



## Remanufactured D9, D10, and D11 Crawler Tractors

J.J. Scheckel Corporation  
Scheckel Series Reman  
21582 Hwy 62, Bellevue, IA 52031  
[www.jjscheckel.com](http://www.jjscheckel.com)

## 3 Options To Purchase

- 1) **Outright Purchase** a finished reman from us
- 2) **Exchange** your existing machine for a reman machine from us
- 3) Let us **Custom Reman** your existing machine

## Long Term Solutions

Get on a planned time, regular reman exchange program with us. We reman more than crawler tractors. Get on our planned exchange program with your haul truck fleets, graders, or wheel loaders. Turn in your used machine, and take delivery of a fresh reman machine on your schedule.

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# An Introduction to Remanufacturing

## Definition

Detailed, extensive rebuilding, repairing, and restoring of a machine to meet or exceed Original Equipment Manufacturer's (OEM) performance specifications.

## Qualifying Factors

To meet the "remanufactured" definition, these machines must undergo significant processing further, and more detailed, than would ever be required in a normal "rebuild" process. These machines are thus restored to a much higher degree and are intended to operate as good, or better than when the product was originally manufactured new, with a warranty to match.

While the basic concept of remanufacturing is simple, the activity is extremely complex. It requires that a used machine be completely disassembled to the bare castings, in order to assess its actual condition down to the very last element. Each step in this process is essential to the entire concept of remanufacturing and careful precautions must be taken to ensure that each step is carried out correctly. J.J. Scheckel has developed proprietary systems and procedures for these extremely time consuming and complex tasks.

## The SSR Designation

A machine remanufactured by J.J. Scheckel, that carries the "SSR" designation, has all of the major systems and components replaced or restored to as-new condition. J.J. Scheckel's proprietary, performance-driven reman process leaves absolutely nothing to chance. Combining decades of engineering expertise, coupled with a deep, on-site, real-world applications understanding, we produce the exact machine and specifications you need for another economic and useful life cycle. Each remanufacturing contract encompasses the replacement and/or restoration of all major and minor systems and components to like-new condition - at a fraction of the cost of new. And the savings continue as we utilize the existing frame, and bare castings and forging originally manufactured for the machine. If you are considering remanufacturing an existing machine, or are having a hard time justifying a new piece of equipment, give J.J. Scheckel a call. Our combination of experience, innovation, and leading-edge engineering ensures the right solution for you.

*“Scheckel Series Reman... the highest quality, most complete, most detailed reman program anywhere in the world.”*





# J.J. Scheckel Corporation- **World Class Quality**



## Who We Are

J.J. Scheckel is an American-owned small business; we are located in the heartland of America just 2 hours from Caterpillar's world headquarters. We have a dedicated staff located in our Bellevue, Iowa facility that carry out our remanufacturing activities.

Mr. Josh Scheckel (pictured left with wife, Angie) is the founding principal and current CEO of J.J. Scheckel Corporation. J.J. Scheckel Corporation sells, rents, and services construction equipment to companies nationwide. SSR is a separate division created to deliver the world's highest quality remanufactured Caterpillar products available.

*J.J. Scheckel and SSR are not affiliated with Caterpillar Corporate, although J.J. Scheckel does work with a select group of authorized Caterpillar dealers.*

*“ Our highly-trained and experienced reman technicians are experts in the process; these are true craftsmen that care deeply about building quality machines. ”*



