

# Parts Professional 67

The Genuine Cummins Overhaul



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Cummins Overhaul

## INTRODUCTION

Cummins products are built to serve customers over the long life of the product. When it comes time to extend the life of those products, Cummins provides the right solutions. To provide the highest level of quality service, Cummins offers different options to meet the specific needs of customers given their circumstances.

This training will focus on the customer's option to overhaul an engine with a Genuine Cummins Overhaul. You will learn about the key considerations of an overhaul and how this option works to keep an engine going and to provide the most value.



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## WHAT IS A GENUINE CUMMINS OVERHAUL?

A **Genuine Cummins Overhaul** is a service event performed by a Cummins Distributor or Authorized Dealer, in which vital, internal components of the engine are replaced. Engines have many parts that wear out over time, and through an overhaul, customers can refresh the engine by replacing some of the worn parts.

Now, lets look at the value of an overhaul and why a customer would choose to get an overhaul.



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## WHY GET A GENUINE CUMMINS OVERHAUL?

The value in a **Genuine Cummins Overhaul** is the total package that it provides to customers in need of an engine repair. The following key benefits highlight why to get an overhaul and the value that Cummins provides in the service:

[\(Click on each box to learn more\)](#)

**Brings Back Original Engine Performance**

**Features Latest Product Updates**

**Saves Money by Bundling Parts Purchases**

**Includes Full Cummins One Year Warranty**

**Provides Many More Miles/Hours of Dependable Cummins Power**





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## BRINGS BACK ORIGINAL ENGINE PERFORMANCE

As an engine ages, fuel economy and oil consumption naturally deteriorate due to the number of hours, miles or duty cycle of the engine. Replacement of certain components during an overhaul helps to **restore fuel economy and to reduce oil consumption to extend the life of the engine.**



**Better.  
Where It Counts.**

**1 YEAR WARRANTY  
CUMMINS CARE  
OIL SERVICE**

**Better Fuel Economy. Every™ ISX15.**

Better is taking a proven product and improving it in every way. Better is optimized combustion and aftertreatment efficiency, giving our 2013 ISX15 and ISX12 up to 2 percent better fuel economy than our previous products, with better reliability and durability. Plus, they meet 2014 fuel efficiency and greenhouse gas standards. Continuous improvement puts better where it counts most – on your bottom line. For details, call Cummins Care at 1-800-DESELS™ (1-800-343-7357) or visit [cumminsengines.com/heavy-duty-truck](http://cumminsengines.com/heavy-duty-truck).

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## FEATURES LATEST PRODUCT UPDATES

Cummins continuously works to enhance the performance characteristics, fuel economy and total cost of ownership of its products. When improvements are made, they are incorporated into **Genuine Cummins Parts** and included in overhaul kits. For example, new cylinder liners with the anti-polishing ring (APR Cylinder Liner pictured at right), a recent product update, were added following the improvement and are now included in kits for the ISX 15 to extend the life of this key component.

**Note:** Non-Genuine parts do not include these product updates, an important reason to **buy Genuine.**



**APR Cylinder Liner**



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## **SAVES MONEY BY BUNDLING PARTS PURCHASES**

A **Genuine Cummins Overhaul** includes overhaul kits that bundle parts together in a package to reduce the overall cost of the parts. Furthermore, for the ISX 12 and ISX15, N14, ISM and M11 engines in North America, a marketing promotion called the Cummins Overhaul Program is available and allows customers to save even more on the package when additional parts are purchased ([click here to learn about the Cummins Overhaul Program](#))



**Note:** Programs can be developed or enhanced on a yearly basis to benefit customers and all information on these programs is under the [Promotions tab on Quickserve](#).





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## **INCLUDES FULL CUMMINS ONE YEAR WARRANTY**

Cummins base warranty is guaranteed to cover customers for up to 1 year, 100,000 miles (160,935 km).

