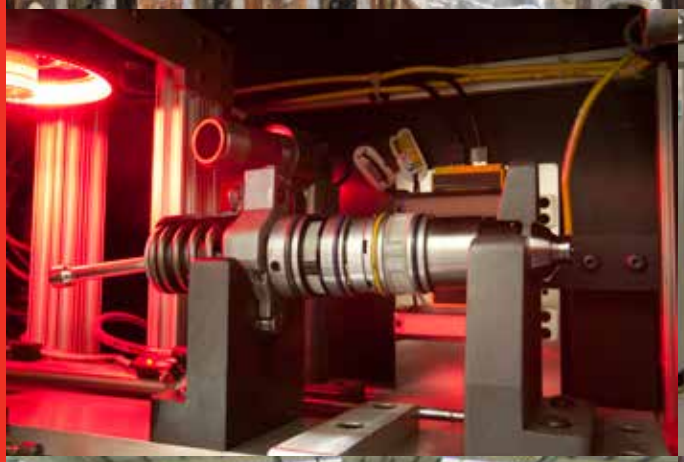
ReCon® Engine Introduction

Reference Handbook for Dealers








Introduction

Welcome to the Cummins ReCon Engine Introduction and Reference Handbook. This guide is designed to give you an overview of Cummins ReCon engine product line, programs that are offered, and direction to specific content regarding ReCon engines. For quick reference to specific guides, search functions, bulletins and primary parts communications, the Helpful Links pages provide easy access.

Cummins offers a full line of remanufactured engines, long blocks and short blocks. A ReCon engine is often the best choice when it is time for a major repair. When a customer has a worn engine and multiple components need to be replaced, consider a Cummins ReCon engine.

When purchasing a ReCon engine, the worn Cummins engine typically has a core value. Considering the exchange price of an engine, along with the reduced downtime to replace rather than repair an engine, as well as the quality and warranty assurances that come with a ReCon engine, replacing the engine just may be the best choice.

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When to Consider a Cummins ReCon Engine

A Cummins ReCon engine is regarded in the marketplace as a high quality alternative to an out-of-frame overhaul. Present the ReCon engine program to your customers with confidence. With a remanufactured option, you can avoid the warranty exposure of doing in-house out-of-frame overhauls.



Consider a ReCon engine when:

- Equipment duty cycle dictates the need for a complete engine out-of-frame overhaul to ensure maximum reliability, durability and performance
- Extensive block, crankshaft or camshaft repair is needed
- Revenue loss from equipment down time needs to be minimized
- Resale value is important to your customer
- Warranty protection is important to your customer
- Extending the life of the equipment is important to your customer

ReCon Engine Features and Benefits

- Reliability and durability are enhanced
- Operating costs are lowered through product upgrades and reduced maintenance
- Upgrades may reduce emissions and improve engine performance
- ReCon engine exchange enhances productivity with rapid equipment turnaround versus repairing or rebuilding options
- Environmental advantages of upcycling the core
- Qualified parts are remanufactured to Cummins factory specifications
- Transfers warranty risk of repairs from distributors to Cummins. The likelihood of errors decrease due to the factory environment, which incorporates a robust set of processes and test procedures
- Service work can be undertaken without investing in costly test equipment or facilities
- Allows distributors to stay in sales dialogue when the cost of new engine is too high

The benefits of using a Cummins ReCon engine are evident. Reduced downtime, improved performance and lower operating costs that come with the superior reliability and durability of a ReCon engine make it a great value. Cummins core return policy gives full value based on visual inspection only, letting your customers know immediately what the core is worth. Your customers don't need to worry about unexpected core bill backs. Getting exchange value for the core makes a Cummins ReCon engine even more affordable compared to repairing or rebuilding.



ReCon Engine Key Selling Points

- Remanufactured to latest Cummins performance specifications for improved performance and fuel economy
- 100% Genuine Cummins new or ReCon parts for highest quality and durability
- Every engine is tested at the Cummins remanufacturing plant before shipping
- Low cost or no cost uprates for more horsepower and newer Cummins engine technology
- No hassle engine core acceptance based on a simple visual inspection with no disassembly and no surprise bill backs
- Fast turnaround gets your customers back on the job and frees your service bays from costly machine shop delays
- The best warranty in the business, backed by the largest and best independent service network in the world



Sustainability and Environment

Among Cummins values, Corporate Responsibility is an important part of our business. ReCon products give us the opportunity to make an environmental impact, as well as offer products with superior quality and reliability.

Environmental Impact

- Each year, 50 million pounds of core are reclaimed, which avoids 200 million pounds of greenhouse gases to manufacture new parts
- 85% less energy is required in remanufacturing a ReCon engine
- 85% of an engine can be remanufactured
- Cummins has been named to Dow Jones Sustainability Index for 8 consecutive years



How the Remanufacturing Process Works

- Complete disassembly, cleaning and inspection of every part
- Remanufacturing and testing to verify that every engine meets Cummins factory specifications
- Replacing worn parts and components that are obsolete (in materials, design or manufacture) with Genuine Cummins parts

Cummins is the only authorized remanufacturer of Cummins engines. In the remanufacturing process, the incoming core is completely disassembled, down to the last bolt and sorted by part number. The individual parts are cleaned using the latest technology, which removes debris without removing any metal. Other remanufacturers may use abrasive cleaning systems that literally eat away the metal.

Every part is inspected using sophisticated equipment. Only parts that can be restored to Cummins specifications are used in the remanufacturing process. Parts that are not made of metal, such as rubber products and components that contain fabric elements, and parts that are worn out, are replaced with Genuine Cummins components. Our strict adherence to specifications, wear limits and salvage processes produces a remanufactured engine with performance characteristics comparable to a new engine.

Remanufacturing is good from an environmental standpoint. Instead of sending tons of metal to landfills and the scrap heap, we're recycling and reusing resources. Each time core is returned, the result is lower operating costs and a cleaner environment.



Customer Testimonial

Cummins ReCon Engine Extended Trade Cycle Program Video
Watch how your customers can save money on updating their fleet through a ReCon Engine Extended Trade Cycle program. A Cummins customer at Eagle Transport talks about how they benefited from this program by saving money while growing their business. When their fleet trucks were getting close to their scheduled trade cycle, Eagle Transport chose ReCon engines to add more life to their fleet at a reduced cost versus buying new trucks. At the same time, they added to their fleet's resale value. Cummins Atlantic worked closely with the client and offered a customized program to fit their unique needs, backed with the best-in-class warranty and nationwide Cummins support.



http://player.piksel.com/player.php?v=pavb234d

Sales and Marketing Tools

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Videos and Presentations

ReCon Engine Sales Presentation
This presentation offers an introduction to Cummins ReCon engines. The range of ReCon engines offered, core and remanufacturing processes, warranty and coverage programs and the benefits of choosing a Cummins ReCon engine can all be found here.



