

# BlueCAT™ 300 Emission Control System

## UPDATE: New Retrofit Kits Are Now Available

### Meet Fleet Requirements With New Retrofit Kits

We are pleased to announce that BlueCAT retrofit kits are now available for engines greater than 3.0 liters. New part numbers have been added to the attached list.

BlueCAT retrofit kits are approved by the California Air Resources Board (CARB) and will help you meet the fleet requirement regulations requiring that all existing fleets consisting of more than four pieces of Large Spark Ignition (LSI) equipment take steps to reduce emissions. Any units receiving the retrofit kits may be included in fleet averaging calculations provided they are installed by December 31, 2010. Initial reductions for fleet average emissions for large forklift fleets, medium forklift fleets and non-forklift fleets must be met either by retrofitting or replacing the exhaust system to be compliant or to retire the vehicle.

For complete details about how fleet averaging affects your fleet please visit:

[www.arb.ca.gov/msprog/offroad/orspark/orspark.htm](http://www.arb.ca.gov/msprog/offroad/orspark/orspark.htm)

### BlueCAT™ 300 Emission Control System

This system has been approved by CARB for retrofit on propane fueled LSI engines that are 1.4 - 6.0 liters for model years 1990-2001 and non-complying engines for phase-in model years 2001-2003. The system consists of a 3-way catalytic converter/muffler, and a digital air-fuel ratio controller. With over 5,000 muffler designs for virtually any application, this product is designed to help you become 100% complaint and avoid costly fines.

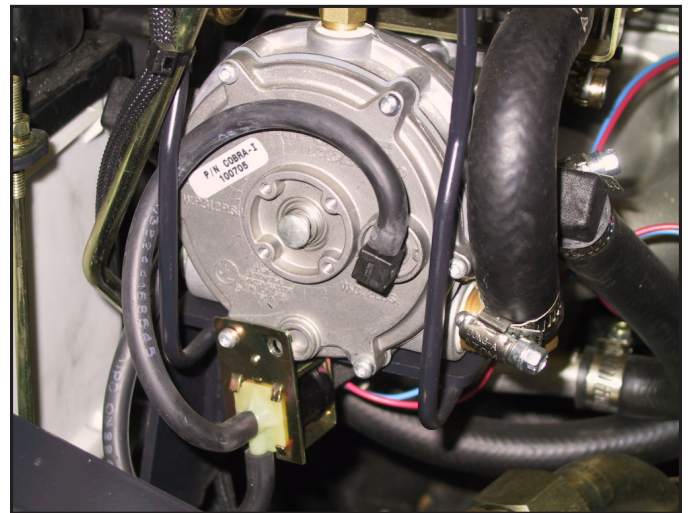
The BlueCAT 300 ECU (electronic control unit) is packaged in a rugged metal enclosure suitable for dash or engine compartment installation. Included on the control unit are self-diagnostic LED indicators which allow for monitoring of its operation. This feature provides a powerful tool for engine operators and service technicians, which minimizes the chances of system malfunction and/or the release of excessive emissions. The entire system, designed for quick and easy installation, includes the following:

- Oxygen sensor port built into the converter/muffler
- Self-diagnostic ECU with all wiring and connectors
- Comprehensive instructions

### How it Works

The air-fuel ratio controller is a closed-loop system and includes a zirconium oxygen (O<sub>2</sub>) sensor, fuel system control solenoid and an ECU. The ECU receives a feedback signal from the O<sub>2</sub> sensor and modulates the solenoid to maintain the engine A/F ratio at the stoichiometric point, thereby maximizing catalyst performance.

The fundamental reactions in a 3-way catalyst are between CO (carbon monoxide) and HC (hydrocarbons) on one side and NO<sub>x</sub> (oxides of nitrogen) on the other. To achieve high conversions of all three emissions simultaneously, the air/fuel ratio must be at the stoichiometric ratio. Simply, this means the amount of CO and HC are in proportion with the amount of NO<sub>x</sub> present in the exhaust – these gases combine to form water, nitrogen and carbon dioxide.