An additional warranty option available in North America is the NOW (National Overhaul Warranty) program, which covers parts replaced, workmanship as well as those components inspected but not replaced. It extends the 1 year warranty up to 2 years, 200,000 miles for heavy duty engines, and up to 3 years, 150,000 miles for MidRange engines. Available at NOW certified locations.

[\(click here to learn more\)](#)

North America Heavy Duty NOW Program

North America MidRange NOW Program





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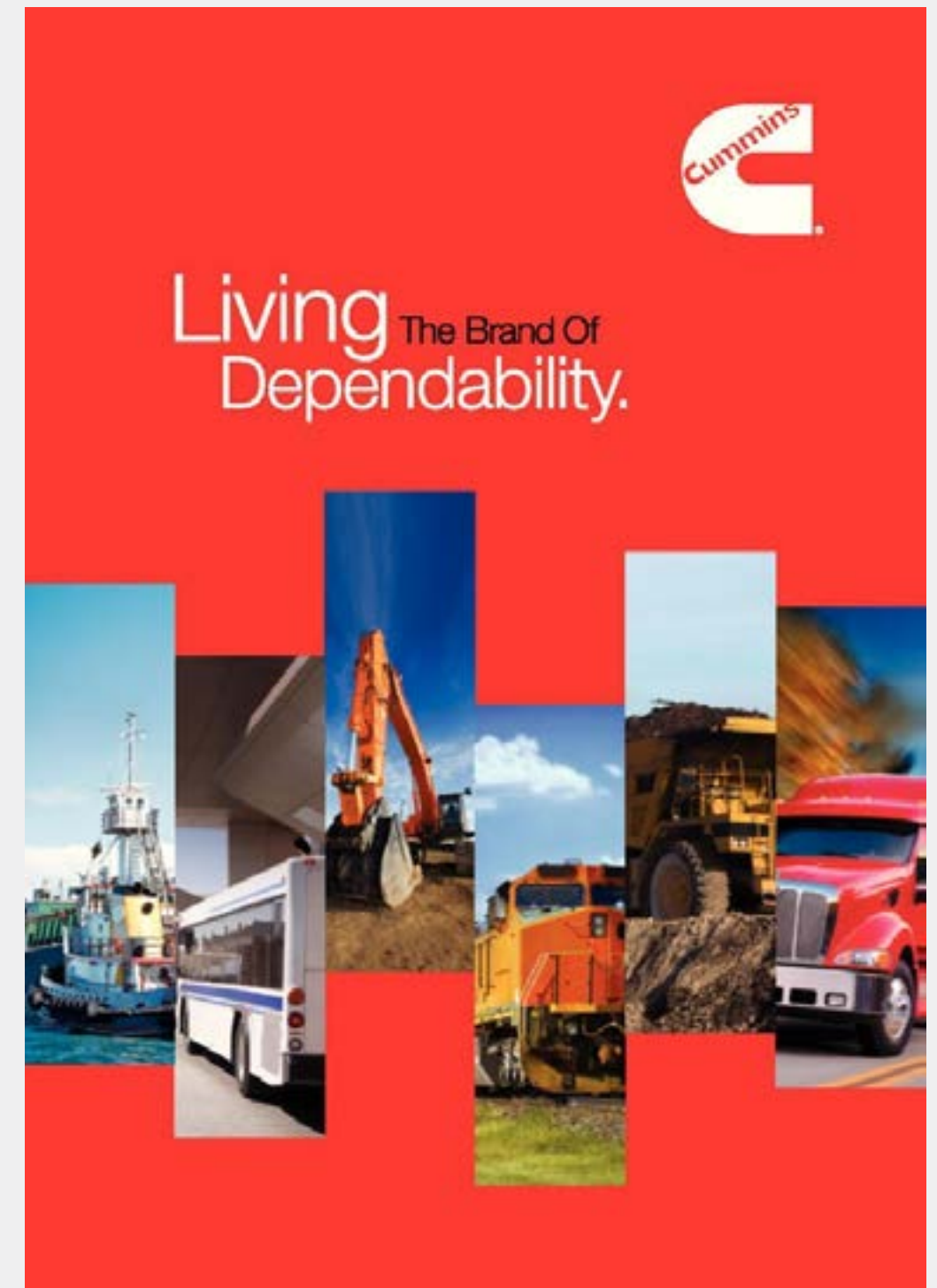
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Why Get a Genuine Overhaul?