Cummins ReCon Reference Guide
This presentation provides an overview of the Cummins ReCon products that we offer and what makes them a great value compared to other engine repair options.



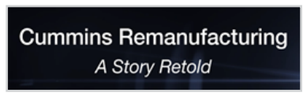
Cummins ReCon Engine Video
Get an inside view of what the ReCon engine remanufacturing process looks like inside a Cummins remanufacturing facility.



Remanufacturing Process (cumminsgenuineparts.com)
An interactive guide through the steps taken in the Cummins remanufacturing process.

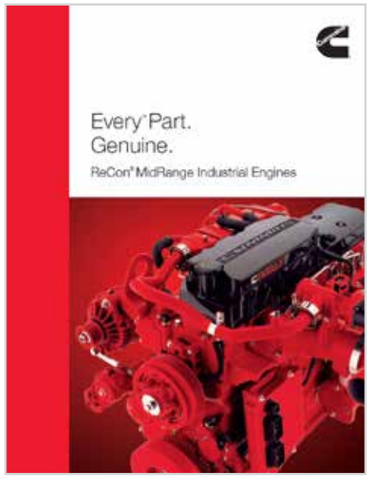


Cummins Remanufacturing: A Story Retold Video
An in-depth explanation of how Cummins remanufacturing works and why it offers superior quality, reliability and the best value for your customers.



Note: These videos and presentations can be found in the ReCon tab under Parts on QuickServe Online.

Flyers and Brochures



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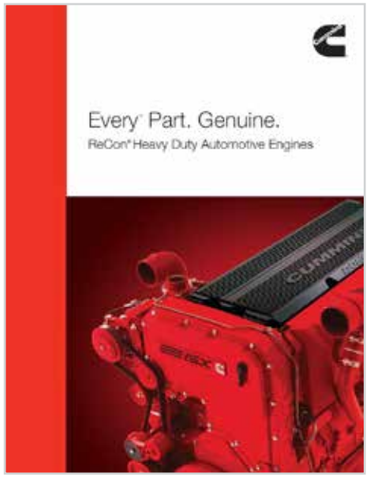

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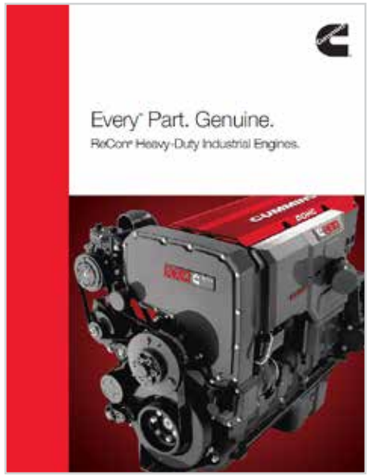

Bulletin Number: 4081448



Bulletin Number: 4081677

Note: Additional flyers and brochures can be found in the ReCon tab under Parts on QuickServe Online.

Advertisements and Posters













Note: These advertisements and posters can be found in the ReCon tab under Parts on QuickServe Online.

Notes

Engine and Product Line Information

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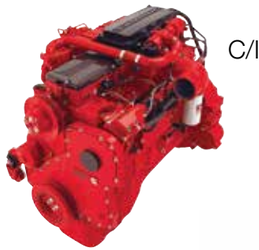
ReCon Engine Product Line

Cummins offers a full line of remanufactured engines, long blocks and short blocks. The tables on the following pages shows the product content of ReCon engines from the 4B to the QSK19. Each order is unique, and there could be differences based on the engine specifications.



B/ISB/QSB



C/ISC/QSC/ISL/QSL



NH/N14



ISM/QSM



ISX/QSX



K19/QSK

Extensive Product Line Coverage

The following is a high level view of the applications that are served by the product line. Your local Cummins parts professional or ReCon specialist can help you determine the exact engine, long block or short block you need for your customer's vehicle or equipment.

Engine Family	Automotive	Industrial	Generator	Marine	Rail
4B	✓	✓	✓	✓	
6B	✓	✓	✓	✓	
6C	✓	✓	✓	✓	
ISB/QSB	✓	✓		✓	
ISC/QSC	✓	✓		✓	
ISL/QSL	✓	✓			
L10	✓	✓	✓		✓
M11	✓	✓	✓		
ISM/QSM	✓	✓	✓	✓	
NH/NT	✓	✓	✓	✓	✓
N14	✓	✓	✓		
ISX/QSX	✓	✓	✓		
K19/QSK19		✓	✓	✓	✓

Cummins is committed to expanding our product line in order to support our customers. To view our newest product releases, please contact your local distributor.

ReCon Engine and Block Standard Content

ReCon Short Blocks

Even greater savings are available when all your customer needs is a Cummins ReCon short block. A short block is typically used when an engine has block damage, there is no oil contamination and the cylinder head can be reused. While it has the same manufacturing quality, fewer components are included.

The table below shows the product content of our short blocks. Consider this to be general information; there could be different content depending on the specification of the short block.

Engine Family	Cylinder Block	Crankshaft	Connecting Rods	Pistons & Rings	Cylinder Liners
4B/ISB/QSB3.9	✓	✓	✓	✓	N/A
ISB/QSB4.5	✓	✓	✓	✓	N/A
6B/ISB/QSB5.9	✓	✓	✓	✓	N/A
ISB/QSB6.7	✓	✓	✓	✓	N/A
6C/ISC8.3	✓	✓	✓	✓	✓
ISL/QSL8.9	✓	✓	✓	✓	✓
M/ISM/QSM11	✓	✓	✓	✓	✓
N14	✓	✓	✓	✓	✓
ISX/QSX12	✓	✓	✓	✓	✓
ISX/QSX15	✓	✓	✓	✓	✓

ReCon Long Blocks

A Cummins ReCon long block is a high quality alternative to purchasing a full engine, allowing the customer to save money by using a greater portion of the existing components.