### Finding Your BlueCAT Part Number

Enter the OEM muffler part number into the DealerNet competitive search or use the attached cross-reference to locate the appropriate emission control system part number for your model. Please contact our dealer support department if you need help finding a part number or if your OEM part number does not cross.

**800.832.1275** U.S.

**800.835.1275** Canada

**616.647.2500** International

# BlueCAT 300 Emission Control System Retrofit Kits

OEM	OEM Number	p/n
Cat Lift Trucks	7E7329	A000030679
Cat Lift Trucks	4W2056	A000030678
Cat Lift Trucks	4W2055	A000030677
Cat Lift Trucks	9376210100	A000031901
Cat Lift Trucks	9376201900	A000030828
Cat Lift Trucks	9376201700	A000030828
Cat Lift Trucks	9316220100	A000030706
Cat Lift Trucks	9316217200	A000030810
Cat Lift Trucks	9316212901	A000030706
Cat Lift Trucks	9316206900	A000030760
Cat Lift Trucks	9196200400	A000031916
Cat Lift Trucks	9186222100	A000031898
Cat Lift Trucks	9186212500	A000031898
Cat Lift Trucks	9186206200	A000031898
Cat Lift Trucks	9186205300	A000031902
Cat Lift Trucks	9186205200	A000031898
Cat Lift Trucks	9186204400	A000031898
Cat Lift Trucks	9146230100	A000030701
Cat Lift Trucks	9136200100	A000030731
Cat Lift Trucks	9129311810	A000030731
Cat Lift Trucks	9126312500	A000030731
Cat Lift Trucks	9126306400	A000030731
Cat Lift Trucks	9126302500	A000030731
Cat Lift Trucks	9126301500	A000030731
Cat Lift Trucks	9126300600	A000030819
Cat Lift Trucks	9126300500	A000030819
Cat Lift Trucks	9126256100	A000030731
Cat Lift Trucks	9126236100	A000030731
Cat Lift Trucks	9116310700	A000030760
Cat Lift Trucks	9116310100	A000030760
Cat Lift Trucks	9116300700	A000030760
Cat Lift Trucks	1112744	A000030760
Cat Lift Trucks	1040360	A000030731
Cat Lift Trucks	1038668	A000031898

OEM	OEM Number	p/n
Cat Lift Trucks	1033508	A000031898
Cat Lift Trucks	1015863	A000030706
Clark	8033182	A000030850
Clark	8021183	A000030852
Clark	8021181	A000030853
Clark	8000897	A000030850
Clark	8000892	A000030855
Clark	8000891	A000030855
Clark	8000813	A000030850
Clark	8000568	A000030849
Clark	8000162	A000030863
Clark	4343569	A000030748
Clark	4322530	A000031904
Clark	4321165	A000031889
Clark	2826178	A000031918
Clark	2817615	A000031895
Clark	2817362	A000030811
Clark	2817361	A000030811
Clark	2817133	A000031895
Clark	2817114	A000030809
Clark	2816649	A000030811
Clark	2812618	A000030749
Clark	2812617	A000030748
Clark	2811755	A000031892
Clark	2810203	A000031893
Clark	2808060	A000030748
Clark	2807604	A000031893
Clark	2799376	A000031905
Clark	2798781	A000030748
Clark	2798776	A000030749
Clark	2795800	A000030749
Clark	2795799	A000030748
Clark	2776839	A000031920
Clark	2776724	A000030675

# BlueCAT 300 Emission Control System Retrofit Kits

OEM	OEM Number	p/n
Clark	2775639	A000030675
Clark	2770653	A000030676
Clark	2399967	A000030673
Clark	2383939	A000030674
Clark	930249	A000030823
Clark	926096	A000030832
Clark	925344	A000030813
Clark	903486	A000031918
Daewoo	D810290	A000030839
Daewoo	D490093	A000030822
Daewoo	D141161	A000030738
Daewoo	D141103	A000030740
Daewoo	A252058	A000030837
Daewoo	A223209	A000030839
Daewoo	A223195	A000030821
Daewoo	A219217	A000030821
Daewoo	A218874	A000030867
Daewoo	A218517	A000030827
Daewoo	7331190	A000030867
Heli	A24F60201	A000030842
Heli	A24F260201	A000030842
Heli	A14F260201	A000030864
Hyster	3032104	A000030776
Hyster	2048773	A000030856
Hyster	2048772	A000030856
Hyster	2044217	A000031917
Hyster	2044216	A000031917
Hyster	2044198	A000031917
Hyster	2037124	A000031911
Hyster	2037114	A000031911
Hyster	2037113	A000031911
Hyster	2023445	A000030776
Hyster	2021355	A000030776
Hyster	2021354	A000030776

