed to complete the job.

Master Cylinders –

- o Receive 100% new rubber seals and cups.
- o Bores meet critical microfinish specs, eliminating pitting and corrosion.

Power Brake Units –

- o Receive OE Quality seals, dust boots, and check valves that meet SAE performance and life-cycle standards.
- o IVD Boosters are completely tested, including all electronic functions.

Drivetrain

All units are 100% inspected for quality, reliability, and OE length specs for perfect fit and function.

Constant Velocity Drive Axles –

- o Shafts are 100% measured for straightness, guaranteeing a vibration free vehicle.
- o Joints are precision ground to tight tolerances of +/- 0.001/in., allowing for proper grease flow, lengthening product life.
- o Highly durable Neoprene boots that meet SAE specs.
- o CV threads and splines are 100% renewed for perfect installation fit.
- o High temperature grease, specifically designed for CV joint applications, is used.
- o Pneumatic clamping machines create an air-tight seal. This prevents grease leakage and contamination.
- o New axle nuts are supplied on all torque-prevailing CV joint applications.

4x4 Driveshafts/Prop Shafts –

- o Prop shafts are supplied with 100% new universal joints.
- o When necessary, Prop shafts are supplied with CV centering kits and grease fittings.
- o All Prop shafts are high-speed dynamically balanced to ensure vibration free performance.

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Pumps

Smog Air Pumps –

- o Every smog air pump is “run-in” at 1000 RPM to properly seat the vanes.
- o Smog air pump hubs are resized to ensure a good press-fit to the rotor shaft. In addition, a special anaerobic adhesive is used to guarantee they remain attached to the rotor shaft.
- o Carbon shoes/vanes are installed in every smog air pump, which aids proper sealing.
- o Carbon springs receive the proper spring tension, increasing pump longevity.

Vacuum Pumps –

- o All vacuum pumps receive new diaphragms, o-rings, check valves, and garter spring seals.

Water pumps –

- o Every water pump is vacuum, pressure, and high-speed tested.
- o New unitized seal assemblies.
- o Water pump ball/ball or ball/roller bearings are used, as specified by OE, and upgraded on certain high-torque applications.
- o Severe Duty water pumps feature a remanufactured OE casting with totally new unitized seals, new upgraded severe duty ball/roller bearings, new hubs, new impellers, new back plates, and superior OE grade gaskets.

Electronics

C&K's electronics catalog now includes: ABS modules, Body Control computers, Cruise Control modules, Electronic Throttle Bodies, Engine Control modules, GM PROM Chips, Ignition Crank Angle Sensors, Ignition Distributors, Injector Driver modules, Lighting Control modules, Mass Air Flow sensors, Powertrain Control modules, Relay Control modules, Suspension Control modules, Transmission Control modules, and Vane Air Flow Meters.

- o Electronic Modules are available with or without pre-loaded OE Flash program software.
- o Specific repairs to ensure OE defects are corrected, and that each part meets or exceeds OE performance specs.
- o Advanced robotic remanufacturing equipment ensures precision-made units.
- o Every electronic module is full-function computer tested under simulated on-the-car extremes of temperature and vibration.
- o 100% re-flow of all critical Distributor and ECM component solder joints.

Steering

C&K's steering catalog now includes: Control Valves, Electronic Power Steering, Power Cylinders, Power Steering Pumps, Power Steering Filters, Rack and Pinion Units, steering Gears.

- o All steering units are tested hydraulically for proper flow, leakage, and performance.
- o All critical components (i.e. campacs, spool valves, etc.) are triple tested.
- o All new seals and o-rings are used on every Rack & Pinion and Power Steering Pump.
- o Rack & Pinion sleeves are installed with a special tri-bond process to assure sleeves will never shift.
- o 100% tested and calibrated pressure relief fittings on all Power Steering Pumps.

Fuel/Air Systems

C&K's Fuel/Air system catalog now includes: Diesel CR's, Diesel Fuel Injection Pumps, Diesel Fuel Injectors, Diesel Injector Driver modules, Diesel PMD's, Intake Manifolds, Smog air Pumps, Superchargers, Turbo mounting Pedestals, Turbochargers, and Vacuum pumps.

Turbochargers/Superchargers –

- o All units are completely disassembled and thoroughly inspected. All standard wear items (rotating and thrust bearings and all seals) are replaced.
- o All surfaces/components are renewed.
- o All units come with gaskets/mounting hardware.
- o All units are dynamically balanced on the latest computerized balancing rigs.

Diesel Fuel Injector, Injection Pumps, PMD's, Injector Driver Modules –

- o All internal parts are original factory approved. All units are calibrated to OE spec.

Motors

C&K's motor catalog now includes: Headlamp motors, Sunroof motors, Tailgate motors, Transfer Case motors, Window Lift motors and gear kits, Window Lift motors with regulators, Wiper motors & Pulse Boards.

- o All units are oscilloscope tested, both as sub-assemblies and complete units.
- o All critical components (i.e. pulse boards, relay switches, washer pumps, etc.) are triple tested.

In addition to an extensive catalog of parts both small and large, C&K provides THE widest variety of ways for customers to obtain ACCURATE cost and availability information about these parts: Phone, fax, e-mail, Web, or direct system integration. And through C&K's exclusive **OEM Parts Portal Plus**, C&K offers the most complete OEM Part Number-Remanufactured Part Number cross reference and comparison guide in the industry: All you need is the OEM part number to get started.