In the remanufacturing process of long blocks:

- All worn parts are replaced with Genuine Cummins parts
- Parts not replaced are inspected and tested to verify their integrity
- Electromagnetic particles are used to inspect the block, crankshaft and camshaft for cracks
- The bore is limited to a maximum second oversize

The next table shows the product content of our long blocks. A long block contains more parts than a short block but is not a complete engine. The table contains general information; contents of a long block may vary by specifications.

ReCon Engine and Block Standard Content

MidRange ReCon Long Blocks

Product Content	4B 3.9 6B 5.9	ISB/QSB 3.9	ISBe 3.9	ISB/QSB 4.5	ISB/QSB 5.9	ISB/QSB 6.7	6C 8.3	ISC/QSC 8.3	ISL/QSL 8.9
Cylinder Block	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crankshaft	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connecting Rods	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camshaft	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pistons and Rings	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cylinder Head	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil Pan	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil Cooler	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lube Pump	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermostat Housing	✓	✓	✓	✓	✓	✓	✓	✓	✓
Valve Cover	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water Pump	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rocker Lever Assemblies	✓	✓	✓	✓	✓	✓	✓	✓	✓
Injectors*		✓	✓	✓	✓	✓		✓	✓
Flywheel Housing			✓	✓		✓			
Cylinder Liners							✓	✓	✓
Push Tubes	✓						✓		
Rear Crankshaft Cover	✓	✓		✓	✓	✓	✓	✓	✓
Rear Gear Housing			✓			✓			
Tappets	✓						✓		

Heavy-Duty ReCon Long Blocks

Product Content	M/ISM/QSM 11	N14	N14 STC	ISX/QSX 12/15
Cylinder Block	✓	✓	✓	✓
Crankshaft	✓	✓	✓	✓
Connecting Rods	✓	✓	✓	✓
Camshaft	✓	✓	✓	✓
Pistons and Rings	✓	✓	✓	✓
Cylinder Head	✓	✓	✓	✓
Oil Pan	✓	✓	✓	✓
Oil Cooler	✓	✓	✓	✓
Lube Pump	✓	✓	✓	✓
Thermostat Housing	✓	✓	✓	✓
Valve Cover	✓	✓	✓	✓
Water Pump	✓	✓	✓	✓
Rocker Lever Assemblies	✓	✓	✓	✓
Injectors*	✓	✓	✓	✓
Flywheel Housing	✓			✓
Cam Followers	✓	✓	✓	✓
Cylinder Liners	✓	✓	✓	✓
Push Tubes	✓	✓	✓	
Rear Crankshaft Cover	✓	✓	✓	
Rear Gear Housing	✓			✓

*Product content differs. Please refer to QuickServe Online to verify option content before ordering.

ReCon Engine and Block Standard Content

MidRange ReCon Engines

Product Content	4B/6B/6C	ISB/QSB 3.9/5.9	ISB/QSB 4.5/6.7	ISC/QSC ISL/QSL 8.3/8.9
Cylinder Block	✓	✓	✓	✓
Crankshaft	✓	✓	✓	✓
Cylinder Head	✓	✓	✓	✓
Connecting Rods	✓	✓	✓	✓
Camshaft	✓	✓	✓	✓
Pistons and Rings	✓	✓	✓	✓
Injectors	✓	✓	✓	✓
Fuel Pump	✓	✓	✓	✓
Fuel Lines	✓	✓	✓	✓
Oil Pan	✓	✓	✓	✓
Oil Cooler	✓	✓	✓	✓
Lube Pump	✓	✓	✓	✓
Thermostat Housing	✓	✓	✓	✓
Turbocharger	✓	✓	✓	✓
Valve Cover	✓	✓	✓	✓
Water Pump	✓	✓	✓	✓
Exhaust Manifold	✓	✓	✓	✓
Wiring Harness	N/A	✓	✓	✓
ECM	N/A	✓	✓	✓
Flywheel Housing			✓	

*Product content differs. Please refer to QuickServe Online to verify option content before ordering.

Use the ReCon Engine Product Line Data – CPL Lookup to search for short and long blocks by CPL.

Heavy-Duty and High-Horsepower ReCon Engines

Product Content	LTA 10	LTAA 10	M11	ISM/QSM 11	BC14	N14	N14 STC	ISX/QSX 12/15	K19	QSK19
Cylinder Block	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crankshaft	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cylinder Head	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Connecting Rods	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camshaft	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pistons and Rings	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Injectors	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fuel Pump	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fuel Lines	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil Pan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil Cooler	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lube Pump	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Thermostat Housing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Turbocharger	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Valve Cover	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water Pump	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Exhaust Manifold	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wiring Harness	N/A	✓	N/A	✓	N/A	✓	N/A	✓	N/A	✓
ECM	N/A	✓	N/A	✓	N/A	✓	✓	✓	N/A	✓
Flywheel Housing	✓	✓	✓	✓				✓	✓	✓

Finding the ReCon Engine that Fits Your Customers' Needs

Whenever dealers are presented with an opportunity to sell ReCon engines and are trying to look for the right engine that fits their customers' needs, the following are the steps that they can take (arranged in order; high level only):

Review Product Line Information on QuickServe Online

Dealers can find and review the complete bill of materials for every ReCon engine on QuickServe Online. Please see the "How to Spec a ReCon Engine" training which is also available on QSOL to help navigate the product line information. Please see page 47 of this document for further details on navigating QSOL.
If there is no similar ReCon engine replacement available, contact your local distributor to evaluate if a new part number can be released.

Release a New Part Number

Releasing a new part number is an option that dealers may explore. However, the process considers multiple variables and may take up to 90 days to make the engine's part number orderable. Lead times may vary per engine. To initiate this request, contact your local distributor.

Maximizing ReCon Engine Sales

Cummins has a large portfolio of ReCon engines that are stocked in order to fulfill the needs of our customers. Over 1,000 low volume configurations are also available on a made-to-order basis. One of the biggest value propositions is availability - for this reason, it is important to maintain inventory of ReCon engines, long block and short blocks.

The following are major considerations when managing ReCon engines stocking (most are interrelated):

1. **Anticipating Lead Times** - Popular engine models are normally stocked at the parts distribution centers and select distributor locations and should be available with short lead times. However, given the volatility of market dynamics (demand for finished goods and supply of raw materials), there is always the possibility of a lengthier than normal lead time. For engine models that have lower volume and cater to specific markets/customers, the lead time is typically 90 days (and in some cases, can be as many as 180 days). Due to the complexity of anticipating lead times, it is critical for dealers to identify which engines are best to stock to increase the opportunity of a sale and to best support customers.

