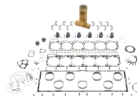
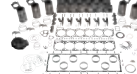


CAT® REMAN HEAVY-DUTY ENGINES REPAIR OPTIONS REFERENCE GUIDE

For the work you do, you need a heavy-duty truck engine that keeps running strong. We've been committed to Cat® truck engines and the people who depend on them for 85 years and counting. To deliver on that commitment, we offer a broad range of repair solutions, from high quality components to overhaul kits to complete Cat Reman engines. To find the right repair solution for your engine, see the other side of this guide for part numbers specific to your engine model and serial number. Work with your local authorized Cat dealer or enjoy fast online ordering from parts.cat.com, anytime, day or night.

SOLUTIONS FOR HEAVY-DUTY ENGINES ¹									
MINOR LEVEL			CAT® PRECIOUS METALS KITS			ASSEMBLED SOLUTIONS		COMPLETE ENGINES	
 » Air compressors » Bearings » Cylinder heads » Cylinder packs and pieces » Electronic Control Modules (ECM) » Filters » Fluids » Gaskets, seals, and o-rings » Injectors » Oil coolers » Oil pumps » Sensors and harnesses » Turbochargers » Water pumps	 » Exhaust manifold » Injector cup » Exhaust bellows » Spacer plate and shim » Camshaft and rocker arms » Head gasket sets » Other gasket sets	 » Economical repair option for engine leaks » No core charge » Includes: » Rod and main bearing set » Head gasket set » Front cover gasket » Oil pan gasket » Fuel injector kit gasket » Exhaust manifold sleeves, studs and locking nuts » Oil pan isolator assemblies » Thermostats » Oil and fuel filters » When pistons, rings, or liners are needed, move to silver	 » Economical engine rebuild option » No core charge » Includes everything in the bronze kit plus: » Liners » Liner seals » Piston body skirts » Piston rings » Piston wrist pins » When connecting rods are needed, move to gold	 » Intermediate engine rebuild » Includes everything in the silver kit plus: » Pre-assembled cylinder packs, which come with connecting rods, saving you labor time » When head or injector set is needed, move to platinum	 » Comprehensive engine rebuild » Includes everything in gold kit plus: » Cat Reman cylinder head and cylinder head bolt set » Cat Reman water pump » Cat Reman injectors » Cat Reman oil pump » When advanced block machining is needed, move to short block or long block » When turbocharger(s) exhaust/intake manifold, fuel/oil lines, ECM, wiring harnesses or engine sensor set is needed, move to a complete engine	 » Cylinder block » Assembled pistons and connecting rods » Crankshaft » If your cylinder block core is damaged or unacceptable, move to long block with new content » When additional components like front gear train and housing, camshaft or VVA sets are needed, move to long block	 » Assembled components: » Cylinder block and head » Front gear train and housing » Camshaft and valve train » Shipped loose components: » Fuel pump » Water pump » Oil cooler » When you choose a Cat Reman long block with new content—which features 100% new cylinder block, cylinder head and crankshaft—even catastrophic engine issues like a broken crankshaft, damaged and/or ventilated block, excessive rust and corrosion or fire damage can get you core credit² » When turbocharger(s) exhaust/intake manifold, fuel/oil lines, ECM, wiring harnesses or engine sensor set is needed, move to a complete engine	 » Extend the lifecycle of your truck with Cat Reman complete engines » True drop-in solution for customers » Inspected and dyno tested to meet original Caterpillar performance specifications » Includes the ECM, engine wiring harness and sensor set, complete set of oil and fuel lines, turbo(s), injectors, and more » Less downtime and saves money on labor	 » Same features and benefits as Cat Reman engines, plus 100% new cylinder block, cylinder head and crankshaft » When you choose a Cat Reman engine with new content—which features 100% new cylinder block, cylinder head and crankshaft—even catastrophic engine issues like a broken crankshaft, damaged and/or ventilated block, excessive rust and corrosion or fire damage can get you core credit² » Good option for customers who want to upgrade to a newer model or replace another engine brand³ » Allows you to restart the lifecycle of your engine, making future overhauls possible
INDIVIDUAL COMPONENTS	MINOR LEVEL REPAIR KITS	BRONZE	SILVER	GOLD	PLATINUM	CAT REMAN SHORT BLOCK	CAT REMAN LONG BLOCK AND LONG BLOCK WITH NEW CONTENT	CAT REMAN ENGINE	CAT REMAN ENGINE WITH NEW CONTENT