## FEATURES LATEST PRODUCT UPDATES

Cummins products are tested and proven to be dependable over the long life of the product. The **Genuine Cummins Overhaul** is one important component in the process to extend the life of these dependable products.



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## WHEN TO GET A GENUINE OVERHAUL

Now that you know what an overhaul is and the value it provides customers, you will now be presented with three scenarios on when the customer should get an overhaul. **Below** you can test yourself by selecting one of the three correct scenarios below.

When to Get a Genuine Overhaul

### Circumstance Example

**Increased fuel consumption** is an example of which scenario?

**Scenario**



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## WHEN TO GET A GENUINE OVERHAUL

Now that you know what an overhaul is and the value it provides customers, you will now be presented with three scenarios on when the customer should get an overhaul. **Below** you can test yourself by selecting one of the three correct scenarios below.

When to Get a Genuine Overhaul

**Circumstance Example**  
**Upgrading an engine** is an example of  
which scenario?

**Scenario**



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When to Get a Genuine Overhaul



## WHEN TO GET A GENUINE OVERHAUL

Now that you know what an overhaul is and the value it provides customers, you will now be presented with three scenarios on when the customer should get an overhaul. **Below** you can test yourself by selecting one of the three correct scenarios below.

### Circumstance Example

**A dropped valve** is an example of which scenario?

**Scenario**



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## WHEN TO GET A GENUINE OVERHAUL

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### Circumstance Example

**Selling your engine** is an example of which scenario?

**Scenario**

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## WHEN TO GET A GENUINE OVERHAUL

Now that you know what an overhaul is and the value it provides customers, you will now be presented with three scenarios on when the customer should get an overhaul. **Below** you can test yourself by selecting one of the three correct scenarios below.

### Circumstance Example

**Increased blowby** is an example of which scenario?

**Scenario**

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## WHEN TO GET A GENUINE OVERHAUL

Now that you know what an overhaul is and the value it provides customers, you will now be presented with three scenarios on when the customer should get an overhaul. **Below** you can test yourself by selecting one of the three correct scenarios below.

### Circumstance Example

**A cracked cylinder head** is an example of which scenario?

**Scenario**

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## WHEN TO GET A GENUINE OVERHAUL

Now that you know what an overhaul is and the value it provides customers, you will now be presented with three scenarios on when the customer should get an overhaul. **Below** you can test yourself by selecting one of the three correct scenarios below.

### Circumstance Example

**Looking to get more years of use** is an example of which scenario?

**Scenario**



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## WHEN TO GET A GENUINE OVERHAUL

Now that you know what an overhaul is and the value it provides customers, you will now be presented with three scenarios on when the customer should get an overhaul. **Below** you can test yourself by selecting one of the three correct scenarios below.

### Circumstance Example

**Increased oil consumption** is an example of which scenario?

**Scenario**

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## WHEN TO GET A GENUINE OVERHAUL

Now that you know what an overhaul is and the value it provides customers, you will now be presented with three scenarios on when the customer should get an overhaul. **Below** you can test yourself by selecting one of the three correct scenarios below.

### Circumstance Example

**Excessive noise or vibration** is an example of which scenario?

**Scenario**

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## WHEN TO GET AN OVERHAUL?