2. **Determining Stocking Levels** - To determine stocking levels, consider balancing factors such as lead times, order quantities based on historical customer orders, frequency of receiving orders, agreements with customer for engine supply service levels, warehouse capacity and financial exposure/capability.

As the objective is to maximize engine sales, there will always be a need to stock engines.

Important to Note

The Following Parts are NOT Included on ReCon Base Engines

Except where noted, parts that make the engine application unique are not included on a Cummins ReCon exchange engine. The included parts are easily transferred from the core. This list of excluded parts may include:

- Fan
- Fan hub and bracket
- Breathers (air compressor, governor and crankcase)
- Water outlet connection
- Corrosion resistor (included on C Series engines)
- Hand hole cover (except when used for turbocharger drain)
- Oil filler tube and cap
- Fuel filter and bracket (included on NBCIV, 88NT, B and C Series engines)
- Throttle lever
- Belts
- Electrics system (starters and alternators)
- Dipstick and tube
- Flywheel and housings (flywheel housing is included on some models)

Always confirm the complete bill of material on QuickServe Online and compare to your customer's Engine Serial Number prior to ordering to ensure a smooth installation.







Warranty

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“Best Warranty in the Business”



As you would expect, Cummins ReCon engines come with a full warranty that is honored at every authorized Cummins service location worldwide. The terms vary according to the application and the engine platform. Our industrial engine warranty includes travel to the repair location.

Cummins ReCon engine warranty covers parts, labor, progressive damage, maintenance items damaged by warrantable failures and travel for industrial applications.

The warranty start date for all ReCon engines is typically the date of installation. On customer inventory stock engines, which are purchased by a customer for later installation, the warranty start date is three years after the date of purchase or the date of installation, whichever occurs first.

Remember that one of the advantages of ReCon engines is the warranty that goes with the product - not only is it the best in the industry and the same as a new Cummins engine’s warranty, it is a warranty for the entire engine and not per component or repair completed.

For the most current and up-to-date warranty information, refer to QuickServe Online.

Industrial Travel: Cummins will pay reasonable costs for mechanics to travel to and from the industrial equipment site. Covered items include: meals, mileage and lodging when the repair is performed at the site of the failure. All labor is paid in accordance with Cummins published guidelines.

See specific warranty certificates for full warranty details.

Parts/Kits installed by distributors are covered by base engine warranty if the following criteria are met:

1. The parts/kits were purchased from Cummins, and
2. The parts/kits would have been covered by base engine warranty had Cummins installed them, and
3. The parts/kits were installed before delivery of the engine to the first user, and
4. Modification forms are submitted and all modification fees are paid for the engines that have changed configuration as a result of the installation of the subject parts/kits.

Warranty Coverage by Engine Family

Automotive	Months	Mileage/Kilometers
4B Series	24	50,000/80,468
6B/ISB Series	24	100,000/160,935
6C/ISC/ISL Series (< 225hp)	24	Unlimited
6C/ISC/ISL Series (> 225hp)	24	100,000/160,935
MidRange Long Blocks	12	50,000/80,468
MidRange Short Blocks	6	Unlimited
ISX Engines	24	200,000/321,870
N/ISX/L/M11/ISM Engines, Long and Short Blocks	12	100,000/160,935

Industrial	Months	Hours
All Engines*	24	2,000
MidRange Long Blocks**	12	1,000
MidRange Short Blocks	6	Unlimited
Heavy-Duty Short and Long Blocks**	12	1,000

*For industrial applications, if the 2,000 hour limit is exceeded during the first year, coverage continues until the end of the first year.

**Long block industrial travel for warranty covers up to 4 hours only.

Important Notes

- Generally, natural gas engine coverages are the same as their diesel counterpart.
- For the most up-to-date and current warranty information, please refer to QuickServe Online: Warranty Administration Manual
- The warranty terms described within these pages are correct at time of publication and are subject to change without notice. Exceptions may apply. Review warranty bulletins for more details.

Engine Extended Coverage Programs

Your customers can purchase and register extended coverage up to 18 months or before the expiration of the base engine warranty, whichever occurs first from the Date-In-Service (DIS). This provides the flexibility customers demand and showcases our confidence in our products as well as our commitment to standing behind them.

Guidelines and Rules

- Coverage registered before 365 days from DIS has no administrative fee.
- Coverage registered after 365 days, and before 546 days, has a $400 administrative fee.
- No coverage will be allowed after 545 days from DIS or base warranty expiration.
- All administrative fees associated with the extended coverage programs are subject to change without notice. All administrative fees are per certificate per engine.
- Automotive guidelines are 18 months or 200,000 miles (321,869 km), whichever occurs first.
- Industrial base warranty continues for 2 years or 2,000 hours of operation, whichever occurs first. If the 2,000 hour limit is exceeded during the first year, base warranty continues until the end of the first year. Extended coverage is only available to purchase within the designated period.

As many of these extended programs will mean an increase in the cost to your customers, we encourage you to have them purchase all extended coverage programs at the time of engine purchase. Additional information can be found by viewing the Registration Quick Reference Guide.

For complete details on Cummins ReCon Engine Extended Coverage programs, please contact your local distributor. Cummins offers a broad array of coverage plans that include all applications. Each protection plan offers multiple coverage times, allowing you to serve all of your customers.

Important Notes

- Pricing and programs subject to change. Please review the Circuit website for the latest information.
- Check Circuit, QuickServe Online or the Warranty Administration Manual for applicable base warranty information for specific applications.
- Contact your local distributor for training on Extended Coverage Warranty.