*Are you faced with an aging machine?  
Daily loss in production?*



## **Myth**

**A new machine provides the lowest total cost of ownership**

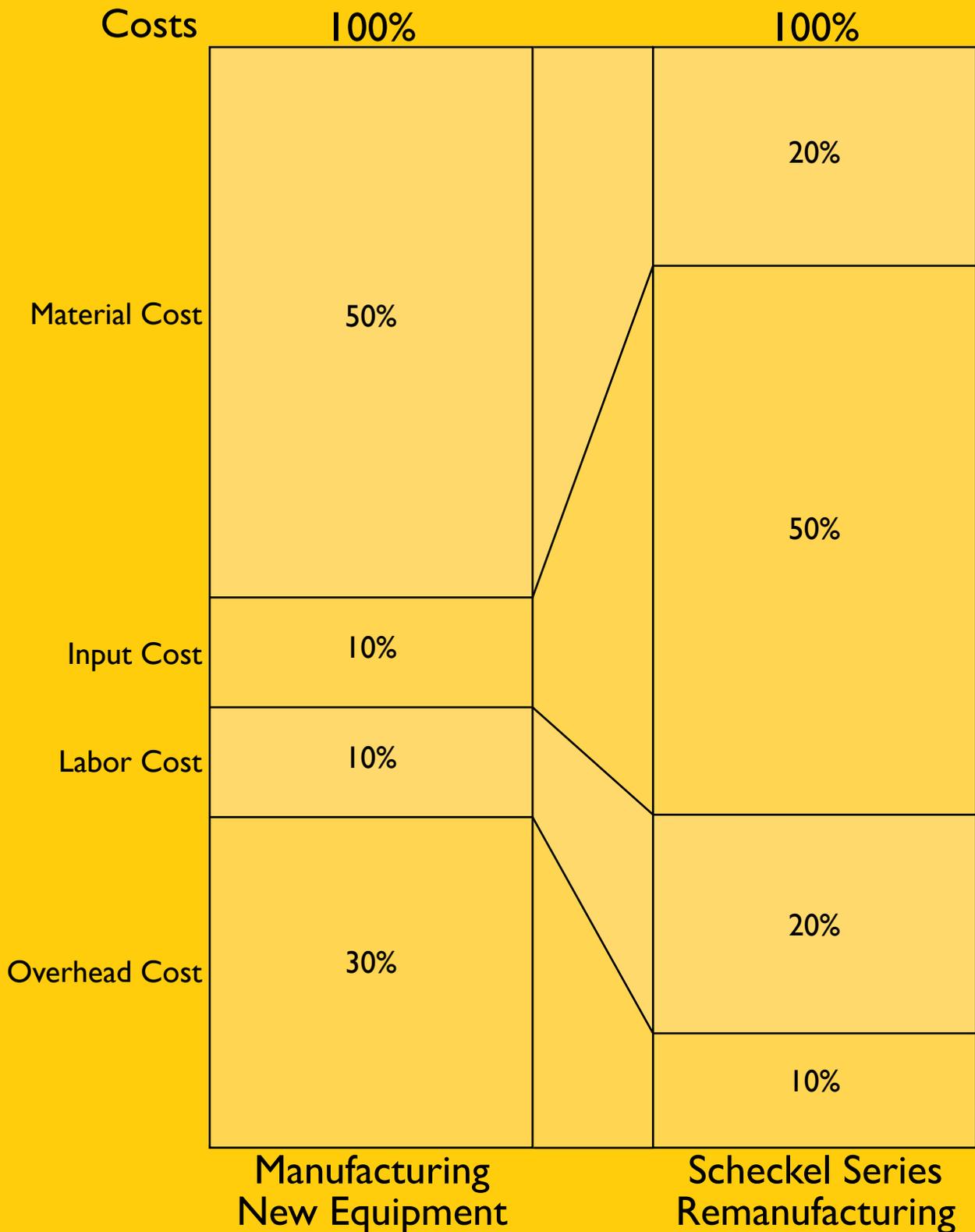
## **Fact**

Remanufacturing will save anywhere from 30 to 50% of the cost of a new machine. You'll save months of profitable production. Remanufacture takes far less time than new machine delivery. You don't need a huge capital outlay in a period of rising economic risk. The money is saved by re-using the original castings and non-wearable items originally manufactured for the machine.

Further savings can be had by segmenting the reman costs on your invoice- your accounting team then may be able to write off up to 90% of the total machine cost as tax deductible, as rebuilding costs can usually be written off as an expense rather than a capital expenditure. We recommend you take the advice of your financial professional regarding this, which may vary based on location.

The lowest total cost of ownership can only be calculated after it happens. We have proven time and again that we can provide better reliability, and better production than a new machine, all while maintaining a lower total cost of ownership.

*Is your machine a maintenance nightmare?  
Are you experiencing downtime?*



*Is a new machine cost prohibitive?  
Are you faced with budget constraints?*



## **Myth**

A new machine provides the best reliability and maximum uptime, over anything else.

## **Fact**

This is true in some cases, in many situations, our claim that we can increase reliability with a SSR reman machine, has been proven time and again.

By remanufacturing a used machine, of a known make and model, that is at the end of its useful life cycle, we have already gained the lifetime history and story of that particular model of machine. We have found out over the first lifetime what has failed, what has not failed, what the weak points have been with a given make and model machine. With this information, we can predict what the second life will look like on the machine. We incorporate all the latest OEM Factory available engineering improvements into the machine, and we go up and above this, and incorporate additional improvements proprietary to J.J. Scheckel.