Answer key:

### When to Overhaul Scenario

#### When You Experience Noticeable Changes in Your Engine's Performance

**Increased fuel consumption** is an example of a noticeable change in your engines performance

**Increased blowby** is an example of a noticeable change in your engines performance

**Increased oil consumption** is an example of a noticeable change in your engines performance

**Excessive noise or vibration** is an example of a noticeable change in your engines performance

#### When You Want to Increase Your Engine's Life and Resale Value

**Upgrading your engine** is an example of increasing your engine's life and resale value

**Looking to sell your engine** is an example of a time when you want to increase your engine's resale value

**Looking to get more years of use** is an example of a time when you want to increase your engine's life

#### During a Major Unplanned Repair Event

**A Cracked cylinder head** is an example of a major unplanned repair event

**A Dropped valve** is an example of a major unplanned repair event

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### Overhaul Kits

## OVERHAUL KITS

Let's now look at the specific contents that come with an overhaul. An overhaul kit is a basic package of key components needed to overhaul an engine. Power cylinder components and many of the major upper and lower engine gaskets and seals are included in "mini-kits" in these packages. Customers choose variations based on cost management and future planned usage of their engine. The basic kits can vary between engine families but are fairly consistent. Click on each of the engines below from different engine classes to learn more ([Click on each engine family below to learn more](#)).



*MidRange*



*Heavy-Duty*



*High Horse Power*





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Overhaul Kits



## OVERHAUL KITS

There are overhaul kits available for the following MidRange engines: 4B, 6B, 6C, C8.3 ISC/QSC & ISL/QSL. Most overhaul kits sold are for the ISC and ISL engines. Depending on the engine, some kits come with cylinder liners, referred to as wet liners, whereas others are parent-bore engines and do not come with the cylinder liners(see list below). Also, see the list below to learn what is in a basic MidRange overhaul kit.

List of Parts that are in a basic ISC overhaul:

1. Cylinder Liner Kit
2. Piston Kit
3. Main Bearing Kit
4. Upper Engine Gasket Kit
5. Connecting Rod Bearings
6. Oil Pan Gasket
7. Oil Bypass Valve Plunger



*Example: B Series 6.7 Overhaul Kit*

*Note: Parts vary between MidRange Overhaul kits*

Wet-liner: 8.3L and 8.9L; **Cylinder liners available**  
Parent bore 3.9L, 3.8L, 5.9L, 4.5L, 6.7L; **Salvage sleeves available**

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Overhaul Kits

## HEAVY DUTY OVERHAUL KITS

Most overhaul kits in North America are for heavy-duty engines due to the high population of heavy-duty engines as well as the wide range of applications in which these engines are used. There are overhaul kits available for the following heavy-duty engines: ISX/QSX, ISM/QSM, N14, M11, L10 and NH/NT855.

List of Parts in ISX overhaul kit:

1. Cylinder Liner Kit
2. Piston Kit
3. Main Bearing Kit
4. Upper Engine Gasket Kit
5. Connecting Rod Bearing
6. Oil Pan Gasket (Not for ISX)
7. Oil Bypass Valve Plunger



*Example: ISX Overhaul Kit*

*Note: Parts vary between heavy-duty overhaul kits*



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Overhaul Kits

## HIGH HORSEPOWER OVERHAUL KITS

Overhaul kits are also now becoming available for high horsepower engines. One high horsepower engine with a basic overhaul kit available now is the K19 Marine engine.

List of Parts in a K19 basic overhaul kit:

Connecting Rod Bearing  
Liner Kit

Lower Engine Gasket Set

Upper Engine Gasket Set

Main Bearing Set



*Example: K19 Overhaul Kit*

*Note: Parts will vary between high horse power  
overhaul kits*



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### OVERHAUL PROCESS

During the event of an overhaul, vital components other than the components in the basic overhaul kit are also inspected. This is an important aspect of service to customers as some of these parts may need to be replaced at some point in the future and the event of an overhaul provides an opportunity to replace the part before an issue occurs that will cause excess downtime in the future (Click on each part to find out what issues might lead to a need for replacement of the component).