OEM	OEM Number	p/n
Hyster	1385098	A000030759
Hyster	1375577	A000030759
Hyster	1375576	A000030759
Hyster	1356527	A000030730
Hyster	1356526	A000030730
Hyster	1338282	A000030730
Hyster	1329087	A000030698
Hyster	1314218	A000031921
Hyster	910236	A000031890
Hyster	377221	A000030693
Hyster	377220	A000030693
Hyster	370640	A000031884
Hyster	370639	A000031883
Hyster	355072	A000030694
Hyster	353303	A000031890
Hyster	352505	A000031890
Hyster	344275	A000031911
Hyster	339540	A000030700
Hyster	335513	A000030697
Hyster	305993	A000030699
Hyundai	F53220010	A000030866
Hyundai	F21220100	A000030869
Hyundai	11FU40010	A000030868
Kalmar AC	78761205	A000030765
Kalmar AC	78626180	A000030789
Kalmar AC	74940754	A000030742
Kalmar AC	74940752	A000030757
Kalmar AC	8626180	A000030789
Kalmar AC	8619447	A000030871
Kalmar AC	4949210	A000030726
Komatsu	3FD0321910	A000031899
Komatsu	3EC03A5311	A000031907
Komatsu	3EC03A5310	A000031907
Komatsu	3EC03A2510	A000031912

## BlueCAT 300 Emission Control System Retrofit Kits

OEM	OEM Number	p/n
Komatsu	3EC0331110	A000031909
Komatsu	3EC0311310	A000031886
Komatsu	3EC0311111	A000031885
Komatsu	3EB03A5611	A000030765
Komatsu	3EB03A5111	A000030769
Komatsu	3EB03A2160	A000030704
Komatsu	3EB03A2111	A000030761
Komatsu	3EB03A2110	A000030761
Komatsu	3EB0321112	A000030756
Komatsu	3EB0311312	A000030741
Komatsu	3EB0311311	A000030741
Komatsu	3EB0311112	A000030757
Komatsu	3EB0225220	A000030704
Komatsu	3EA03F5360	A000030790
Komatsu	3EA03F2110	A000030755
Komatsu	3EA03A5611	A000030790
Komatsu	3EA03A5111	A000030791
Komatsu	3EA03A5110	A000030791
Komatsu	3EA03A2210	A000030755
Komatsu	3EA03A2111	A000030763
Komatsu	3EA03A2110	A000030763
Komatsu	3EA0311413	A000030745
Komatsu	3EA0311114	A000030702
Komatsu	3EA0311112	A000030702
Komatsu	34B0311515	A000030802
Komatsu	34B0311117	A000030758
Komatsu	78761201	A000030769
Komatsu	8761201	A000030769
Linde	L3525810110	A000031891
Linde	L3525810101	A000031891
Linde	L3525800106	A000031891
Linde	145783	A000031891
Linde	L3515810151	A000030847
Linde	L3515810138	A000030793