CATERPILLAR WARRANTIED PRODUCT

Genuine Cat new and Cat Reman parts are covered by a 12-month Caterpillar Limited Warranty⁴ against Caterpillar defects in material and/or workmanship.

Cat Reman heavy-duty engines are covered by a 24-month Caterpillar Limited Warranty.⁴

EXTENDED SERVICE COVERAGE (ESC)

U.S. and Canada only.

Qualified components have available Component Plus ESC options up to 48 months. This coverage pays for parts and repairer labor charges for covered component failures due to defects in materials or factory workmanship under normal use and service.

Cat precious metals kits have available ESC options no matter if installed by an authorized Cat dealer or the do-it-yourself installer.

ESC Terms for precious metals kit parts last up to 48 months from the purchase date. Should a kit part fail due to a defect in material or factory workmanship your authorized Cat dealer will replace it.

Cat Reman heavy-duty engines have ESC options up to 60 months.⁵

¹Repair options and component consists may vary by model. New content options not available for all models. Contact your authorized Cat dealer for details.

²Additional requirements apply. Contact your authorized Cat dealer for more information.

³Some exclusions apply.

⁴Warranty can vary by model and application; limitations apply. For complete details about the applicable Caterpillar Limited Warranty, contact an authorized Cat dealer.

⁵60-month coverage is available on heavy-duty Cat Reman engines, with a 500k mile limit. Contact your authorized Cat dealer for details.

YOUR DEALER IS STANDING BY

The Cat dealer network stocks a broad line of new and Cat Reman parts and components, supported by the Caterpillar worldwide inventory and distribution system. With over 30 authorized Cat dealers in North America who manage a combined network of 2,000+ sales and service locations, most components are available and ready to install, reducing your downtime and maintaining productivity. [Contact your local authorized Cat dealer today.](#)



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TRUCK ENGINE
RESOURCE CENTER



CAT® REMAN HEAVY-DUTY ENGINES

REPAIR OPTIONS REFERENCE GUIDE

CAT PRECIOUS METALS OVERHAUL KITS						
Sales Model	Engine S/N	Horsepower Range	Bronze	Silver	Gold	Platinum
C-12	2KS00387-UP	335-455 HP	603-6649	350-5735	10R-9808	10R-9810
	MBL00001-UP			352-6018	10R-9809	10R-9811
C13 ACERT™	KCB00001-05433	380-430 HP	603-6650	422-9598	10R-9920	10R-9921
	KCB00001-06811	335-410 HP				10R-9922
	KCB05434-UP	380-430 HP				
	KCB06812-UP	335-410 HP				20R-1167
	LEE00001-UP	380-470 HP	438-7105	438-8632	20R-1166	
3406E	5EK00001-UP, 6TS00001-20554	500-550 HP	603-6647	348-7339	10R-9552	20R-7815
	5EK67193-UP, 6TS00001-20554	475 HP¹				
	5EK00001-67192	475 HP¹				
	5EK53004-UP, 6TS00001-20554	435-455 HP¹		348-7346	10R-9554	20R-7816
	5EK00001-53003	455 HP¹				
	5EK01185-53003	435 HP¹				
	5EK00001-UP, 6TS00001-20554	355-410 HP	603-6648	N/A	N/A	N/A
	310-330 HP	310-330 HP				
	475-550 HP	475-550 HP				
	435-455 HP¹	435-455 HP¹				
	310-410 HP	310-410 HP				
	2WS00406-UP	435-550 HP				
C-15	6NZ00001-UP, 9NZ00001-UP	435-550 HP	603-6644	618-8059²	10R-9343³	20R-7822²
	MBN00001-UP	435-550 HP	603-6644	610-0751	10R-9345	20R-7823
C-16	7CZ00001-UP	575-600 HP	603-6644	426-1892	10R-9344	20R-7824
C15 ACERT	BXS00001-UP	435-550 HP	606-0909	618-8046²	10R-9923³	20R-7411²
	MXS00001-UP	435-550 HP				
	NXS00001-UP	435-550 HP				
	MXS00001-UP	600-625 HP				
C15 ACERT ('07)	SDP00001-UP	435-550 HP	442-7439	442-8972	20R-3076	20R-7414