ReCon Engine Extended Coverage

ReCon On-Highway Protection Plan I - MD and HD Truck												
Program ID P1R Bulletin 4081755	4B/6B/ISB			C/ISC/ISL			N14, M11, L10, ISM, ISX			N14, M11, L10, ISM, ISX		
Years	3			3			3			2		
Miles	100,000			100,000			200,000			200,000		
Kilometers	160,935			160,935			321,869			321,869		
Matrix	83411			83411			83420			83420		
ReCon On-Highway Protection Plan II - MD and HD Truck												
Program ID P2R Bulletin 4081756	4B, 6B, ISB			C, ISC			ISL			N14, M11, L10, ISM, ISX		
Years	4	5	5	4	5	5	4	5	5	3	4	5
Miles	150,000	200,000	300,000	150,000	200,000	300,000	150,000	200,000	300,000	300,000	400,000	500,000
Kilometers	241,402	321,869	482,804	241,402	321,869	482,804	241,402	321,869	482,804	482,804	643,738	804,672
Matrix	83511			83511			83511			83520		
ReCon School Bus Coverage												
Bulletin 3605912 Bulletin 3385468	6B/ISB and C/ISC											
Years	5	5		5	7		5	5		5	5	
Miles	150,000	200,000		Unlimited	150,000		150,000	200,000		Unlimited		
Kilometers	241,402	321,869		Unlimited	241,402		241,402	321,869		Unlimited		
Program ID	REC	REC		REC	REC		RXC	RXC		RXC		
Matrix	82211	82211		82211	82211		83311	83311		83311		
ReCon Transit Bus Coverage												
Bulletin 3381312	4B, 6B, C/ISC, ISL, L10, M11, ISM											
Years	5			5			5			5		
Miles	200,000			300,000			400,000			500,000		
Kilometers	321,869			482,804			643,738			804,672		
Program ID	RTB			RTB			RTB			RTB		
Matrix	80111			80111			80111			80111		
ReCon B and C Gas Plus Transit - Shuttle - Coach												
Bulletin 3381312	B and C Gas Plus											
Years	5						5					
Miles	200,000						300,000					
Kilometers	321,869						482,804					
Program ID	RWB						RWB					
Matrix	81112						81112					
ReCon RV and Fire Truck Coverage												
Bulletin 3381368	ISB, ISC, ISL, ISM, ISX											
Years	5						5					
Miles	150,000						200,000					
Kilometers	241,402						321,869					
Program ID	FTR						FTR					
Matrix	70111						70111					
ReCon Marine Extended Coverage												
Bulletin 4082072 Bulletin 4082073	4B/6B/QSB			C/ISC			QSM, N14			K19, QSK19		
Years	3	3	5	3	3	5	3	3	5	3		
Hours	7,500	10,000	12,000	7,500	10,000	12,000	7,500	10,000	12,000	10,000		

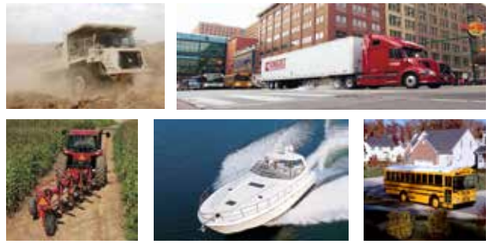
$100 deductible charge per service visit for all engines of less than 3.9 liter displacement
$200 deductible charge per service visit for all engines of 3.9 liters and above but less than 19 liter displacement
$300 deductible charge per service visit for all engines of 19 liters or more displacement

*Al Extended Coverage Program details, pricing and availability are subject to change - BE SURE TO REVIEW CIRCUIT FOR THE LATEST INFORMATION.

ReCon Encompass for Industrial Applications

The Cummins ReCon Encompass Industrial Plan offers extend coverage programs for 4B to QSK19 engines used in the following applications:

- Construction
- Mining
- Logging
- Agriculture
- Rail
- Power units
- G-drive standby or prime power



Cummins ReCon Encompass Industrial Protection Plan Details:

- Parts only, Parts and Labor, or Parts, Labor and Travel options are available for Cummins ReCon engines
- Coverage excludes all accessories that bear the name of another company and all maintenance components after the end of the third year (second year for K19 engines)
- Maintenance components excluded from coverage include but are not limited to: fuel injectors, fuel pump, turbocharger, air compressor, fan clutch, water pump, fan hub, fan idler pulley assembly, vibration damper, belts, hoses, belt tensioner and thermostat
- Maximum coverage for all engine models used in forestry/logging applications will be 3 years/unlimited hours
- Deductible applies per service visit after expiration of the base warranty
- Cummins extended coverage programs can be purchased and registered up to 18 months or before the expiration of the base engine warranty, whichever occurs first from the Date-In-Service (DIS). Coverage purchase must be documented on a Cummins Customized Assurance Plan Certificate. The certificate must be signed and dated by the customer.
- For complete coverage details, see legal descriptions in:
  - Bulletin 3624422 (parts only)
  - Bulletin 3624423 (parts and labor only)
  - Bulletin 3624424 (parts, labor and travel)

For questions on filing claims, contact Cummins Worldwide Claims Management.

ReCon Encompass for Industrial Applications

B3.9, B4.5, QSB4.5								
Years	2	3	4	5	5	5	7	7
Hours	Unlimited	Unlimited	Unlimited	Unlimited	2,000	6,000	2,000	6,000

Programs	Matrix Number	Program ID
Parts (Bulletin 3624422)	81711	RC1
Parts/Labor (Bulletin 3624423)	81811	RC2
Parts/Labor/Travel (Bulletin 3624424)	81911	RC3

B5.9/QSB/B6.7								
Years	2	3	4	5	5	5	7	7
Hours	Unlimited	Unlimited	Unlimited	Unlimited	2,000	6,000	2,000	6,000

Programs	Matrix Number	Program ID
Parts (Bulletin 3624422)	81790	RC1
Parts/Labor (Bulletin 3624423)	81890	RC2
Parts/Labor/Travel (Bulletin 3624424)	81990	RC3

C8.3, QSC								
Years	2	3	4	5	5	5	7	7
Hours	Unlimited	Unlimited	Unlimited	Unlimited	2,000	6,000	2,000	6,000

Programs	Matrix Number	Program ID
Parts (Bulletin 3624422)	81711	RC1
Parts/Labor (Bulletin 3624423)	81811	RC2
Parts/Labor/Travel (Bulletin 3624424)	81911	RC3

L10, QSL, QSM								
Years	2	3	4	5	5	5	7	7
Hours	Unlimited	Unlimited	Unlimited	Unlimited	2,000	6,000	2,000	6,000

Programs	Matrix Number	Program ID
Parts (Bulletin 3624422)	81720	RC1
Parts/Labor (Bulletin 3624423)	81820	RC2
Parts/Labor/Travel (Bulletin 3624424)	81920	RC3

NT/NH, N14, QSX								
Years	2	3	4	5	5	5	7	7
Hours	Unlimited	Unlimited	Unlimited	Unlimited	2,000	6,000	2,000	6,000

Programs	Matrix Number	Program ID
Parts (Bulletin 3624422)	81720	RC1
Parts/Labor (Bulletin 3624423)	81820	RC2
Parts/Labor/Travel (Bulletin 3624424)	81920	RC3