OEM	OEM Number	p/n
Linde	L3515810107	A000030840
Linde	L3515800802	A000030793
Linde	L3515800801	A000030793
Linde	L3505860111	A000030848
Linde	L3315810106	A000030777
Manitou	223658	A000030845
Mitsubishi Forklift Trucks	7E7329	A000030679
Mitsubishi Forklift Trucks	4W2056	A000030678
Mitsubishi Forklift Trucks	4W2055	A000030677
Mitsubishi Forklift Trucks	9376210100	A000031901
Mitsubishi Forklift Trucks	9376201900	A000030828
Mitsubishi Forklift Trucks	9376201700	A000030828
Mitsubishi Forklift Trucks	9316220100	A000030706
Mitsubishi Forklift Trucks	9316217200	A000030810
Mitsubishi Forklift Trucks	9316212901	A000030706
Mitsubishi Forklift Trucks	9316206900	A000030760
Mitsubishi Forklift Trucks	9196200400	A000031916
Mitsubishi Forklift Trucks	9186222100	A000031898
Mitsubishi Forklift Trucks	9186212500	A000031898
Mitsubishi Forklift Trucks	9186206200	A000031898
Mitsubishi Forklift Trucks	9186205300	A000031902
Mitsubishi Forklift Trucks	9186205200	A000031898
Mitsubishi Forklift Trucks	9186204400	A000031898
Mitsubishi Forklift Trucks	9146230100	A000030701
Mitsubishi Forklift Trucks	9136200100	A000030731
Mitsubishi Forklift Trucks	9129311810	A000030731
Mitsubishi Forklift Trucks	9126306400	A000030731
Mitsubishi Forklift Trucks	9126302500	A000030731
Mitsubishi Forklift Trucks	9126301500	A000030731
Mitsubishi Forklift Trucks	9126300600	A000030819
Mitsubishi Forklift Trucks	9126300500	A000030819
Mitsubishi Forklift Trucks	9126256100	A000030731
Mitsubishi Forklift Trucks	9126236100	A000030731
Mitsubishi Forklift Trucks	9116310700	A000030760

# BlueCAT 300 Emission Control System Retrofit Kits

OEM	OEM Number	p/n
Mitsubishi Forklift Trucks	9116310100	A000030760
Mitsubishi Forklift Trucks	9116300700	A000030760
Mitsubishi Forklift Trucks	1112744	A000030760
Mitsubishi Forklift Trucks	1040360	A000030731
Mitsubishi Forklift Trucks	1038668	A000031898
Mitsubishi Forklift Trucks	1033508	A000031898
Mitsubishi Forklift Trucks	1015863	A000030706
Nissan	2090252H00	A000031906
Nissan	20102L0102	A000030795
Nissan	20100L9210	A000031900
Nissan	20100L9200	A000031897
Nissan	20100L6801	A000030778
Nissan	20100L6202	A000030743
Nissan	20100L6201	A000030743
Nissan	20100L3200	A000030709
Nissan	20100L3001	A000030718
Nissan	20100L1600	A000030775
Nissan	20100L1102	A000030710
Nissan	20100L1101	A000030710
Nissan	2010091K10	A000030720
Nissan	2010091K00	A000030721
Nissan	201006G460	A000031972
Nissan	201006G460 (4 Cyl)	A000030768
Nissan	201006G300 (6 Cyl)	A000030800
Nissan	201006G200	A000030788
Nissan	201006G000	A000030796
Nissan	2010055K02	A000030800
Nissan	2010055K01	A000030800
Nissan	2010051H60	A000031887
Nissan	2010051H02	A000031906
Nissan	2010025H60	A000030714
Nissan	2010023H60	A000030714
Nissan	2010023H05	A000030714
Nissan	2010021H05	A000030715

OEM	OEM Number	p/n
Nissan	2010021H00	A000030715
Nissan	2010020H05	A000030715
Nissan	2010015H00	A000030711
Nissan	2010014H60	A000030711
Nissan	2010014H00	A000030711
Nissan	2010011H00	A000030707
Nissan	2010010H60	A000030713
Nissan	2010010H05	A000030719
Nissan	2010010H00	A000030707
Nissan	201000K461 (6 Cyl)	A000031972
Nissan	201000K461 (4 Cyl)	A000030768
Nissan	201000K460 (6 Cyl)	A000031972
Nissan	201000K460 (4 Cyl)	A000030768
Nissan	201000K202	A000030788
Nissan	201000K201	A000030788
Nissan	201000K200	A000030788
Nissan	201000K002	A000030796
Nissan	201000K001	A000030796
Nissan	2010005H63	A000030708
Nissan	2010005H60	A000030708
Nissan	2010005H01	A000030752
Nissan	2010005H00	A000030752
Nissan	2010003H03	A000030716
Nissan	2010000H00	A000030716
Nissan	2010247602	A000030717
Tailift	32510501	A000030831
TCM	FA12T30301	A000030805
TCM	533A080101	A000030794
TCM	516G270351	A000030785
TCM	512T270501	A000030805
TCM	512R270501	A000030859
TCM	250A230201	A000030841
TCM	237A230101	A000030862
TCM	235C232051	A000031910