A new machine, a new design from the factory, has never been proven over a lifetime, it is the new equipment buyer that is at the most risk, they are the test bed for failures.

A new machine's life cycle has to come to an end, before anyone can look back and say what should have been improved upon. No one can engineer an improvement until something fails.

*Want to remain with a machine series that  
has already been proven productive?*



With taking these machines and performing the remanufacturing process on them, we are reversing time, integrating improvements, and the machines are free to live another full life much better than their first.

To keep this simple, refer to your own life, at the end of your life it would be easy to look back and most everybody I know could have changed something to improve their life if only given a second chance. This is impossible in life, we have no second chance, we can't reverse time and change things that have failed for us. With taking these machines and performing the remanufacturing process on them, we are reversing time, integrating improvements, and the machines are free to live another full life much better than their first.



*“ Commitment to the highest level of quality. ”*





# The SSR Advantage

## The Highest Class Reman in the World

### Lowest total cost of ownership.

Our proven cost of ownership simply can not be beat when compared to similar machines. Our business runs efficient; we pass the savings on to our customers. While buying reman, our customers have all the benefits of a new machine at half the cost.

### Same, or better, machine production levels as new.

By operating reman machines over new or used, you will achieve the highest level of production for your money. SSR machines are designed to give the longevity and reliability you would expect from a new machine, while maintaining the very same, or better, production levels. This is achieved by using proven, field-tested machine models to remanufacture, integrated with the latest engineering upgrades available.

### Lower cost than buying a new machine.

Reman machines can be purchased at a much lower cost than new, with more options available on a reman machine than on new. Some options include blade type, along with any rear attachment available, plus many safety and custom options are available. Reman machines represent the best value on the market.

### Environmental.

Remanufacturing helps conserve our natural resources and uses only 20% of the energy needed to manufacture a new product. Core products are put back on the market to achieve another useful life. Besides the cost effectiveness, remanufacturing has very positive environmental impacts.

### Flexible Financing Packages.

We have many buying options to meet our customer's needs. Customers may have prearranged financing in place, if not, we can offer attractive financing or leasing options. Please tell us your requirements, we will work with you to ensure the proper method to meet your needs and goals.

### First Class Warranty.

We believe customers deserve a fast, hassle-free warranty policy. To back up our beliefs, we use franchised Caterpillar dealers to service our warranties. Cat dealers have the specialized tools and knowledge to get you up and running fast. Parts are also available within 24 hours.

# FAQ

## Frequently Asked Questions



What is the main difference between Caterpillar’s “Certified Rebuild” and the SSR reman program?

Both programs are similar, but there are a few different aspects of each. Caterpillar’s “Certified Rebuild” branded machines are done only by franchised Caterpillar dealers. There are few Cat dealers in the world that rebuild machines from the bare frame up on a full-time basis. Rarely are the same technicians used on every rebuild, and the franchised dealer’s extremely high overhead costs get rolled into the machine they are rebuilding.

The SSR Program is carried out by the same technicians, on a full time basis, every day of every year. There is no one in the industry that can rival that. The SSR procedure has been developed into a quality systems magnitude that outperforms all. The SSR Program leaves absolutely nothing to chance; every single part is broken down individually and replaced with new or remanufactured. SSR also documents every machine with hundreds of pictures and data information that is available to all customers. The SSR team is a smaller, more specialized organization, with only one focus- that is to continue building the best reman machines in the world, that ultimately lowers our customer’s owning and operating costs. There is no one company in the world that comes close in terms of value-based pricing. You simply get more for your money with SSR.



*“ The SSR team is a smaller, more specialized organization, with only one focus- that is to continue building the best Reman machines in the world. ”*

**If we order a machine, how long will it take until delivery?**

That depends on the current work load we are encountering. We build machines on a daily basis for stock, most all machines are sold before they are finished. We place orders on a first come, first serve basis. If we don't have a machine in stock, typically a special order will take about 12 weeks to complete.

**Can we trade in a used machine for an SSR machine?**

Yes, we will gladly take trades on any Cat equipment. We especially like to trade in core machines, they help replenish our core supply of machines to start with on the remanufacturing process. We can also start an exchange program with your company, replacing your used SSR machine with a new SSR machine at a set time frame or hour limit.