K19, QSK19								
Years	2	3	4	5	5	5		
Hours	Unlimited	Unlimited	Unlimited	2,000	6,000	10,000		

Programs	Matrix Number	Program ID
Parts (Bulletin 3624422)	N/A	N/A
Parts/Labor (Bulletin 3624423)	81806	RC2
Parts/Labor/Travel (Bulletin 3624424)	81906	RC3

Core Details

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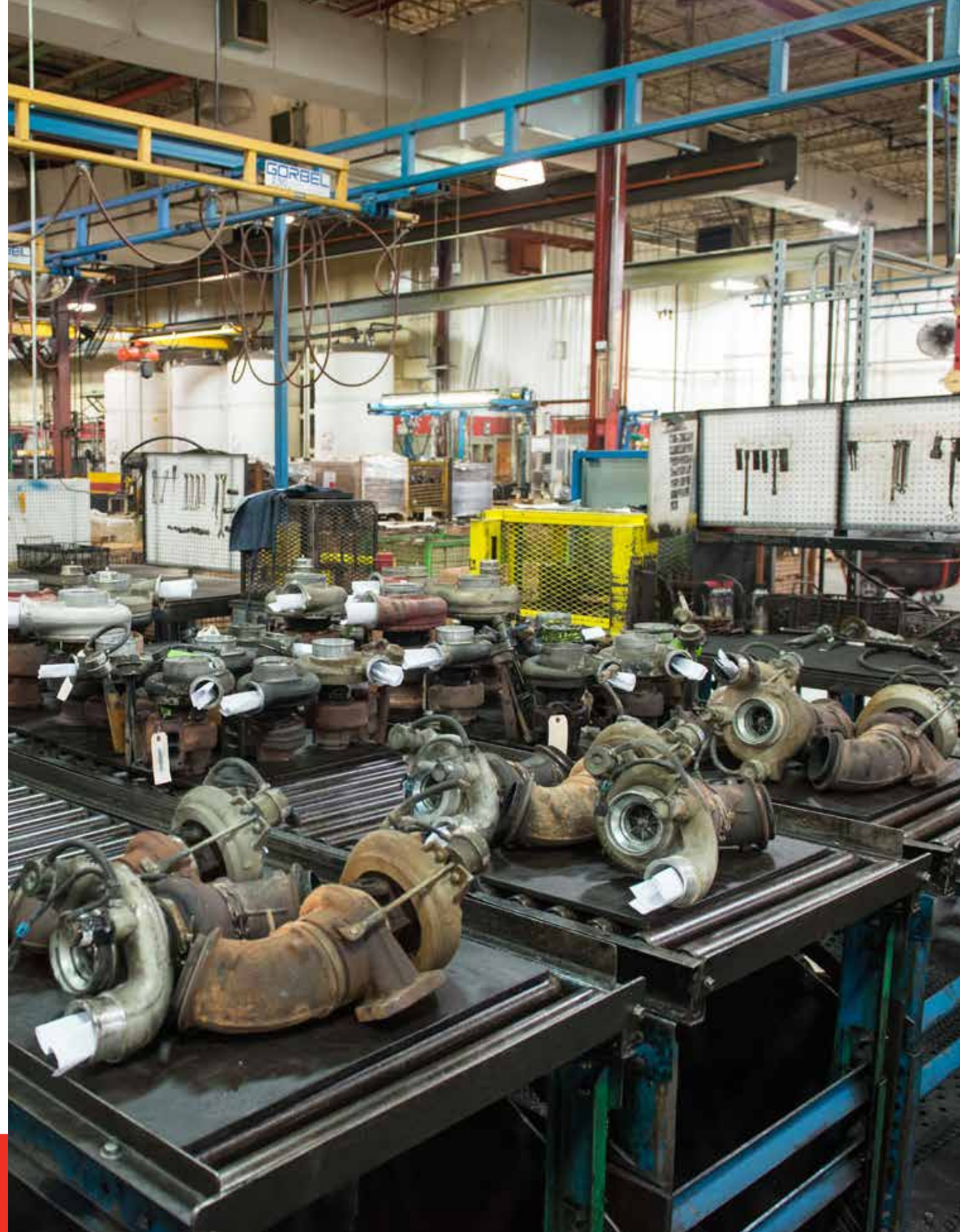

Core Inspection Procedures

Engine components are visually inspected to current component core acceptance criteria. Cummins ReCon engine core acceptance is based on external inspection only. Refer to the ReCon Core Acceptance Handbook for full acceptance procedures and guidelines.

- Each engine core is externally inspected to assure that it is complete and the castings are not visibly cracked or broken
- Missing and damaged components will be invoiced at established core prices. Contact your local distributor for more details
- Additional fees are charged for:
  - Visibly broken or patched and welded blocks
  - Cylinder heads visibly damaged based on external visual inspection prior to disassembly
  - Metal skids not returned
  - Missing components (turbocharger, fuel systems, etc.)
- Core is acceptable without additional billing if core inspection indicates the following:
  - Core is out-of-frame and complete with applicable component parts or any acceptable uprate
  - Core is not damaged by non-operational causes such as rust, rough handling or fire
- Engines, short blocks and long blocks will be shipped on skids specifically designed by Cummins, and cores should be returned on the same skids
- Oil pan should be free from all oil and fluids, except for normal drainage that occurs during shipment. Core that does not meet the “Dry Engine” core acceptance standard will be invoiced an additional fee
- Incorrectly applied parts are defined as those components that were never applied on the engine model being returned. Incorrectly applied parts discovered during the visual inspection will be invoiced
- It is not necessary to remove the oil pan to inspect the crankshaft or connecting rods

Note: Additional billing is established at the time of inspection based on missing or damaged parts, fluids and current engine pricing policy.

Core Handbook is also available for reference.

Core Shipping and Return

The majority of core rejections are due to rough handling and improper packaging. Our core is a large investment and affects the sustainability of the ReCon product line.

For the most complete and up-to-date information on core and charges related to core, refer to the Core Handbook located on QuickServe Online.

For detailed shipping instructions and examples of required labels/tags, contact your local distributor for the current requirements.



Training

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Available Training

Parts Pro 35: Cummins ReCon Engines

Parts Pro 35 offers training on when a Cummins ReCon engine should be considered and highlights the advantages of using a ReCon engine. An introduction to QuickServe Online and regional information is also provided.