Overhaul Process

<b>Turbocharger</b>	<b>Cylinder Head</b>	<b>Crankshaft</b>	<b>EGR Valve</b>
			
<b>Camshaft</b>	<b>Fuel Pump</b>	<b>Fuel Injector</b>	<b>EGR Cooler</b>
			





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### OVERHAUL PROCESS

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Overhaul Process

<b>Turbocharger</b>	<b>Turbocharger</b> X	<b>EGR Valve</b>	
	Blade damage, side and end play on shaft, bearing wear, variable geometry sticking.		
<b>Camshaft</b>	<b>Fuel Pump</b>	<b>Fuel Injector</b>	<b>EGR Cooler</b>
			



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### OVERHAUL PROCESS

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Overhaul Process

<b>Turbocharger</b>	<b>Cylinder Head</b>	<b>Cylinder Head</b> X Worn valve guides and seals, cracked valve seats.	
			
<b>Camshaft</b>	<b>Fuel Pump</b>	<b>Fuel Injector</b>	<b>EGR Cooler</b>
			





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### OVERHAUL PROCESS

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Overhaul Process

<b>Turbocharger</b>	<b>Cylinder Head</b>	<b>Crankshaft</b>	<b>Crankshaft (Visual Inspection)</b> <sup>X</sup> Grooves, poor surface area.
			
<b>Camshaft</b>	<b>Fuel Pump</b>	<b>Fuel Injector</b>	<b>EGR Cooler</b>
			



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### OVERHAUL PROCESS

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Overhaul Process

<b>Turbocharger</b>	<b>EGR Valve</b>	<b>EGR Valve</b>	
	 Inability to open and close.		
<b>Camshaft</b>	<b>Fuel Pump</b>	<b>Fuel Injector</b>	<b>EGR Cooler</b>
			



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### OVERHAUL PROCESS

During the event of an overhaul, vital components other than the components in the basic overhaul kit are also inspected. This is an important aspect of service to customers as some of these parts may need to be replaced at some point in the future and the event of an overhaul provides an opportunity to replace the part before an issue occurs that will cause excess downtime in the future (Click on each part to find out what issues might lead to a need for replacement of the component).

Overhaul Process

Turbocharger	Cylinder Head	Crankshaft	EGR Valve
			
Camshaft	<b>Camshaft (Visual Inspection)</b> Flattened lobes, scored cam lobes.		EGR Cooler
			



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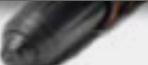
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### OVERHAUL PROCESS

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Overhaul Process

Turbocharger	Cylinder Head	Crankshaft	EGR Valve
			
Camshaft	Fuel Pump	<b>Fuel Pump (Visual Inspection)</b> Worn seals, leakage, pump calibration. X	
			



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### OVERHAUL PROCESS

During the event of an overhaul, vital components other than the components in the basic overhaul kit are also inspected. This is an important aspect of service to customers as some of these parts may need to be replaced at some point in the future and the event of an overhaul provides an opportunity to replace the part before an issue occurs that will cause excess downtime in the future (Click on each part to find out what issues might lead to a need for replacement of the component).

Overhaul Process

Turbocharger	Cylinder Head	Crankshaft	EGR Valve
			
Camshaft	Fuel Pump	Fuel Injector	Fuel Injector
			

**Fuel Injector** <sup>X</sup>  
Decreased fuel economy, improper combustion in cylinders, over-fueling, damaged nozzle.



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### OVERHAUL PROCESS

During the event of an overhaul, vital components other than the components in the basic overhaul kit are also inspected. This is an important aspect of service to customers as some of these parts may need to be replaced at some point in the future and the event of an overhaul provides an opportunity to replace the part before an issue occurs that will cause excess downtime in the future (Click on each part to find out what issues might lead to a need for replacement of the component).