**How do your warranties work?**

The SSR Warranty is very hassle-free. Upon request, we will send any interested party a copy of the SSR Warranty Policy. If you should purchase a SSR machine, and do encounter a problem, you simply call, fax, or email in a warranty claim to our company. Upon review, we approve your local Caterpillar dealer for immediate repairs to the machine. Scheckel Series Reman will stand behind our customers and the products we build.



# A Brief Overview

## SSR Reman Standard Procedures on CAT Tractors



### Cooling Systems

Every SSR machine built is equipped with brand-new, genuine Caterpillar radiator sections, lines and hoses, no questions asked. This is a standard process that protects your engine. All oil coolers are factory reman with new cores, all current cooling system updates are also performed.



### Torque Converters

All internal torque converter parts are replaced, while the main casting is quality checked to be good as new. You'll have full peace of mind knowing that every moving part has been addressed.



### Steering and Braking Systems

Whether differential steer or clutch/brake system, the components are completely dismantled, and all wearable parts such as bearings, bushings, disks, and seals are replaced with new. The main castings are quality checked to be good as new. After-installation tests ensure the reliability of the steering/braking system.



*“ Clean, Contamination-Free Assembly ”*



### Engines

Every SSR machine has a 100% reman, or new OEM factory engine. Every engine comes with factory run dyno testing reports. The entire arrangement is reman or new, including starters, alternators, turbos, exhaust system, and much more. After final installation, detailed performance reports are also created. This attention to detail ensures that every machine has the reliability and longevity as good or better than new.



*“ World Class Factory Testing on Powertrain Components. ”*

*“ Proprietary engineered upgrades and improvements incorporated into every machine ”*

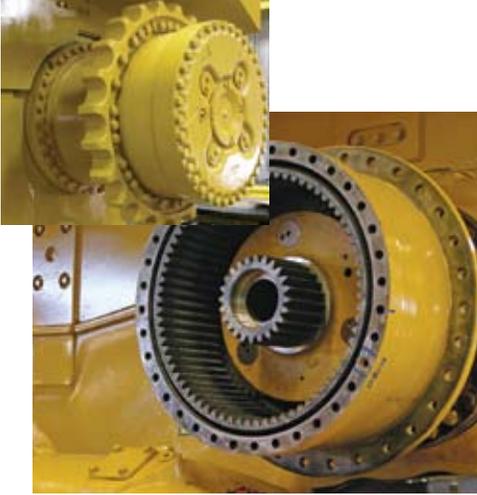


## Undercarriages

Every SSR machine built will use 100% new Cat genuine undercarriage. All bottom rollers, idlers, sprocket segments, rails and pads, and all hardware will be replaced with new. Your complete undercarriage will carry a full warranty serviceable at any franchised Caterpillar dealer in the world. Also, we fully rebuild the track frames to new specs with added upgrades to prevent future problems. All internal adjuster seals are replaced. All major and minor bogie's are magnafluxed for cracks, we install new major and minor bogie pins without question. The equalizer bar and pivot shaft are machined to new specifications regardless of their condition.



*“ We use the highest quality, DuPont Imron polyurethane in our painting process. ”*



## Final Drives

Every SSR machine has remanufactured final drives; the main housing and castings are quality checked and reused if they meet Caterpillar factory guidelines; all gears are x-rayed- anything failing to meet Cat reusability guidelines, or show defects, are replaced with new. All the internal bearings, bushings, and seals are replaced with brand-new, no questions asked. Your final drive components are remanufactured to give the same life and longevity of new OEM units.



## Transmissions

The transmission is completely dismantled, and the main housing and casting are quality checked and reused if they meet Caterpillar factory guidelines. All internal bearings, bushings, disks, and seals are replaced with brand new OEM parts. All tolerances and settings are maintained as new. Machining is performed as necessary on certain hard parts. Gears are x-rayed and checked for reusability guidelines- all failing will be replaced with new. All completed transmissions are bench tested with the latest and most advanced testing equipment available. Every transmission is further performance tested after installation. Your SSR transmission will hold the same reliability, performance, and longevity as new.



## Main Structures

Every SSR machine must meet our reusability guidelines on the main structure. The main frame must be structurally sound. Every frame is sandblasted and penetrate checked for cracks. Critical measurements are also taken to ensure no twisting or bending has developed. Any needed repairs are made by certified welders and craftsmen. All frames undergo a rigorous Electromagnetic and Ultrasonic test in addition. We guarantee every frame to be as good as new. These frames are coated to prevent future rust and corrosion. These remanufactured frames are the solid base of the SSR machine.