¹ Difference in pistons; confirm piston part number compatibility with dealer when ordering silver, gold or platinum kits.

² Kit ships with cylinder packs for normal load applications. High load applications (gross vehicle weight rating greater than 140,000 lbs.) should replace top ring with 247-6130. Refer to SEBD6832.



 If you're viewing this document online, click the blue part numbers to go to parts.cat.com and add parts to your cart, for easy and fast online ordering.

SHORT/LONG BLOCKS		
Sales Model	Short Block	Long Block
C-9	10R-9871	10R-9964
C-10 (Bridge)	N/A	10R-1383
C11 ACERT	10R-6461	10R-6462
C-12	10R-1491	10R-1384
	0R-9680	10R-1406
	0R-9680	0R-9682
C13 ACERT	10R-7437	10R-9650
	10R-9834	10R-9649
	10R-7437	10R-6464
C13 ACERT ('07)	10R-9374	10R-9376
3406A (direct injection)	20R-9058	0R-3711
3406B/C	0R-4812	0R-3752
		0R-3751
3406C (3ZJ, 2EK, 4CK)	0R-7943	0R-4408
3406C (5YG, 11N, 2EK)	0R-4399	0R-4409
3406E (1LW)	0R-1096	0R-1097
3406E (1LW) Cat® Reman with new content	N/A	20R-9110
3406E (5EK, 6TS)	0R-8323	0R-7961
3406E (5EK, 6TS) Cat Reman with new content	N/A	20R-9111
3406E (2WS)	10R-1511	10R-1512
3406E (2WS) Cat Reman with new content	N/A	20R-9112
C-15 (6NZ)	10R-0885	10R-1061
C-15 (6NZ) Cat Reman with new content	N/A	20R-9108
C-15 (MBN)	10R-1489	10R-1372
C-15 (MBN) Cat Reman with new content	N/A	20R-9109
C-16	10R-1506	N/A
C15 ACERT (BXS)	10R-4404	10R-4411
C15 ACERT (BXS) Cat Reman with new content	N/A	20R-9105
C15 ACERT (low HP MXS, NXS)	10R-4404	10R-4412
C15 ACERT (low HP MXS, NXS) Cat Reman with new content	N/A	20R-9106
C15 ACERT (high HP MXS, NXS)	10R-4405	10R-4413
C15 ACERT (high HP MXS, NXS) Cat Reman with new content	N/A	20R-9107
C15 ACERT ('07) (435-550 HP)	10R-9173	10R-9486