Parts Pro 37: Facilitating the Sale of Genuine Cummins Products

Parts and service counter personnel are the face of Cummins. We rely on you to establish and grow our customer base by solving customer problems and building a lasting customer relationship. It is critical to keep our customers happy and loyal.



Parts Pro 53: ReCon Core Processing

Parts Pro 53 gives an introduction to core, core processing steps, policies and the importance of core to ReCon engines.



How to Spec a ReCon Engine

A walk through guide that details how to obtain ReCon engine specifications on QuickServe Online.



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Support and FAQs

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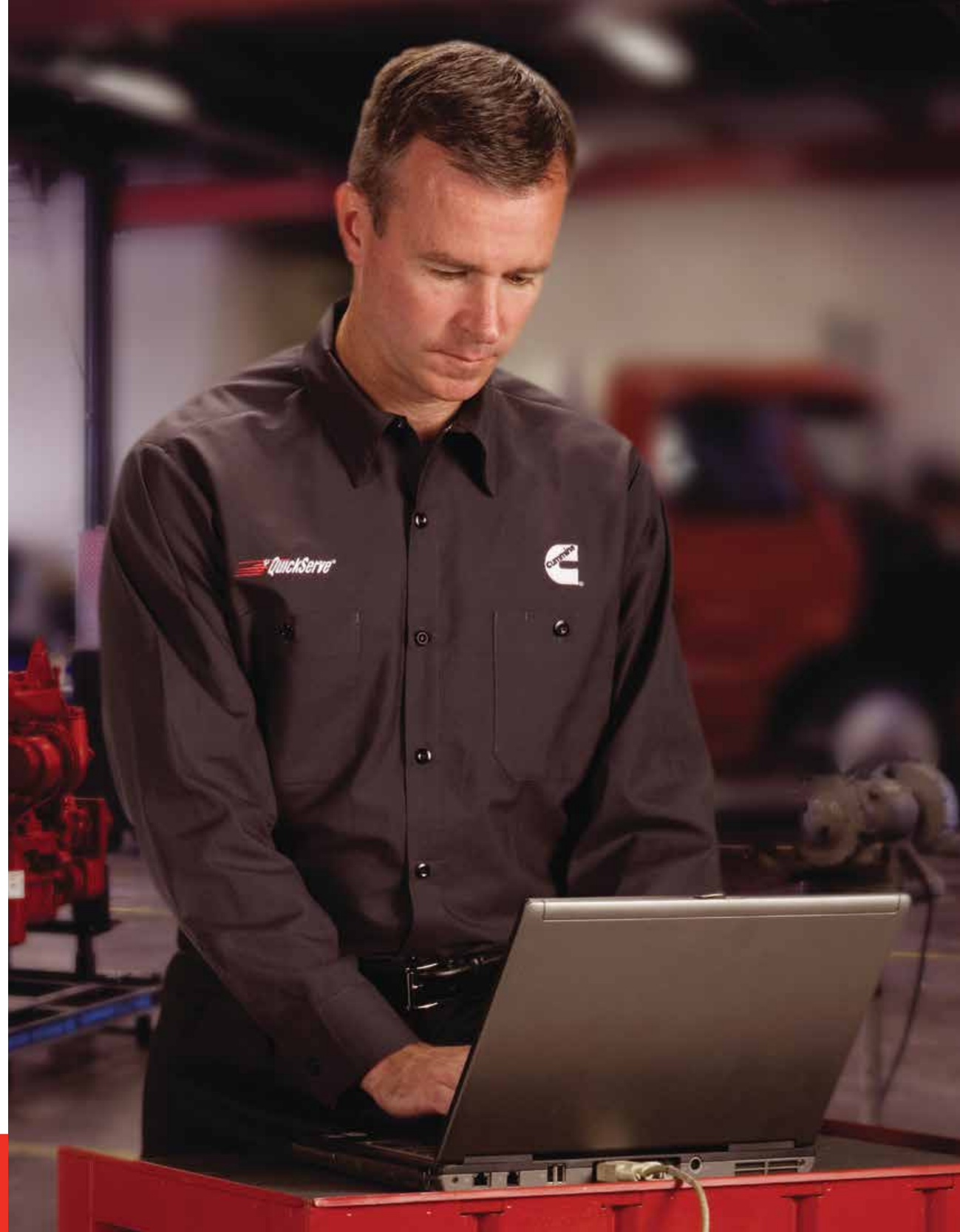


QuickServe Online

QuickServe Online (QSOL) is an excellent, up-to-date source for the latest Cummins ReCon engine information.

QSOL includes complete engine build data:

- Option part detail
- Special configurations
- New and ReCon parts used in ReCon engines



To find the best ReCon engine part number for your customer's engine:

- Type in the Engine Serial Number (ESN) you want to exchange
- Find the Fuel Rating Number
- Click on *ReCon Engines & Parts*
- Click on *Option Inquiry*
- Type in the Fuel Rating Number
- ReCon engine part numbers to consider will be listed

Special tools are available to help you pick the best ReCon engine model:

- QuickServe Online
- How to Spec a ReCon Engine on QuickServe Online

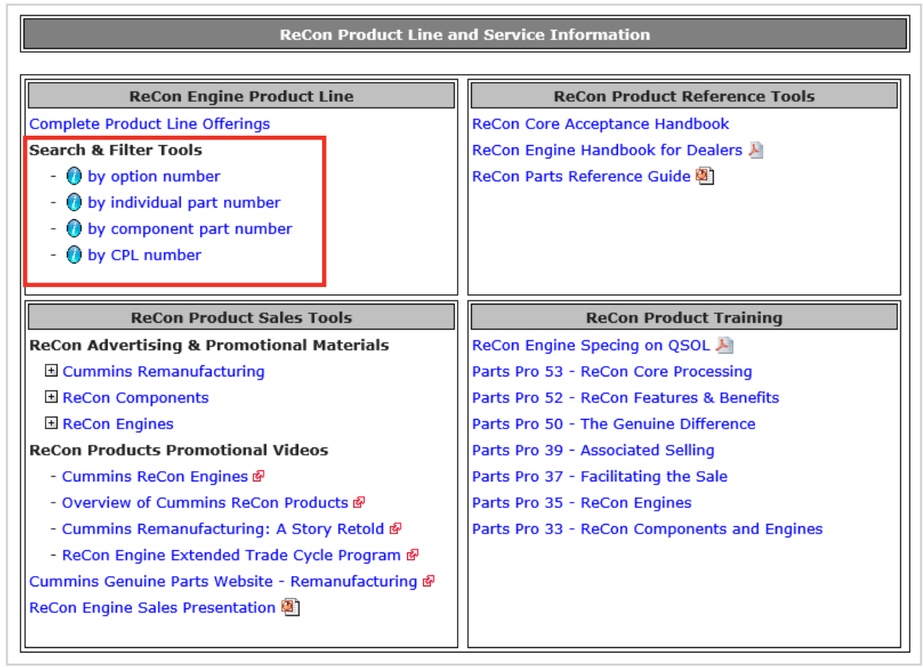
ReCon Engine Online Support

The ReCon engine marketing team has created a section on QuickServe Online to help our distributors find engines quickly and easily and to help find the right ReCon product for your customer.