Overhaul Process

Turbocharger	Cylinder Head	Crankshaft	EGR Valve
			
Camshaft	EGR Cooler X Leakage or coolant loss.		EGR Cooler
			





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### PARTS FINDING

- All information on overhaul kits can be found on QuickServe Online, which gives parts and service professionals access to information for over 15 million Cummins engines.
- All overhaul kits have an assigned part number. The engine serial number (ESN, which can be found on the engine data plate) can be used to locate the correct kit within the parts catalog System View.
- The Cylinder/Overhaul Kit tool under the Parts Related Information tab can also be used to find the part number by CPL.
- Other resources such as overhaul kit reference guides for certain engine classes can be found on QuickServe Online under the Promotions tab.

#### Parts Finding



Searching by CPL

ISX OVERHAUL KIT AND CYLINDER HEAD QUICK REFERENCE GUIDE												
ENGINE GM NUMBER	CM370	CM370	CM370	CM370	CM370	CM371	CM371	CM370	CM2230	CM2230	CM2230	CM2230
ENGINE EPA YEAR	1998 ISX15	1998 ISX15	2000 ISX15	2000 ISX15	2007 ISX15 Tier 2	2007 ISX15	2007 ISX15	2010 ISX15 Tier 3	2010 ISX15	2010 ISX15	2010 ISX15	2010 ISX15
PISTON FIT#	2882630	2982636	4923743	4923747	4298992	2982631	2882630	4298991	3688099	3688100	3687897	2899030
CPL#	1771	2824	8518	1437	2825	0827	1437	1732	3348	3350	3367	3438
	3829	2836	8519	8520	8081	1434	3732	8760	3349	3346	3719	3439
	2933	2837	8521	8523	8142	2730	3229	8761	3378	3606	3724	3440
	8240	2900	8522	8287	8469	2919	3469	8762	3490	3765	3937	3997
	8244	8246	8283	8285	8571	2965	3775	3087	3491	3766		3711
	8255		8284		8567	3187		3088	3687	3794		3712
	8257		8285		8568	3458		4762	3688	3797		3865
	2441		8286			8660				3908		
			8281							3090		
			8282									
OVERHAUL KIT P/N	4352286 4375167*	4352287	4352289 4352292*	4352290	4352288	4352290 4352292*	4352290	4352291	4352292 4352292*	4352293	4352294	4352295
CYLINDER HEAD	4331587	4331587	4331587	4331587	4331587	4331587	4331587	3104450	3688000	3688000	3688000	3688000

\*Kit contains oversized 152mm Cylinder Liners. Please reference TSB 110277. Reference TSB 120067 as it relates to seal out and fractured soft connecting rods and bearing.

Version 7.0  
Updated 1 Jan 2018

ISX Overhaul Kit Reference Guide

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The Genuine Advantage



## THE GENUINE PARTS AND SERVICE ADVANTAGE

Cummins possesses an exceptionally broad and capable distribution and customer support network. The Cummins channel for an overhaul can meet and exceed customer expectations due to its ability to conduct repair and maintenance events worldwide by providing:

Genuine New and ReCon Parts



Technicians Who are Factory Trained



State of the Art Repair Tools, Electronic Hardware and Diagnostic Software



Best-in-Class Warranty



**7,100+ Service Locations Worldwide**



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### A MENU OF OPTIONS

The **Genuine Cummins Overhaul** is one valuable option out of a menu of options to meet and exceed customers needs. Other key options on the menu include basic repairs, as well as the option to swing a **ReCon engine** (please refer to Parts Professional 64 to learn more about ReCon engines and components). Below you will see general circumstances for choosing each option and what advantages each option holds.

