











CAT® REMAN MEDIUM-DUTY ENGINES REPAIR OPTIONS REFERENCE GUIDE

For the work you do, you need a truck engine that keeps running, and 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 MEDIUM-DUTY ENGINES ¹									
MINOR LEVEL		CAT® PRECIOUS METALS KITS				ASSEMBLED SOLUTIONS		COMPLETE ENGINE	
 <ul style="list-style-type: none"> » Air compressors » Bearings » Cylinder heads » Electronic Control Modules (ECM) » Filters » Fluids » Gaskets, seals, and o-rings » HEUI pump » Injectors » Oil coolers » Oil pumps » Pistons and connecting rods » Sensors and harnesses » Turbochargers » Water pumps 	 <ul style="list-style-type: none"> » Excellent mid-life performance improvement » Includes: <ul style="list-style-type: none"> » Six Cat® Reman injectors » Cat Reman HEUI pump » Holddown bolts » IAP sensor » Seals and o-rings » Stand-alone repair option or combine with other precious metals kits to improve longevity and restore engine performance 	 <ul style="list-style-type: none"> » Economical repair option for engine leaks » No core charge » Includes: <ul style="list-style-type: none"> » Rod, main and thrust bearing set » Connecting rod bolts and nuts » Fuel injector hold down bolts » Cylinder head gasket set » Front cover gasket » Valve cover seal » Oil pan gasket » Fuel injector gasket kit » Exhaust manifold sleeves, studs and locking nuts » Front and rear main seal / wear sleeves » Oil fill cap » Thermostats and gaskets » Oil and fuel filters » When pistons or rings are needed, move to silver 	 <ul style="list-style-type: none"> » Economical engine rebuild option » No core charge » Includes everything in the bronze kit plus: <ul style="list-style-type: none"> » Piston crown » Piston skirt » Piston rings » Piston wrist pins and clips » When connecting rods are needed, move to gold 	 <ul style="list-style-type: none"> » Intermediate engine rebuild » Includes everything in the silver kit plus connecting rods » When cylinder block needs advanced machining and injector sets, move to platinum 	 <ul style="list-style-type: none"> » Comprehensive engine rebuild » Includes everything in gold kit plus: <ul style="list-style-type: none"> » Cat Reman bare cylinder block » Cat Reman cylinder head » Cat Reman HEUI pump » Cat Reman injectors » Cat Reman oil pump » Injection actuation pressure sensor » When camshaft, crankshaft, front gear set and valve train are needed, or you need a quicker turnaround time, move to titanium 	 <ul style="list-style-type: none"> » Cylinder block » Assembled pistons and connecting rods » Crankshaft » When additional components like camshaft or VVA sets are needed, move to long block 	 <ul style="list-style-type: none"> » Assembled Cat Reman engine solution provides quicker turnaround time » If injectors, HEUI pump, front gear train, or cylinder head are needed, move to titanium precious metals kit » When turbocharger(s), exhaust/intake manifold, fuel/oil lines, ECM, wiring harnesses or engine sensor set is needed, move to a complete engine 	 <ul style="list-style-type: none"> » Complete out-of-frame overhaul » Pre-installed components mean quicker turnaround time for a repair » Includes everything in gold kit plus: <ul style="list-style-type: none"> » Assembled components: <ul style="list-style-type: none"> » Cat Reman crankshaft » Cat Reman camshaft » Front housing and gear train » Valve cover base and set » Shipped loose components: <ul style="list-style-type: none"> » Cat Reman oil cooler » Cat Reman fuel transfer pump » Fuel injectors and IAP sensor » When turbocharger(s), intake/exhaust manifold, rear flywheel housing, fuel/oil lines, ECM, wiring harnesses or engine sensor set is needed, move to a complete engine 	 <ul style="list-style-type: none"> » Extend the lifecycle of your truck with Cat Reman complete engines » Drop-in solution for customers » Inspected and dyno tested to meet original Caterpillar performance specifications » Includes the electronic control module (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 » Allows you to restart the lifecycle of your engine, making future overhauls possible
INDIVIDUAL COMPONENTS	HEUI FUEL SYSTEM KIT	BRONZE	SILVER	GOLD	PLATINUM	CAT REMAN SHORT BLOCK	CAT REMAN LONG BLOCK	TITANIUM PRECIOUS METALS KIT	CAT REMAN ENGINE

CATERPILLAR WARRANTIED PRODUCT

Genuine Cat® new and Cat Reman parts are covered by a 12-month Caterpillar Limited Warranty² against Caterpillar defects in material and/or workmanship.

Cat Reman medium-duty engines are covered by a 36-month, 150,000 miles or 3,600 hours Caterpillar Limited Warranty² plus towing coverage for the first 12 months.

¹Repair options and component consists may vary by model. Contact your authorized Cat dealer for details.

²Warranty can vary by model and application; limitations apply. For complete details about the applicable Caterpillar Limited Warranty, contact an authorized Cat dealer.

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 medium-duty engines have ESC options up to 48 months.