Five user-friendly search options are available in the *ReCon* tab within the *Parts* section on QuickServe Online:

- Search active part numbers available for purchase
- Search active part numbers by option
- Search by component part number
- Search by individual unit part number
- Search by CPL

When searching by individual part number, you can download the entire file or specific information by clicking the *Generate Spreadsheet* button located at the top right hand area of the database. This allows you to easily retain specific information for future reference. It is also an ideal way to keep the entire active product line information available in an Excel file when internet access is not available.



ReCon Engine Replacement Guidelines

ReCon Engine Replacement Guidelines

ReCon engines cannot be installed in NEW equipment.

We sometimes receive requests to supply ReCon engines to be installed in new equipment and want to be clear that **ReCon engines cannot be installed in new equipment**. Cummins does not approve of this for either North American domestic products or equipment for export from the U.S. No exceptions.



Must replace on a Like-for-Like basis.

A ReCon RX configuration is to be of the same or newer model year as the model year of the engine or engine with aftertreatment system it is replacing. If this is unknown, it will be based on the model year of the vehicle in which it will be installed. Example - we cannot use a 2002 ISX to replace a 2007 ISX. Another way to say this is that the replacement engine emission levels must be equal to or better than the engine being replaced.

For more detailed information, please contact your local distributor.

Applications have different emissions rules.

Emissions regulations are complex and vary depending upon the application and engine family. Examples of where there are differences are: Rail, Marine and Stationary Power. Please work closely with your local distributor to ensure that all engine installations are in compliance with emissions regulations.

Notes

Helpful Links

Core Details

Core Acceptance Handbook
(https://quickserve.cummins.com/qs3/portal/parts/recon/cahandbook.html?header=false)

Engine and Product Line Information

Complete Product Line Offerings
(https://quickserve.cummins.com/qs3/portal/parts/recon/spec_by_engine_form.html?header=false&active=YES&build_plant=All)

CPL Lookup
(https://quickserve.cummins.com/qs3/portal/parts/recon/finished_goods_by_cpl_form.html?header=false)

QuickServe Online
(https://quickserve.cummins.com/info/index.html)

Search by active part numbers available for purchase
(https://quickserve.cummins.com/qs3/portal/parts/recon/spec_by_engine_form.html?header=false&active=YES&build_plant=All)

Search by CPL
(https://quickserve.cummins.com/qs3/portal/parts/recon/finished_goods_by_cpl_form.html?header=false)

Search by individual unit part number
(https://quickserve.cummins.com/qs3/portal/parts/recon/finished_goods_pn_form.html?header=false)

Sales and Marketing Tools

Cummins ReCon Engine Video
(https://qsol.cummins.com/common/qsol/en/promotions/ReMan_with_stats_3-5-12.mp4)

Cummins ReCon Reference Guide
(https://quickserve.cummins.com/common/files/qsol/en/recon/cummins_recon_reference_guide.ppt)

Cummins Remanufacturing: A Story Retold
(https://qsol.cummins.com/common/qsol/en/promotions/Global_Remanufacturing_Video_FINAL.mp4)

Helpful Links

ReCon Engine Exchange Trade Cycle Program: Eagle Transport Testimonial Video
(http://player.piksel.com/player.php?v=pavb234d)

ReCon Engine Sales Presentation
(https://qsol.cummins.com/common/files/qsol/en/recon/recon_engine_sales_presentation.ppt)

Remanufacturing Process - CumminsGenuineParts.com
(http://cumminsgenuineparts.com/Reman/Default.htm)

Training

How to Spec a Cummins ReCon Engine
(https://quickserve.cummins.com/common/files/qsol/en/recon/How_to_spec_a_ReCon_engine_using_QSOL.pdf)

Parts Pro 35 - Cummins ReCon Engines
(https://partspro.cummins.com/partspro/training/flash.php?edition=35&language=en)

Parts Pro 37 - Facilitating the Sale of Genuine Cummins Products
(https://partspro.cummins.com/partspro/training/flash.php?edition=37&language=en)

Parts Pro 53 - ReCon Core Processing
(https://partspro.cummins.com/partspro/training/flash.php?edition=53&language=en)

Warranty

Cummins ReCon Industrial Plan (Parts Only)
(https://quickserve.cummins.com/qs2/pubsys2/xml/en/warranty/3624422.html?q=3624422)

Cummins ReCon Industrial Plan (Parts & Labor Only)
(https://quickserve.cummins.com/qs2/pubsys2/xml/en/warranty/3624423.html?q=3624423)

Cummins ReCon Industrial Plan (Parts, Labor & Travel)
(https://quickserve.cummins.com/qs2/pubsys2/xml/en/warranty/3624424.html?q=3624424)

Warranty Administration Manual
(https://quickserve.cummins.com/qs3/portal/service/manual/en/4021290/)

Guide to Abbreviations

A/C – Air Compressor
C – Construction/Industrial
CPL – Critical Parts List
HPCR – High Pressure Common Rail
M – Marine
MCRS – Modular Common Rail System
NH – Natural Aspirated
OAC – Optimized Aftercooling
PDC – Parts Distribution Center
QSOL – QuickServe Online
RLCC – Reverse Logistic Core Center
RX – ReCon Exchange
XM – Exhaust Manifold
XPI – Extreme Pressure Injection

Turbocharger Locations

HMFO – High mount, front out
HMRO – High mount, rear out
LMFO – Low mount, front out
LMRO – Low mount, rear out
MMRO – Mid mount, rear out
SMFO – Side mount, front out
SMRO – Side mount, rear out
TMFO – Top mount, front out
TMRO – Top mount, rear out
RMLBO – Rear mount, left bank out
RMRBO – Rear mount, right bank out

Notes

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Prices subject to change without notice.
OEM names for reference purposes only.