COMPLETE ENGINES										
Sales Model	Complete Engine Part Number	Horsepower Range	Torque Range	RPM	Oil Sump	Reference Engine Arrg.	Reference S/N	Additional Information		
C-10	10R-1351	305 (305-370)	1150	1800	Front Sump	169-9488	3CS19334	3CS		
C-12	10R-1410	430 (335-455)	1650	1800	Front Sump	169-9212	2KS50367	2KS 1YN without eng brake		
	0R-9683					160-2312	9NS11742	9NS without eng brake		
	10R-8736	395 (335-455)	1450			204-2392	9NZ18564	8YF with eng brake for Australia		
	30R-0129³	355 (335-455)	1350			180-2208	2KS41678	2KS/1YN REPTO without eng brake Cat Reman engine with new content		
	30R-0130³	430 (335-455)	1650			169-9212	2KS50367	2KS/1YN without eng brake Cat Reman engine with new content		
C13 ACERT	10R-8830	430 (335-475)	1650	1800	Rear Sump	242-7872	KCB93109	KCB high mount turbo with eng brake		
	10R-8831				Front Sump/Deep	264-0811	KCB83688			
	10R-8832	335 (335-475)	1550		Front Sump	253-5885	KCB92179			
	10R-8833	430 (335-475)	1650		Front Sump/Deep	258-9318	KCB65653	KCB low mount turbo with eng brake		
	10R-8834				Front Sump/Deep	267-5964	KCB60158	KCB mid mount turbo with eng brake		
	30R-0131³	335 (335-475)	1550		Front Sump	251-8901	KCB92997	KCB high mount turbo REPTO Cat Reman engine with new content		
3406B (ATAAC)	20R-9058	425	1390	2100	Rear Sump	7C-9429	4MG03571	4MG SEHS8607⁴		
3406B (JWVAC)	0R-1284	400	1330	2100	Rear Sump	4W-3608	7FB97954	7FB SEHS8607⁴		
3406C (ATAAC)	0R-4697	425	1580	2000	Rear Sump	4P-1294	3ZJ39132	3ZJ		
	0R-4696				Front Sump	4P-1295	3ZJ42949	3ZJ		
3406E	0R-8325	375 (375-455)	1450	1800	Rear Sump	141-4251	5EK93390	5EK/6TS		
	30R-0061³	550 (475-550)	1850	2100		131-7283	5EK90511	5EK/6TS with eng brake, Cat Reman engine with new content		
	0R-8700		1750	1800		132-6084	6TS02940	5EK/6TS with eng brake		
	10R-7248	155-3226				1LW33251	1LW with eng brake (40 pin ECM)			
	20R-6605	170-7808				2WS42778	5EK/6TS with eng brake (70 pin ECM) (REHS0416)			
	20R-9318						2WS/1LW with eng brake (70 pin ECM) (REHS0416) Cat Reman engine with new content			
C-15	10R-1972	475 (435-550)	1650	1800	Front Sump	180-2082	6NZ52907	6NZ/9NZ with eng brake		
	10R-1322				Rear Sump	180-2191	6NZ88636		6NZ/9NZ with eng brake & Upgrade to New (UTN) crankshaft	
	10R-1360					180-2082	6NZ52907	6NZ/9NZ with eng brake, Cat Reman engine with new content		
	20R-9323³	475	1750			244-4600	9NZ18564	6NZ/9NZ with eng brake		
	10R-2524					230-1666	MBN30162	6NZ/9NZ with eng brake for Australia		
	20R-5084					475 (435-525)	1650	Rear Sump	261-5245	MXS98787
	10R-9846				261-5406				NXS12325	BXS/MXS/NXS with eng brake (high mount turbo) Cat Reman engine with new content
C15 ACERT ('04)	10R-8767	475 (435-550)	1850	1800	Rear Sump	261-5245	MXS98787	BXS/MXS/NXS (high mount turbo)		
	20R-9335³							625 (600-625)	2050	261-5406
	10R-8802	435 (435-550)	1650			261-5260	NXS26290			BXS/MXS/NXS with eng brake (mid mount turbo)
	20R-9336									
	10R-8803									

³ Cat Reman engines with new content include 100% new cylinder blocks, crankshafts, and cylinder heads. All other parts could be Cat Reman.

⁴ Built for Freightliner, Kenworth, Peterbilt, etc. Engine is mounted vertically and turbo is mid-mounted. Ford applications require changing flywheel housing and turbo piping.