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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CAT PRECIOUS METALS OVERHAUL KITS									
Sales Model	Engine S/N	Horsepower Range	Torque	Bronze	Silver	Gold	Platinum Plus	HEUI Fuel System Kit	Titanium Kits
C7	(KAL 1-UP) (SAP1-UP) (WAX1-UP) (Low Horsepower)	(190-210 HP)	(520-605 lb-ft)	368-0653	368-0651	20R-0634	20R-0638 (KAL1-07985 need new flash file, SEBD6764, CHECK INJECTOR)	20R-0641 (KAL1-07985 need new flash file, SEBD6764, CHECK INJECTOR)	N/A
	(KAL 1-UP) (SAP1-UP) (WAX1-UP) (Medium Horsepower)	(230-250 HP)	(540-660 lb-ft)		368-0650	20R-0635	20R-0639 (KAL1-11870 need new flash file, SEBD6764, CHECK INJECTOR)	20R-0642 (KAL1-11870 need new flash file, SEBD6764, CHECK INJECTOR)	N/A
	(KAL 1-UP) (SAP1-UP) (WAX1-UP) (High Horsepower)	(230-350 HP)	(800-860 lb-ft)		368-0650	20R-0635	20R-0640 (KAL1-12897 need new flash file, SEBD6764, CHECK INJECTOR)	20R-0643 (KAL1-12897 need new flash file, SEBD6764, CHECK INJECTOR)	20R-0798 (KAL1-12897 need new flash file, SEBD6764, CHECK INJECTOR)
3126E	(CKM1-UP)	(275 HP-UP)	800-860	370-7907	370-7907	20R-0644	20R-0659	20R-0669	N/A
	CKM (19510-UP)	(230 HP-250 HP)	660-800				20R-0660	20R-0670	20R-0801
	(HEP1-UP) (HEP-07580-UP)	(230 HP-250 HP) (275 HP-300 HP)	660-800 800-860				20R-0661	20R-0671	N/A
	(HEP07580-UP)	(330 HP)	860				N/A	20R-0674	N/A
	(CKM19510-UP)	(210 HP @ 2200RPM)	520-605	370-7905	370-7906	20R-0645	20R-0664	20R-0670	20R-0804
	(HEP1-UP)	(210 HP @ 2200RPM)	520-605				N/A	20R-0671	N/A
	(CKM03722-UP)	(175 HP-210 HP @ 2400RPM)	420-520				N/A	20R-0672	N/A
	(HEP1-UP)	(175 HP-210 HP @ 2400RPM)	420-520				N/A	20R-0673	N/A
3126B	(8YL1-68263) (8YL68264-UP) (9SZ1-UP)	(250 HP-UP) (275 HP-UP)	660-860	370-7905	370-7907	20R-0644	20R-0648	20R-0653	N/A
	(8YL1-68263) (8YL68264-UP) (9SZ1-UP)	(230 HP) (230 HP-250 HP)	660 660-800				20R-0649	20R-0654	N/A
	(8YL35001-UP) (9SZ1-UP)	(175 HP-210 HP @ 2400RPM)	420-520				N/A	N/A	N/A
	(8YL35001-UP) (9SZ1-UP)	(210 HP @ 2200RPM)	520-605				20R-0650	20R-0652	N/A

ASSEMBLED SOLUTIONS							
Sales Model	Engine S/N	Horsepower Range	Short Block	Long Block	Complete Engine	Engine Rating	
C7	KAL, WAX, SAP	(Low HP)	10R-4139	10R-4145	10R-8776 10R-8810 10R-8774 10R-8777 10R-8778 10R-8809	190 @ 2200 190 @ 2200 210 @ 2200 210 @ 2200 210 @ 2200 210 @ 2200	
	KAL, WAX, SAP	(Med HP)	10R-4134	10R-4144	10R-8811 10R-8812 20R-3664	230 @ 2300 230 @ 2200 275 @ 2200	
	KAL, WAX, SAP	(High HP)			10R-8813 10R-8775*	300 @ 2200 350 @ 2400*	
3126E	(HEP1-UP)	(175 HP-210 HP @ 2400 RPM)	0R-4890	10R-7038	N/A	N/A	
		(210 HP @ 2200 RPM)			20R-0017	210 @ 2200	
		(230 HP-250 HP)			N/A	N/A	
	(HEP07580-UP)	(275 HP-300 HP)	0R-9964	10R-7039	20R-7243	275 @ 2200	
		(330 HP)			20R-0016*	330 @ 2400*	
	CKM03722-UP	(175 HP-210 HP @ 2400 RPM)	0R-4890	10R-7040	N/A	N/A	
	CKM19510-UP	(210 HP @ 2200 RPM)			20R-0014	210 @ 2200	
(230 HP-250 HP)		N/A			N/A		
CKM1-UP	(275 HP-UP)	0R-9964	N/A	20R-0015	300 @ 2200		
3126B	9SZ1-UP	(175 HP-210 HP @ 2400 RPM)	0R-4890	10R-7040	N/A	N/A	
		(210 HP @ 2200 RPM)			20R-0014	210 @ 2200	
		(230 HP-250 HP)			N/A	N/A	
		(275 HP-300 HP)			0R-9964	N/A	20R-0015 300 @ 2200
	(8YL35001-UP)	(175 HP-210 HP)	0R-4890	N/A	0R-4879	190 @ 2300	
		(210 HP)			0R-4859	210 @ 2300	
	(8YL1-UP)	(230 HP-250 HP)	0R-9964	0R-7907	N/A	N/A	
		(250 HP-UP)			0R-4855	300 @ 2300	
7AS	190 (175-190)	0R-9964			0R-7907	0R-1047	190 @ 2300
	300 (250-300)					0R-9961	300 @ 2200
3116	2BK	250 HP	0R-4947	0R-4565	0R-3533	250 @ 2600	
		215 HP	0R-3314	N/A	0R-9290	215 @ 2600	
	9GK	250 HP	0R-9294	N/A	0R-9295	250 @ 2600	
		275 HP			0R-9297	275 @ 2450	

*Note: 330 and 350 Ratings are for emergency service and RV applications only and are for limited use, not for over the road use.



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.

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