	Repair	Overhaul	ReCon Engine
Circumstances	<ul style="list-style-type: none"><li>Minimal to no damage of internal engine components</li><li>Failure of individual component</li></ul>	<ul style="list-style-type: none"><li>Moderate Damage or extensive wear of core components of engine</li><li>More in-depth repairs</li><li>Block still in tact and workable</li></ul>	<ul style="list-style-type: none"><li>Extensive block, crankshaft or camshaft repair is needed</li><li>Catastrophic Failures</li><li>Unable to make repairs</li></ul>
Advantages	<ul style="list-style-type: none"><li>Quick, easy repairs</li></ul>	<ul style="list-style-type: none"><li>Excellent Bundling Opportunity</li><li>Reuse non-worn parts</li></ul>	<ul style="list-style-type: none"><li>Shortest Downtime</li></ul>

A Menu Of Options



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## SUMMARY

In summary, the **Genuine Cummins Overhaul** is a value-adding service to customers who want to get the most out of their Cummins product. You have learned why to get an overhaul, when to get an overhaul as well as important details involved in the service that Cummins provides through the overhaul. Now, test your learning by taking a quiz on this training. [Parts Professional 64 to learn more about ReCon engines and components](#)). Below you will see general circumstances for choosing each option and what advanta

Summary



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# CONGRATULATIONS!

You have completed **Parts Pro 67.**

**Now let's test your knowledge with a quiz.**



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## QUIZ

### QUESTION ONE

The marketing promotion for heavy-duty engines called the Cummins Overhaul Program is an example of which reason to get an overhaul?

- (a)** Product Updates
- (b)** Reduces blowby
- (c)** Restores Fuel Economy
- (d)** Saves money in Bundling Parts

Quiz



**Get all 10 questions right and receive a Cummins branded flash light.**



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## QUIZ

Quiz



### QUESTION TWO

The **Genuine Cummins Overhaul** brings back the engine's original performance, features product updates, saves money by bundling parts as well as \_\_\_\_\_.

- (a)** Includes a ReCon engine
- (b)** Provides a 1 year warranty
- (c)** Includes a crankshaft
- (d)** Provides a 6 month warranty

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## QUIZ

### QUESTION THREE

An example in this training of a product update featured in an overhaul kit is:

- (a)** Piston Ring
- (b)** Oil Pan Gasket
- (c)** APR Cylinder Liners
- (d)** Piston pin

Quiz



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## QUIZ

Quiz



### QUESTION FOUR

Which of the following is **not** included in the list of scenarios of when to get an overhaul?

- (a)** When you experience noticeable changes in your engines performance
- (b)** Immediately following the purchase of an engine
- (c)** When you want to increase the engine's resale value
- (d)** During a major unplanned repair event

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## QUIZ

Quiz



### QUESTION FIVE

Increased fuel consumption, increased blowby, increased oil consumption and \_\_\_\_\_ are examples of slight, noticeable changes in an engines performance?

- (a)** A Dropped Valve
- (b)** A Cracked Cylinder Head
- (c)** Product Upgrades
- (d)** Excessive noise and vibration

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## QUIZ

### QUESTION SIX

True or False: An overhaul kit contains power cylinder components with many of the major upper and lower engine gasket kits in “mini kits”.

- (a)** True
- (b)** False

Quiz



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## QUIZ

### QUESTION SEVEN

True or False: All MidRange engine overhaul kits come with cylinder liners.

- (a)** True
- (b)** False

Quiz





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## QUIZ

### QUESTION EIGHT

Which of the following major components not included in a basic overhaul kit are always inspected during an overhaul event?

- (a)** Fuel Pump
- (b)** Turbocharger
- (c)** EGR Cooler
- (d)** All of the above

Quiz



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## QUIZ

### QUESTION NINE

Which of the following Heavy-Duty Engines is one in a list of engines that have overhaul kits available:

- (a)** ISC
- (b)** L10
- (c)** ISL
- (d)** None of the above

Quiz



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## QUIZ

Quiz



### QUESTION TEN

The Genuine Parts and Service Advantage that Cummins provides can be found in:

- (a)** 7,100+ Service Locations around the world
- (b)** Factory trained technicians
- (c)** Best-in-Class warranty
- (d)** All of the above

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# CONGRATULATIONS!

You have completed **Parts Pro 67.**