*“ All main frames, and any repairs we make, are subjected to Electromagnetic and Ultrasonic Testing to ensure as-new Quality Assurance. ”*



## Hydraulics

Every hydraulic hose on the SSR machine is replaced with brand new, no matter the current condition. All hoses meet or exceed MSHA and OEM specifications. Every seal is also replaced with new. Every hydraulic pump and valve body on the entire machine is completely cleaned, dismantled, tested, measured, rebuilt, or replaced. All hydraulic cylinders have brand new chrome rods, and fully remanufactured barrels. Final system testing is performed to ensure correct pressure settings and performance.



## Electrical Systems

Every SSR machine comes with a new wiring harness. Furthermore, all lights, gauges, and switches, solenoids, sending units, and much more are replaced with new factory components.



## Nuts, Bolts, Linkages

Throughout every SSR machine, you will find new linkage ends, critical bolts and nuts that exceed industry standards, new hardware, and all the very small details addressed. All fasteners are checked with certified torque wrenches, then double checked before the machine leaves our facility.

*“ All castings that we use require liquid dye and dry powder magnetic testing. X-Ray inspections are done on critical gears that are reused. All finished machines are tested, calibrated, and operated extensively. ”*

*“ We use only OEM Genuine Caterpillar parts. ”*



## Operator Stations

With every SSR machine we build, the cab is removed, dismantled, sandblasted, quality checked, and rebuilt with new parts. All gauges, fuses, warning lights, windshield wipers, windows, floor mat, overhead liner, knobs, etc. are replaced with new. Door latches and hinges are also replaced, along with the main cab rubber mounts. The seat and seat suspension are replaced with new regardless of the condition. The air condition and heating system comprise of all new parts for reliability. This reman cab is designed and built to look, feel, and smell like new to keep operators comfortable and productive.



“ We only work with ISO 9001, International Quality Standards, Certified Partners. ”



### 3rd Party Testing

Authorized Caterpillar third party verification and performance testing is carried out on every machine we build. Every component is further tested individually to ensure everything meets Caterpillar specifications. When you purchase and take delivery of your machine, have the peace of mind that it is ready to work.



### Worldwide Logistics

We have sent our machines to every continent in the world, from major multi-national mining companies, to small private contractors locally. No matter how far or close you may be from our facility, we have an experienced logistics team and partners that can deliver these machines on time, every time, anywhere in the world.



2012 Global Iowa Excellence in Exporting Award presented to JJ Scheckel.

### Warranty

Wherever the machines go in the free world, be assured they will be fully covered under our industry leading warranty program. SSR uses only Genuine Caterpillar parts and components throughout our reman program. Authorized Caterpillar dealer technicians carry out all the final testing and setting procedures. That is why the SSR warranty program is serviceable at any Caterpillar dealer in the nation. SSR commissions your local Cat dealer to carry out all warranty claims on the machine you purchase. This strategy has proved effective in minimizing downtime and getting your machine up and running as soon as possible. Should there ever be a warranty claim, have confidence in knowing that it will be handled in an efficient, no-hassle way.

(right, top 3 and middle photos) D11R Reassembly in Australia

(right, bottom 2 photos) D9R Assembly in Africa



*“ Our company employees travel worldwide, to commission and reassemble the reman machines on your job site. ”*





## Custom Options

Customize your machine any way you'd like!

### Custom Options Include:

- Fire suppression systems
- Fabricated handrails and safety platforms
- Special "night-time" lighting package and painting scheme
- High test engulfment windows
- Hydraulic and electric access ladder systems
- Quick fuel systems
- Quick oil systems
- Specific track pad width
- Specific blade type
- Specific rear attachment
- Rear view camera systems
- Add-on bypass oil filtration units
- Custom alarms, signals, and switches
- Emergency shut-off buttons
- Machine specific advanced monitoring systems
- Hydraulic hose covers and shields



*“ Custom outfitting- we can supply any blade type or rear attachment required. ”*



Want more information? Ready to order?  
**Contact us today!**



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*“ [2 D9R Scheckel Series Reman] Dozers on site and assembled, we are very happy with them and would like to extend our appreciation to you and all your team who were involved in the rebuild of these machines. ”*

*Clem Cox, Mineral Deposits, - Grand Cote Operations, Senegal, Africa ~ Photo above*



**Remanufactured  
Caterpillar Equipment**