# BlueCAT 300 Emission Control System Retrofit Kits

OEM	OEM Number	p/n
TCM	232L230401	A000030774
TCM	227A230101	A000030773
TCM	222A230102	A000030764
TCM	222A230101	A000030764
TCM	216G230201	A000030785
TCM	215W230101	A000030762
TCM	215E230201	A000030751
TCM	214A230111	A000030781
TCM	212T230301	A000030805
TCM	212R230301	A000030859
TCM	2123230201A	A000030797
TCM	2584230201	A000030806
TCM	2559230101	A000030724
TCM	2484230201	A000030753
TCM	2460230201	A000030779
TCM	2440232001	A000031894
TCM	2391232002	A000030787
TCM	2374230201	A000030860
TCM	2365230201	A000030723
TCM	2345230201	A000030722
TCM	2320230202	A000030725
TCM	2320230201	A000030725
TCM	2257232001	A000030750
Toyota	17580U120071	A000030838
Toyota	17550U120071	A000030838
Toyota	17510U220071	A000030817
Toyota	17510U217071	A000030825
Toyota	17510U210071	A000030735
Toyota	17510U204071	A000030688
Toyota	17510U200071	A000030687
Toyota	17510U113171	A000030746
Toyota	17510U110071	A000030733
Toyota	17510U100071	A000030680
Toyota	231501027171	A000030783

OEM	OEM Number	p/n
Toyota	231501027071	A000030783
Toyota	175903139070	A000031915
Toyota	175803100071	A000031914
Toyota	175802347071	A000030825
Toyota	175802280171	A000030735
Toyota	175802280071	A000030735
Toyota	175802275071	A000030688
Toyota	175801300071	A000030680
Toyota	175801281171	A000030746
Toyota	175801281071	A000030746
Toyota	175801280171	A000030733
Toyota	175801280071	A000030733
Toyota	175603139071	A000031915
Toyota	175602347071	A000030817
Toyota	175602334071	A000030817
Toyota	175602202071	A000030684
Toyota	175502200171	A000030737
Toyota	175502200071	A000030737
Toyota	175403265071	A000031882
Toyota	175104220071	A000030861
Toyota	175103288271	A000031881
Toyota	175103288171	A000031881
Toyota	175103288071	A000031888
Toyota	175103265071	A000031882
Toyota	175103221071	A000031896
Toyota	175103196071	A000030691
Toyota	175103139071	A000031915
Toyota	175103071071	A000031922
Toyota	175103053071	A000031908
Toyota	175102380071	A000030687
Toyota	175102360071	A000030728
Toyota	175102332071	A000030808
Toyota	175102300071	A000030687
Toyota	175102275071	A000030688

## BlueCAT 300 Emission Control System Retrofit Kits

OEM	OEM Number	p/n
Toyota	175102200171	A000030685
Toyota	175102200071	A000030782
Toyota	175102180071	A000030684
Toyota	175102054371	A000030744
Toyota	175102054271	A000030744
Toyota	175102054171	A000030744
Toyota	175101380071	A000030680
Toyota	175101360271	A000030732
Toyota	175101300071	A000030680
Toyota	175101262071	A000030686
Toyota	175101260271	A000030732
Toyota	175101216071	A000030681
Toyota	175101200271	A000030689
Toyota	175101163071	A000030682
Toyota	175101112271	A000030784
Toyota	175101066071	A000030815
Toyota	175072332071	A000030838
Yale	912261600	A000031903
Yale	911560400	A000030692
Yale	907465600	A000030692
Yale	907290622	A000030771
Yale	907290600	A000030771
Yale	907077400	A000030727
Yale	905194600	A000030729
Yale	901683600	A000030772
Yale	901084400	A000030770
Yale	580022263	A000031919
Yale	580010985	A000031913
Yale	580010955	A000031913
Yale	518802609	A000030799
Yale	505973596	A000030766
Yale	505973538	A000030766